



Where today's science meets tomorrow's care™

Final Program



ATS 2018
*Where today's science
meets tomorrow's care™*

May 18- May 23, 2018
San Diego, CA
conference.thoracic.org

Welcome to ATS 2018

Welcome to San Diego, CA for the 2018 American Thoracic Society International Conference. The conference, which is expected to draw more than 14,000 investigators, educators, and clinicians, is truly the destination for pediatric and adult pulmonary, critical care, and sleep medicine professionals at every level of their careers.

The conference is all about learning, networking and connections. Because it engages attendees across many disciplines and continents, the ATS International Conference draws a large, diverse group of participants, a dedicated and collegial community that inspires each of us to make a difference in patients' lives, now and in the future. By virtue of its size — ATS 2018 features approximately 6,700 original research projects and case reports, 500 sessions, and 800 speakers — participants can attend sessions and special events from early morning to the evening. At ATS 2018 there will be something for everyone.

Don't miss the following important events:

- **Opening Ceremony** featuring a keynote presentation by Darrell G. Kirch, MD, president and chief executive officer of the Association of American Medical Colleges.
- **Tenth Annual ATS Foundation Research Program Benefit** on Saturday honoring James Donohue, MD, with the Foundation's Breathing for Life Award.
- **Keynote Series** highlight state of the art lectures on selected topics in an unopposed format to showcase timely and diverse topics which relate to pulmonary, critical care and sleep medicine.
- **Women's Forum**, which will feature A. Sonia Buist, MD, Professor Emerita of Medicine, Division of Pulmonary and Critical Care Medicine, School of Medicine, Oregon Health & Science University, as the keynote speaker.
- **Respiratory Health Awards**, which includes the Trudeau Medal, Distinguished Achievement Awards, and Amberson Lecture, given by Scott T. Weiss, MD, MS, Channing Division of Network Medicine, Brigham and Women's Hospital and Harvard Medical School
- **ATS Plenary Session** will feature a presentation on the Respiratory Effects of Natural Disasters
- **Assembly Membership Meetings**, which are open to all attendees.

These events create a sense of community among the International Conference attendees, which is precisely what our founders had hoped when they established the world's first respiratory society.

Finally, we wish to acknowledge the hard work and outstanding efforts of the members of the International Conference Committee, Education Committee, Assembly Program Committees, and ATS staff. The success of our conference depends on the dedication, creativity, and support of these individuals.

We welcome you to the International Conference and hope you take advantage of all San Diego has to offer.

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TABLE OF CONTENTS

ATS 2018 INTERNATIONAL CONFERENCE MAY 18-23, SAN DIEGO

This session portion of the ATS International Conference Final Program is published by the ATS as a service to attendees. This publication contains the programs and speakers for the postgraduate courses, scientific and educational sessions presented at the conference.

While every effort is made to ensure accuracy, ATS makes no warranties, expressed or implied, related to the information. Information contained herein is subject to change without notice.

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

1	Friday Postgraduate Courses
13	Saturday Postgraduate Courses
26	Sunday Conference Sessions
129	Monday Conference Sessions
230	Tuesday Conference Sessions
325	Wednesday Conference Sessions

CONFERENCE PLANNERS DISCLOSURES

In accordance with the ACCME Standards for Commercial Support, and those of the *ATS Policy on Management of Conflict of Interest in Official ATS Documents, Projects and Conferences, ATS Policy Governing Relationships Between the Tobacco Industry, ATS Members, and Non-Members Who Participate in ATS Activities*, and *ATS Policy on Professionalism and Ethical Conduct* chairs, moderators, presenters and official planners of the International Conference are required to disclose to ATS any potential conflicts of interest (COI) held by them or their spouse/life partner relevant to their presentation(s) or conference role, including all professional or other financial involvement with tobacco or e-cigarette entities, all relevant financial relationships with commercial interests, and all other relationships that could be perceived as influencing their participation. Conference presenters are also asked to disclose if there will be any discussion in the presentation of “off-label” (unapproved) use of substances/products not approved in the United States for the use under discussion (as per the U.S. Food and Drug Administration Guidance for Industry: Industry-Supported Scientific and Educational Activities).

For the 2018 International Conference, this disclosure information for all individuals in control of content was requested and received by ATS in advance of the Conference, reviewed by appropriate ATS reviewers, and session chairs and others in positions of authority were instructed to manage (resolve) identified faculty conflicts according to procedures overseen by the ATS Ethics and Conflict of Interest Committee.

To access the disclosures made by the faculty of the 2018 International Conference, please go to <http://conference.thoracic.org/speakers>

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| | | Mary E. Streck, MD: <i>Boehringer Ingelheim Pharmaceuticals, Inc. (Data and Safety Monitoring Board, Research Support); Gil-</i> | |

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CLINICAL

POSTGRADUATE COURSE

CME Credits Available: 7.5

PG1A CRITICAL CARE ULTRASOUND AND ECHOCARDIOGRAPHY I

This is part 1 of a two-part course which includes PG1B on Saturday, May 19. Those registering for PG1A will be registered for PG1A and PG1B.

Pre-registration and additional fees required. Continental breakfast and box lunch included. Attendance is limited.

Member: \$900 In-Training Member: \$675
 Non-Member: \$1,200 In-Training Non-Member: \$775

Registrants must bring a laptop to the course to view the course material.

Assembly on Critical Care

8:00 a.m. - 4:00 p.m. SAN DIEGO CONVENTION CENTER

Room 9 (Upper Level)

Target Audience

Providers of critical care or emergency medicine

Objectives

At the conclusion of this session, the participant will be able to:

- apply ultrasound at bedside to assess critically ill patients;
- diagnose alternate etiologies of shock in the critically ill patient;
- apply ultrasound to guide common ICU procedures.

This is a two day postgraduate course that consists of didactic lectures and hands-on stations. The focus is primarily bedside transthoracic echocardiography, with some diagnostic ultrasound. The topics include basic and intermediate critical care echocardiography (including hemodynamic measures), assessment of fluid status, procedural guidance for vascular access and thoracentesis, venography. The hands-on stations will include both healthy models and simulators that can demonstrate abnormal pathology.

Chairing: M.J. Lanspa, MD, MSCR, Salt Lake City, UT
 X. Monnet, MD, PhD, Le Kremlin-Bicetre, France

- 8:00 Welcome and Introduction to Critical Care Ultrasound: Training and Competency**
 M.J. Lanspa, MD, MSCR, Salt Lake City, UT
- 8:15 Basic Physics, Artifacts, Knobology**
 Z. Shaman, MD, Cleveland, OH
- 8:45 Transthoracic Windows and Views**
 S. Nikravan-Weber, MD, Stanford, CA
- 9:15 Basic Evaluation of LV Systolic Function, Measurement of Cardiac Output**
 S. Price, MBBS, London, United Kingdom
- 9:45 Basic Evaluation of RV Size and Function, Pulmonary Embolus**
 D. Pradhan, MD, New York, NY
- 10:15 Break**
- 10:30 Practical Skills Session: Hands-On Station I**
- Apical Window**
 L. Rapoport, MD, Santa Clara, CA
 V.A. Dinh, MD, Loma Linda, CA
 E. Teo, MD, Atlanta, GA
 P.K. Mohabir, MD, Stanford, CA
 S. Price, MBBS, London, United Kingdom
- Parasternal Window**
 X. Monnet, MD, PhD Le Kremlin-Bicetre, France
 T. Brakke, MD, Omaha, NE
 Z. Shaman, MD, Cleveland, OH
 A. Leibowitz, MD, Boston, MA
 L. Grecu, MD, Stony Brook, NY
- Subcostal Window**
 G. Allen, MD, Burlington, VT
 J. Kasal, MD, St. Louis, MO
 D. Pradhan, MD, New York, NY
 S. Nikravan-Weber, MD, Stanford, CA
 S. Cha, MD, Baltimore, MD
- 12:00 Lunch and Clinical Cases I**
 L. Grecu, MD, Stony Brook, NY
- 12:45 Chest Ultrasound**
 P.K. Mohabir, MD, Stanford, CA
- 1:15 Basic Valvulopathy**
 T. Brakke, MD, Omaha, NE
- 1:45 Basic Assessment of Diastolic Function**
 A. Leibowitz, MD, Boston, MA
- 2:15 Break**
- 2:30 Practical Skills Session: Hands-On Station II**
- Lung Ultrasound (Model and Mannequin)**
 L. Rapoport, MD, Santa Clara, CA
 Z. Shaman, MD, Cleveland, OH
 D. Pradhan, MD, New York, NY
 P.K. Mohabir, MD, Stanford, CA
 G. Allen, MD, Burlington, VT

Diastolic Measurements

T. Brakke, MD, Omaha, NE
 S. Price, MBBS, London, United Kingdom
 X. Monnet, MD, PhD, Le Kremlin-Bicetre, France
 A. Leibowitz, MD, Boston, MA
 S. Nikravan-Weber, MD, Stanford, CA

Cardiac Output

L. Grecu, MD, Stony Brook, NY
 V.A. Dinh, MD, Loma Linda, CA
 J. Kasal, MD, St. Louis, MO
 E. Teo, MD, Atlanta, GA
 S. Cha, MD, Baltimore, MD

This session and the International Conference are supported by in-kind grants from


Cook Medical, FUJIFILM Sonosite, Inc, Teleflex Medical, Inc.

All CME sessions have been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) and are free of the control of commercial interests.

CLINICAL • TRANSLATIONAL**POSTGRADUATE COURSE**

CME Credits Available: 6.5

PG2 EXPANDING HORIZONS IN SUPPORT FOR RESPIRATORY FAILURE: ECMO AND BEYOND

 **Pre-registration and additional fees required. Continental breakfast and box lunch included. Attendance is limited.**

Member: \$475 In-Training Member: \$300
 Non-Member: \$550 In-Training Non-Member: \$400

 **Registrants must bring a laptop to the course to view the course material.**

Assemblies on Critical Care; Clinical Problems; Nursing; Pediatrics; Pulmonary Circulation

8:00 a.m. - 4:00 p.m. SAN DIEGO CONVENTION CENTER

Room 4 (Upper Level)

Target Audience

Those who have interest in developing an ECMO program or simply learning about ECMO, will benefit from this session. Clinical staff such as physicians, nurses, NPs and PAs, perfusionists, respiratory therapists, and PTs/OTs, who treat ECMO patients

Objectives

At the conclusion of this session, the participant will be able to:

- apply best practices to patient selection and integrate ECMO into existing treatment pathways for severe respiratory failure. Appropriate patient selection for ECMO is key to provide safe and quality care to critically ill patients;
- gain understanding of the physiology of ECMO support and learn contemporary management of patients receiving ECMO, (ventilator, anticoagulation, transfusions, etc.), all critical components to successful and safe use of ECMO;
- recognize and manage common ECMO-related events and emergency scenarios. The learner will be better able to troubleshoot these events. This will improve the safety and quality of care provided to patients supported with ECMO.

Extracorporeal membrane oxygenation (ECMO) allows for gas exchange and hemodynamic support in patients failing conventional mechanical ventilation and is an evolving way of treating patients with severe respiratory failure. This session will

incorporate multidisciplinary didactic and simulation sessions to educate the learner on optimal use of ECMO and tackle the challenges and questions raised surrounding its use, including patient selection, use of the ventilator during ECMO, treating unique patient populations (such as pregnant patients or those awaiting lung transplantation), physical rehabilitation during ECMO, troubleshooting common problems, and others.

Chairing: H.J. Dalton, MD, Falls Church, VA
 C. Agerstrand, MD, New York, NY

8:00 Introduction

H.J. Dalton, MD, Falls Church, VA

8:05 Roadmap to ECMO: Respiratory Failure Management and Patient Selection

E. Fan, MD, PhD, Toronto, Canada

8:35 Outcomes in Patients Treated with ECMO: What We Know and What We Don't

C.L. Hodgson, PhD, Victoria, Australia

9:05 ECMO in Special Populations

C. Agerstrand, MD, New York, NY

9:35 Ventilator Management of the VV ECMO Patient

A. Combes, MD, PhD, Paris, France

10:05 Break**10:25 New Modalities for Support: ECCO2R and Others**

A. Pesenti, MD, Milan, Italy

10:55 ECMO for Lung Transplantation: How to Select Patients and Optimize Management, Pre and Post

D. Hayes, MD, MS, MEd, Columbus, OH

11:25 Can You Really Ambulate Patients and How?

D. Brodie, MD, New York, NY

11:55 LUNCH**12:40 Simulation Station 1**

D. Hayes, MD, MS, MEd, Columbus, OH
 T. Preston, CCP, Columbus, OH

1:10 Simulation Station 2

M. Desai, MD, Falls Church, VA
 T. Friedrich, RN, MSN, Rochester, MN

1:40 Simulation Station 3

H.E. Callisen, PA, Phoenix, AZ
 G.J. Schears, MD, Rochester, MN

2:10 Break**2:30 Simulation Station 4**

C. Alwardt, CCP, PhD, Rochester, MN
 D. Brodie, MD, New York, NY

3:00 Simulation Station 5

C. Agerstrand, MD, New York, NY
 M. Robinson, RN, Arcadia, OK

3:30 Simulation Station 6 ECPR in the ED

Z. Shinar, MD, San Diego, CA

This session and the International Conference are supported by an in-kind grant from FUJIFILM Sonosite, Inc.

All CME sessions have been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) and are free of the control of commercial interests.

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

CLINICAL

POSTGRADUATE COURSE

CME Credits Available: 6.75

PG3 ADVANCED PAP THERAPY: TREATMENT OF SLEEP DISORDERED BREATHING BEYOND OSA**R** Pre-registration and additional fees required. Continental breakfast and box lunch included. Attendance is limited.

Member: \$475	In-Training Member: \$300
Non-Member: \$550	In-Training Non-Member: \$400

L Registrants must bring a laptop to the course to view the course material.**Assemblies on Sleep and Respiratory Neurobiology; Clinical Problems; Pulmonary Rehabilitation; Medical Education Section****8:00 a.m. - 4:00 p.m. SAN DIEGO CONVENTION CENTER****Room 10 (Upper Level)****Target Audience**

Physicians in sleep medicine, pulmonary, cardiology, pediatrics and possibly critical care; physicians in training (sleep and pulmonary fellows); advanced practice nurses, physician assistants, respiratory therapists, sleep technologists

Objectives

At the conclusion of this session, the participant will be able to:

- Identify the indications for and limitations of various PAP devices in the management of obstructive and central sleep apnea syndromes and sleep-related hypoventilation;
- develop new strategies to manage the care of central sleep apnea, in heart failure or chronic opioid patients, as well as new tools for managing sleep disordered breathing with hypoventilation in chronic lung disease and neuromuscular disease;
- determine proper initial settings, adjust settings in an office based environment, trouble shoot common problems and interpret adherence data from various PAP devices used to treat a wide spectrum of OSA and CSA syndromes.

This hands-on course consists of a morning interactive didactic session, case-based break-out sessions and a final afternoon session with opportunities to experiment with different advanced PAP devices. The focus is the management of sleep disordered breathing incorporating recent findings and addressing current gaps in guidelines. The lectures will review pathophysiology and epidemiology, but primarily explore the different treatment approaches and PAP modalities, including OSA with auto-PAP, central sleep apnea and sleep-related hypoventilation sub-types. Participants will next break into small groups of 10 for case studies (selecting 3 cases out of 6 to discuss) with faculty leader. Finally they will have four hands-on experiences with different advanced modality PAP devices.

Chairing: M.E. Billings, MD, MSc, Seattle, WA
G.W. Pien, MD, MS, Baltimore, MD**8:00 Welcome/Introduction**

M.E. Billings, MD, MSc, Seattle, WA

8:05 Auto-Titration Devices for OSA: Beyond the Basics

G.W. Pien, MD, MS, Baltimore, MD

8:30 Management of Central Sleep Apnea Syndromes

M.T. Naughton, MD, Prahran, Australia

9:15 Management of Sleep-Related Hypoventilation

L.F. Wolfe, MD, Chicago, IL

10:00 Break**10:15 Breakout Session 1**

J.O. Benditt, MD, Seattle, WA

10:30 Breakout Session 2

S.P. Patil, MD, PhD, Baltimore, MD

10:45 Breakout Session 3

N. Freedman, MD, Grayslake, IL

11:00 Breakout Session 4

R.J. Schwab, MD, Philadelphia, PA

11:15 Breakout Session 5

I. Gurubhagavatula, MD, MPH, Philadelphia, PA

11:30 Breakout Session 6

E.C. Parsons, MD, MSc, Seattle, WA

11:45 LUNCH**12:35 Station 1: Auto-Titrating Devices**

B. Fields, MD, Atlanta, GA

1:20 Station 2: Adaptive Servo-Ventilation

R.J. Schwab, MD, Philadelphia, PA

2:05 Break**2:20 Station 3: Average Volume Assured Pressure Support**

V.K. Kapur, MD, MPH, Seattle, WA

3:05 Station 4: Non-Invasive Positive Pressure Ventilation

B.N. Palen, MD, Seattle, WA

3:50 Wrap-up

M.E. Billings, MD, MSc, Seattle, WA

This session and the International Conference are supported by in-kind grants from Fisher Paykel, Philips Respironics, ResMed.

All CME sessions have been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) and are free of the control of commercial interests.

BASIC • CLINICAL • TRANSLATIONAL

POSTGRADUATE COURSE

CME Credits Available: 6.5

PG4 ASTHMA STATE OF THE ART 2018**R** Pre-registration and additional fees required. Continental breakfast and box lunch included. Attendance is limited.

Member: \$350	In-Training Member: \$200
Non-Member: \$425	In-Training Non-Member: \$300

L Registrants must bring a laptop to the course to view the course material.**Assembly on Allergy, Immunology and Inflammation****8:00 a.m. - 4:00 p.m. SAN DIEGO CONVENTION CENTER****Room 6 F (Upper Level)****Target Audience**

Pulmonary and allergy physicians, physicians in training, and advanced

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

practice providers who are focused on care of patients with asthma. Clinical, translational, and basic science researchers involved in studies of asthma pathogenesis and therapy

Objectives

At the conclusion of this session, the participant will be able to:

- improve knowledge on the origins of asthma and its pathophysiology;
- diagnose different asthma phenotypes;
- gain new strategies to manage difficult asthma cases.

This session will provide a comprehensive review of the latest knowledge on asthma pathogenesis, clinical science and therapy. Discussion of newly developed therapies for asthma will be emphasized. The program will have three interactive sections: a journal club on recent papers, clinical controversies, and an expert panel discussion of difficult clinical cases.

Chairing: B.D. Medoff, MD, Boston, MA
P. Akuthota, MD, La Jolla, CA
M. Kraft, MD, Tucson, AZ

8:00 Introduction

M. Kraft, MD, Tucson, AZ

8:05 Early Life Events and the Origins of Asthma

F.D. Martinez, MD, Tucson, AZ

8:35 Asthma Endotypes: A New Approach to Characterizing Disease

S.E. Wenzel, MD, Pittsburgh, PA

9:05 The Immunologic Basis of Asthma

P. Vijayanand, MBBS, PhD, La Jolla, CA

9:35 The Role of Lung Structural Cells in Asthma

J.L. Ingram, PhD, Durham, NC

10:05 Break

10:20 Research Highlights from the Recent Literature

P. Akuthota, MD, La Jolla, CA
R.A. Rahimi, MD, PhD, Boston, MA
J.L. Cho, MD, Boston, MA

10:50 Severe Asthma and Non-Eosinophilic Asthma

M. Kraft, MD, Tucson, AZ

11:20 Asthma Exacerbations: Mechanisms and Treatment

L.C. Denlinger, MD, PhD, Madison, WI

11:50 LUNCH

12:45 Obesity and Asthma

N. Lugogo, MD, Durham, NC

1:15 Clinical Controversies in Asthma - ACOS

B.D. Medoff, MD, Boston, MA
M. Van Den Berge, MD, Groningen, Netherlands
S. Christenson, MD, San Francisco, CA

2:00 Emerging Biologic Therapies in Asthma

G.M. Gauvreau, PhD, Hamilton, Canada

2:30 Break

2:45 Bronchial Thermoplasty for Asthma

S. Khatri, MD, MS, Cleveland, OH

3:15 Case Studies

M. Kraft, MD, Tucson, AZ

This session and the International Conference are supported by educational grants from GlaxoSmithKline, Sanofi Genzyme and Regeneron Pharmaceuticals. All CME sessions have been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) and are free of the control of commercial interests.

CLINICAL

POSTGRADUATE COURSE

CME Credits Available: 6.75

PG5 RACING TO EXCELLENCE: THE ART AND SCIENCE OF CRITICAL CARE QUALITY IMPROVEMENT

R Pre-registration and additional fees required. Continental breakfast and box lunch included. Attendance is limited.

Member: \$400

In-Training Member: \$250

Non-Member: \$475

In-Training Non-Member: \$350



Registrants must bring a laptop to the course to view the course material.

Assemblies on Behavioral Science and Health Services Research; Critical Care; Quality Improvement Committee

8:00 a.m. - 4:00 p.m.

SAN DIEGO CONVENTION CENTER

Room 11 B (Upper Level)

Target Audience

Physicians, nurses, respiratory therapists, practice managers, hospital administrators and researchers interested in quality improvement.

Objectives

At the conclusion of this session, the participant will be able to:

- understand the techniques and tools required to lead efforts in quality measurement and improvement in health care;
- identify enablers, barriers, and solutions to facilitate effective QI implementation;
- improve quality at the local level, engaging administrators, mid-level managers, and bedside clinicians to effectively overcome barriers, utilize enablers, and implement programs.

Due to changes in the health care landscape, there is intense pressure to improve the quality of care delivered. The pressure is especially intense in critical care, a venue associated with significant mortality, morbidity, and disproportionate cost. At the same time, despite an ever-increasing number of guidelines and an emerging evidence base, knowledge translation is slow and incomplete. The objectives of the session are to provide participants with practical tools that serve as the foundation of quality improvement. Participants will attend practical, case-based lectures on quality improvement methodology, followed by hands-on experience with the tools in interactive breakout sessions on 3 different processes of care.

Chairing: D.W. Ford, MD, Charleston, SC

M.E. Mikkelsen, MSCE, MD, Wynnewood, PA

A. Amaral, MD, Toronto, Canada

8:00 Introduction

A. Amaral, MD, Toronto, Canada

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).


- 8:10 QI Planning: Where Do I Start? Identifying the Problem that Requires a Solution**
V. Liu, MD, MS, Oakland, CA
- 8:30 QI Planning: Understanding the Problem: Process Mapping and Fishbone Diagrams**
D.W. Ford, MD, Charleston, SC
- 9:00 Breakout Session 1: Process Mapping and Fishbone Diagrams**
- 10:00 Break**
- 10:10 QI Implementation: Plan, Do, Study, Act (PDSA) Cycles**
C.T.L. Hough, MD, MSc, Seattle, WA
- 10:30 QI Implementation: Show Me the Data, Implementation and Patient-Centered Outcomes**
A. Amaral, MD, Toronto, Canada
- 10:50 Breakout Session 2: PDSA Cycles and Defining Metrics**
- 11:50 LUNCH**
- 12:50 QI Implementation: Implementation Strategies 101**
J. Stevens, MD, MS, Boston, MA
- 1:10 QI Implementation: Leading and Managing Implementation**
D.J. Murphy, PhD, MD, Atlanta, GA
- 1:30 QI Implementation: Change Management and Sustaining Improvements**
N. Adhikari, MD, MS, Toronto, Canada
- 1:50 Breakout Session 3: Lessons Learned from Multi-Stakeholder Engagement**
- 2:50 Break**
- 3:00 Meet the Experts: Opportunity to Query Content Experts with Specific Questions Relevant to Topic/Institution**
- 3:30 Debrief and Wrap-Up**

CLINICAL

POSTGRADUATE COURSE

CME Credits Available: 6.5

PG6 SARCOIDOSIS UPDATE

 **Pre-registration and additional fees required. Continental breakfast and box lunch included. Attendance is limited.**

Member: \$350 In-Training Member: \$200
Non-Member: \$425 In-Training Non-Member: \$300

 **Registrants must bring a laptop to the course to view the course material.**

Assemblies on Clinical Problems; Allergy, Immunology and Inflammation

8:00 a.m. - 4:00 p.m. SAN DIEGO CONVENTION CENTER
Room 3 (Upper Level)

Target Audience

Physicians, trainees, nurses, respiratory therapists, and licensed independent practitioners (e.g. PA, NP) who diagnose or treat sarcoidosis patients

Objectives

At the conclusion of this session, the participant will be able to:

- Appropriately assess systemic sarcoidosis manifestations, including use of testing to diagnose organ involvement and assessment of the likelihood that a patient-related symptom is due to sarcoidosis;
- More appropriately use activity markers and clinical features to determine when to treat patients, and to provide better prognostic information that will inform the aggressiveness of follow-up testing and therapy;

- Implement diagnostic and treatment strategies for neurologic and cardiac sarcoidosis.

This course is designed to provide foundational knowledge about the diagnosis and management of sarcoidosis, and also to update more experienced practitioners about evolving trends in a comprehensive approach to sarcoidosis. There will be a substantial focus on extrapulmonary manifestations of sarcoidosis.

Chairing: D.A. Culver, DO, Cleveland, OH
J.C. Grutters, MD, Nieuwegein, Netherlands

- 8:00 Diagnosing Sarcoidosis**
R.P. Baughman, MD, Cincinnati, OH
- 8:30 Radiologic Manifestations of Sarcoidosis and Its Mimickers**
S.L.F. Walsh, MD, PhD, London, United Kingdom
- 8:55 Assessment and Treatment of Pulmonary Sarcoidosis**
W.E. James, MD, Charleston, SC
- 9:20 Rheumatologist's Approach to Immunosuppression**
C.B. Ligon, MD, MHS, Philadelphia, PA
- 9:50 Break**
- 10:10 Activity Markers and Assessing Prognosis**
J.C. Grutters, MD, Nieuwegein, Netherlands
- 10:35 Complicated Pulmonary Sarcoidosis**
S.D. Nathan, MD, Falls Church, VA
- 11:05 PRO: Routine, Repeated and Intense Comprehensive Screening**
A.U. Wells, MD, London, United Kingdom
- 11:20 CON: Routine, Repeated and Intense Comprehensive Screening**
D.A. Culver, DO, Cleveland, OH
- 11:55 Improving Quality of Life in Sarcoidosis**
M. Wijsenbeek, MD, PhD, Rotterdam, Netherlands
- 12:00 LUNCH**
- 12:50 Neurosarcoidosis: Diagnosis and Treatment**
J. Tavee, MD, Chicago, IL
- 1:20 Minisymposium: Recognition and Diagnosis of Cardiac Sarcoidosis**
E. Joyce, MD, PhD, Cleveland, OH
- 1:40 Minisymposium: Imaging Tests in Cardiac Sarcoidosis**
R. Blankstein, MD, Boston, MA
- 2:00 Minisymposium: Should All Cardiac Sarcoidosis Be Treated, and How?**
N.Y. Hamzeh, MD, Denver, CO
- 2:20 Break**

- 2:40 Update on Pathogenesis**
L. Koth, MD, San Francisco, CA
- 3:05 Systems Biology: The Next Frontier**
C. Montgomery, PhD, Oklahoma City, OK
- 3:30 What New Ideas Are Changing Our Practice?**
M.A. Judson, MD, Albany, NY

This session and the International Conference are supported by an educational grant from Mallinckrodt Pharmaceuticals.


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CLINICAL

POSTGRADUATE COURSE

CME Credits Available: 6.75

PG7 PLEURAL DISEASE 2018: EVIDENCE BASED BEST PRACTICE IN INVESTIGATIONS AND MANAGEMENT

 Pre-registration and additional fees required. Continental breakfast and box lunch included. Attendance is limited.

Member: \$350 In-Training Member: \$200
Non-Member: \$425 In-Training Non-Member: \$300

 Registrants must bring a laptop to the course to view the course material.

Assemblies on Clinical Problems; Pulmonary Infections and Tuberculosis ; Thoracic Oncology

8:00 a.m. - 4:00 p.m. SAN DIEGO CONVENTION CENTER
Room 6 D (Upper Level)

Target Audience

Specialists and trainees in pulmonary and critical care medicine, infectious disease physicians, intensivists, general practitioners, research scientists and related health care professionals including surgeons and nurses

Objectives

At the conclusion of this session, the participant will be able to:

- describe the investigation of patients with pleural disease, including pleural fluid analysis, radiology and the role of invasive diagnostic strategies;
- understand and describe current evidence and best practice in assessment and management of infectious pleural disease, including tuberculosis and bacterial etiologies;
- describe diagnosis and management of malignant pleural disease, including pleural fluid management strategies.

This session will describe the modern, evidence based approach to the broad range of Pleural Disease, from recognized world experts. The session will provide a strong base from which clinicians can go on to provide excellent, rational and evidence based patient focused care in pleural disease.

Chairing: N. Rahman, BM BCH, MSc, Oxford, United Kingdom
Y.C.G. Lee, MBChB, PhD, Perth, Australia

8:00 Introduction
N. Rahman, BM BCH, MSc, Oxford, United Kingdom


- 8:10 Analysis of Pleural Fluid**
Y.C.G. Lee, MBChB, PhD, Perth, Australia
- 8:50 Modern Imaging of the Pleura - CXR, CT and MRI**
F.V. Gleeson, MD, Oxford, United Kingdom
- 9:30 Thoracic Ultrasound in Pleural Disease - Basic to Advanced**
I. Psallidas, PhD, Athens, Greece
- 10:10 Break**
- 10:20 Pleural Interventions and Manometry**
D.J. Feller-Kopman, MD, Baltimore, MD
- 11:00 Management of Empyema**
N. Rahman, BM BCH, MSc, Oxford, United Kingdom
- 11:40 LUNCH**
- 12:30 Other Common and Unusual Pleural Diseases: Key Management Points**
C.F.N. Koegelenberg, MD, PhD, Cape Town, South Africa
- 1:10 Pneumothorax Management**
S. Walker, MD, Bristol, United Kingdom
- 1:50 Management of Malignant Pleural Effusion**
N. Maskell, MD, Bristol, United Kingdom
- 2:30 Break**
- 2:40 Mesothelioma- from Trials to Current Practice**
D.H. Sterman, MD, New York, NY
- 3:20 Pleural Disease in the Critically Sick Patient**
R. Ascik, MD, Oxford, United Kingdom

CLINICAL

POSTGRADUATE COURSE

CME Credits Available: 6.75

PG8 A PHYSIOLOGIC APPROACH TO MECHANICAL VENTILATION

 Pre-registration and additional fees required. Continental breakfast and box lunch included. Attendance is limited.

Member: \$400 In-Training Member: \$250
Non-Member: \$475 In-Training Non-Member: \$350

 Registrants must bring a laptop to the course to view the course material.

Assemblies on Critical Care; Respiratory Structure and Function

8:00 a.m. - 4:00 p.m. SAN DIEGO CONVENTION CENTER
Room 11 A (Upper Level)

Target Audience

Clinicians who care for mechanically ventilated patients in the ICU. This session will also be of interests to students, fellows and researchers who wish to better understand the physiologic basis of common ventilatory strategies

Objectives

At the conclusion of this session, the participant will be able to:

- Apply appropriate oxygen targets for mechanically ventilated patients;
- More appropriately choose candidates for prone ventilation;

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- Develop a better understanding of heart lung interactions in mechanical ventilation.

This course is focused on the bedside management of mechanical ventilation and will stress a physiologic approach to managing the ventilator and interpreting the effects of interventions. We will cover appropriate oxygenation goals, uses and physiologic effects of PEEP, heart-lung interaction as it relates to mechanical ventilation, the physiology of prone ventilation in severe ARDS, management of the flow-limited patient including status asthmaticus and severe obstructive disease, and patient-ventilator synchrony. We will explore controversies in the physiologic literature concerning these techniques and critically examine common clinical rationales for their use. The session will conclude with small group case discussions in which participants will apply the principles covered in the didactic sessions.

Chairing: C.C. Hardin, MD, PhD, Boston, MA
K. Hibbert, MD, Boston, MA


- 8:00 Introduction to the Physiology of Mechanical Ventilation**
C.C. Hardin, MD, PhD, Boston, MA
- 8:40 Oxygenation, V/Q and Gas Exchange in Mechanical Ventilation**
S.R. Hopkins, MD, PhD, La Jolla, CA
- 9:20 Heart-Lung Interaction in Mechanical Ventilation**
S.A. Magder, MD, Montreal, Canada
- 10:20 Break**
- 10:40 Physiologic Effects of PEEP**
S. Sharma, MD, Aurora, CO
- 11:20 Patient-Ventilator Synchrony and Ventilator Waveforms**
B.T. Thompson, MD, Boston, MA
- 12:00 LUNCH**
- 12:40 Physiology of Ventilation in Severe Asthma**
D.R. Hess, PhD, Boston, MA
- 1:20 Physiology of Prone Ventilation**
I.S. Douglas, MD, Denver, CO
- 2:00 Break**
- 2:20 Case Discussions**
K. Hibbert, MD, Boston, MA

CLINICAL

POSTGRADUATE COURSE

CME Credits Available: 7

PG9 DOES MY PATIENT HAVE ENVIRONMENTAL OR OCCUPATIONAL LUNG DISEASE?

 Pre-registration and additional fees required. Continental breakfast and box lunch included. Attendance is limited.

Member: \$350 In-Training Member: \$200
Non-Member: \$425 In-Training Non-Member: \$300

 Registrants must bring a laptop to the course to view the course material.

Assemblies on Environmental, Occupational and Population Health;
Clinical Problems

8:00 a.m. - 4:00 p.m. SAN DIEGO CONVENTION CENTER
Room 7 A (Upper Level)

Target Audience

Clinicians, trainees and allied health personnel

Objectives

At the conclusion of this session, the participant will be able to:

- diagnose lung disease due to or exacerbated by environmental and occupational exposures, leading to broader differential diagnoses, larger toolbox for managing this type of lung disease, and improved patient outcomes;
- gain new findings about emerging exposures such as e-cigarettes that cause lung disease, and have new strategies to manage the care of common exposures such as indoor allergen and mold exposure;
- gain new strategies to assess for lung diseases due to environmental and occupational exposures, including using a multi-disciplinary approach with the input of radiologists, pathologists, and occupational health practitioners.

The contribution of environmental and occupational exposures to the burden of many common lung diseases is under appreciated. Failure to recognize these contributions can lead to misdiagnosis or suboptimal treatment. Many clinicians are often unsure of how to respond to patient questions regarding whether exposures caused their lung disease. This highly interactive session will provide a multi-disciplinary approach to the diagnosis and treatment of environmental and occupational lung diseases, teach clinicians about environmental contributors to common lung diseases, and update the audience on emerging exposure related lung diseases.

Chairing: P.S. Lai, MPH, MD, Boston, MA
Y.T. Huang, MHS, MD, Durham, NC

- 8:00 Opening Remarks**
P.S. Lai, MPH, MD, Boston, MA
- 8:05 Where Do I Begin? A Clinician's Approach**
D.C. Christiani, MD, MPH, MS, Boston, MA
- 8:40 Test or Remediate? A Diagnostic Approach**
Y.T. Huang, MHS, MD, Durham, NC
- 9:15 How Will Imaging Help? A Radiologist's Approach**
S. Hobbs, MD, Lexington, KY
- 9:50 When Should I Biopsy? A Pathologist's Approach**
F.H.Y. Green, MD, Calgary, Canada
- 10:25 Break**
- 10:35 Asthma + COPD: When Is It Work Related?**
S.M. Tarlo, MBBS, Toronto, Canada
- 11:10 Hypersensitivity Pneumonitis - Diagnosis, Treatment, and Prognosis**
F. Morell, MD, PhD, Barcelona, Spain
- 11:45 LUNCH**
- 12:15 Is It Sarcoidosis?**
L.A. Maier, MSPH, MD, Denver, CO
- 12:50 Fibrotic Interstitial Lung Disease**
M. Gulati, MD, MPH, New Haven, CT
- 1:25 Lung Cancer and Mesothelioma**
H.M. Kippen, MD, MPH, Piscataway, NJ
- 2:00 Break**


- 2:10 Doc Is It the Mold? Indoor Microbial and Allergen Exposures**
W. Phipatanakul, MD, Boston, MA
- 2:45 From E-Cigarettes to Hookahs - How Bad Are They?**
C.S. Calfee, MD, San Francisco, CA
- 3:20 Lung Diseases from the War on Terror**
C.S. Rose, MD, MPH, Denver, CO
- 3:55 Closing Remarks**
P.S. Lai, MPH, MD, Boston, MA

CLINICAL

POSTGRADUATE COURSE

CME Credits Available: 6.5

PG10 DIFFICULT CLINICAL PROBLEMS IN PULMONARY AND CRITICAL CARE INFECTIONS

 Pre-registration and additional fees required. Continental breakfast and box lunch included. Attendance is limited.

Member: \$350 In-Training Member: \$200
Non-Member: \$425 In-Training Non-Member: \$300

 Registrants must bring a laptop to the course to view the course material.

Assemblies on Pulmonary Infections and Tuberculosis; Clinical Problems; Critical Care

8:00 a.m. - 4:00 p.m. SAN DIEGO CONVENTION CENTER
Room 7 B (Upper Level)

Target Audience

Clinicians managing patients with pulmonary and critical care acquired infections

Objectives

At the conclusion of this session, the participant will be able to:

- gain a much greater understanding of the range of pulmonary infections that can occur in immunocompetent and immunocompromised hosts;
- better appreciate the evidence supporting different treatment strategies in pulmonary infections;
- have a much better knowledge of new diagnostic tests, treatments and outcome measures that can be applied in their local setting.

This course will provide clinicians with a broad overview and an update of the current challenging issues in the management of pulmonary and critical care infections, including typical bacterial pneumonia, mycobacterial, fungal, and viral infections as well as general approaches to infections in the immunocompromised host.

Chairing: C.A. Hage, MD, Indianapolis, IN
K.A. Crothers, MD, Seattle, WA
G.W. Waterer, MBBS, MBA, PhD, Perth, Australia

- 8:00 What Are the Big Changes in the New VAP/HAP Treatment Guidelines?**
M.L. Metersky, MD, Farmington, CT

- 8:25 What Is New in the Management of CAP in 2018**
G.W. Waterer, MBBS, MBA, PhD, Perth, Australia

- 8:50 Antimicrobial Stewardship: Implications and Practical Guide for the Pulmonary Critical Care Providers**
R.G. Wunderink, MD, Chicago, IL

- 9:15 Panel Discussion**

- 9:30 Break**

- 9:45 Practical Guide for the Management of Bronchiectasis, Current Update**
J.D. Chalmers, MD, PhD, Dundee, United Kingdom

- 10:10 Updates on the Management of NTM Lung Infections**
R. Thomson, MBBS, PhD, Greenslopes, Australia

- 10:35 Tuberculosis: What Is New in the Diagnosis and New Treatment Options**
C.L. Daley, MD, Denver, CO

- 11:00 Panel Discussion**

- 11:15 LUNCH**

- 12:15 Empyema and Other Pleural Infections- Diagnosis and Management in 2018**
Y.C.G. Lee, MBChB, PhD, Perth, Australia

- 12:40 Emerging Viral Respiratory Tract Infections of Global Significance**
D.S. Hui, MD, MBBS, Shatin, Hong Kong

- 1:05 Vaccines for Respiratory Infection - Who Should Get What and When?**
M. Griffin, MD, MPH, Nashville, TN

- 1:30 Panel Discussion**

- 1:45 Break**

- 2:00 Pneumonia in Patients Treated with Anti-TNF Therapy and Other Novel Biologics**
K.L. Winthrop, MD, MPH, Portland, OR

- 2:25 Pulmonary Infections and Respiratory Microbiome Alterations in HIV/AIDS**
K.A. Crothers, MD, Seattle, WA

- 2:50 Pneumonia in the Solid Organ Transplant Recipients**
C.A. Hage, MD, Indianapolis, IN

- 3:15 Pneumonia in Patients with Hematologic Malignancies and HSCT Recipients**
S.E. Evans, MD, Houston, TX

- 3:40 Panel Discussion**

*This session and the International Conference are supported by an educational grant from **Insmed Incorporated.***


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CLINICAL • TRANSLATIONAL

POSTGRADUATE COURSE

CME Credits Available: 7

PG11 GENETIC PULMONARY MEDICINE

 Pre-registration and additional fees required. Continental breakfast and box lunch included. Attendance is limited.

Member: \$350 In-Training Member: \$200
Non-Member: \$425 In-Training Non-Member: \$300

 Registrants must bring a laptop to the course to view the course material.

Assemblies on Pediatrics; Allergy, Immunology and Inflammation;
Respiratory Cell and Molecular Biology; Genetics and Genomics Section

8:00 a.m. - 4:00 p.m. SAN DIEGO CONVENTION CENTER

Room 1 A (Upper Level)

Target Audience

All pulmonary physicians, pulmonary physician assistants, pulmonary fellows who care for patients with respiratory disease

Objectives

At the conclusion of this session, the participant will be able to:

- recognize and diagnose genetic lung diseases including short telomere syndrome, primary, ciliary dyskinesia, surfactant deficiency, LAM and BHD;
- integrate new treatment options in discussing HHT, CF, Duchenne muscular dystrophy or LAM with patients;
- apply basic principles of genetics and genotype-phenotype correlation, together with current classification of genetic variants to better interpret genetic test results.

This course will provide attendees with a comprehensive overview of the ever increasing role of genetics in the practice of pulmonary medicine. Regardless of background, attendees will come away from this course with a solid understanding of the basic principles of clinical genetics; they will understand when to suspect genetic disease in patients with lung disease and will be able to determine if testing in these patients is warranted; they will learn how to interpret genetic test results, and determine when further investigations are required. The course will conclude with an interactive case-based session.

Chairing: B.A. Raby, MPH, MD, Boston, MA
T.B. Kinane, MBChB, MD, Boston, MA
L. Yonker, MD, Boston, MA

- 8:00 Introduction**
B.A. Raby, MPH, MD, Boston, MA
- 8:10 Gene Panels, Whole Exome Sequencing and Whole Exome Sequencing - Nuts And Bolts**
M.M. Wurfel, MD, PhD, Seattle, WA
- 9:05 Sequence Interpretation: Is My Mutation Pathogenic?**
A. Hamvas, MD, Chicago, IL
- 9:35 The Use of Pluripotent Stem Cell to Determine if Mutations Are Pathogenic**
F.J. Hawkins, ChB, MB, Boston, MA
- 10:05 Genetic Counseling: Why It Matters**
N. Carmichael, MS, Boston, MA

10:35 Break

10:45 **Pulmonary Vasculopathies: From PPH to HHT**
W. Chung, MD, PhD, New York, NY

11:15 **Pediatric Interstitial Lung Disease: How Rapid Genetic Screening Is Changing Clinical Practice**
L.M. Nogee, MD, Baltimore, MD

11:45 **Interstitial Lung Disease: Telomeres, Surfactant, and All That MUC**
C.K. Garcia, MD, PhD, Dallas, TX

12:15 LUNCH

1:00 **Bronchiectasis: Time for a New Diagnostic Genetic Algorithm**
B.A. Raby, MPH, MD, Boston, MA

1:30 **Emphysema: Alpha-1-Antitrypsin Deficiency and Beyond**
M.L. Brantly, MD, Gainesville, FL

2:00 **Rare Lung Disease: A Genetic Approach**
J. Kropski, MD, Nashville, TN

2:30 Break

2:40 **Muscular Disease: Why Genetics Matters**
T.B. Kinane, MBChB, MD, Boston, MA

3:10 **Case Presentations**
L. Yonker, MD, Boston, MA


3:50 **Concluding Remarks**
T.B. Kinane, MBChB, MD, Boston, MA

BASIC • CLINICAL • TRANSLATIONAL

POSTGRADUATE COURSE

CME Credits Available: 7

PG12 PEDIATRIC RESPIRATORY PHYSIOLOGY: TESTS OF LUNG FUNCTION AND DISEASES THEY TEST FOR

 Pre-registration and additional fees required. Continental breakfast and box lunch included. Attendance is limited.

Member: \$350 In-Training Member: \$200
Non-Member: \$425 In-Training Non-Member: \$300

 Registrants must bring a laptop to the course to view the course material.

Assemblies on Pediatrics; Clinical Problems; Critical Care; Pulmonary Circulation; Respiratory Cell and Molecular Biology; Respiratory Structure and Function

8:00 a.m. - 4:00 p.m. SAN DIEGO CONVENTION CENTER

Room 1 B (Upper Level)

Target Audience

Fellows in training as well as established physicians in the practice of pediatric pulmonology, critical care or neonatal medicine who are interested in reviewing basic physiology principles as they apply to clinical care.

Objectives

At the conclusion of this session, the participant will be able to:

- Learn how physiologic measurements can be used to change interventions and enhance outcomes

- Apply several basic respiratory principles to the diagnosis and management of common pediatric respiratory disorders
- Identify the rationale for several measurement techniques and determine when these should be used

The course will consist of a series of paired lectures covering several topics in pediatric respiratory physiology, reviewing first a test of lung function and the physiological principles underlying the test, and then the companion talk will review how that test demonstrates pathophysiology relating to a particular pediatric respiratory disease. An interactive format, using questions from the speakers and audience touchpads to give answers will be used to enhance audience participation, and to allow the participant to understand key concepts or to identify areas requiring additional study.

Chairing: H.B. Panitch, MD, Philadelphia, PA
J.L. Allen, MD, Philadelphia, PA

8:00 Spirometry and Forced Oscillation Technique

J.L. Allen, MD, Philadelphia, PA

8:35 Childhood Determinants of Adult Lung Disease

T.W. Guilbert, MD, Cincinnati, OH

9:10 The Multiple Breath Washout Technique

P. Robinson, MD, PhD, Westmead, Australia

9:45 Break

9:55 Cystic Fibrosis: Structure and Function

S.M. Stick, MB BCh, Perth, Australia

10:30 Exhaled Gases

B.M. Gaston, MD, Cleveland, OH

11:05 Asthma and Exhaled Nitric Oxide

A.B. Chang, MBBS, PhD, Herston, Australia

11:40 LUNCH

12:20 Diffusing Capacity

G. Kurland, MD, Pittsburgh, PA

12:55 Sickle Cell Disease and the Lung

R.T. Cohen, MD, MPH, Boston, MA

1:30 Tidal Mechanics of the Respiratory System

J. Needleman, MD, Brooklyn, NY

2:05 Break

2:15 Mechanics of Breathing and Respiratory Failure

H.B. Panitch, MD, Philadelphia, PA

2:50 Tests of Respiratory Muscle Strength

T.G. Keens, MD, Los Angeles, CA

3:25 Chest Wall and Neuromuscular Disorders

G.J. Redding, MD, Seattle, WA

CLINICAL

POSTGRADUATE COURSE

CME Credits Available: 6

PG13 FORGOTTEN AND CONTROVERSIAL TOPICS IN PULMONARY HYPERTENSION

R Pre-registration and additional fees required. Continental breakfast and box lunch included. Attendance is limited.

Member: \$350

In-Training Member: \$200

Non-Member: \$425

In-Training Non-Member: \$300

L Registrants must bring a laptop to the course to view the course material.

Assemblies on Pulmonary Circulation; Clinical Problems; Respiratory Structure and Function

8:00 a.m. - 4:00 p.m.

SAN DIEGO CONVENTION CENTER

Room 8 (Upper Level)

Target Audience

General pulmonologists/cardiologists as well as physician extenders with an interest in PH and specialists in the field

Objectives

At the conclusion of this session, the participant will be able to:

- learn about the lesser known topics related to pulmonary hypertension including exercise pulmonary hypertension, PVOD/PCH, non-scleroderma connective tissue disease, sarcoidosis and renal failure;
- recognize the controversies regarding whether Sickle Cell Anemia should be classified as group 1 PAH and how should PH related to lung disease should be medically managed. We will also discuss gender and race inequality in pulmonary hypertension;
- learn about advanced RV assessment, PA compliance and RV:PA coupling, when to use parenteral prostacyclin, and use of DPG in the evaluation of mixed pre and post-capillary pulmonary hypertension.

There are multiple challenges and unanswered questions encountered by clinicians that evaluate, diagnose and treat patients with suspected or confirmed pulmonary vascular disease (mainly pulmonary hypertension). This course will provide a deep dive into the diagnosis and therapeutics of pulmonary hypertension supported by the literature and balanced with personal clinical experience. We have created this course specifically to address issues where uncertainty and/or controversy exists as well as highlight emerging areas that are just being incorporated into clinical practice. We seek to address the diagnostic and treatment dilemmas posed by these various clinical entities through literature review, sharing of expert opinion, and review of recent guidelines and their applicability to the multiple different nuanced presentations of pulmonary hypertension.

Chairing: M.G. Risbano, MD, MA, Pittsburgh, PA

G.A. Heresi, MD, Cleveland, OH

H.J. Ford, MD, Chapel Hill, NC

8:00 Exercise Pulmonary Hypertension: Are We There Yet?

M.G. Risbano, MD, MA, Pittsburgh, PA

8:30 Advanced RV Assessment, PA Compliance and RV:PA Coupling

M. Simon, MD, Pittsburgh, PA

9:00 The Other CTD-PAH: Beyond Scleroderma

S.H. Visovatti, MD, MA, Ann Arbor, MI

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

9:30 DPG? TPG? The Confusing World of Mixed Pre and Post-Capillary PH

I.M. Lang, MD, MA, Vienna, Austria

10:00 *Break***10:20 Normal Hemodynamics with CTED?**

G.A. Heresi, MD, Cleveland, OH

10:50 PVOD or PCH or PAH, You Be the Judge!

D. Montani, MD, PhD, Le Kremlin Bicetre, France

11:20 What Do We Really Do with PH in Lung Disease? A Pro-Con Debate

J.A. Barbera, MD, Barcelona, Spain

S.D. Nathan, MD, Falls Church, VA

12:00 *LUNCH***1:00 Sickle-Cell Disease Should Not Be Classified as Group 1 PAH: A Pro-Con Debate**

M. Humbert, MD, PhD, Bicetre, France

1:20 Sickle-Cell Disease Should Be Classified as Group 1 PAH: A Pro-Con Debate

E.S. Klings, MD, Boston, MA

1:40 Sarcoid PH

H.J. Ford, MD, Chapel Hill, NC

2:10 *Break***2:30 When to Use Parenteral Prostacyclins?**

A. Hemnes, MD, Nashville, TN

3:00 Renal Failure and PH

M.M. Chakinala, MD, St. Louis, MO

3:30 The Minority Report: Gender and Race Inequality in PH

V. De Jesus Perez, MD, Palo Alto, CA

This session and the International Conference are supported by educational grants from Actelion Pharmaceuticals US, Inc., Bayer US.

All CME sessions have been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) and are free of the control of commercial interests.

BASIC • TRANSLATIONAL**POSTGRADUATE COURSE**

CME Credits Available: 7.5

PG14 ARE YOUR MITOCHONDRIA HAPPY? A BEGINNERS GUIDE TO ASSESSING MITOCHONDRIAL FUNCTION AT THE BENCH

R Pre-registration and additional fees required. Continental breakfast and box lunch included. Attendance is limited.

Member: \$475 In-Training Member: \$300
Non-Member: \$550 In-Training Non-Member: \$400

L Registrants must bring a laptop to the course to view the course material.

Assemblies on Respiratory Cell and Molecular Biology; Allergy, Immunology and Inflammation; Pulmonary Infections and Tuberculosis; Respiratory Structure and Function

8:00 a.m. - 4:00 p.m.**SAN DIEGO CONVENTION CENTER****Room 6 E (Upper Level)**

Basic and clinical researchers interested in learning about cutting edge methods to measure mitochondrial metabolism in cells and tissues

Objectives

At the conclusion of this session, the participant will be able to:

- understand mitochondrial metabolism in cells in particularly cells relevant to lung biology and disease;
- learn about Seahorse technology as a way to assess mitochondrial respiration and function;
- understand the importance of assessing mitochondrial health and function in model systems and how to detect extracellular markers of mitochondrial dysfunction.

This session will discuss best practice methods to study mitochondrial function in cells and tissues. Mitochondrial function and glycolysis play critical roles in a variety of cellular processes, including cellular activation, proliferation, differentiation, cell death, and disease progression. Specific signatures of mitochondrial dysfunction that are associated with disease pathogenesis and/or progression are becoming increasingly important. In particular, the centrality of mitochondria in the pathological processes and clinical phenotypes associated with a range of lung diseases including chronic obstructive pulmonary disease, pulmonary fibrosis, acute lung injury, asthma and lung cancer is emerging. Understanding the molecular mechanisms regulating the mitochondrial processes of lung cells will help to better define phenotypes and clinical manifestations associated with respiratory disease and to identify potential diagnostic and therapeutic targets. In this session, attendees will discover how real-time, live cell analysis can provide a complete picture of mitochondrial phenotype and function in model systems and in human disease, with a particular focus on diseases area.

Chairing: M.N. Gillespie, PhD, Mobile, AL
S.M. Cloonan, PhD, New York, NY
A.L. Mora, MD, Pittsburgh, PA

8:00 Introduction and General Welcome

S.M. Cloonan, PhD, New York, NY

8:15 An Introduction to Lung Biology and Disease

S. Meiners, PhD, BSc, Munich, Germany

8:45 Acute and Adaptive Responses to Mitochondrial Oxidative Stress

G.S. Shadel, PhD, BSc, New Haven, CT

9:15 Signals from Mitochondria to the Cell in Health and Disease

P.T. Schumacker, PhD, Chicago, IL

9:45 *Break***10:00 Hallmarks of Pulmonary Hypertension: Mesenchymal and Inflammatory Cell Metabolic Reprogramming**

A. D'Alessandro, PhD, Aurora, CO

10:30 Metabolic Profiling of Endogenous and Circulating Metabolites

J.A. Howrylak, MD, Lancaster, PA

11:00 Mitochondrial Function and Immunometabolism

A. Ray, PhD, Pittsburgh, PA

11:30 Bioenergetic Health Profiling of Circulating Peripheral Blood Monocytes and Immune Cells

V. Darley-Usmar, PhD, Birmingham, AL

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- 12:00 Lunch Round Table Journal Club**
M.N. Gillespie, PhD, Mobile, AL
- 1:00 Station 1. Designing a Seahorse Experiment. Assessment of Bioenergetic Function in Primary Lung Epithelial Cells**
A.J. Janocha, BS, Cleveland, OH
- 1:40 Station 2. Hands-on Demonstration of Seahorse**
L. Torres, MD, New York, NY
- 2:20 Break**
- 2:40 Station 3. Assays to Assess Mitochondrial Integrity: How to Know If Your Mitochondria Are Sick?**
A.L. Mora, MD, Pittsburgh, PA
M. Bueno, PhD, Pittsburgh, PA
- 3:20 Station 4. Measuring the Mitochondrial Danger Signal Extracellular mtDNA in Human Plasma**
K. Nakahira, MD, PhD, New York, NY

This session and the International Conference are supported by an in-kind grant from Agilent Technologies.

All CME sessions have been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) and are free of the control of commercial interests.

CLINICAL

POSTGRADUATE COURSE

CME Credits Available: 7

PG15 PULMONARY FUNCTION AND CARDIOPULMONARY EXERCISE TESTING: CLINICAL UPDATES FOR 2018 AND CASE CONFERENCE

Pre-registration and additional fees required. Continental breakfast and box lunch included. Attendance is limited.

Member: \$350 In-Training Member: \$200
Non-Member: \$425 In-Training Non-Member: \$300

 Registrants must bring a laptop to the course to view the course material.

Assemblies on Respiratory Structure and Function; Clinical Problems

8:00 a.m. - 4:00 p.m. SAN DIEGO CONVENTION CENTER

Room 2 (Upper Level)

Target Audience

Current and future directors of PFT labs, attending physicians, respiratory therapists, trainees, fellows, and other interested health care providers

Objectives

At the conclusion of this session, the participant will be able to:

- gain further understanding of the principles and practice of pulmonary function and exercise physiology diagnostic tests;
- develop greater confidence interpreting pulmonary function and cardiopulmonary exercise test results in clinical practice;
- identify strategies to approach the interpretation of pulmonary function and cardiopulmonary exercise test results in complex patients.

This course will focus on updates in lung function testing from the new technical standards published this past year and will provide hands-on experience in small group settings with the interpretation and reporting of pulmonary function

and cardiopulmonary exercise test results. We will combine didactic lectures with case-based instruction, and we will offer participants the opportunity to bring their own complex cases for review by an expert team of clinicians and physiologists. We will use a team approach to facilitating the small group discussions including content experts and pulmonary function laboratory medical directors from around the world.

Chairing: C. Oropez, MD, MHS, Tucson, AZ
M.C. McCormack, MHS, MD, Baltimore, MD
D.A. Kaminsky, MD, Burlington, VT

- 8:00 Introduction**
C. Oropez, MD, MHS, Tucson, AZ
- 8:15 Just Breathe: Updates in Spirometry Reporting and Interpretation**
B.H. Culver, MD, Seattle, WA
- 8:45 Size Matters: Lung Volume Measurement, Reporting, and Interpretation**
B. Borg, BS, Prahran, Australia
- 9:15 Diffusion Minus the Confusion: Updates in DLCO Measurement, Reporting, and Interpretation**
C. Oropez, MD, MHS, Tucson, AZ
- 9:45 Kids Count: Special Considerations for Pediatric Pulmonary Function Testing**
D.J. Weiner, MD, Pittsburgh, PA
- 10:15 Break**
- 10:30 Airway Challenge Updates: What's New in Bronchoprovocation Testing**
T.S. Hallstrand, MD, MPH, Seattle, WA
- 11:15 Make the Case: Pulmonary Function Testing**
M.C. McCormack, MHS, MD, Baltimore, MD
- 12:15 LUNCH**
- 12:45 Ready, Set, Go: Patient Evaluation and Exercise Protocols for Cardiopulmonary Exercise Testing**
C.D. Mottram, RPFT, RRT, Rochester, MN
- 1:15 Data Overload in Cardiopulmonary Exercise Testing: Examining and Interpreting the Results**
C.G. Irvin, PhD, Burlington, VT
- 1:45 Case Conference: PFT and CPET in Clinical Practice**
D.A. Kaminsky, MD, Burlington, VT
- 2:30 Break**
- 2:45 Make the Case: Cardiopulmonary Exercise Testing**
M.C. McCormack, MHS, MD, Baltimore, MD

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ATS 2018
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International Conference
San Diego, CA
Saturday, May 19

CLINICAL

POSTGRADUATE COURSE

CME Credits Available: 7.5

PG1B CRITICAL CARE ULTRASOUND AND ECHOCARDIOGRAPHY II

This is part 2 of a two-part course which includes PG1A on Friday, May 18.

R Pre-registration and additional fees required. Continental breakfast and box lunch included. Attendance is limited. See PG1A for course fees.

 Registrants must bring a laptop to the course to view the course material.

Assembly on Critical Care

8:00 a.m. - 4:00 p.m.

SAN DIEGO CONVENTION CENTER

Room 9 (Upper Level)

Target Audience

Providers of critical care or emergency medicine

Objectives

At the conclusion of this session, the participant will be able to:

- apply ultrasound at bedside to assess critically ill patients;
- diagnose alternate etiologies of shock in the critically ill patient;
- apply ultrasound to guide common ICU procedures.

This is a two day postgraduate course that consists of didactic lectures and hands-on stations. The focus is primarily bedside transthoracic echocardiography, with some diagnostic ultrasound. The topics include basic and intermediate critical care echocardiography (including hemodynamic measures), assessment of fluid status, procedural guidance for vascular access and thoracentesis, venography. The hands-on stations will include both healthy models and simulators that can demonstrate abnormal pathology.

Chairing: M.J. Lanspa, MD, MSCR, Salt Lake City, UT
X. Monnet, MD, PhD, Le Kremlin-Bicetre, France

8:00 Vascular Ultrasound: DVT Evaluation
L. Rapoport, MD, Santa Clara, CA

8:20 Vascular Access
M.J. Lanspa, MD, MSCR, Salt Lake City, UT

8:45 Tamponade
G.B. Allen, MD, Burlington, VT

9:15 Using Ultrasound to Assess Intravascular Volume and Fluid Responsiveness
X. Monnet, MD, PhD, Le Kremlin-Bicetre, France

9:45 Ultrasound for Diuresis and Dialysis
E.L. Hirshberg, MD, Murray, UT

10:15 Break

10:30 Practical Skills Session: Hands-On Stations III

Volume Status

X. Monnet, MD, PhD, Le Kremlin-Bicetre, France
J. Kasal, MD, St. Louis, MO
E. Teo, MD, Atlanta, GA
S. Nikravan-Weber, MD, Stanford, CA
S. Cha, MD, Baltimore, MD

Tamponade Evolution

V.A. Dinh, MD, Loma Linda, CA
G. Allen, MD, Burlington, VT
A. Leibowitz, MD, Boston, MA
S. Price, MBBS, London, United Kingdom
T. Brakke, MD, Omaha, NE

Vascular Ultrasound

L. Rapoport, MD, Santa Clara, CA
Z. Shaman, MD, Cleveland, OH
L. Grecu, MD, Stony Brook, NY
P.K. Mohabir, MD, Stanford, CA
D. Pradhan, MD, New York, NY

12:00 Lunch and Clinical Cases II
E. Teo, MD, Atlanta, GA

12:45 Abdominal Ultrasonography
V.A. Dinh, MD, Loma Linda, CA

1:15 Goal Directed Management of Shock Using Echocardiography
J. Kasal, MD, St. Louis, MO

1:45 Incorporating Echocardiography into CPR
S. Cha, MD, Baltimore, MD

2:15 Break

2:30 Practical Skills Session: Hands-On Session IV

Echo in Shock and CPR

S. Cha, MD, Baltimore, MD
D. Pradhan, MD, New York, NY
T. Brakke, MD, Omaha, NE
S. Price, MBBS, London, United Kingdom
L. Grecu, MD, Stony Brook, NY

Abdominal Ultrasound

L. Rapoport, MD, Santa Clara, CA
Z. Shaman, MD, Cleveland, OH
V.A. Dinh, MD, Loma Linda, CA
G. Allen, MD, Burlington, VT
P.K. Mohabir, MD, Stanford, CA

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Ask the Expert

A. Leibowitz, MD, Boston, MA
 J. Kasal, MD, St. Louis, MO
 X. Monnet, MD, PhD, Le Kremlin-Bicetre, France
 S. Nikravan-Weber, MD, Stanford, CA
 E. Teo, MD, Atlanta, GA

This session and the International Conference are supported by in-kind grants from Cook Medical, FUJIFILM Sonosite, Inc, Teleflex Medical, Inc.

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CLINICAL**POSTGRADUATE COURSE**

CME Credits Available: 7

PG16 BRONCH DAY: A COMPREHENSIVE, HANDS-ON GUIDE TO BASIC BRONCHOSCOPY AND EBUS

R Pre-registration and additional fees required. Continental breakfast and box lunch included. Attendance is limited.

Member: \$475 In-Training Member: \$300
 Non-Member: \$550 In-Training Non-Member: \$400

 Registrants must bring a laptop to the course to view the course material.

Assemblies on Clinical Problems; Critical Care; Pediatrics; Thoracic Oncology

8:00 a.m. - 4:00 p.m. SAN DIEGO CONVENTION CENTER
Room 1 B (Upper Level)

Target Audience

Adult and pediatric pulmonologists and intensivists, thoracic surgeons, physicians-in-training, allied health professionals, and anesthesiologists interested in improving their skills in diagnostic and therapeutic flexible bronchoscopy and EBUS

Objectives

At the conclusion of this session, the participant will be able to:

- diagnose and manage adults and children with benign and malignant respiratory diseases;
- improve knowledge of basic flexible bronchoscopy and strengthen procedural skills;
- understand the indications for linear and radial endobronchial ultrasound and the skills necessary to perform these procedures.

This course is designed to provide a comprehensive introduction to diagnostic and therapeutic flexible bronchoscopy. Participants will acquire the knowledge and skills to improve their proficiency in basic bronchoscopic techniques and be introduced to more advanced diagnostic bronchoscopy, including linear and radial endobronchial ultrasound and navigational bronchoscopy. A series of didactic lectures will be followed by intensive, hands-on training, through the use of physical and virtual reality simulators which will help participants strengthen their procedural skills. This course will be of particular interest to providers seeking to refine their flexible bronchoscopy skills and review the data behind the various bronchoscopic techniques. An audience response system will be used during lectures.

Chairing: C. Channick, MD, Boston, MA
 S.S. Oh, DO, Los Angeles, CA

8:00 Introduction

C. Channick, MD, Boston, MA

8:05 Optimizing Basic Bronchoscopy Skills: Bronchoalveolar Lavage, Endobronchial Brushings, and Endobronchial Biopsies

E.E. Folch, MD, MS, Boston, MA

8:30 Improving Your Technique and Yield for Transbronchial and Needle Aspiration Biopsies

S.S. Oh, DO, Los Angeles, CA

8:55 Performing Flexible Bronchoscopy in High-Risk Patients: How to Maximize Outcomes

A. Majid, MD, Boston, MA

9:20 The Role of Flexible Bronchoscopy in the Management of Hemoptysis

C.R. Lamb, MD, Burlington, MA

9:45 Break**10:00 The Fundamentals of Linear EBUS: Overview of the Basic Technique and the Data**

C. Channick, MD, Boston, MA

10:25 Pediatric Flexible Bronchoscopy for the Adult and Pediatric Bronchoscopist

C. Spencer, MD, New York, NY

10:50 Management of Airway Foreign Bodies

A.C. Mehta, MBBS, Cleveland, OH

11:15 Introduction to Navigational Bronchoscopy: Review of the Evidence

S. Rafeq, MD, New York, NY

11:40 LUNCH**12:30 Practical Skills Session: Bronchoscopy with Biopsy and Needle Aspiration of Endobronchial Lesions**

E.E. Folch, MD, MS, Boston, MA

C. Spencer, MD, New York, NY

1:00 Practical Skills Session: Bronchoscopic Management of Hemoptysis

A. Majid, MD, Boston, MA

J. Chung, MD, San Francisco, CA

1:30 Practical Skills Session: Management of the Difficult Airway

S.S. Oh, DO, Los Angeles, CA

A. Vicencio, MD, New York, NY

2:00 Practical Skills Session: Techniques for Foreign Body Removal Using Flexible Bronchoscopy

A.C. Mehta, MBBS, Cleveland, OH

C. Channick, MD, Boston, MA

B. Husta, MD, New York, NY

2:30 Practical Skills Session: Navigational Bronchoscopy

C.R. Lamb, MD, Burlington, MA

J. Cardenas-Garcia, MD, Hershey, PA

3:00 Practical Skills Station: Endobronchial Ultrasound Anatomy

A.K. Mahajan, MD, Vienna, VA

C. Argento, MD, Chicago, IL

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

3:30 Practical Skills Session: Endobronchial Ultrasound-Guided Transbronchial Needle Aspiration

S. Shojaei, MD, CHDA, Richmond, VA
S. Rafeq, MD, New York, NY


This session and the International Conference are supported by in-kind grants from Boston Scientific Corporation, Edward Lifesciences LLC, ERBE USA, Inc, Olympus Corporation of the Americas, Teleflex Medical, Inc.

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CLINICAL • TRANSLATIONAL**POSTGRADUATE COURSE**

CME Credits Available: 6

PG17 STUDYING PHARMACOGENOMICS IN LUNG DISEASE AND CRITICAL ILLNESS

 **Pre-registration and additional fees required. Continental breakfast and box lunch included. Attendance is limited.**

Member: \$350 In-Training Member: \$200
Non-Member: \$425 In-Training Non-Member: \$300

 **Registrants must bring a laptop to the course to view the course material.**

Assemblies on Allergy, Immunology and Inflammation; Clinical Problems; Respiratory Cell and Molecular Biology; Genetics and Genomics Section

8:00 a.m. - 4:00 p.m. SAN DIEGO CONVENTION CENTER

Room 7 B (Upper Level)

Target Audience

Clinical and translational researchers interested in pharmacogenomic approaches to study the genetic basis for drug efficacy and adverse events with the ultimate goal of developing more effective and less toxic therapies for patients

Objectives

At the conclusion of this session, the participant will be able to:

- gain working knowledge of pharmacogenomic study design and analysis;
- understand and gain working knowledge of some key successes and remaining challenges in application of pharmacogenomic approaches to the study of lung diseases;
- gain understanding of how pharmacogenomics might impact future care of patients with lung disease.

Pharmacogenomics analyzes how the genetic makeup of an individual affects his/her responses to drugs. It can provide new insights on pathophysiology, focus the use of specific therapies to those who will benefit, and divert use in those in whom risk of harm is too great. There are an increasing number of successful applications of pharmacogenomics in lung diseases. This course will provide an overview of the key aspects in design and analyses of pharmacogenomic studies, some examples of its successful use, and outline some ongoing efforts to implement pharmacogenomic knowledge in clinical medicine.

Chairing: M.M. Wurfel, MD, PhD, Seattle, WA
G.H. Koppelman, MD, PhD, Groningen, Netherlands
D.A. Meyers, PhD, Tucson, AZ

8:00 Introduction

M.M. Wurfel, MD, PhD, Seattle, WA

8:15 Why Study Pharmacogenomics in Lung Diseases?

S.T. Weiss, MD, MS, Boston, MA

8:45 Designing Pharmacogenomic Studies: Phenotypic and Pharmacologic Issues

V.E. Ortega, MD, PhD, Winston-Salem, NC

9:15 Sequence Variation in Pharmacogenomics

D. Nickerson, PhD, Seattle, WA

9:45 Break**10:00 Statistical Approaches in Pharmacogenomics**

D.A. Meyers, PhD, Tucson, AZ

10:30 Studying Pharmacogenomics in Diverse Populations

E.G. Burchard, MD, MPH, Danville, CA

11:00 Using the EHR for Pharmacogenomics

B.E. Himes, PhD, Philadelphia, PA

11:30 Pharmacogenomics in Cystic Fibrosis Care

E.F. McKone, MD, Dublin, Ireland

12:00 LUNCH**12:55 Pharmacogenomics in COPD**

C.P. Hersh, MD, MPH, Boston, MA

1:25 Pharmacogenomics in Asthma

G.H. Koppelman, MD, PhD, Groningen, Netherlands

1:55 Pharmacogenomic Targets in Critical Illness

K.R. Walley, MD, Vancouver, Canada

2:25 Break**2:40 Pharmacogenomics: An Industry Perspective**

S. Ghosh, MD, PhD, King of Prussia, PA

3:10 Clinical Pharmacogenetics Implementation Consortium

T.E. Klein, PhD, Stanford, CA


3:40 Summary

M.M. Wurfel, MD, PhD, Seattle, WA

BEHAVIORAL • TRANSLATIONAL**POSTGRADUATE COURSE**

CME Credits Available: 7

PG18 THE NUTS AND BOLTS OF QUALITATIVE RESEARCH: HOW TO DO IT WELL IN RESEARCH, MEDICAL EDUCATION, AND QUALITY IMPROVEMENT

 **Pre-registration and additional fees required. Continental breakfast and box lunch included. Attendance is limited.**

Member: \$350 In-Training Member: \$200
Non-Member: \$425 In-Training Non-Member: \$300

 **Registrants must bring a laptop to the course to view the course material.**

Assemblies on Pulmonary Infections and Tuberculosis; Allergy, Immunology and Inflammation

8:00 a.m. - 4:00 p.m. SAN DIEGO CONVENTION CENTER

Room 1 A (Upper Level)

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

Target Audience

Individuals who currently use or would like to utilize qualitative methods and analysis in their research, as well as individuals who read the literature and would like to better understand qualitative research

Objectives

At the conclusion of this session, the participant will be able to:

- describe the theory and methods for qualitative research;
- develop a qualitative research project and analyze qualitative data;
- evaluate the rigor of published qualitative research studies.

Qualitative research is a broad approach utilized to gain in-depth understanding of phenomena, answering questions of how and why. This practical skills development course will combine didactics with workshops to provide a toolkit for clinicians, educators, and researchers to apply and evaluate rigorous qualitative methods. Attendees will be introduced to qualitative research and learn about each step from the research question to dissemination of results; in addition a variety of examples will be presented. Participants will be divided in small groups by topic area, research, medical education, and quality improvement with facilitators who have expertise in applying qualitative research in each area.

Chairing: A. Volerman, MD, Chicago, IL
M. Eakin, PhD, Baltimore, MD

8:00 Introduction and Applications of Qualitative Research

M. Eakin, PhD, Baltimore, MD

8:10 Building Blocks: Qualitative Research Principles

C.G. Slatore, MD, Portland, OR

8:30 The Design Process: Methods and Sample in Qualitative Projects

A. Volerman, MD, Chicago, IL

9:00 Workshop: Developing Your Own Qualitative Research Study

A. Volerman, MD, Chicago, IL
M. Eakin, PhD, Baltimore, MD
C.G. Slatore, MD, Portland, OR
J. Foster, BSc(Hons), PhD, Sydney, Australia
M.R. Patel, PhD, MPH, Ann Arbor, MI
L. Hinkle, MD, Indianapolis, IN
J. Tate, PhD, RN, Columbus, OH
D. Sullivan, MD, MA, Portland, OR
K.A. Riekert, PhD, Baltimore, MD

9:40 Discussion

M. Eakin, PhD, Baltimore, MD

9:50 Break**10:00 Time to Ask: The Topic Guide**

M.R. Patel, PhD, MPH, Ann Arbor, MI

10:30 Workshop: Developing a Topic Guide

A. Volerman, MD, Chicago, IL
M. Eakin, PhD, Baltimore, MD
C.G. Slatore, MD, Portland, OR
M.R. Patel, PhD, MPH, Ann Arbor, MI
L. Hinkle, MD, Indianapolis, IN
J. Tate, PhD, RN, Columbus, OH
D. Sullivan, MD, MA, Portland, OR
K.A. Riekert, PhD, Baltimore, MD

11:10 Talk to Me: Skills for Qualitative Data Collection

J. Tate, PhD, RN, Columbus, OH

11:40 LUNCH**12:20 Building the Story: Analyzing Qualitative Data**

L. Hinkle, MD, Indianapolis, IN

12:50 Workshop: Qualitative Data Analysis in Action

A. Volerman, MD, Chicago, IL
M. Eakin, PhD, Baltimore, MD
C.G. Slatore, MD, Portland, OR
M.R. Patel, PhD, MPH, Ann Arbor, MI
L. Hinkle, MD, Indianapolis, IN
J. Tate, PhD, RN, Columbus, OH
D. Sullivan, MD, MA, Portland, OR
K. Riekert, PhD, Baltimore, MD

1:30 Putting the Quality into Qualitative Data

J. Foster, BSc(Hons), PhD, Sydney, Australia

2:00 Discussion

A. Volerman, MD, Chicago, IL

2:10 Break**2:20 Finding the Quality: Evaluating Qualitative Research**

K.A. Riekert, PhD, Baltimore, MD

2:40 Workshop: Reviewing Qualitative Research Studies

A. Volerman, MD, Chicago, IL
M. Eakin, PhD, Baltimore, MD
C.G. Slatore, MD, Portland, OR
M.R. Patel, PhD, MPH, Ann Arbor, MI
L. Hinkle, MD, Indianapolis, IN
J. Tate, PhD, RN, Columbus, OH
D. Sullivan, MD, MA, Portland, OR
K. Riekert, PhD, Baltimore, MD

3:10 Mixing Qualitative and Quantitative Research

D. Sullivan, MD, MA, Portland, OR


3:30 Bringing Qualitative Research Home

A. Volerman, MD, Chicago, IL

BASIC • BEHAVIORAL • CLINICAL • TRANSLATIONAL**POSTGRADUATE COURSE**

CME Credits Available: 7

PG19 INTERSTITIAL LUNG DISEASE: UPDATE AND EVOLVING TRENDS IN DIAGNOSIS AND MANAGEMENT

 Pre-registration and additional fees required. Continental breakfast and box lunch included. Attendance is limited.

Member: \$350

In-Training Member: \$200

Non-Member: \$425

In-Training Non-Member: \$300



Registrants must bring a laptop to the course to view the course material.

Assemblies on Clinical Problems; Allergy, Immunology and Inflammation; Behavioral Science and Health Services Research; Environmental, Occupational and Population Health; Nursing; Pulmonary Rehabilitation

8:00 a.m. - 4:00 p.m.

SAN DIEGO CONVENTION CENTER

Room 6 F (Upper Level)

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

Target Audience

Clinicians, nurses, other allied health staff, researchers, investigators in basic and clinic science pertinent to interstitial lung disease, and sponsors for research

Objectives

At the conclusion of this session, the participant will be able to:

- accurately diagnose patients with specific forms of ILD;
- gain improved understanding in current concepts of pathogenesis and genetic aspects of pulmonary fibrosis as well as knowledge of new therapeutic strategies to treat patients with ILD/pulmonary fibrosis;
- gain better insight into the endpoints used in IPF clinical trials assessment of treatment response and the significance of exploratory, subgroup, and post hoc analyses.

This course provides an update on evolving trends in diagnosis, clinical management, and research investigation of the heterogeneous group of interstitial lung diseases (ILDs) of unknown etiology, in the setting of connective tissue diseases and granulomatous ILD (hypersensitivity pneumonitis and sarcoidosis) with an emphasis on idiopathic pulmonary fibrosis (IPF). This includes new data for the diagnosis of IPF since the 2011 guidelines and perspectives for the diagnosis and management of hypersensitivity pneumonitis. Genetic factors, precision medicine for diagnosis and treatment as well as newer concepts in the pathogenesis of IPF and novel treatment strategies to modulate pulmonary fibrosis will be discussed. Attendees will be updated on evolving enhanced knowledge in the clinical management of patients with ILD. The importance of making an accurate diagnosis will be demonstrated by live interactions with a panel of experts from multiple disciplines confronted with 3-4 cases unknown to them.

Chairing: G. Raghu, MD, Seattle, WA
L. Richeldi, MD, PhD, Rome, Italy
B. Collins, MD, Seattle, WA

8:00 Introduction

G. Raghu, MD, Seattle, WA

8:05 Interstitial Lung Disease: An Overview of Approach to Diagnosis with an Emphasis of Diagnosis of Idiopathic Pulmonary Fibrosis

G. Raghu, MD, Seattle, WA

8:30 Imaging in ILD: Clues to Diagnosis

M. Remy-Jardin, MD, Lille, France

8:55 Histopathology Features of ILD, Does Tissue Sampling Matter?: Role of Transbronchial, Cryo and Thoracoscopic Lung Biopsies

J.L. Myers, MD, Ann Arbor, MI

9:20 Genetics of Pulmonary Fibrosis: Time for Genetic Screening and Intervention?

M. Armanios, MD, Baltimore, MD

9:45 Pulmonary Fibrosis: Concepts in Pathogenesis from Bench to Bedside

M.R.J. Kolb, MD, PhD, Hamilton, Canada

10:10 Break**10:20 Connective Tissue Disease for the Pulmonologist Evaluating Interstitial Lung Disease: A Rheumatologist's View**

R. Silver, MD, Charleston, SC

10:45 Hypersensitivity Pneumonitis: What and Where Is the Antigen; Strategies for Diagnosis and Treatment?

M. Vasakova, MD, Thomayerova, Czech Republic

11:10 Case Discussion with Panel of Experts (Multidisciplinary Discussion)

B. Collins, MD, Seattle, WA

12:00 LUNCH**12:30 Sarcoidosis: Treatment Beyond Prednisone and Methotrexate**

D.A. Culver, DO, Cleveland, OH

12:55 Circulating Biomarkers for Diagnosis and Management of ILD/Pulmonary Fibrosis/IPF: Still Research or Prime Time for Routine Clinical Care

A. Prasse, MD, Hannover, Germany

1:20 Pulmonary Hypertension Associated with Pulmonary Fibrosis

M. Humbert, MD, PhD, Bicetre, France

1:45 Smoking Related ILDs Other than IPF

R. Raj, MD, Stanford, CA

2:10 Break**2:20 Reducing Cough and Other Symptoms and Improving Quality of Life for Patients with IPF: Therapeutic Needs and Palliative Care**

M. Wijsenbeek, MD, PhD, Rotterdam, Netherlands

2:45 Clinical Trial Endpoints for Assessing Treatment Response for Patient with IPF: What Is Meaningful and To Whom?

K. Anstrom, PhD, MD, Durham, NC

3:10 Precision Medicine and Pharmacogenomics for Treatment of IPF: Ready or Not for Prime Time

F.J. Martinez, MD, MS, New York, NY

3:35 Treatment of IPF: Current Landscape of Treatment and What Is in the Horizon -Ongoing/Upcoming Clinical Trials

L. Richeldi, MD, PhD, Rome, Italy

CLINICAL**POSTGRADUATE COURSE**

CME Credits Available: 6.75

PG20 THORACIC IMAGING FOR THE PULMONOLOGIST AND CRITICAL CARE PHYSICIAN: A CASE-BASED REVIEW

R Pre-registration and additional fees required. Continental breakfast and box lunch included. Attendance is limited.

Member: \$350

In-Training Member: \$200

Non-Member: \$425

In-Training Non-Member: \$300



Registrants must bring a laptop to the course to view the course material.

Assemblies on Clinical Problems; Critical Care; Pulmonary Infections and Tuberculosis; Pulmonary Circulation; Thoracic Oncology

8:00 a.m. - 4:00 p.m.

SAN DIEGO CONVENTION CENTER

Room 6 E (Upper Level)

Target Audience

Pulmonologists, critical care physicians, thoracic surgeons, midlevel providers, respiratory therapists, residents, fellows, and students

Objectives

At the conclusion of this session, the participant will be able to:

- formulate a differential diagnosis of respiratory diseases based on diagnostic imaging findings;
- improve strategies for the evaluation of solitary pulmonary nodules and for staging lung cancer;
- state the value of a multidisciplinary approach to diagnosis and management of patients with diffuse lung disease.

This course will review major aspects of thoracic imaging with presentations targeted toward the pulmonologist and critical care physician using a case-based approach and audience participation. Subspecialized thoracic radiologists will give case-based presentations focusing on the practical aspects of chest imaging. Presentations will be image rich and focus on key imaging findings, differential diagnoses, and potential pitfalls. Topics will cover a broad range of chest disease and will be relevant to trainees, generalists, and specialists, alike. At the conclusion of the course, learners will have increased knowledge about thoracic imaging and be able to apply this knowledge to their respective practices.

Chairing: J.P. Kanne, MD, Madison, WI
C.C. Wu, MD, Houston, TX

- 8:00 Imaging Diseases of the Small Airways**
T. Henry, MD, San Francisco, CA
- 8:30 Imaging Diseases of the Large Airways**
S. Rossi, MD, Buenos Aires, Argentina
- 9:00 Critical Care**
M.D. Martin, MD, Madison, WI
- 9:30 Break**
- 9:45 Imaging of Pleural Diseases**
C.C. Wu, MD, Houston, TX
- 10:15 Imaging of the Solitary Pulmonary Nodule**
J.H. Chung, MD, Chicago, IL
- 10:45 Lung Cancer Imaging**
A. Leung, MD, Stanford, CA
- 11:15 LUNCH**
- 12:15 Imaging of Pulmonary Infections**
L.H. Ketai, MD, Albuquerque, NM
- 12:45 HRCT of Diffuse Lung Diseases**
D.A. Lynch, MBBCh, Denver, CO
- 1:15 Break**
- 1:30 Multidisciplinary Approach to Diffuse Lung Diseases**
K.K. Brown, MD, Denver, CO
S.D. Groshong, MD, PhD, Denver, CO
D.A. Lynch, MBBCh, Denver, CO
- 3:30 Imaging of Pulmonary Vascular Diseases**
S.J. Kligerman, MD, San Diego, CA

BASIC • TRANSLATIONAL**POSTGRADUATE COURSE**

CME Credits Available: 6.5

PG21 A HANDS-ON INTRODUCTION TO STUDYING THE LUNG MICROBIOME

R Pre-registration and additional fees required. Continental breakfast and box lunch included. Attendance is limited.

Member: \$350

In-Training Member: \$200

Non-Member: \$425

In-Training Non-Member: \$300

 Registrants must bring a laptop to the course to view the course material.

Assemblies on Pulmonary Infections and Tuberculosis; Allergy, Immunology and Inflammation

8:00 a.m. - 4:00 p.m.

SAN DIEGO CONVENTION CENTER

Room 2 (Upper Level)

Target Audience

Research scientists interested in designing, performing, and understanding the analysis of lung and airway microbiota using sequencing-based techniques

Objectives

At the conclusion of this session, the participant will be able to:

- research design and analytical approaches needed to conduct culture-independent assessment of microbial communities in respiratory specimens;
- apply bioinformatic tools to analyze sequencing data;
- illustrate the use of a combination of basic science as well as multi-dimensional computational approaches for investigating microbial function and mechanisms of disease.

This course will introduce methodologies used to characterize and understand lung and airway microbiota using culture-independent methods. During the proposed sessions, participants will learn how to design, execute, analyze and interpret a lung microbiome study. Hands-on experiences will include the use of Quantitative Insights Into Microbial Ecology (QIIME), a bioinformatic pipeline used to process raw sequencing data and R (Phyloseq and Vegan), statistical software packages used to analyze and graphically display microbiome data. 16S rRNA gene sequencing data will be provided to attendees to perform analyses.

Chairing: L.N. Segal, MD, New York, NY
R.P. Dickson, MD, Ann Arbor, MI
A. Pragman, MD, PhD, Minneapolis, MN

8:00 An Introduction to Thinking About the Microbiome
R.P. Dickson, MD, Ann Arbor, MI

8:50 Contaminomics
M.J. Cox, BSc(Hons), PhD, London, United Kingdom

9:20 The Role of Culture in a Culture-Independent Age
M.G. Surette, PhD, Hamilton, Canada

9:50 Break


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- 10:05 Breakout Session: QIIME**
J. Clemente, PhD, New York, NY
- 11:35 LUNCH**
- 12:35 Real-Time Metagenomics**
J. Erb-Downward, PhD, Ann Arbor, MI
- 12:55 Breakout Session: R Phyloseq/Vegan**
M. Badri, PhD, New York, NY
- 2:25 Break**
- 2:40 Metabolomics**
S.K. Cribbs, MD, MSCR, Decatur, GA
- 3:00 Longitudinal Microbiome Studies**
D. Bogaert, MD, PhD, Edinburgh, United Kingdom
- 3:20 Multiomics**
M. Badri, PhD, New York, NY
- 3:40 Questions and Answers with Panel Discussion**
L.N. Segal, MD, New York, NY

BASIC • CLINICAL • TRANSLATIONAL**POSTGRADUATE COURSE**

CME Credits Available: 6.5

PG22 BRONCHIECTASIS AND ADULT CYSTIC FIBROSIS: WHERE DO WE STAND TODAY?

 Pre-registration and additional fees required. Continental breakfast and box lunch included. Attendance is limited.

Member: \$350	In-Training Member: \$200
Non-Member: \$425	In-Training Non-Member: \$300

 Registrants must bring a laptop to the course to view the course material.

Assemblies on Pulmonary Infections and Tuberculosis; Clinical Problems

8:00 a.m. - 4:00 p.m. SAN DIEGO CONVENTION CENTER
Room 11 A (Upper Level)

Target Audience

Pulmonary and critical care physicians, pulmonary fellows, internal medicine residents, medical students, pulmonary nurse practitioners, physician assistants, internal medicine providers

Objectives

At the conclusion of this session, the participant will be able to:

- learn new findings and apply the latest in epidemiologic trends, diagnostic modalities, treatment and prevention of infections in patients with bronchiectasis, cystic fibrosis and NTM, including results from recent clinical trials;
- learn and apply the latest in research in bronchiectasis, including results from the Bronchiectasis Research Registry, the EMBARC registry and the Cystic Fibrosis Foundation;
- integrate new treatment options and discuss the potential for NTM antibiotic toxicity through an interactive case-based panel discussion.

The course will provide an overview and update on the latest in bronchiectasis and cystic fibrosis. The course will cover recent epidemiologic trends, radiology, microbiology, diagnosis and management in bronchiectasis and cystic fibrosis. Also, the course will cover the latest in research (including results from the national Bronchiectasis Research Registry, European EMBARC registry, CF registry, genetic/epidemiologic research and recent clinical trials on inhaled and antibiotic therapy in bronchiectasis and CF). We will hold interactive case-based panel discussions and discuss common and difficult real-world patient scenarios.

Chairing: A. Basavaraj, MD, New York, NY
S.H. Kasperbauer, MD, Denver, CO
K.L. Winthrop, MD, MPH, Portland, OR

- 8:00 Introduction**
A. Basavaraj, MD, New York, NY
- 8:05 Epidemiology in Bronchiectasis and Cystic Fibrosis**
R. Thomson, MBBS, PhD, Greenslopes, Australia
- 8:35 Genetics in Bronchiectasis and Cystic Fibrosis**
K.N. Olivier, MD, MPH, Bethesda, MD
- 9:05 Diagnostic Evaluation in Bronchiectasis**
M.L. Metersky, MD, Farmington, CT
- 9:35 Antibiotic Management in the NTM Patient**
D.E. Griffith, MD, Tyler, TX
- 10:05 Break**
- 10:20 New Pharmacologic Strategies in Cystic Fibrosis**
P.A. Flume, MD, Charleston, SC
- 10:50 Airway Clearance Techniques in Bronchiectasis and Cystic Fibrosis**
A.E. O'Donnell, MD, Washington, DC
- 11:20 Infection Prevention and Chronic Suppression in Bronchiectasis and Cystic Fibrosis**
S.T. Lommatzsch, MD, Denver, CO
- 11:50 LUNCH**
- 12:45 Case-Based Panel Discussion: Bronchiectasis and NTM Cases in the Community**
K.M. O'Neil, MD, Wilmington, NC
- 1:30 A First Look at the United States Bronchiectasis Research Registry**
T.R. Aksamit, MD, Rochester, MN
- 2:00 Update on the EMBARC European Registry**
J.D. Chalmers, MD, PhD, Dundee, United Kingdom
- 2:30 Break**
- 2:45 What's New in NTM Treatment?**
C.L. Daley, MD, Denver, CO
- 3:15 Cased-Based Panel Discussion: Difficult to Manage NTM Cases**
D.J. Addrizzo-Harris, MD, New York, NY

This session and the International Conference are supported by educational grants from Insmad Incorporated, Vertex Pharmaceuticals Inc.


All CME sessions have been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) and are free of the control of commercial interests.

CLINICAL • TRANSLATIONAL


POSTGRADUATE COURSE

CME Credits Available: 6.5

PG23 ADVANCES IN THE DIAGNOSIS AND MANAGEMENT OF PEDIATRIC SEVERE ASTHMA

 **Pre-registration and additional fees required. Continental breakfast and box lunch included. Attendance is limited.**

Member: \$350 In-Training Member: \$200
Non-Member: \$425 In-Training Non-Member: \$300

 **Registrants must bring a laptop to the course to view the course material.**

Assembly on Pediatrics

8:00 a.m. - 4:00 p.m. SAN DIEGO CONVENTION CENTER
Room 3 (Upper Level)

Target Audience

Providers caring for children with severe asthma

Objectives

At the conclusion of this session, the participant will be able to:

- perform a stepwise evaluation for pediatric patients referred for severe asthma;
- list biomarkers for asthma and describe their role in the asthma inflammatory pathways;
- choose biologic or non-traditional therapies for patients with severe asthma who have not responded to standard therapies.

This course provides state of the art information on the evaluation and management of severe asthma in children. Speakers will review best practices for evaluation including medication adherence monitoring and support. Discussions will range from the clinically relevant biologic mechanisms of asthma to addressing whether phenotyping and endotyping can improve outcomes. We will also discuss strategies for developing partnerships with other health care disciplines and community resources in order to achieve a patient-centered approach. The course includes small group review of difficult cases and discussion of unmet needs. Speakers will also demonstrate appropriate use of targeted therapies, and describe best practices for monitoring for adverse effects of therapies.

Chairing: J. Gaffin, MD, Boston, MA
L.B. Bacharier, MD, St. Louis, MO
K.R. Ross, MD, MS, Cleveland, OH

8:00 Welcome and Introduction

J. Gaffin, MD, Boston, MA

8:05 Roadmap to the Practical Evaluation of Pediatric Severe Asthma

J. Gaffin, MD, Boston, MA

8:25 One Size Does Not Fit All: Diagnostic Tools and Frameworks for Characterizing the Pediatric Severe Asthma Patient

K.R. Ross, MD, MS, Cleveland, OH

8:50 Therapeutics: Which Biologic Is Right for My Patient?

L.B. Bacharier, MD, St. Louis, MO

9:15 Therapeutics: Non-Biologic Therapies and Future Options

S. Saglani, BSc(Hons), MD, MBChB, London, United Kingdom

9:40 Harnessing the 'Difficult to Control' Asthmatic: Psychological Assessments and Interventions to Improve Self-Management
P. Marik, PsyD, Milwaukee, WI

10:00 Break

10:20 Harnessing the 'Difficult to Control' Asthmatic: "Trust, but Verify" -Strategies for Adherence Monitoring
C.L. Yang, MD, MSc, Vancouver, Canada

10:45 Asthma Plus: Addressing Comorbidities - Sleep Apnea, Gastroesophageal Reflux, Rhinosinusitis, and Obesity
E. Forno, MD, MPH, Pittsburgh, PA

11:10 Case Based Small Group Discussions
J. Gaffin, MD, Boston, MA

12:00 LUNCH

12:50 Stay Out of the Red (Zone): Outpatient Management of Exacerbations
D.J. Jackson, MD, Madison, WI

1:15 Monitoring Side Effects: Steroids, Biologics, LABAs
M. Federico, MD, Aurora, CO

1:35 Outside the Clinic: Home Visits and Community Partnerships
S. Sommer, MSN, WHNP-BC, AE-C, Boston, MA

1:55 Outside the Clinic: Partnering with Schools and School Nurses
L.B. Gerald, PhD, MSPH, Tucson, AZ

2:15 Break

2:35 Multidisciplinary Severe Asthma Programs: What Are They and Are They Effective?
T.W. Guilbert, MD, Cincinnati, OH

2:55 Helping Patients Navigate: Young Adult Transition
W.M. Gibson-Scipio, APRN-BC, PhD, Detroit, MI

3:10 Helping Patients Navigate: Advocacy
T. Winders, MBA, Vienna, VA

3:25 Panel Discussion
K.R. Ross, MD, MS, Cleveland, OH


*This session and the International Conference are supported by educational grants from **GlaxoSmithKline, Sanofi Genzyme and Regeneron Pharmaceuticals**. All CME sessions have been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) and are free of the control of commercial interests.*

CLINICAL

POSTGRADUATE COURSE

CME Credits Available: 7

PG24 AERODIGESTIVE APPROACH TO COMPLEX CHRONIC PEDIATRIC DISEASES

 **Pre-registration and additional fees required. Continental breakfast and box lunch included. Attendance is limited.**

Member: \$350 In-Training Member: \$200
Non-Member: \$425 In-Training Non-Member: \$300

 **Registrants must bring a laptop to the course to view the course material.**

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

Assemblies on Pediatrics; Nursing**8:00 a.m. - 4:00 p.m.****SAN DIEGO CONVENTION CENTER****Room 6 D (Upper Level)****Target Audience**

Pediatric pulmonologists, gastroenterologists, surgeons, fellows, nurses, speech therapists, and health care practitioners providing coordinated care to children with chronic multi-system disease

Objectives

At the conclusion of this session, the participant will be able to:

- integrate a multi-disciplinary approach to improve the diagnostic accuracy and outcome for children with aerodigestive disorders;
- apply and synthesize diagnostic results into a effective management plan for children with complex chronic pulmonary aspiration;
- gain new strategies and methods for pediatric pulmonologists to diagnose and manage complex but common airway diseases.

This course will aid pediatric pulmonologists and care coordinators in the development of multidisciplinary programs for children with complex chronic conditions affecting lung health. The integrated team approach to coordinated evaluation and management of children with complex diseases affecting airways and breathing, feeding and swallowing, and development, will be presented in a multi-disciplinary and interactive format.

Chairing: R.P. Boesch, DO, MS, Rochester, MN
M. Kazachkov, MD, New York, NY

8:00 Aerodigestive Care Update. What Have We Achieved in the Past Year?

R.P. Boesch, DO, MS, Rochester, MN

8:15 Aerodigestive Best of the Year

R.R. Deterding, MD, Aurora, CO

8:45 Imaging the Aerodigestive Patient

R.J. Fleck, MD, Cincinnati, OH

9:15 Is Chronic Cough an Aerodigestive Condition? - Pro

A.B. Chang, PhD, Brisbane, Australia

9:30 Is Chronic Cough an Aerodigestive Condition? - Con

M. Kazachkov, MD, New York, NY

9:45 Is Chronic Cough an Aerodigestive Condition? - Rebuttals

A.B. Chang, PhD, Brisbane, Australia

10:05 Break**10:15 Aspiration from the Otolaryngologist's Perspective**

K. Balakrishnan, MD, MPH, Rochester, MN

10:35 Aspiration from the Pulmonologist's Perspective

R.P. Boesch, DO, MS, Rochester, MN

10:55 Aspiration from the Gastroenterologist's Perspective

R. Rosen, MD, Boston, MA

11:15 Aspiration from the Speech Language Pathologist's Perspective

M. Lefton-Greif, MA, PhD, Baltimore, MD

11:35 LUNCH**12:20 Multidisciplinary Approach to Robin Sequence**

J.J. Soares, MD, Seattle, WA

12:55 Tracheomalacia Evaluation and Medical Management

J.C. Piccione, MS, DO, Philadelphia, PA

1:20 Surgical Management of Tracheomalacia

K. Balakrishnan, MD, MPH, Rochester, MN

1:45 Aerodigestive Approach to Recurrent Croup

D. Simon, MD, Atlanta, GA

2:15 Break**2:25 100 Ways to Get the Wrong Answer with a Flexible Bronchoscope**

R.E. Wood, MD, PhD, Cincinnati, OH

2:55 Aerodigestive Case Presentations

R.E. Wood, MD, PhD, Cincinnati, OH

3:45 Wrap Up: Where Is Aerodigestive Care Headed in the Next Year?

M. Kazachkov, MD, New York, NY

CLINICAL**POSTGRADUATE COURSE**

CME Credits Available: 6.5

PG25 PULMONARY EMBOLISM: A JOURNEY FROM SUBMASSIVE TO CHRONIC COMPLICATIONS

R Pre-registration and additional fees required. Continental breakfast and box lunch included. Attendance is limited.

Member: \$350

In-Training Member: \$200

Non-Member: \$425

In-Training Non-Member: \$300

L Registrants must bring a laptop to the course to view the course material.

Assemblies on Pulmonary Circulation; Clinical Problems; Critical Care**8:00 a.m. - 4:00 p.m.****SAN DIEGO CONVENTION CENTER****Room 4 (Upper Level)****Target Audience**

Providers of lung health, physicians, physician trainees, physician assistants, nurses and respiratory therapists with interest in pulmonary disorders, cardiovascular disease, pulmonary embolism, critical care or pulmonary hypertension field

Objectives

At the conclusion of this session, the participant will be able to:

- properly risk stratify patients with acute PE and assess their bleeding risk prior to starting anticoagulation;
- integrate and compare the medical, endovascular and surgical strategies to manage the care of acute PE;
- describe diagnosis and management of chronic thromboembolic pulmonary hypertension (CTEPH).

There have been many advances in the field of pulmonary embolism, including new guidelines on risk stratification and anticoagulation, as well as evolving areas in its treatment, management and follow up. The goal of this conference is to provide up-to-date information about advancements in the field of acute pulmonary embolism, including risk stratification, thrombolysis and novel endovascular and surgical techniques, as well as the management of PE complications such as chronic thromboembolic pulmonary hypertension

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

(CTEPH). We will present case vignettes, in which we will include the audience using “audience response system” for an interactive learning experience.

Chairing: B.N. Rivera-Lebron, MD, MS, Pittsburgh, PA
G.A. Heresi, MD, Cleveland, OH

- 8:00 Prevalence, Classification and Risk Stratification of Acute PE**
B.N. Rivera-Lebron, MD, MS, Pittsburgh, PA
- 8:30 Bleeding Risk Consideration Prior to Initiation of Therapy**
J.R. Bartholomew, MD, MS, Cleveland, OH
- 9:00 Indication for Systemic Lysis Over Anticoagulation**
S.V. Konstantinides, MD, Mainz, Germany
- 9:30 Endovascular Techniques in the Treatment of Acute PE**
A.K. Sista, MD, New York, NY
- 10:00 Break**
- 10:15 Role of Surgical Embolectomy and ECMO in PE**
B. Keeling, MD, Atlanta, GA
- 10:45 Multidisciplinary PE Response Team (PERT) Development and Implementation**
R.N. Channick, MD, Boston, MA
- 11:15 Case Presentation with “Audience Response System” -Acute PE**
S. Naydenov, MD, St. Louis, MO
- 11:45 LUNCH**
- 12:45 IVC Filters: Is There a Role Anymore?**
T.M. Bull, MD, Aurora, CO
- 1:15 Oral Anticoagulation Selection and Duration**
R.P. Rosovsky, MD, Boston, MA
- 1:45 Post-PE Complications**
V.F. Tapson, MD, West Hollywood, CA
- 2:15 Break**
- 2:30 CTEPH Epidemiology and Diagnosis**
G.A. Heresi, MD, Cleveland, OH
- 3:00 Medical, Endovascular, and Surgical Treatment of CTEPH**
K.M. Kerr, MD, La Jolla, CA
- 3:30 Case Presentation with “Audience Response System”: CTEPH**
W.R. Auger, MD, La Jolla, CA

CLINICAL • TRANSLATIONAL

POSTGRADUATE COURSE

PG26 THIS SESSION HAS BEEN CANCELED
PRACTICAL STRATEGIES TO ENHANCE PATIENT ENGAGEMENT IN HEALTH CARE

BASIC • CLINICAL

POSTGRADUATE COURSE

CME Credits Available: 7

PG27 MASTER PHYSIOLOGY CLASS: COMMON DISEASES FROM A PHYSIOLOGIC PERSPECTIVE

R Pre-registration and additional fees required. Continental breakfast and box lunch included. Attendance is limited.

Member: \$400 In-Training Member: \$250
Non-Member: \$475 In-Training Non-Member: \$350

 Registrants must bring a laptop to the course to view the course material.

Assemblies on Respiratory Structure and Function; Critical Care

8:00 a.m. - 4:00 p.m. SAN DIEGO CONVENTION CENTER
Room 11 B (Upper Level)

Target Audience

Practicing physicians, advanced practice providers and resident-to-fellow level trainees whose primary clinical focus is pulmonary and critical care medicine

Objectives

At the conclusion of this session, the participant will be able to:

- describe the core principles of respiratory mechanics, dynamics, ventilation-perfusion matching, gas exchange and control of breathing;
- describe the primary physiologic derangements in common respiratory diseases including COPD, asthma, pulmonary hypertension, pulmonary embolism, obesity hypoventilation syndrome and neuromuscular disorders;
- utilize the core principles of respiratory physiology to assess clinical problems in patients with ARDS and other forms of critical illness.

In this session, we will use a combination of didactic lectures and small group sessions to review the major physiologic derangements in common diseases seen by pulmonary and critical care physicians, including obstructive lung diseases, pulmonary vascular disorders, neuromuscular diseases, obesity hypoventilation syndrome, ARDS and other clinical situations that arise in the intensive care unit.

Chairing: A. Luks, MD, Seattle, WA
R.W. Glenny, MD, Seattle, WA

- 8:00 Course Introduction**
A. Luks, MD, Seattle, WA
- 8:10 Pulmonary Hypertension**
B.A. Cockrill, MD, Boston, MA
- 8:40 Asthma**
D.A. Kaminsky, MD, Burlington, VT
- 9:10 Break**
- 9:20 Acute Respiratory Distress Syndrome**
A.D. Bersten, MD, Adelaide, Australia
- 9:50 Pulmonary Embolism**
R.W. Glenny, MD, Seattle, WA
- 10:20 Physiology Questions**
A. Luks, MD, Seattle, WA


- 10:35 Breakout Session 1**
 P.A. Kritek, MD, Seattle, WA
 B.A. Cockrill, MD, Boston, MA
 H.L. Manning, MD, Lebanon, NH
 R.M. Schwartzstein, MD, Boston, MA
 B. Coruh, MD, Seattle, WA
 J.T. Poston, MD, Chicago, IL
 P.G. Carvalho, MD, Boise, ID
 A.S. Clay, MD, Durham, NC
 D.R. Crouch, MD, MS, La Jolla, CA
- 11:50 LUNCH**
- 12:35 Obesity Hypoventilation Syndrome**
 P.G. Carvalho, MD, Boise, ID
- 1:05 Chronic Obstructive Pulmonary Disease**
 R.M. Schwartzstein, MD, Boston, MA
- 1:35 Break**
- 1:45 Neuromuscular Diseases**
 S.P. Kantrow, MD, New Orleans, LA
- 2:15 Idiopathic Pulmonary Fibrosis**
 H.L. Manning, MD, Lebanon, NH
- 2:45 Breakout Session 2**
 P.A. Kritek, MD, Seattle, WA
 B.A. Cockrill, MD, Boston, MA
 H.L. Manning, MD, Lebanon, NH
 R.M. Schwartzstein, MD, Boston, MA
 B. Coruh, MD, Seattle, WA
 J.T. Poston, MD, Chicago, IL
 P.G. Carvalho, MD, Boise, ID
 A.S. Clay, MD, Durham, NC
 D.R. Crouch, MD, MS, La Jolla, CA

CLINICAL • TRANSLATIONAL

POSTGRADUATE COURSE

CME Credits Available: 6

PG28 WHAT THE PULMONOLOGIST AND THE INTENSIVIST SHOULD KNOW ABOUT SLEEP APNEA

 Pre-registration and additional fees required. Continental breakfast and box lunch included. Attendance is limited.

Member: \$350 In-Training Member: \$200
 Non-Member: \$425 In-Training Non-Member: \$300

 Registrants must bring a laptop to the course to view the course material.

Assemblies on Sleep and Respiratory Neurobiology; Behavioral Science and Health Services Research; Clinical Problems; Critical Care; Environmental, Occupational and Population Health; Nursing

8:00 a.m. - 4:00 p.m. SAN DIEGO CONVENTION CENTER
Room 7 A (Upper Level)

Target Audience

Non-sleep trained ATS attendees who wish to know more about the clinical relevance, diagnosis and management of sleep disordered breathing, including the use of non-invasive ventilation

Objectives

At the conclusion of this session, the participant will be able to:

- diagnose SDB in their patients;
- more comfortable referring for diagnostic testing and managing patients with SDB. Attendees will also become familiar with the use of NIV for patients with chronic respiratory failure;
- improve the quality of lives of patients through earlier diagnosis and management of OSA.

Sleep disordered breathing (SDB), which includes central and obstructive sleep apnea, is by far the most common respiratory disorder in the developed world. Pulmonary and critical care physicians receive little instruction or teaching about SDB, even though emerging evidence suggests that recognition and treatment can improve outcomes for their patients. Furthermore, new data suggest a role for non-invasive ventilation in the management of patients with chronic respiratory disease. This session is designed to provide: 1) an overview of Sleep Disordered Breathing epidemiology and pathogenesis; 2) evidence of the importance of "Overlap" Syndromes between SDB and chronic respiratory disorders such as COPD, asthma, pulmonary fibrosis. This will include new data suggesting a mortality benefit for the use of NIV in COPD. 3) review evidence for importance of recognizing SDB in the hospital, and emerging data that early diagnosis and treatment can improve outcomes.

Chairing: R.L. Owens, MD, La Jolla, CA
 B.A. Phillips, MD, MPH, Lexington, KY
 R.J. Schwab, MD, Philadelphia, PA

- 8:00 The Importance of Sleep Medicine in Pulmonary and Critical Care Medicine**
 B.A. Phillips, MD, MPH, Lexington, KY
- 8:15 Epidemiology and Consequences of OSA**
 N.M. Punjabi, MD, PhD, Baltimore, MD
- 8:40 Pathogenesis of Obstructive Sleep Apnea**
 R.L. Owens, MD, La Jolla, CA
- 9:05 Epidemiology and Pathogenesis of Central Sleep Apnea**
 M. Arzt, MD, Regensburg, Germany
- 9:35 Break**
- 9:55 CPAP: How Good Is It, and How Can We Get Patients to Wear It?**
 J.P. Bakker, PhD, Boston, MA
- 10:20 Gizmos and Gadgets - Non PAP Therapy for OSA**
 B.A. Edwards, PhD, Melbourne, Australia
- 10:45 Do We Want to Know? OSA Screening and Post-Op Care**
 D.R. Hillman, MD, Nedlands, Australia
- 11:15 Sleep Medicine in the Hospital: Early Recognition and Management of OSA Improves Outcomes**
 S. Sharma, MD, Cherry Hill, NJ
- 11:45 LUNCH**
- 12:45 Not Just Severe OSA: Obesity Hypoventilation and NIV**
 B. Mokhlesi, MD, MS, Chicago, IL
- 1:10 Alphabet Soup: Advanced Modes of PAP Therapy**
 J.F. Masa, MD, PhD, Caceres, Spain
- 1:35 NIV for Neuromuscular Disease**
 L.F. Wolfe, MD, Chicago, IL

2:00 Upper and Lower Airways: Asthma and OSA
M. Teodorescu, MD, MS, Madison, WI

2:25 Break

2:40 Upper and Lower Airways: COPD and OSA
W.T. McNicholas, MD, MBBS, Dublin, Ireland

3:10 Treatment of Hypercapnic COPD with NIV
P.C. Gay, MD, Rochester, MN


3:40 The Future of Sleep Medicine
R.J. Schwab, MD, Philadelphia, PA

BEHAVIORAL • CLINICAL • TRANSLATIONAL

POSTGRADUATE COURSE

CME Credits Available: 7

PG29 STATE OF THE ART: LUNG CANCER IN 2018

 **Pre-registration and additional fees required. Continental breakfast and box lunch included. Attendance is limited.**

Member: \$350 In-Training Member: \$200
Non-Member: \$425 In-Training Non-Member: \$300

 **Registrants must bring a laptop to the course to view the course material.**

Assemblies on Thoracic Oncology; Behavioral Science and Health Services Research; Clinical Problems

8:00 a.m. - 4:00 p.m. SAN DIEGO CONVENTION CENTER

Room 8 (Upper Level)

Target Audience

All providers caring for patients with lung nodules / lung cancer (pulmonologists, thoracic surgeons, radiation oncologists, nurse practitioners / physician assistants)

Objectives

At the conclusion of this session, the participant will be able to:

- apply recommended screening protocols in your local lung nodule clinic;
- apply the forthcoming 8th edition of the TNM Classification for Lung Cancer to the care of patients;
- integrate new and minimally invasive treatment options to improve the care of your patients with lung cancer.

This course will provide a comprehensive review of topics in the evaluation and management of patients with lung cancer. We will start with an outstanding international example of tobacco control, discuss guidelines and practical tips for lung cancer screening, the new staging system and use of biomarkers for lung cancer detection. The treatment of early-stage, locally-advanced and metastatic disease will be addressed, highlighting novel / minimally invasive approaches as well as the use of immunotherapy. Malignant effusions, mesothelioma and the importance of palliation will be reviewed in detail. Interactive tumor boards will be held to highlight main teaching points.

Chairing: D.J. Feller-Kopman, MD, Baltimore, MD
M.P. Rivera, MD, Chapel Hill, NC

8:00 Introduction
D.J. Feller-Kopman, MD, Baltimore, MD

8:05 How to Get to a 5% National Smoking Rate: Lessons from Down Under
M. Daube, MD, Perth, Australia

8:30 Pearls and Pitfalls in Developing a Lung Cancer Screening Program
N.T. Tanner, MD, MSCR, Charleston, SC

8:55 NLST vs USPFTF vs NCCN, Fleischner vs LungRads: I'm SO Confused
P.J. Mazzone, MPH, MD, Cleveland, OH

9:20 Interactive Tumor Board
D.J. Feller-Kopman, MD, Baltimore, MD

10:00 Break

10:10 Biomarkers in Lung Cancer: Ready for Prime Time?
C.R. Sears, MD, Indianapolis, IN

10:35 The New Staging System: Why It Matters and How Am I Going to Remember All of This
L.T. Tanoue, MD, New Haven, CT

11:00 Beyond the Eyeball Test: Pre-Operative Evaluation
M.B. Drummond, MHS, MD, Chapel Hill, NC

11:25 VATS and RATS - Minimally Invasive Surgery for Lung Cancer
D. Molena, MD, New York, NY

11:50 LUNCH

12:40 Beyond Diagnosis: Is Bronchoscopic Treatment of Lung Cancer Possible?
D.J. Feller-Kopman, MD, Baltimore, MD

1:05 Immunotherapy for Lung Cancer: The Dawn of a New Day
Z.G. Fridlender, MD, Jerusalem, Israel

1:30 Interactive Tumor Board
M.P. Rivera, MD, Chapel Hill, NC

2:10 Break

2:20 Stage 3 Disease - Do We Have Consensus?
M. Das, MD, Palo Alto, CA

2:40 What About the Pleura: Malignant Effusions and Mesothelioma
J. Friedberg, MD, Baltimore, MD

3:05 Palliative Care in Lung Cancer
M.M. Hayes, MD, Boston, MA

3:30 Lung Cancer Journal Club: The Year's Top 5 Manuscripts
M.P. Rivera, MD, Chapel Hill, NC

4:30 p.m. - 5:30 p.m.

OPENING CEREMONY

SAN DIEGO CONVENTION CENTER
Hall H (Ground Level)

The American Thoracic Society invites you to attend the Opening Ceremony for the 2018 International Conference. The Ceremony will feature distinguished physician, educator, and medical scientist **Darrell G. Kirch, MD**, president and chief executive officer of the Association of American Medical Colleges. Dr. Kirch speaks and publishes on the need for transformation in the nation's health care system, and how academic medicine can lead change across medical education, biomedical research, and patient care. Also during the Opening Ceremony will be an address by ATS President **Marc Moss, MD**, and the presentation of several Respiratory Health Awards:

Public Service Award: **George D. Thurston, ScD, Tuxedo Park, NY**

World Lung Health Award: **Eric D. Bateman, MBChB, MD, Cape Town, South Africa**

Jo Rae Wright Award for Outstanding Science: **Yohannes T. Ghebre, PhD, Houston, TX**

5:30 p.m. - 6:30 p.m.

THE NETWORKING EXCHANGE FOR EARLY CAREER PROFESSIONALS

MARRIOTT MARQUIS SAN DIEGO MARINA
Pacific Ballroom Foyer (North Tower, First Floor)

The Networking Exchange for Early Career Professionals is an annual networking event for early career professionals and first time conference attendees. This one hour event is intended to provide a relaxed atmosphere where attendees can network with peers, ATS leaders, program directors, associate program directors and division directors, as well as other prominent thought leaders. Cocktails and appetizers will be provided.

The Membership Committee, Training Committee, and the Members in Transition and Training Committee (MITT) jointly host the Networking Exchange for Early Career Professionals.

Conference badges are required for admission. Space is limited. There is no additional fee.



ATS 2018
Where today's science
meets tomorrow's care™
International Conference
San Diego, CA
Sunday Morning, May 20

CLINICAL
PEDIATRIC CLINICAL CORE CURRICULUM
CME Credits Available: 1
MOC Points Available: 1

PCC1 PEDIATRIC CLINICAL CORE CURRICULUM

7:00 a.m. - 8:00 a.m. **SAN DIEGO CONVENTION CENTER**
Room 1 A-B (Upper Level)

Target Audience

Pediatric pulmonary and critical care physicians who work in a clinical setting and are currently engaged in maintenance of certification

Objectives

At the conclusion of this session, the participant will be able to:

- remain current with medical knowledge relevant to their practice in pediatric pulmonology;
- evaluate their understanding of key skills and content areas in pediatric pulmonology as well as receive feedback on their comprehension of a result of a pre-test/post-test comparison;
- support clinicians who are engaged in maintenance of certification activities by providing updates on subjects included in recertification requirements.

The Pediatric Core Curriculum symposia promote lifelong learning and the enhancement of the clinical judgment and skills essential for practicing pediatrician. The symposia will address topics that have been identified by an ATS pediatric working group, which is comprised of members of the ATS Education Committee and the International Conference Committee, who have identified important areas within pediatric medicine (including severe asthma, ILD, BPD, pulmonary hypertension and pulmonary manifestations of pulmonary disease). Attendees will increase their medical knowledge as a result of attending this symposium, and this will be measured by a comparison of pre-test vs. post-test results on the corresponding maintenance of certification module. The ATS Pediatric Core Curriculum will focus on a 3-year content cycle of key medical content in the area of pediatric medicine.

Chairing: A. Horani, MD, MPH, St. Louis, MO

7:00 Cystic Fibrosis: Update on Diagnosis
R.F. Brown, MD, Nashville, TN

7:30 Cystic Fibrosis: Update on Treatment
T. Ong, MD, Seattle, WA

This session and the International Conference are supported by educational grants from Gilead Sciences, Inc., Vertex Pharmaceuticals Inc.

All CME sessions have been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) and are free of the control of commercial interests.

BASIC • CLINICAL • TRANSLATIONAL
ATS KEYNOTE SERIES
CME Credits Available: .75

The Keynote Series provides state of the art lectures on selected topics in an unopposed format showcasing timely and diverse topics which relate to pulmonary, critical care and sleep medicine.

Two sessions are presented each morning during the conference. Below are the topics for the Sunday, May 20th series.

K1 NHLBI AND THE EVOLUTION OF PULMONARY RESEARCH
8:15 a.m. - 9:00 a.m. **SAN DIEGO CONVENTION CENTER**
Room 6 B (Upper Level)
Speaker: James P. Kiley, PhD, Bethesda, MD

K2 SLOW MEDICINE: THE KEY TO POST-ICU RECOVERY?
8:15 a.m. - 9:00 a.m. **SAN DIEGO CONVENTION CENTER**
Room 6 C/F (Upper Level)
Speaker: Victoria Sweet, MD, San Francisco, CA

CLINICAL
YEAR IN REVIEW
CME Credits Available: 2
MOC Points Available: 2

A1 CLINICAL YEAR IN REVIEW 1

9:15 a.m. - 11:15 a.m. **SAN DIEGO CONVENTION CENTER**
Hall H (Ground Level)

Target Audience

Providers including physicians, nurses, respiratory therapists, nurse practitioners, physician assistants; trainees including residents and fellows; clinical researchers

Objectives

At the conclusion of this session, the participant will be able to:

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- apply new clinical research knowledge to clinical practice;
- learn new findings about key conditions in pulmonary, critical care and sleep;
- gain new strategies to manage the care of common conditions in pulmonary, critical care, and sleep.

The annual Clinical Year in Review symposia provides concise summaries of the most impactful clinical research publications related to specific clinical topics. Speakers will highlight 5 of the most important and influential publications on their topic in written format and during their talks.

Chairing: D.W. Ford, MD, Charleston, SC
V.E. Ortega, MD, PhD, Winston Salem, NC
J.S. Lee, MD, Aurora, CO

9:15 ILD
K.A. Johansson, MD, MPH, Calgary, Canada

9:45 Pulmonary Rehabilitation
W. Man, MD, PhD, Harefield, United Kingdom

10:15 Lung Transplantation
M.M. Budev, DO, MPH, Cleveland, OH

10:45 Interventional Pulmonology
N. Navani, MD, MSc, London, United Kingdom

This session and the International Conference are supported by an educational grant from Boston Scientific Corporation.

All CME sessions have been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) and are free of the control of commercial interests.

BASIC • CLINICAL

CLINICAL TOPICS IN PULMONARY MEDICINE

CME Credits Available: 2

A2 JAMA AND THE NEW ENGLAND JOURNAL OF MEDICINE. DISCUSSION ON THE EDGE: REPORTS OF RECENTLY PUBLISHED PULMONARY RESEARCH

9:15 a.m. - 11:15 a.m. SAN DIEGO CONVENTION CENTER
Room 29 A-D (Upper Level)

This session will provide a forum for attendees to interact with the authors and editors about papers published in JAMA and the New England Journal of Medicine. Papers presented will be recent publications, selected by the editors, to be of significant importance to the field of pulmonary medicine. Attendees will have the opportunity to hear presentations directly from the author and address questions to both the authors and editors. The discussion is intended to provide a unique insight into these papers, the selection process, and how the research applies directly to the field of pulmonary medicine.

Chairing: G.W.K. Wong, MD, FRCPC, Associate Editor,
New England Journal of Medicine
G.T. O'Connor, MD, MS, Associate Editor, JAMA

Speakers And Talks To Be Announced

CLINICAL

CLINICAL TOPICS IN PULMONARY MEDICINE

CME Credits Available: 2

A3 FELLOWS CASE CONFERENCE

Assemblies on Allergy, Immunology and Inflammation; Behavioral Science and Health Services Research; Clinical Problems; Members in Transition and Training Committee; Training Committee

9:15 a.m. - 11:15 a.m. SAN DIEGO CONVENTION CENTER
Ballroom 20 D (Upper Level)

Target Audience

Clinicians, nurses, fellows, residents, and researchers looking to broaden their clinical acumen to facilitate clinical and translational research

Objectives

At the conclusion of this session, the participant will be able to:

- recognize clinical, radiographic, and pathologic findings of rare diseases
- gain insight into clinical decision-making skills demonstrated by master clinicians, radiologists and pathologists which will improve the quality of learners' practice and potentially improve quality of care for the learner's patients
- develop strategies to evaluate patients with common symptoms that include uncommon/rare diseases in the differential diagnosis when appropriate

This session will consist of 6 unique cases presented and discussed by fellows with a panel of 3 clinical experts to moderate the discussion and provide commentary. An expert radiologist and expert pathologist will provide guidance on imaging and path. The cases will provide new insights into disease pathogenesis, diagnosis, and/or treatment. Selected cases will include clear clinical teaching points with review of associated pathology and radiology as appropriate. Finally, the discussion will highlight thoughtful medical decision.

Chairing: L.E. Crotty Alexander, MD, San Diego, CA

9:15 Welcome and Introduction
L.E. Crotty Alexander, MD, San Diego, CA

9:20 Could This Be Related to My Dog?
P. Chung, MD, Los Angeles, CA

9:30 Cloaked in Chyle: An Under Recognized Etiology
A. Egan, MD, Rochester, MN

9:40 Hunting for Zebras with a Local Hunter
A. Deitchman, MD, Baltimore, MD

9:50 A Mysterious Etiology Causing Dyspnea in a 71 Year Old Man
T. Kukkadapu, MD, Augusta, GA

10:00 Puzzling Pulmonary Nodules
Z. Salman, MD, Houston, TX

10:10 Don't Blame It On the Fluid
A. Arjuna, MD, Newark, NJ

10:20 Expert Clinicians
M.I. Schwarz, MD, Aurora, CO
A.E. Dixon, MD, Burlington, VT
A.H. Limper, MD, Rochester, MN

- 10:35 Expert Pathologist**
J.L. Myers, MD, Ann Arbor, MI
- 10:55 Expert Radiologist**
S. Kligerman, MD, San Diego, CA

CLINICAL
CRITICAL CARE TRACK
CME Credits Available: 2
Nursing Contact Hours Available: 2.4

A4 SURVIVING CRITICAL ILLNESS: OPTIMIZING OUTCOMES IN THE POST-ICU SPACE

Assemblies on Critical Care; Clinical Problems; Nursing

9:15 a.m. - 11:15 a.m. SAN DIEGO CONVENTION CENTER
Ballroom 20 A (Upper Level)

Target Audience

Care providers in ICU and post-ICU settings, including registered nurses and advanced practice nurses

Objectives

At the conclusion of this session, the participant will be able to:

- recognize the growing post-ICU survivor population and their unique physiologic and disease processes that result in significant long-term sequelae;
- discuss best practice care processes that reflect individual and chronic disease elements as well as addressing the impact on families and their dynamics;
- develop new ICU practices that are focused on improving long-term post-ICU outcomes, including readmission risk assessment, identification of significant factors related to survival, and supporting meaningful quality of life functions.

Post-ICU populations are growing and survivors increasingly face challenges of poor outcomes. Besides a profound clinical and operational impact, there is a significant cost to the system for patients who require prolonged care. Better delineation of post-ICU subtypes has the potential to drive different therapeutic interventions across disciplines. However, evidence-based practice is currently dependent on only a handful of landmark studies, and best practices are scarce for assessing, intervening and transitioning post-ICU patients. Significant opportunities exist for research, innovation, and transition partnerships to achieve better patient outcomes.

Chairing: D.M. Needham, MD, PhD, Baltimore, MD
H. Dunn, MS, Chicago, IL

- 9:15 Introduction**
D.M. Needham, MD, PhD, Baltimore, MD
H. Dunn, MS, Chicago, IL
- 9:35 A Patient's Perspective**
W. Gluba, Davenport, IA
- 9:40 Processes of Care for Persistent and Chronic Critical Illness**
L. Rose, RN, PhD, Toronto, Canada
- 9:59 Care of Ventilated Patients at an LTACH**
A. Jubran, MD, Hines, IL
- 10:19 The Fire is Still Burning: A Continuing Inflammatory Cascade Post-ICU**
P.A. Efron, MD, Gainesville, FL

- 10:31 Lost in Translation: Are Interventions Designed to Assess and Support ICU Patients and Their Families Useful in the Post-ICU Period?**
J. Tate, PhD, RN, Columbus, OH
- 10:51 Care Innovations in the Post-ICU Space**
S.I. Hammerman, MD, Mechanicsburg, PA

BASIC • CLINICAL • TRANSLATIONAL
BASIC SCIENCE CORE
CME Credits Available: 2

A5 SETTING THE STAGE: MITOCHONDRIAL DYSFUNCTION AS A DRIVER OF CHRONIC DISEASE

Assemblies on Allergy, Immunology and Inflammation; Respiratory Cell and Molecular Biology; Respiratory Structure Function

9:15 a.m. - 11:15 a.m. MARRIOTT MARQUIS SAN DIEGO MARINA
Pacific Ballroom 21 (North Tower, First Floor)

Target Audience

Basic scientists, physiologists, allergists, pulmonologists, translational researchers, fellows and residents, and graduate trainees interested in lung pathophysiology

Objectives

At the conclusion of this session, the participant will be able to:

- understand how pathway and cell-cell interactions can contribute mitochondrial dysfunction in disease pathogenesis;
- describe mitochondrial-associated metabolic properties of stromal and stem cells and how these determine cell function;
- be aware of how new findings are being positioned to promote research direction and therapeutic strategies that focus on mitochondria.

Mitochondria are a chief energy generator and essential to maintain cellular homeostasis, including diverse roles in intracellular signaling that can define cell function and response to external stimuli. Mitochondrial dysfunction has emerged as a significant underpinning for disease pathogenesis, being involved with inflammation, tissue remodeling, and aberrant wound repair. This is associated with aberrant mitochondrial dynamics, response to and regulation of oxidative stress, and altered intracellular calcium flux. This symposium highlights emerging understanding of the breadth and integrated pathobiological responses and roles for mitochondria, as well as the potential for this knowledge to inform development of mitochondria targeting therapies.

- Chairing:** S.C. Erzurum, MD, Cleveland, OH
J.C. Deng, MS, MD, Ann Arbor, MI
- 9:15 Mitochondrial Biology in Disease and Modern Medicine**
D. Wallace, PhD, Philadelphia, PA
- 9:42 Mitochondrial Dysfunction and Immune Dysregulation in the Setting of Smoking Exposure in COPD**
M. Kang, MD, PhD, New Haven, CT
- 10:04 Mesenchymal Stem Cells Alleviate Oxidative Stress-Induced Mitochondrial Dysfunction in the Airways**
P.K. Bhavsar, PhD, London, United Kingdom

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- 10:26 Mitochondrial Structure and Function in Airway Disease to Drive Development of Novel Therapeutics**
Y.S. Prakash, MD, PhD, Rochester, MN
- 10:48 Deciphering How Oxidative Damage to Mitochondria Contributes to Human Pathologies: Path to Mitochondria-Targeting Therapies**
T. Krieg, MD, Cambridge, United Kingdom

BASIC • TRANSLATIONAL**SCIENTIFIC SYMPOSIUM**

CME Credits Available: 2

A6 GLYCOBIOLOGY AND GLYCOMICS OF LUNG DISEASES

Assemblies on Respiratory Cell and Molecular Biology; Allergy, Immunology and Inflammation; Environmental, Occupational and Population Health; Pulmonary Infections and Tuberculosis; Respiratory Structure and Function

9:15 a.m. - 11:15 a.m. MARRIOTT MARQUIS SAN DIEGO MARINA

Pacific Ballroom 18-19 (North Tower, First Floor)

Target Audience

Clinical, translational and basic lung researchers, lung research administrators, patient-care providers

Objectives

At the conclusion of this session, the participant will be able to:

- learn about the role of glycomolecules in diverse lung diseases;
- identify the therapeutic potential of glycomolecules;
- learn about the tools and resources available to study glycobiology in human and mouse samples.

Glycobiology, the study of complex carbohydrates in biologic systems, is an emerging field. Carbohydrates are by far the most abundant organic molecules in biology but its role in lungs remains unexplored, likely due to the complexity and need for specialized, multi-disciplinary expertise. Despite the successful completion of the Human Genome Project and widely applied, advanced technologies in genomics and proteomics, key macromolecules in life, such as glycans, have not experienced similar advancements. The importance of carbohydrates in cancer therapeutics has been recognized but advanced technologies have now allowed the identification and characterization of carbohydrate structure function in a variety of organs, including lung.

Chairing: Z. Zhu, MD, PhD, Providence, RI
D.E. Wagner, PhD, Lund, Sweden
M. Tiemeyer, PhD, Athens, GA

9:15 Opening

Z. Zhu, MD, PhD, Providence, RI

9:17 Introduction to Glycobiology and Glycomics of Lung

M. Tiemeyer, PhD, Athens, GA

9:23 Use of Existing and Novel Humanized Mouse Models to Study How Airway Mucins Alter Eosinophil Survival via Siglec-F vs. Siglec-8

B.S. Bochner, MD, Chicago, IL

- 9:37 Airway Mucins: Finding the Sweet Spot Between Health and Disease**
C.M. Evans, PhD, Aurora, CO

- 9:51 A Tickle at the Back of Your Throat? The Role of the Soft Palate in Airborne Transmission of Influenza Virus**
K. Subbarao, MBBS, MPH, Melbourne, Australia

- 10:05 Syndecans in Bacterial Pneumonia**
P.W. Park, PhD, Boston, MA

- 10:19 Glycans and Glycan-Binding Proteins in Inflammatory Lung Disease**
R.L. Schnaar, PhD, Baltimore, MD

- 10:33 Targeting Siglecs to Desensitize Mast Cells**
J.C. Paulson, PhD, San Diego, CA

- 10:47 Glycosaminoglycans in Repair and Disease of the Lung**
G. Westergren Thorsson, PhD, Lund, Sweden

- 11:01 Stanniocalcin 1: A Glycoprotein Linking Immunity, Mitochondria and Lung Repair**
P. Lee, MD, New Haven, CT

BASIC • CLINICAL • TRANSLATIONAL**SCIENTIFIC SYMPOSIUM**

CME Credits Available: 2

A7 LEVERAGING MOLECULAR MECHANISMS OF GRANULOMA FORMATION IN SARCOIDOSIS TO IMPROVE CARE

Assemblies on Allergy, Immunology and Inflammation; Environmental, Occupational and Population Health; Respiratory Cell and Molecular Biology

9:15 a.m. - 11:15 a.m. SAN DIEGO CONVENTION CENTER

Ballroom 20 B-C (Upper Level)

Target Audience

Providers of lung health, particularly in the field of sarcoidosis and other granulomatous disorders, including researchers, clinicians and educators. Those needing instruction in areas of medicine outside their specialty.

Objectives

At the conclusion of this session, the participant will be able to:

- discuss models and define mechanisms that can be used to help determine genes and pathways that could be targeted for therapeutics
- define new phenotypes of disease based on genes and pathways
- define mechanisms occurring during early granuloma formation that have implications for the pathogenesis and treatment of severe sarcoidosis phenotypes.

Sarcoidosis is unlike other granulomatous disorders in that the cause of the disease remains poorly understood. This session will present recent progress in the field of sarcoidosis, including exciting data from novel disease models and new scientific research platforms that are rapidly advancing our understanding of the disease, and could lead to new biomarkers and therapeutic targets to improve the care of sarcoidosis patients.

Chairing: N.Y. Hamzeh, MD, Iowa City, IA
K.C. Patterson, MD, Brighton, United Kingdom
J.C. Grutters, MD, Nieuwegein, Netherlands

- 9:15 A Patient's Perspective**
T. Waters, ANP-BC, MBA, Houston, TX
- 9:20 A Brief Review of Granuloma Immunology**
L. Koth, MD, San Francisco, CA
- 9:30 Insights into Early Sarcoidosis Granuloma Formation in Sarcoidosis and TB using a Human in Vitro Model**
E.D. Crouser, MD, Columbus, OH
- 9:50 mTORC1: A Checkpoint for Sarcoidosis Progression and Novel Mouse Model of Disease**
T. Weichhart, PhD, Vienna, Austria
- 10:10 Genetic, Environmental and Microbiome Drivers of Granuloma Formation in Sarcoidosis**
L.A. Maier, MSPH, MD, Denver, CO
- 10:30 The Integral Role of Transcriptomics in Disease Manifestations: New Insights from the NHLBI GRADS Study**
N. Kaminski, MD, New Haven, CT
- 10:50 Pursuit of the Holy Grail of Sarcoidosis: Identifying Disease Causing Antigens**
A.P. Fontenot, MD, Aurora, CO
- 11:10 General Discussion**

*This session and the International Conference are supported by an educational grant from **Mallinckrodt Pharmaceuticals**.*

All CME sessions have been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) and are free of the control of commercial interests.

BASIC • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

A8 CURRENT CONTROVERSIES IN PAH DISEASE MECHANISMS: A PRO/CON DEBATE

Assemblies on Pulmonary Circulation; Pediatrics

9:15 a.m. - 11:15 a.m. SAN DIEGO CONVENTION CENTER

Room 15 A-B (Mezzanine Level)

Target Audience

Basic, translational and clinical researchers and clinicians (adult and pediatrics) interested in pulmonary vascular disease and right heart failure

Objectives

At the conclusion of this session, the participant will be able to:

- summarize the evidence why PAH has cancer-like features;
- learn about fundamental disease mechanisms in PAH that involve other organs beyond the lung vasculature;
- acknowledge the role of the adventitia in PAH pathogenesis and critically weigh the existence and role of capillary rarefaction in right ventricular failure in PAH.

This session will focus on controversies in the understanding of the pathogenesis of pulmonary arterial hypertension (PAH). By employing a pro/con debate style, this

session will critically evaluate opposing views of how pulmonary hypertension and right heart failure develops, and identify points of agreement and disagreement with the ultimate goal to reach a consensus to identify novel treatment targets for PAH.

Chairing: E.F. Spiekerkoetter, MD, Palo Alto, CA
W. Kuebler, MD, Berlin, Germany
S.S. Pullamsetti, PhD, Bad Nauheim Hessen, Germany

- 9:15 PRO: PAH is a Cancer-Like Disease**
E.A. Goncharova, PhD, Pittsburgh, PA
- 9:30 CON: PAH is NOT a Cancer-Like Disease**
C. Guignabert, PhD, Le Kremlin Bicetre, France
- 9:45 PRO: PAH is a Systemic Disease**
M. Rabinovitch, MD, Stanford, CA
- 10:00 CON: PAH is NOT a Systemic Disease**
N.F. Voelkel, MD, El Prado, NM
- 10:15 PRO: Vascular Remodeling in PAH is Initiated in the Adventitia**
K.R. Stenmark, MD, Aurora, CO
- 10:30 CON: Vascular Remodeling in PAH is NOT Initiated in the Adventitia**
G. Kwapiszewska, PhD, Graz, Austria
- 10:45 PRO: Capillary Loss Drives Right Ventricular Failure in PAH**
H. J. Bogaard, MD, PhD, Amsterdam, Netherlands
- 11:00 CON: Capillary Loss Does NOT Drive Right Ventricular Failure in PAH**
B.B. Graham, MD, Aurora, CO

*This session and the International Conference are supported by educational grants from **Actelion Pharmaceuticals US, Inc., Bayer US**.*

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BASIC • CLINICAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

A9 ACCELERATING SCIENTIFIC ADVANCEMENT OF RARE PEDIATRIC LUNG DISEASES

Assemblies on Pediatrics; Respiratory Cell and Molecular Biology

9:15 a.m. - 11:15 a.m. SAN DIEGO CONVENTION CENTER

Room 7 A-B (Upper Level)

Target Audience

Basic scientists, clinicians, students and postdoctoral trainees and providers of lung health. Those working in pediatric and neonatal pulmonary dysfunction with an interest in understanding the latest basic and translational approaches

Objectives

At the conclusion of this session, the participant will be able to:

- learn about the latest advances in determining the mechanisms regulating the development and progression of Pediatric Rare Lung Disease (PRLD);
- improve knowledge of the pre-clinical models for assessing the treatment of Pediatric Rare Lung Disease (PRLD);
- improve understanding of the newest therapeutic approaches and their applicability in the treatment of (PRLD).

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

This session will evaluate recent progress made in deciphering the signaling pathways, the genetic landscapes, diagnoses and therapeutic tools for several pediatric rare lung diseases.

Chairing: A.L. Firth, PhD, Los Angeles, CA
D. Al Alam, PhD, MS, Los Angeles, CA

- 9:15 Neuroendocrine Cell Hyperplasia of Infancy (NEHI): What's New and What's NEBulous**
L.R. Young, MD, Nashville, TN
- 9:35 Pathogenetics of Lethal Neonatal Developmental Lung Diseases**
P. Stankiewicz, MD, PhD, Houston, TX
- 9:55 Cell/Gene Therapy for Pediatric Pulmonary Alveolar Proteinosis (PAP)**
B.C. Trapnell, MD, Cincinnati, OH
- 10:15 The Ciliary Proteome: New Insights for PCD**
L. Ostrowski, PhD, Chapel Hill, NC
- 10:35 Exploring ABCA3 Mutations in Pediatric Interstitial Lung Disease**
M. Griese, MD, Munich, Germany
- 10:55 Using In Vitro Lung Models for Personalized Approaches to Treat Rare Lung Diseases**
B. Gomperts, MD, Los Angeles, CA

BASIC • CLINICAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

A10 PATHOBIOLOGY OF AGE-RELATED LUNG DISEASE: FROM BENCH TO BEDSIDE

Assemblies on Respiratory Structure and Function; Allergy, Immunology and Inflammation; Clinical Problems; Critical Care; Environmental, Occupational and Population Health; Respiratory Cell and Molecular Biology; Sleep and Respiratory Neurobiology

9:15 a.m. - 11:15 a.m. MARRIOTT MARQUIS SAN DIEGO MARINA
Pacific Ballroom 22 (North Tower, First Floor)

Target Audience

All providers of lung health who care for geriatric patients and those with a research interest in the basic science of aging as well as in clinical investigation related to lung disease in older adults.

Objectives

At the conclusion of this session, the participant will be able to:

- learn new findings about the aging respiratory system;
- apply knowledge about the pathobiology of aging to better understand chronic lung disease;
- gain new strategies to manage the care of patients with chronic lung disease.

The aging population (65 years and older) is expected to increase rapidly over the next decade. Changes in cellular, physiologic and immunologic function are a normal part of the aging process that increases the risk for chronic lung disease. This session will highlight for the learner how the molecular biology of aging (e.g., telomere attrition, mitochondrial dysfunction, extracellular matrix deregulation, etc.)

combined with immunosenescence and changes in lung structure and function can predispose elderly individuals to idiopathic pulmonary fibrosis, chronic obstructive pulmonary disease and acute respiratory distress syndrome. Increased understanding of aging pathobiology will provide insight into these diseases and their management.

Chairing: G.S. Skloot, MD, New York, NY
Y.S. Prakash, MD, PhD, Rochester, MN
P. Lee, MD, New Haven, CT

- 9:15 Overview of the Aging Respiratory System**
Y.S. Prakash, MD, PhD, Rochester, MN
- 9:35 Accelerated Lung Aging and COPD**
R. Gosens, PhD, Groningen, Netherlands
- 10:00 Idiopathic Pulmonary Fibrosis: Prototype of Aging-Related Lung Disease**
V.J. Thannickal, MD, Birmingham, AL
- 10:25 The Impact of Aging on Acute Lung Injury and ARDS**
P. Lee, MD, New Haven, CT
- 10:50 Anti-Aging Molecules and Therapeutic Interventions**
I. Petrache, MD, Denver, CO

BASIC • CLINICAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

Nursing Contact Hours Available: 2.4

A11 ATS/JRS/CTS/ERS SYMPOSIUM ON SEVERE ASTHMA: RATIONALIZING TARGETED THERAPEUTICS

Assemblies on Allergy, Immunology and Inflammation; Clinical Problems; Environmental, Occupational and Population Health; Pulmonary Infections and Tuberculosis; Nursing; Pediatrics; Respiratory Cell and Molecular Biology; Respiratory Structure and Function

9:15 a.m. - 11:15 a.m. SAN DIEGO CONVENTION CENTER
Room 6 A (Upper Level)

Target Audience

Providers who take care of patients with asthma, including registered nurses and advanced practice nurses; providers needing instruction in areas of medicine outside of their specialty; basic and translational scientists who want to learn more about precision/personalized approaches to treatment of asthma

Objectives

At the conclusion of this session, the participant will be able to:

- discuss new findings about how to define subsets (endotypes) of patients with severe asthma and how to use this to tailor therapies clinically;
- integrate new treatment options in discussing severe asthma with patients;
- summarize the molecular and cellular basis for severe asthma and how to use this knowledge to optimize treatment for patients with asthma.

This symposium represents an international collaborative effort between members of the Japanese Respiratory Society, The European Respiratory Society, Canadian Thoracic Society, and the American Thoracic Society to foster interactions towards a precision medicine approach to severe asthma. Globally, severe asthma represents

a subset of asthma accounting for approximately 5-10% of patients with asthma. However health care utilization for this subset has been estimated to be up to 40% of the total economic burden of asthma. Recently there have been significant efforts to determine the underlying basis for this disease in terms of epidemiology, physiology, immunology, and genetics that influence this phenotype. Data is emerging that severe asthma consists of several subsets termed "endotypes". This phenotypic and now molecular classification may greatly aid in patient management with improved disease control, improved clinical outcomes and reduced medical costs. This symposium will highlight recent advances as well as highlight needed areas of research to advance treatment and prevention of this disease.

Chairing: G.P. Downey, MD, Denver, CO
B.D. Levy, MD, Boston, MA
K. Asano, MD, Kanagawa, Japan
E. Bel, MD, PhD, Amsterdam, Netherlands

9:15 Introduction and Overview of Severe Asthma
S.E. Wenzel, MD, Pittsburgh, PA

9:20 ORMDL3 and Epithelial Derived Mediators for Induction of Asthmatic Response
C.M. Lloyd, PhD, London, United Kingdom

9:40 Complex Crosstalk Between Epithelial Cells and Immune Cells in Asthma
H. Nakajima, PhD, MD, Chiba, Japan

9:58 New Insights Into Severe Eosinophilic Inflammation: ETosis and Extracellular Traps
S. Ueki, MD, PhD, Akita, Japan

10:15 Targeting IL5 in Severe Asthma: The Ligand or the Receptor?
P.K. Nair, MD, PhD, Hamilton, Canada

10:35 Mitochondrial Arginine Metabolism Supported Bioenergetics in Asthma
S.C. Erzurum, MD, Cleveland, OH

10:55 Early School-Based Interventions to Treat and Prevent Childhood Asthma
W. Phipatanakul, MD, Boston, MA

This session and the International Conference are supported by educational grants from GlaxoSmithKline, Sanofi Genzyme and Regeneron Pharmaceuticals.

All CME sessions have been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) and are free of the control of commercial interests.

BASIC • CLINICAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

A12 FROM SPANISH FLU OF 1918 TO TODAY: WHAT CAN WE LEARN FROM VIRUSES?

Assemblies on Respiratory Cell and Molecular Biology; Critical Care; Pulmonary Infections and Tuberculosis

9:15 a.m. - 11:15 a.m. MARRIOTT MARQUIS SAN DIEGO MARINA
Grand Ballroom 8-9 (North Tower, Lobby Level)

Target Audience

Scientists and clinicians interested in the biology and treatment of viral infections

Objectives

At the conclusion of this session, the participant will be able to:

- enhance understanding of how viruses become pathogenic;
- become knowledgeable about the historical context of flu pandemics;
- develop global strategies to combat pandemics.

The Spanish Flu of 1918 killed more individuals than those that died in the First World War. On the 100th anniversary of this pandemic, it is timely that we present a scientific symposium of our enhanced understanding of how viruses survive and how they contribute to enhanced morbidity and mortality particularly in chronic pulmonary diseases such as asthma, pulmonary fibrosis and ARDS.

Chairing: S. Donnelly, MD, Dublin, Ireland
B.B. Moore, PhD, Ann Arbor, MI
C. Dela Cruz, MD, PhD, New Haven, CT
S.M. Cloonan, PhD, New York, NY

9:15 Spanish Flu of 1918: Lesson Learnt
M. Worobey, PhD, Tucson, AZ

9:40 Viruses and Pulmonary Fibrosis
S. Donnelly, MD, Dublin, Ireland

10:05 Virus, Immunity and Asthma
N.W. Lukacs, PhD, Ann Arbor, MI

10:30 Viruses and Immune Memory: The Adaptation Race
F.E. Lee, MD, Atlanta, GA

10:55 An Update on Ebola Virus
S. Schendel, PhD, San Diego, CA

BEHAVIORAL • CLINICAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

Nursing Contact Hours Available: 2.4

MOC Points Available: 2

A13 ATS/ALA IMPLEMENTATION GUIDE FOR LUNG CANCER SCREENING: AN OPERATIONAL TOOLKIT

Assemblies on Behavioral Science and Health Services Research; Clinical Problems; Nursing; Thoracic Oncology; Document Development and Implementation Committee; Tobacco Action Committee; Quality Improvement and Implementation Committee

9:15 a.m. - 11:15 a.m.

SAN DIEGO CONVENTION CENTER

Room 16 A-B (Mezzanine Level)

Target Audience

Clinicians, including registered nurses and advanced practice nurses, wishing to implement or improve a lung cancer screening program, policymakers and administrators in charge of a screening program

Objectives

At the conclusion of this session, the participant will be able to:

- discuss the role of environmental barriers and facilitators in the implementation of lung cancer screening programs and improving screening of at-risk populations;

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- apply pragmatic solutions to overcome barriers to implementing high-quality lung cancer screening;
- improve resources available to practicing clinicians to perform necessary tasks in lung cancer screening programs, including shared decision making, smoking cessation, and ensuring follow-up of nodules.

The USPSTF recommends lung cancer screening for high risk patients. However, there is a known gap between publication of high-quality evidence and subsequent adoption into practice. This is problematic for lung cancer screening given that implementation of screening programs is complex. A fraction of screen-eligible patients are screened for lung cancer. To address this gap and facilitate implementation of lung cancer screening programs, the ATS and ALA joined forces to develop an implementation toolkit for lung cancer screening. This symposium will focus on providing practical operational tools to promote implementation of and best practices in lung cancer screening programs.

Chairing: C.C. Thomson, MD, MPH, Cambridge, MA
R.S. Wiener, MD, MPH, Boston, MA
P.J. Mazzone, MD, MPH, Cleveland, OH

- 9:15 Welcome**
C.C. Thomson, MD, MPH, Cambridge, MA
- 9:20 Implementing Lung Cancer Screening: Promise and Pitfalls of Translating Evidence to Practice**
R.S. Wiener, MD, MPH, Boston, MA
- 9:30 ATS/ALA Implementation Guide and Toolkit for Lung Cancer Screening**
C.C. Thomson, MD, MPH, Cambridge, MA
- 9:40 Lung Cancer Screening Program Development: The Importance of a Steering Committee to Guide the Way**
A. McKee, MD, Burlington, MA
- 9:55 Patient Selection and Promoting Lung Cancer Screening Among PCPs: Getting It Right**
C.G. Slatore, MD, Portland, OR
- 10:10 Operational Toolkit for Image Acquisition and Radiology Reporting in Lung Cancer Screening Programs**
K. Sandler, MD, Nashville, TN
- 10:25 A Tough Act To Follow: Pulmonary Nodules Detected by Lung Cancer Screening**
M.K. Gould, MD, MS, Pasadena, CA
- 10:40 Shared Decision Making, Smoking Cessation, and Promoting Health Equality in Lung Cancer Screening Programs**
A. Borondy-Kitts, MS, MPH, Burlington, MA
- 11:00 Wrap Up and Discussion**
P.J. Mazzone, MD, MPH, Cleveland, OH

MINI SYMPOSIUM

A14 LUNG IMMUNOLOGY IN HEALTH AND DISEASE

9:15 a.m. - 11:15 a.m. MARRIOTT MARQUIS SAN DIEGO MARINA
Grand Ballroom 5-6 (North Tower, Lobby Level)

Chairing: P.A. Verhoef, PhD, MD, Chicago, IL
J.L. Cho, MD, Boston, MA

Oral Presentations

- 9:15 Origin and Potentiation of Type 2 Innate Lymphoid Cells in the Lung/J. Lee, C. Schneider, J. Nussbaum, H.-E. Liang, R. Ricardo-Gonzalez, L. Smith, S. Villeda, R.M. Locksley, San Francisco, CA, p.A1001**
- 9:30 ILC2s and Eosinophils Protect Against Staphylococcus Aureus Induced Sepsis/P. Krishack, T. Louviere, A.I. Sperling, P.A. Verhoef, Chicago, IL, p.A1002**
- 9:45 Pulmonary Lymphatics Regulate Immune Cell Trafficking and Lung Injury/H. Outtz Reed, Philadelphia, PA, p.A1003**
- 10:00 Cytometry Time-of-Flight Reveals Novel Human Alveolar Macrophage Subtypes/E.D. Morrell, A. Wiedman, S.A. Long, S.A. Gharib, T.E. West, S.J. Skerrett, M.M. Wurfel, C. Mikacenic, Seattle, WA, p.A1004**
- 10:15 Characterization of CD28null T Cells in Idiopathic Pulmonary Fibrosis/D.M. Habel, M. Espindola, C. Kitson, A.V. Azzara, A.L. Coelho, C.M. Hogaboam, Los Angeles, CA, p.A1005**
- 10:30 Foxp3+Regulatory T Cells Exert Transcriptional Changes in Type II Alveolar Epithelial Cells During Resolution of Acute Lung Injury/J.R. Mock, M.K. Tune, C.F. Dial, H. Dang, C.M. Doerschuk, Chapel Hill, NC, p.A1006**
- 10:45 The Differential Regulation of Monocyte Derived and Tissue Resident Alveolar Macrophages by mTORC2 Promotes Lung Fibrosis/M.R. Horton, S. Collins, M.-H. Oh, Y. Chan-Li, J. Powell, Baltimore, MD, p.A1007**
- 11:00 CD141+ Conventional Dendritic Cells Distinguish Allergic Asthmatics from Allergic Controls/J. Alladina, R.A. Rahimi, J.W. Griffith, J.E. Gillis, R.S. Harris, D.L. Hamilos, A.D. Luster, B.D. Medoff, J.L. Cho, Boston, MA, p.A1008**

MINI SYMPOSIUM

A15 ICS IN COPD: THE PENDULUM KEEPS SWINGING

9:15 a.m. - 11:15 a.m. SAN DIEGO CONVENTION CENTER
Room 14 A-B (Mezzanine Level)

Chairing: A. Roche, MD, Paris, France
N. Lugogo, MD, Ann Arbor, MI
N.A. Hanania, MD, MS, Houston, TX

Oral Presentations

- 9:15 Withdrawal of Inhaled Corticosteroids from COPD Patients Inhaling Long-Term Triple Therapy: The SUNSET Study/K.R. Chapman, J. Hurst, S.-M. Frent, M. Larbig, R. Fogel, T. Guerin, D. Banerji, F. Patalano, P. Goyal, P. Pfister, K. Kostikas, J.A. Wedzicha, Toronto, Canada, p.A1009**
- 9:30 Detection of Biomarkers of Steroid Response in COPD (De-Stress Study)/Y. Yamaji, K. Oishi, S. Uehara, K. Hamada, R. Suetake, K. Ito, M. Asami, N. Edakuni, T. Hirano, K. Matsunaga, Ube, Japan, p.A1010**

- 9:45 Real World Treatment Patterns of Inhaled Triple Therapy (TT) Among Patients with Chronic Obstructive Pulmonary Disease (COPD) in United Kingdom (UK) General Practice/L. Sansbury, C. Bains, S. Landis, Collegetown, PA, p.A1011**
- 10:00 Dual Bronchodilation Vs Triple Therapy in the Real-Life DACCORD Study/R. Buhl, C.-P.P. Criece, P. Kardos, N. Lossi, K. Kostikas, H. Worth, C. Vogelmeier, Mainz, Germany, p.A1012**
- 10:15 Single Inhaler Extrafine Triple Therapy Reduces Clinically Important Deterioration (CID) in COPD Compared to Indacaterol/Glycopyrronium: Post-Hoc Analysis of the TRIBUTE Study/M. Scuri, D. Singh, L.M. Fabbri, A. Guasconi, S. Vezzoli, H. Prunier, A. Muraro, S. Petruzzelli, A. Papi, Parma, Italy, p.A1013**
- 10:30 Single Inhaler Triple-Therapy (ICS/LAMA/LABA) Versus Dual-Therapy (ICS/LABA or LAMA/LABA) in Patients with COPD at Risk of Exacerbations: Efficacy and Safety Results of the Phase III IMPACT Trial/D.A. Lipson, F. Barnhart, N. Brealey, N.C. Day, J. Brooks, G. Criner, M.T. Dransfield, D.M.G. Halpin, M.K. Han, C.E. Jones, S. Kilbride, P. Lange, D.A. Lomas, F.J. Martinez, D. Singh, M. Tabberer, R.A. Wise, S.J. Pascoe, King of Prussia and Philadelphia, PA, p.A1014**
- 10:45 Reduction in All-Cause Mortality with Single Inhaler Triple Therapy (FF/UMEC/VI) Versus Dual Therapy (FF/VI and UMEC/VI) in Symptomatic Patients with COPD: Prespecified Analysis of the Phase III IMPACT Trial/D.A. Lipson, F. Barnhart, N. Brealey, N.C. Day, J. Brooks, G. Criner, M.T. Dransfield, D.M.G. Halpin, M.K. Han, C.E. Jones, S. Kilbride, P. Lange, D.A. Lomas, F.J. Martinez, D. Singh, M. Tabberer, R.A. Wise, S.J. Pascoe, King of Prussia and Philadelphia, , p.A1015**
- 11:00 Inhaled Corticosteroids in COPD and the Risk of Lung Cancer/J.H. Lee, S.J. Kim, Y.M. Lee, E. Ha, Seoul, Korea, Republic of, p.A1016**

MINI SYMPOSIUM

A16 AIR POLLUTION AND PEDIATRIC ASTHMA

9:15 a.m. - 11:15 a.m. SAN DIEGO CONVENTION CENTER

Room 30 A-B (Upper Level)

Chairing: F.D. Gilliland, MD, PhD, Los Angeles, CA
S. Bose, MD, MPH, New York, NY

Oral Presentations

- 9:15 Omega-3 and Omega-6 Fatty Acid Intake Modifies Response to Indoor Air Pollution in Children with Asthma/E. Brigham, M.C. McCormack, H. Woo, J. Rice, K. Koehler, T. Vulcain, T.D. Wu, S.S. Biswal, K. Sudini, A. Koch, C. Hanson, S. Sangita, F. Kolahdooz, S. Bose, K. Romero, G.B. Diette, N.N. Hansel, Baltimore, MD, p.A1017**
- 9:30 Vitamin D Status Modifies Response to Indoor Air Pollution in Urban Children with Asthma/S. Bose, M.C. McCormack, H.S. Woo, K. Romero, E. Brigham, K. Koehler, B. Detrick, G.B. Diette, N.N. Hansel, Baltimore, MD, p.A1018**
- 9:45 Reduced Asthma Incidence in Children following Decreased Nitrogen Dioxide Levels in Southern California/E. Garcia, K.T. Berhane, T. Islam, R. McConnell, R. Urman, Z. Chen, F.D. Gilliland, Los Angeles, CA, p.A1019**

- 10:00 Adverse Effects of Annual Fluctuations in Air Pollution on FeNO in Children: A Longitudinal Study/Y. Zhang, K. Berhane, S.P. Eckel, P. Muchmore, N.B.-A. Molshatzki, E.B. Rappaport, W.S. Linn, R. Habre, F.D. Gilliland, Salt Lake City, UT, p.A1020**
- 10:15 Association of Air Pollution with Incidence of Asthma, Allergic Rhinitis and Eczema: 10-Year Follow-Up of the Toronto Child Health Evaluation Questionnaire (T-CHEQ) Study/T.M. To, N. Gray, J. Zhu, D. Stieb, S.D.M. Dell, Toronto, Canada, p.A1021**
- 10:30 Role of Socio-Economic Status as a Modifier of Air Pollution and Asthma Control in a Population-Based Cohort of Peruvian Children/K. Romero, S. Pollard, K. Psoter, C. Tarazona-Meza, S. Bose, W. Checkley, N.N. Hansel, Lima, Peru, p.A1022**
- 10:45 In Utero Household Air Pollution Exposure Is Associated with Reduced Pulmonary Function in Infants/A. Lee, S. Kaali, P.L. Kinney, R. Delmini, A. Quinn, J. Opoku-Mensah, K. Burkart, K. Asayah, A. Yawson, S. Chillrud, E.B. Kaali, D. Jack, K.-P. Asante, New York, NY, p.A1023**
- 11:00 Household Air Pollution Exposure and Mitochondrial DNA Copy Number in Cord Blood: Identifying Sensitive Windows and Sex-Specific Effects/S. Kaali, D. Jack, R. Delimini, S. Chillrud, J. Opoku-Mensah, K. Burkart, E. Adeniji, A. Quinn, A. Yawson, B. Wylie, E. Boamah-Kaali, P.L. Kinney, K. Asayah, A. Baccarelli, K.P. Asante, A. Lee, Kintampo, Ghana, p.A1024**

CAROLE L. MARCUS MEMORIAL MINI SYMPOSIUM

A17 HONORING CAROLE MARCUS: ADVANCES IN PEDIATRIC SLEEP MEDICINE

9:15 a.m. - 11:15 a.m. SAN DIEGO CONVENTION CENTER

Room 1 A-B (Upper Level)

Chairing: S.L.D. Ward, MD, Los Angeles, CA
J.L. Allen, MD, Philadelphia, PA
I. Narang, MD, Toronto, Canada
D. Gozal, MD, MBA, Chicago, IL

Featured Speaker

9:15 In Memory of Carole Marcus/S.L.D. Ward, MD, Los Angeles, CA,

Oral Presentations

- 9:30 Inspiratory Flow-Limitation and Duty Cycle During Wakefulness in Children with Obstructive Sleep Apnea Syndrome/I. Tapia, M.K. Younes, J. Kim, C.L. Marcus, Philadelphia, PA, p.A1025**
- 9:45 Neurotrophin Overexpression in Serum of Neonates as a Predictor of Apnea of Prematurity and Associated Events' Frequency of Occurrence/V. Munjapara, M. Alejandro-Rodriguez, F. Rezaee, S. Worley, A. Tang, G. Piedimonte, Cleveland, OH, p.A1026**
- 10:00 Plasma Exosomes in School Age Children with OSA Disrupt In Vitro Blood Brain Barrier Integrity and Endothelial Cell Wound Healing/A. Khalyfa, D. Gozal, Z. Qiao, L. Kheirandish-Gozal, Chicago, IL, p.A1027**

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- 10:15 Plant Gain in Children with Obstructive Sleep Apnea and the Effect of Adenotonsillectomy/K. Armoni Domany, L. Nava-Guerra, K. McConnell, M.C.K. Khoo, Y. Xu, M. Hossain M, R.S. Amin, Cincinnati, OH, p.A1028**
- 10:30 Facial Phenotype in Children and Young Adults with Rapid-Onset Obesity with Hypothalamic Dysfunction, Hypoventilation, and Autonomic Dysregulation (ROHHAD): Quantitative Pattern of Dismorphology/L. Martinez, A. Zhou, E. Dunne, C.M. Rand, H.J. Binns, D.E. Weese-Mayer, Chicago, IL, p.A1029**
- 10:45 Asthma Is a Predictor of Continuous Positive Airway Pressure (CPAP) Initiation in Children with Severe Obstructive Sleep Apnea (OSA) Independent of Relevant Clinical and Demographic Variables/S. Kilaikode, M. Weiss, R. Megalaa, G.F. Perez, G.R. Nino, Washington, DC, p.A1030**
- 11:00 Can Standard Deviation of Overnight Pulse Oximetry Be Used to Screen Childhood Obstructive Sleep Apnea?/S. Warapongmanupong, A. Preuthippan, Bangkok, Thailand, p.A1031**

MINI SYMPOSIUM

A18 COPD: EARLY DISEASE AND HOW TO FIND IT

9:15 a.m. - 11:15 a.m.

SAN DIEGO CONVENTION CENTER

Room 33 A-C (Upper Level)

Chairing: J.C. Woods, PhD, Cincinnati, OH
E.A. Hoffman, PhD, Iowa City, IA
M. Kirby, PhD, Vancouver, Canada

Oral Presentations

- 9:15 Relationship Between Diffusion Capacity and Small Airway Abnormality in COPD/Gene/R. Criner, C. Martinez, C.R. Hatt, C.J. Galbán, B.D. Ross, E.A. Kazerooni, D.A. Lynch, M.C. McCormack, R. Casaburi, N.R. MacIntyre, B.J. Make, F.J. Martinez, V. Kim, M.K. Han, Ann Arbor, MI, p.A1032**
- 9:30 Imaging-Based Cluster Analysis Using Novel Metrics in COPD for Sub-Phenotyping of Current Smokers: SPIROMICS/B. Haghighi, S. Choi, J. Choi, F. Li, E.A. Hoffman, A.P. Comellas, J.D. Newell, R.G. Barr, M.K. Han, E.R. Bleeker, C.B. Cooper, D. Couper, N.N. Hansel, R.E. Kanner, E. Kazerooni, F.J. Martinez, W.K. O'Neal, R. Paine, S.I. Rennard, P. Woodruff, C.-L. Lin, Iowa City, IA, p.A1033**
- 9:45 Silent Zones of Lung Disease in Active Smokers/S. Bodduluri, S.E. Gerard, J.M. Reinhardt, E.A. Hoffman, J.D. Newell, H.P. Nath, M.T. Dransfield, S.P. Bhatt, Birmingham, AL, p.A1034**
- 10:00 Characterizing Parenchymal Destruction in Mild to Moderate Chronic Obstructive Pulmonary Disease (COPD) Using Micro-Computed Tomography (MicroCT) Imaging and Stereology/A. Hsieh, S. Booth, J.C. Hogg, D.M. Vasilescu, T.-L. Hackett, Vancouver, Canada, p.A1035**

- 10:15 Multi-Detector Computed Tomography Based Parametric Response Mapping Correlates with Small Airway Remodeling in COPD/D.M. Vasilescu, N. Marchetti, C.J. Galban, C.A. Meldrum, R.M. Reddy, A. Lagstein, B.D. Ross, C. Martinez, W.W. Labaki, J.L. Curtis, E. Kazerooni, G.J. Criner, F.J. Martinez, J.C. Hogg, M.K. Han, Vancouver, Canada, p.A1036**
- 10:30 Small Vessel Arterial Blood Volume but Not Venous Predicts Outcomes in Smokers/R. San Jose Estepar, P. Nardelli, G. Kinney, K. Young, J.E. Hokanson, F.N. Rahaghi, G.R. Washko, Boston, MA, p.A1037**
- 10:45 Elevated Lung Clearance Index in Smokers Without COPD/M. Funke, F. Singer, J. Frey, S. Nyilas, T. Schreder, T.K. Geiser, P. Latzin, Bern, Switzerland, p.A1038**
- 11:00 Reduced FVC/TLC Ratio in Preserved Ratio Impaired Spirometry (PRISm) Is Associated with Symptoms, Increased Mortality, and Progression to COPD/S. Fortis, A.P. Comellas, V. Kim, R. Casaburi, J.E. Hokanson, J.D. Crapo, E.K. Silverman, E.S. Wan, Iowa City, IA, p.A1039**

MINI SYMPOSIUM

A19 SLEEP DISORDERED BREATHING, CARDIOVASCULAR DISEASE, AND MORTALITY

9:15 a.m. - 11:15 a.m.

SAN DIEGO CONVENTION CENTER

Room 3 (Upper Level)

Chairing: H.K. Yaggi, MD, New Haven, CT
M. Twery, PhD, Bethesda, MD
N.M. Punjabi, MD, PhD, Baltimore, MD

Oral Presentations

- 9:15 Morbidity and Mortality of Chronic Heart Failure (CHF) Patients with Central Sleep Apnoea (CSA) Treated by Adaptive Servoventilation (ASV): Interim Results of FACE Cohort Study/J.-L. Pepin, R. Tamisier, T. Damy, F. Goutorbe, A. Palot, P.A. Levy, J.-M. Davy, F. Lavergne, L. Morin, M.-P. D'ortho, Grenoble, France, p.A1040**
- 9:30 Long-Term Mortality in Sleep Apnea (SA) Patients Treated with Positive Airway Pressure (PAP) Therapy: Analysis of a Large German Healthcare Database/H. Woehrle, O. Oldenburg, P. Young, I. Fietze, M. Arzt, J. Ficker, C. Bischoff-Everding, H. Teschler, Baden-Wuerttemberg, Germany, p.A1041**
- 9:45 CPAP Vs NIV for Long Term Treatment of Obesity Hypoventilation Syndrome: The Results of The Pickwick Randomized Controlled Trial/M.A. Sanchez Quiroga, B. Mokhlesi, J. Corral, M.L. Alonso, E. Ordaz, M.F. Troncoso, M. Gonzalez, S. Lopez-Martin, J.M. Marin, S. Marti, T. Diaz Cambriles, E. Chiner, F. Aizpuru, C. Egea, J.F. Masa, Plasencia, Spain, p.A1042**
- 10:00 Prolonged Circulatory Delay and Bradycardia in Response to Sleep Disordered Breathing Events Predict Mortality Among Older Men/A. Azarbarzin, S.A. Sands, K.L. Stone, L.T. Taranto-Montemurro, L. Messineo, S. Ancoli-Israel, K.E. Ensrud, S. Purcell, D.P. White, A. Wellman, S.S. Redline, Boston, MA, p.A1043**

- 10:15 All-Night CPAP Treatment Reduces 24-Hour Resting Heart Rate in Prediabetes: A Randomized Placebo-Controlled Study/S. Pamidi, F. Chapotot, K. Wroblewski, A. Khalyfa, M. Stepien, K. Sharif-Sidi, G. Tremblay, H. Whitmore, E. Tasali, Montreal, Canada, p.A1044**
- 10:30 Effects of Overnight Supplemental Oxygen on Morning Blood Pressure in a Randomized Controlled CPAP Withdrawal Trial in Patients with OSA/N. Petousi, C.D. Turnbull, D. Sen, M. Kohler, J.R. Stradling, Oxford, United Kingdom, p.A1045**
- 10:45 Relation of Central Sleep Apnea to B-Type Natriuretic Peptide in Chronic Heart Failure/A. Shima, T. Inami, N. Kitomi, T. Ikeda, Y. Miyauchi, Y. Seino, W. Shimizu, Chiba, Japan, p.A1046**
- 11:00 Effect of Circulating Exosomes on In-Vitro Endothelial Function and Wound Healing in OSA Patients in the EPIOSA Trial: 1-Year CPAP Treatment Vs. No Treatment/A. Khalyfa, J. Marin, Z. Qiao, D. Sanz, L. Kheirandish-Gozal, D. Gozal, Chicago, IL, p.A1047**
- 906 Cigarette Smoke Associated Carbon Black and Cadmium Are Synergistic for the Development of Pulmonary Fibrosis Through Oxidative Stress-Dependent Phosphorylation of AKT and Vimentin/F.J. Li, R. Suroli, H. Li, Z. Wang, G. Liu, V.J. Thannickal, V.B. Antony, Birmingham, AL, p.A1053**
- 907 Evidence for an Organizing Adaptive Immune Response in Explant Lungs with Chronic Hypersensitivity Pneumonitis/L. De Sadeleer, A. Van Herck, S. Everaerts, E. Lammertyn, G.M. Verleden, B. Vanaudenaerde, J.E. McDonough, S. Verleden, W. Wuyts, Leuven, Belgium, p.A1054**
- 908 Safety and Suitability of a Direct Thrombin Inhibitor, Dabigatran Etxilate, in Scleroderma-Associated Interstitial Lung Disease (SSc-ILD) Patients/R. Silver, I. Atanelishvili, T. Akter, K. Kajdasz, D. Wilson, P. Nietert, J.T. Huggins, K.B. Highland, G. Bogatkevich, Charleston, SC, p.A1055**
- 909 Extended Pharmacodynamic and Immunomodulatory Activity of the MAPKAP Kinase II (MK2) Inhibitor MMI-0100 Demonstrated in a Phase 1 Lipopolysaccharide (LPS) Challenge Study Conducted in Subjects Who Smoke/C. Lander, C. Peterson, A. Panitch, A. Lubner, R. Gerwien, G. Nicholson, B. Leaker, Morristown, NJ, p.A1056**
- 910 Initial Pulmonary Function Patterns Define Clinical Characteristics in Veterans Affairs Cohort with Interstitial Lung Disease/A. Reihman, A. Bedoya, R.A. Pleasants, J.C. Boggan, L. Howard, R. Kundlich, K.E. Welty-Wolf, R.M. Tighe, Durham, NC, p.A1057**
- 911 Long Term Pulmonary Function in a Cohort of Interstitial Lung Disease Patients Positive to Antisynthetase Antibodies/J. Rojas-Serrano, M.E. Mejia, M.I. Gonzalez-Perez, J.G. Mejia-Hurtado, R. Falfan-Valencia, D.I. Perez-Roman, I. Buendia, H. Mateos Toledo, Mexico City, Mexico, p.A1058**
- 912 Serum Lipids and Lipoproteins Quantified by NMR Spectroscopy Are Correlated with FVC, 6MWD and GAP Index in Idiopathic Pulmonary Fibrosis/A.V. Barochia, M. Kaler, E.M. Gordon, D. Figueroa, N.A. Weir, M. Lemma, M. Sampson, A.T. Remaley, S. Barnett, G.M. Grant, S.D. Nathan, S.J. Levine, Bethesda, MD, p.A1059**
- 913 The Composition and Diversity of Pulmonary Microbiota Correlate with Host Alveolar Inflammation in Idiopathic Pulmonary Fibrosis/D.N. O'Dwyer, S.L. Ashley, M. Xia, S. Murray, K.C. Norman, M.L. Salisbury, K.B. Arnold, K.R. Flaherty, M.K. Han, J. Erb-Downward, B.B. Moore, R.P. Dickson, Ann Arbor, MI, p.A1060**
- 914 Tlr5 Protects from Pulmonary Fibrosis by Promoting Epithelial Survival After Injury: Interaction with the Microbiome/S. Hussain, C.C.G. Johnson, M. Xiaoling, C. Trempus, A. Rice, A. Gudkov, I.V. Yang, D.A. Schwartz, Y. Zhang, S. Garantziotis, Research Triangle Park, NC, p.A1061**
- 915 The Effect of Nintedanib in a Mouse Model of Severe Allergic Lung Inflammation and Remodeling/S.L. Wollin, C. Tomsic, K.J. Erb, Biberach, Germany, p.A1062**
- 916 The Autoimmune Repertoire in Idiopathic Pulmonary Fibrosis/E. Wiklundh, C. Hellstrom, C.H. Van Moorsel, J.C. Grutters, P. Nilsson, B. Crestani, Stockholm, Sweden, p.A1063**

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

A21 CLINICAL AND MECHANISTIC STUDIES OF LUNG FIBROSIS

**9:15 a.m. - 11:15 a.m. MARRIOTT MARQUIS SAN DIEGO MARINA
Pacific Ballroom 15-17 (North Tower, First Floor)**

Abstract Summaries 9:15-9:45

Viewing/Discussion 9:45-11:15

Chairing: R. Zemans, MD, Ann Arbor, MI
O. Eickelberg, MD, Denver, CO
S. Montesi, MD, Boston, MA

- 901 The Redox-Sensitive Cation Channel TRPM2 Regulates TGF- β -Induced Fibroblast Activation and Protects Against Bleomycin-Induced Pulmonary Fibrosis/D. Botta, R. Peng, G. Tyagi, M.D. Schultz, M.L. Curtiss, T. Dadali, J.E. Phillips, P. Harris, L. Renteria, L. Burns, C.S. Stevenson, F.E. Lund, C.M.T. Bauer, Birmingham, AL, p.A1048**
- 902 Characterizing the Role of Novel Protein, P311, in Pulmonary Repair Mechanisms/G.M. Barron, F.F. Duan, G.M. Mutlu, A.Y. Meliton, L. Schuger, Chicago, IL, p.A1049**
- 903 High-Dimensional Single -Cell Mass Cytometry (CyTOF) Analysis of Peripheral Blood Mononuclear Cells (PBMCs) from IPF Patients/Q. Li, J. Sun, K. Raddassi, H. Pan, X. Yan, E. Herzog, N. Kaminski, J.D. Herazo-Maya, New Haven, CT, p.A1050**
- 904 Deletion of Cannabinoid Receptor 1 (CB₁R) in Myeloid Cells Prevents the Progression of Bleomycin-Induced Pulmonary Fibrosis in Mice/N.J. Coffey, J.K. Park, T. Jourdan, T. Yokoyama, W.A. Gahl, M.C.V. Malicdan, R. Cinar, G. Kunos, Rockville, MD, p.A1051**
- 905 Sialidase Inhibitors Attenuate Pulmonary Fibrosis in a Mouse Model/T.R. Karhadkar, D. Pilling, N. Cox, R.H. Gomer, College Station, TX, p.A1052**

- 917 Pre-Clinical Characterization of iMod.Fc, an Immune-Modulatory Therapeutic with Potentially Broad Application in Interstitial Lung Diseases/K. Ogilvie, Q.H. Xu, M.-H.T. Do, R.A. Adams, D. Lee, M. Thomas, L. Nangle, A. Cubitt, D. King, J.D. Mendlein, San Diego, CA, p.A1064**
- 918 Activation of the NLRP3 Inflammasome in the Lung Epithelium Drives the Pathogenesis of Rheumatoid Arthritis/J. Tsui, O. Estrada, K. Wang, C. Law, Z. Deng, S. Chung, W. Robinson, J. Sokolove, J. Buckner, A. Shum, San Francisco, CA, p.A1065**
- 919 Role of Lung Apolipoprotein A-I in Hypersensitivity Pneumonitis/Y. Inoue, Y. Miyazaki, Y. Nukui, N. Inase, Tokyo, Japan, p.A1066**
- 920 Muc5b Expression Is Increased in a Murine Model of Hypersensitivity Pneumonitis/T. Okamoto, C.M. Evans, C.E. Hennessy, M.I. Schwarz, E. Dobrinskikh, A.P. Fontenot, I.V. Yang, D.A. Schwartz, Aurora, CO, p.A1067**
- 921 Fluorofenidone Attenuates SiO₂ Induced Pulmonary Fibrosis in Mice Via Inhibiting IL-1 β Signaling Pathway/J. Meng, T. Luo, Changsha, China, p.A1068**
- 922 Identification of Novel Biomarkers for Lymphangioleiomyomatosis by Proteomics from Serum Exosomes/T. Takimoto, Y. Takeda, T. Shiromizu, R. Narumi, T. Koba, T. Matsuki, M. Kuroyama, H. Kida, M. Hirose, Y. Inoue, T. Tomonaga, A. Kumanogoh, Suita, Japan, p.A1069**
- 923 Effect of Genotype on Disease Course in Idiopathic Pulmonary Fibrosis Despite Antifibrotic Treatment/M. Sterclova, M. Petrek, A. Kishore, J. Skibova, M. Vasakova, Prague, Czech Republic, p.A1070**
- 924 Whole Exome Sequencing to Identify a Novel Mutation in SFTPA2 Associated with Familial Idiopathic Pulmonary Fibrosis/L. Liu, H. Luo, Changsha, China, p.A1071**
- 925 Pseudoneutropenia in Lymphangioleiomyomatosis Patients Receiving Sirolimus/V. Gopalakrishnan, A. Jones, P.A. Julien-Williams, T.R. Machado, R.L. Danner, J.J. Swigris, R. Paine, J. Moss, Chicago, IL, p.A1072**
- 402 Electronic Health Record Patient Portal Access for Low Income and Minority Adults with Uncontrolled Asthma/A.J. Apter, T. Bryant-Stephens, L. Perez, K.H. Morales, J.T. Howell, A. Nardi, X. Han, M. Canales, N. Lampkin, H. Klusaritz, M. Rogers, A.R. Localio, Philadelphia, PA, p.A1074**
- 403 Barriers and Facilitators to the Implementation of Supervised Asthma Therapy in School: A Qualitative Study of School Nurse Perspectives/M. Trivedi, S. Hoque, K. Biebel, N. Byatt, M. Rosal, L. Pbert, Worcester, MA, p.A1075**
- 404 The Use of a Mobile Pediatric Asthma Clinic Improves Asthma Outcomes for Children in Atlanta's Inner City Schools/M.L. Hazen, M.N. Cargill, V.O. Tuminello, A.M. Brooks, Atlanta, GA, p.A1076**
- 405 Individual and Neighborhood Factors Associated with Undiagnosed Asthma in a Large Cohort of Urban Adolescents/J.M. Bruzzese, S. Kingston, E. Bruzelius, L. Poghosyan, New York, NY, p.A1077**
- 406 Reducing Asthma Disparities by Connecting Treatment Across the Sectors Where Children Live, Learn, Play and Pray/T. Bryant-Stephens, C. Kenyon, R. Localio, K. Toussaint, M. Bryan, A.J. Apter, C. Wolk, Z. Cidav, M. Garner, Y. Skinner Stewart, N. Minto, R. Beidas, Philadelphia, PA, p.A1078**
- 407 Factors Associated with In-Home Secondhand Smoke Exposure from External Sources in Urban Children with Asthma/T.D. Wu, M. Eakin, C.S. Rand, E. Brigham, G.B. Diette, N.N. Hansel, M.C. McCormack, Baltimore, MD, p.A1079**
- 408 A Pilot Randomized, Controlled Trial of Financial Incentives for Reducing Tobacco Smoke Exposure Among Children with Asthma/M.S. Jassal, M. Stitzer, M. Zhu, C. Lewis-Land, A.M. Butz, Baltimore, MD, p.A1080**
- 409 Cultural and Contextual Mechanisms Relevant to Asthma and Physical Activity in Urban Children/D. Koinis-Mitchell, Providence, RI, p.A1081**
- 410 The Feasibility and Acceptability of a Tailored Physical Activity Intervention for Sedentary African American Women with Asthma/S.M. Nyenhuis, G. Balbim, S. Kitsiou, J. Ma, D. Marquez, N. Shah, J. Wilbur, L. Sharp, Chicago, IL, p.A1082**
- 411 Effects of Out-of-Pocket Costs on Patient Adherence with Asthma Medicines/H.K. Reddel, T.L. Laba, S. Jan, G.B. Marks, A. Flynn, E. Roughead, A. Heaney, K. Lembke, N. Zwar, Glebe, Australia, p.A1083**
- 412 Does Adherence to Inhaled Therapy Change Following Initiation of Mepolizumab in the Treatment of Severe Asthma/G. d'Ancona, L. Green, M. Fernandes, M. Bolton, C. Roxas, L. Osman, E. Lyons, D.J. Jackson, B.D. Kent, London, United Kingdom, p.A1084**
- 413 You Think You Know Inhalers?/H. Koneru, Y.B. Mehta, S.T. Devine, L. Holt, M.Y. Sledgen, S. Penupolu, Danville, PA, p.A1085**
- 414 Macrolides for the Treatment of Asthma - An Updated Systematic Review and Meta-Analysis/F.P. Wang, X.J. Tang, L. Sun, C.Q. Wei, W.J. Zhu, H. Liu, L.R. Xu, H. Mao, F. Luo, Chengdu, China, p.A1086**
- 415 Sex Differences in Health Services Use and Medication Prescription in Older Adults with Asthma in Ontario, Canada/N. Gray, J. Zhu, A.S. Gershon, T. To, Toronto, Canada, p.A1087**

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

A22 NOVEL RESEARCH ON ASTHMA SELF MANAGEMENT TO REDUCE HEALTH DISPARITIES

9:15 a.m. - 11:15 a.m. SAN DIEGO CONVENTION CENTER

Room 11 A-B (Upper Level)

Abstract Summaries 9:15-9:45

Viewing/Discussion 9:45-11:15

Chairing: A. Volerman, MD, Chicago, IL
M. Eakin, PhD, Baltimore, MD
B.J. Sheares, MD, MS, New York, NY

401 Impact of a Pharmacist-Delivered Educational Intervention on Fractional Exhaled Nitric Oxide in Patients with Asthma/O. Cornia, S. Demarche, F. Schleich, R. Louis, T. Van Hees, Liege, Belgium, p.A1073

- 416 Differences in Illness Beliefs Among Obese and Non-Obese Patients with Asthma/J.P. Wisnivesky, F. Holguin, P.J. Busse, E. West, E. Goodman, V.L. Smith, M.B. Conroy, A.D. Federman, New York, NY, p.A1088**
- 417 Relationship Between Sleep Quality, Asthma Control and Quality of Life in Adults with Asthma/M.K. Panigrahi, M. Padhan, P.R. Mohapatra, Bhubaneswar, India, p.A1089**
- 418 Asthma-Related Mortality and Co-Morbidities in the United States of America, 1999-2015: A Multiple Causes of Death Analysis/V. Kodadhala, J.I. Obi, A. Mehari, T. Ogundipe, P. Wessley, R. Gillum, Washington, DC, p.A1090**
- 419 The Long-Term Projection of Health and Economic Burden of Sub-Optimal Asthma Control in Canada/Z. Zafari, M. Sadatsafavi, W. Chen, M. Fitzgerald, New York, NY, p.A1091**
- 420 Primary Care Clinician Adherence with Guidelines for the Diagnosis and Management of Asthma: The National Asthma Survey of Physicians/L. Akinbami, P.M. Salo, M.M. Cloutier, K.S. Elward, J.M. Mazurek, J.C. Wilkerson, S. Williams, Hyattsville, MD, p.A7644**
- 107 Incidental Interstitial Lung Disease Identified by Lung Cancer Screening Computed Tomography Is Under Reported and Rarely Referred/J. Oldham, A.O. Adegunsoye, S. Khera, E. LaFond, I. Noth, M.E. Streck, M. Kadoch, J.H. Chung, Sacramento, CA, p.A1098**
- 108 A Global Evaluation of Agreement on the Decision to Perform Surgical Lung Biopsy Between Pulmonologists in the Setting of Diffuse Lung Disease/S.L.F. Walsh, T.M. Maher, M.R.J. Kolb, V. Poletti, R. Nusser, L. Richeldi, C. Vancheri, M.L. Wilsher, A. Antoniou, J. Behr, E. Bendstrup, K.K. Brown, L. Calandriello, T.J. Corte, V. Cottin, B. Crestani, K.R. Flaherty, I. Glaspole, J.C. Grutters, Y. Inoue, M. Kokosi, Y. Kondoh, V. Kouranos, M. Kreuter, K.A.M. Johannson, E. Judge, B.J. Ley, G. Margaritopoulos, F.J. Martinez, M. Molina Molina, A. Morais, H. Nunes, G. Raghu, C.J. Ryerson, M. Selman, P. Spagnolo, H. Taniguchi, D. Taniguchi, H. Taniguchi, S. Tomassetti, D. Valeyre, M. Wijsenbeek, W. Wuyts, D. Hansell, A.U. Wells, London, United Kingdom, p.A1099**
- 109 Serum Levels of VEGF-C Are Elevated in Sporadic but Not Tuberos Sclerosis Associated-LAM, Correlate with the Need for Supplemental Oxygen, and Impact Lung Function Response to Sirolimus/H. Wu, N.M. Nikolaidis, L.R. Young, F.X. McCormack, Cincinnati, OH, p.A1100**
- 110 Association Between Plasma Polyunsaturated Fatty Acids and Subclinical Interstitial Lung Disease: The MESA Study/J. Kim, B. Steffen, A. Podolanczuk, S. Kawut, G. Raghu, E. Hoffman, M. Tsai, R.G. Barr, D. Lederer, New York, NY, p.A1101**
- 111 Radiologic Phenotype Is a Better Predictor of Clinical Course than Clinical Diagnosis in Patients with Hypersensitivity Pneumonitis and Idiopathic Pulmonary Fibrosis/M. Salisbury, B.H. Gross, A. Chughtai, M. Sayyoub, E.A. Kazerooni, T. Gu, M. Xia, S. Murray, J.L. Myers, A. Lagstein, K.E. Konopka, E.A. Belloli, J.S.V. Sheth, E.S. White, C. Holtze, K.R. Flaherty, Ann Arbor, MI, p.A1102**
- 112 Endobronchial Optical Coherence Tomography for In Vivo Microscopic Assessment and Diagnosis of Idiopathic Pulmonary Fibrosis/L.P. Hariri, D.C. Adams, J.C. Wain, M. Lanuti, A. Muniappan, A. Sharma, T.V. Colby, M. Mino-Kenudson, E.J. Mark, R.L. Kradin, H. Goulart, K.E. Black, A.M. Tager, M.J. Suter, Boston, MA, p.A1103**
- 113 Chronic Hypersensitivity Pneumonitis: A Prospective Cohort Analysis of an Under-Recognized Clinical Entity/H. Barnes, A. Watson, S. Ellis, N. Goh, G.P. Westall, A.E. Holland, I. Glaspole, Melbourne, Australia, p.A1104**
- 114 Texture Feature Selection and Imaging Pattern Prediction of IPF Using Single Time Point High Resolution Computed Tomography Scans/G.H. Kim, Y. Shi, J. Lai, J. Mizuki, P.Y. Tseng, M. Brown, J. Goldin, Los Angeles, CA, p.A1105**
- 115 Presence of Biopsy and Geographic Region Predict Discussion at Interstitial Lung Disease Multi-Disciplinary Conference/B. Wang, J. Moore, E. Belloli, E.S. White, M. Salisbury, J.S.V. Sheth, C. Holtze, K.R. Flaherty, Ann Arbor, MI, p.A1106**
- 116 RTEL1 Mutations Are Associated with Heterogeneous Pulmonary and Extra-Pulmonary Phenotypes/R. Borie, C. Gauvain, A. Cazes, M.-P. Debray, J. Cadranet, T. Degot, P. Dieude, V. Cottin, S. Dominique, A.S. Gamez, M. Jaillot, P.A. Juge, A. Mailloux, H. Mal, H. Nunes, G. Prevot, S. Quetant, J. Traclet, Y. Uzunhan, M. Wislez, B. Wallaert, L. Stervinou Wemeau, D. Valeyre, C. Kannengiesser, B. Crestani, Paris, France, p.A1107**

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

A23 ILD: DIAGNOSIS

9:15 a.m. - 11:15 a.m. SAN DIEGO CONVENTION CENTER

Room 5 A-B (Upper Level)

Abstract Summaries 9:15-9:45

Viewing/Discussion 9:45-11:15

Chairing: D.E. Antin-Ozerkis, MD, New Haven, CT
P.L. Molyneaux, MRCP(UK), MBBS, London, United Kingdom
L. Richeldi, MD, PhD, Rome, Italy

- 101 Study of the Etiology and Outcomes in Non-Transplant Related Small Airway Disease/R. Krishna, T. Moua, Rochester, MN, p.A1092**
- 102 Differential Diagnosis of Pulmonary Alveolar Proteinosis: Lung Biopsy or Blood Test?/C. McCarthy, B.C. Carey, M. Nowell-Bostic, M. Rieman-Klingler, C. Chalk, A. Toth, M. Brelsford, H.S. Lee, T.S. Wang, J. Krischer, B.C. Trapnell, Cincinnati, OH, p.A1093**
- 103 Identifying Opportunities for Earlier IPF Diagnosis/L. Richeldi, C. Vancheri, C.J. Ryerson, I. Glaspole, K.R. Flaherty, G. Raghu, V. Cottin, T.M. Maher, A. Wilson, M.R.J. Kolb, A. Kaplan, A.M. Chisholm, A. Nibber, N. Launders, D.B. Price, Rome, Italy, p.A1094**
- 104 Respiratory Symptoms and Altered Physical Exam in Rheumatoid Arthritis Patients with Subclinical Interstitial Lung Abnormalities/L. Kawano-Dourado, M.V.Y. Sawamura, K. Bonfiglioli, F.E. Arimura, H.J. Lee, D.A.S. Rangel, C.R.R. Carvalho, T.J. Doyle, I.O. Rosas, R.A. Kairalla, Sao Paulo, Brazil, p.A1095**
- 105 Prevalence of Small Airways Diseases in Systemic Sclerosis/J.H. Yun, J. Kim, A. Podolanczuk, E.J. Bernstein, N. Patel, New York, NY, p.A1096**
- 106 Hospital Surgical Lung Biopsy Volume and Post-Operative Mortality in Interstitial Lung Disease/J. Fisher, S. Shapera, T.M. To, T.K. Marras, A.S. Gershon, S.D.M. Dell, Toronto, Canada, p.A1097**

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- 117 **Current Diagnostic Criteria Are Unable to Classify a High Proportion of Patients in a Cardiac Sarcoidosis Registry/M.L. Ribeiro Neto, E. Joyce, R. Hachamovitch, C. Jellis, A. Wimer, K.B. Highland, D. Sahoo, J.E. Khabbaza, A. Pande, A. Bindra, B.D. Southern, J.G. Parambil, D.A. Culver, Cleveland, OH, p.A1108**
- 118 **Clinical Application of Diagnostic Guidelines in Cardiac Sarcoidosis/D.M. Perlman, D. Johnson, H. Roukoz, R. Cogswell, C. Shenoy, M. Bhargava, Minneapolis, MN, p.A1109**
- 119 **Clinical Optical Molecular Imaging of Drug Engagement in the Alveoli - Sensing of MMP Activity in Interstitial Lung Diseases/A. Marshall, A.R. Akram, A.M. Smyth, A. Megja-Fernandez, B. Mills, E. Scholefield, C. Haslett, M. Bradley, N. Hirani, K. Dhaliwal, Edinburgh, United Kingdom, p.A1110**
- 120 **Pulmonary Artery Size in Interstitial Lung Disease and Pulmonary Hypertension: Association with ILD Severity and Diagnostic Utility/M. Chin, C.S. Johns, B.J. Currie, N. Weatherley, C. Elliot, S. Rajaram, C. Hill, J.M. Wild, R.A. Condliffe, D. Kiely, A. Swift, Sheffield, United Kingdom, p.A1111**
- 121 **Clinical Characteristics and Pulmonary Involvement in Anti-Melanoma Differentiation-Associated Gene 5 Positive Patients/Y. Wang, X. Du, M. Wang, Z. Liang, Chengdu, China, p.A1112**
- 122 **No Clue About Clubbing - Interobserver Agreement on the Presence of Clubbing in Interstitial Lung Diseases/C. Moor, M. Veltkamp, M. van Manen, J.R. Miedema, J.C. Grutters, M. Wijsenbeek, Rotterdam, Netherlands, p.A1113**
- 123 **Severity of Sleep Disordered Breathing in Patients with Idiopathic Pulmonary Fibrosis and Chronic Hypersensitivity Pneumonitis/R. Abdullah, J. Kent-Bramer, E.A. Renzoni, V. Kouranos, F.J. Chua, M. Kokosi, A.U. Wells, T.M. Maher, W. Man, P.L. Molyneaux, M.I. Polkey, P.M. George, London, United Kingdom, p.A1114**
- 124 **A Deep Learning Algorithm for Classifying Fibrotic Lung Disease on High Resolution Computed Tomography/S.L.F. Walsh, L. Calandriello, M. Silva, N. Sverzellati, London, United Kingdom, p.A7645**
- 701 **The MACOCHA Score Is Not Associated with Procedural Performance or Physiologic Deterioration in Critically Ill Adults Undergoing Endotracheal Intubation/D.J. Vonderhaar, M.W. Semler, J.D. Casey, A.M. Joffe, T.W. Rice, D.R. Janz, New Orleans, LA, p.A1115**
- 702 **Predictors of Hypoxemia During Endotracheal Intubation of Critically Ill Adults/A.C. McKown, J.D. Casey, D.W. Russell, A.M. Joffe, D.R. Janz, T.W. Rice, M.W. Semler, Nashville, TN, p.A1116**
- 703 **Treatment with The MetaNeb® System in High-Risk Post-Surgical Patients Reduced Hospital and Intensive Care Unit Length of Stay/T.N. Liesching, T. Huynh, M. Cereda, G.B. Diette, Burlington, MA, p.A1117**
- 704 **Trends in Intensive Care Admissions for Respiratory Infections in the Elderly in French Hospitals 2006-2015/A. Guillon, L. Laporte, C. Hermetet, Y. Jouan, C. Gaborit, M. Si-Tahar, P.-F. Dequin, L. Grammatico-Guillon, Tours, France, p.A1118**
- 705 **Differences Between ARDS Patients Transferred to Tertiary Care Centers Compared to Direct Admissions: Results from the Severe ARDS Generating Evidence (SAGE) Study/R.R. Bartz, Durham, NC, p.A1119**
- 706 **Clinical Characteristics of Never Smokers, Former Smokers, and Current Smokers in a Cohort of Critically Ill Patients with Acute Respiratory Distress Syndrome/S. Ni, M.A. Matthay, K. Liu, A.D. Gomez, K. Kangelaris, F. Moazed, H. Zhuo, K. Delucchi, M. Lippi, A. Jauregui, K. Vessel, A. Belzer, S. Ke, T.J. Deiss, T. Liu, C.S. Calfee, San Francisco, CA, p.A1120**
- 707 **The Acuity and Dosage of Cigarette Smoke Exposure and the Risk of Developing the Acute Respiratory Distress Syndrome After Blunt Trauma/F. Moazed, C.M. Hendrickson, A. Conroy, M. Cohen, N. Benowitz, C.S. Calfee, San Francisco, CA, p.A1121**
- 708 **Incidence and Outcomes of ARDS in Mechanically Ventilated Cirrhotic Patients at a Large Academic Medical and Transplant Center/R. Boente, G.T. Bosslet, A. Sheikh, M. Ghabril, Indianapolis, IN, p.A1122**
- 709 **Acute Respiratory Distress Syndrome in Neutropenic Patients: A Retrospective Analysis of Randomized Controlled Clinical Trials/D. Price, C. Oromendia, E.J. Schenck, I.I. Siempos, A.M.K. Choi, New York, NY, p.A1123**
- 710 **Acute Respiratory Distress Syndrome (ARDS) Without Identifiable Risk Factors: A Secondary Analysis of the ARDS Network Trials/J.S. Harrington, E.J. Schenck, C. Oromendia, A.M.K. Choi, I.I. Siempos, New York, NY, p.A1124**
- 711 **A Phase I Trial of Low Dose Inhaled Carbon Monoxide for the Treatment of Sepsis-Induced ARDS/L.E. Fredenburgh, M.A. Perrella, D. Barragan Bradford, D.R. Hess, E. Peters, R.S. Harris, K.E. Welty-Wolf, B.D. Kraft, J.D. Davies, A. Higuera, D.A. Berlin, S. LaGambina, M. Bouthot, A.I. Sullivan, P.F. Nuccio, M.T. Kone, M. Malik, M.A. Pabon Porras, E.I. Finkelstein, R. Maurer, S. Hurwitz, C.A. Piantadosi, R.M. Baron, B.T. Thompson, A.M.K. Choi, Boston, MA, p.A1125**
- 712 **Depth of Paralysis in Patients Receiving Cisatracurium for Severe Acute Respiratory Distress Syndrome/E. Munroe, E. Gray, S. Sokol, B.K. Patel, H. Bullard, A. Pohlman, J.B. Hall, J.P. Kress, Chicago, IL, p.A1126**

SUNDAY MORNING

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

A24 CRITICAL CARE: ARDS AND ACUTE RESPIRATORY FAILURE - CAN WE DO BETTER?

**9:15 a.m. - 11:15 a.m. SAN DIEGO CONVENTION CENTER
Room 31 A-C (Upper Level)**

Abstract Summaries 9:15-9:45
Viewing/Discussion 9:45-11:15

Chairing: M.N. Gong, MS, MD, Bronx, NY
M.W. Semler, MD, MSc, Nashville, TN
A.M. Esper, MD, MS, Atlanta, GA

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- 713 Effects of Furosemide on Oxygenation in Mechanically Ventilated Children with Bronchiolitis/M. Kulkarni, K. Slain, A.T. Rotta, S.L. Shein, Cleveland, OH, p.A1127**
- 714 Comparison of Bacterial Communities in Gastric and Tracheal Aspirates in Mechanically-Ventilated Children: Implications for Ventilator Associated Pneumonia/K.A.T. Van, J.K. Harris, K. Williamson, M.K. Sontag, P.M. Mourani, Aurora, CO, p.A1128**
- 715 Nationwide Analysis of Outcomes in Patients with Acute Respiratory Distress Syndrome Due to Sepsis and History of Atrial Fibrillation/S. Setareh-Shenas, A. Khoury, D. Pan, New York, NY, p.A1129**
- 716 Persistent Severe Acute Respiratory Distress Syndrome: A Secondary Analysis of Randomized Clinical Trials/E. Sanchez, D.R. Price, C. Oromendia, E.J. Schenck, A.M.K. Choi, I.I. Siempos, New York, NY, p.A1130**
- 717 Predictors of Hospital Discharge to Post Acute Care in Acute Respiratory Distress Syndrome Survivors/R. Vashisht, M. Li, X. Wang, A. Sharma, T. Hanane, A. Duggal, R.D. Hite, Cleveland, OH, p.A1131**
- 718 Driving Pressure and the Risk of Developing Acute Respiratory Distress Syndrome in Critically Ill At-Risk Patients: Secondary Analysis of a Prospective Multicenter Observational Study/M. Jabaudon, R. Blondonnet, E. Joubert, P. Berthelin, T. Pranal, L. Roszyk, T. Godet, R. Chabanne, N. Eisenmann, A. Lautrette, C. Belville, V. Sapin, B. Pereira, J.M. Constantin, Clermont-Ferrand, France, p.A1132**
- 719 Reductions in Driving Pressure from Positive End-Expiratory Pressure (PEEP) Titration Are Sustainable Over Short Time Intervals in ARDS Patients/S. Sahetya, D.N. Hager, R.S. Stephens, R.G. Brower, Baltimore, MD, p.A1133**
- 720 Low Free T3 Is Associated with Worse Outcomes in Patients with Acute Respiratory Failure Requiring Invasive Mechanical Ventilation/A. Desai, G. Rothberger, P.K. Valestra, D. Khaliliah, R. Calixte, L. Shapiro, Syracuse, NY, p.A1134**
- 721 Injury Characteristics and von Willebrand Factor for the Prediction of Acute Respiratory Distress Syndrome in Burn-Injured Patients: Development and Internal Validation/M. Afshar, E.L. Burnham, C. Joyce, R. Gagnon, R. Dunn, J. Albright, L. Ramirez, M. Mosier, J.E. Repine, G. Netzer, E.J. Kovacs, Maywood, IL, p.A1135**
- 722 Surfactant D Levels Are Associated with Clinician Chosen Ventilator Settings in Pediatric Acute Respiratory Distress Syndrome/A.K. Bhalla, K. Parvathaneni, C.J. Newth, R.G. Khemani, M. Lim, M. Zinter, A. Sapru, Los Angeles, CA, p.A1136**
- 723 Elevated Plasma Surfactant Protein-D (SP-D) Is Associated with Worse Clinical Outcomes in Children with Acute Respiratory Failure/J.G. Kohne, M.W. Quasney, M.K. Dahmer, A. Sapru, H.M. Weeks, J. Sturza, M.A.Q. Curley, M.A. Matthay, H.R. Flori, Ann Arbor, MI, p.A1137**

- 724 Plasma sRAGE Is Associated with Increased Mortality in ARDS, Independently of Driving Pressure: A Meta Analysis of Individual Patient Data/R. Blondonnet, C.S. Calfee, B. Pereira, R. Cartin-Ceba, C. Lichtenstem, T. Mauri, R.M. Determann, T. Drabek, R.D. Hubmayr, O. Gajic, F. Uhle, A. Copparado, A. Pesenti, M.J. Schultz, V.M. Ranieri, H. Brodska, S. Mrozek, V. Sapin, M.A. Matthay, J. J. M. Constantin, M. Jabaudon, Clermont-Ferrand, France, p.A1138**
- 725 Risk Factors for Reintubation in an Academic Medical Intensive Care Unit/J.D. Casey, T.W. Rice, M.W. Semler, Nashville, TN, p.A1139**

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

A25 TUBERCULOSIS MANAGEMENT: NEW INSIGHTS

9:15 a.m. - 11:15 a.m. MARRIOTT MARQUIS SAN DIEGO MARINA
Grand Ballroom 11-13 (North Tower, Lobby Level)

Abstract Summaries 9:15-9:45
Viewing/Discussion 9:45-11:15

Chairing: J.J. Saukkonen, MD, West Roxbury, MA
A. Cattamanchi, MD, San Francisco, CA
N. Shah, MD, Richmond, CA

- 801 Effect of Supplementation of Vitamin D on Tuberculosis Treatment Outcomes/A. Sowmya, T. Sahasrabudhe, C. Koneru, Pune, India, p.A1140**
- 802 Contribution of Xpert MTB/RIF to the Diagnosis of Tuberculosis in a Low-Prevalence Country Over a Period of 7 Years (2010-2017)/A. Fernandez-Blazquez, C. Sabater, A. Garcia-Bernardo, J.M. Garcia-Garcia, R.L. Villa, M. Pando, M.M. Ramallal, M. Alvarez, F. Vazquez, J.J. Palacios, Oviedo, Spain, p.A1141**
- 803 Is M/XDR-TB Treatment with Bedaquiline Beyond Six Months Safe?/A. Skrahina, E. Gurbanova, S. Setkina, H. Hurevich, A. Altraja, Minsk, Belarus, p.A1142**
- 804 Pharmacokinetics of Tuberculosis Drugs in HIV Infected Patients from Irkutsk, Russian Federation/G. Lyles, S.K. Heysell, Charlottesville, VA, p.A1143**
- 805 Treatment Outcomes of Pulmonary Pyrazinamide-Resistant Multidrug-Resistant Tuberculosis/S. Park, W. Ji, K.-W. Jo, T.S. Shim, Seoul, Korea, Republic of, p.A1144**
- 806 High Degree of Fluoroquinolones Resistance Among Extrapulmonary Tuberculosis Patients at a Tertiary Care Center in North India/J. Chaubey, S. Pawar, S.K. Sharma, S. Sinha, P. Jorwal, New Delhi, India, p.A1145**
- 807 Symptom Relief During Active Tuberculosis Treatment in a Highly Malnourished, Low HIV Prevalence Population Using Weight Based Daily Dosing Regimens/T. Laux, G. Phutke, S. Patil, Y. Jain, San Francisco, CA, p.A1146**

- 808 Factors Associated with Culturable Mycobacterium Tuberculosis from Cough-Generated Aerosols in Pulmonary Tuberculosis: An Aggregated Data Analysis/E.** Jones-López, C. Acuña-Villaorduña, F. Mumbowa, L.-G. Schmidt-Castellani, I. Ayakaka, P. Marques-Rodrigues, M. Gaeddert, L. White, M. Joloba, M. Palaci, J. Ellner, R. Dietze, K.P. Fennelly, Boston, MA, p.A1147
- 809 Drug Resistance Patterns in Extrapulmonary Tuberculosis: A Retrospective Study of Seven Hospitals in Korea, 2010-2014/J.** Mok, B.H. Kang, H.J. Kim, S.J. Lee, T. Lee, H.-K. Lee, Y.J. Cho, D. Jeon, Busan, Korea, Republic of, p.A1148
- 810 Differential Adherence to Bedaquiline Compared to Antiretroviral Therapy Using a Next-Generation Electronic Pillbox in Multi- and Extensively Drug Resistant Tuberculosis (M/XDR-TB)/HIV Co-Infected Patients in South Africa (Prospective Adherence MXDR-TB Im/C.** Hwang, A. Daftary, K.R. Amico, G. Friedland, N. Padayatchi, M. O'Donnell, New York, NY, p.A1149
- 811 Non-Inferiority Complex? Cost-Effectiveness of Shortened Regimens for Tuberculosis Treatment in People with HIV/K.P.** Reddy, C.R. Horsburgh, R. Wood, N.F. Fields, M.P. Girouard, T. Hou, L. Yu, K.A. Freedberg, R.P. Walensky, Boston, MA, p.A1150
- 812 Mitochondrial DNA Variations in Patients with Drug-Induced Liver Injury Due to Anti-Tuberculosis Agents/L.-N. Lee, H.-C. Chang, C.-L. Hsu, H.S. Wu, J.-L. Liu, I.-S. Jan, J.-Y. Wang, New Taipei City, Taiwan, p.A1151**
- 813 Untapped Potential for Streptomycin: Using Genomics to Optimize Aminoglycoside Selection in Drug-Resistant Mycobacterium Tuberculosis/K.A. Cohen, K.E. Stott, A.L. Manson, V. Munsamy, A.M. Earl, A.S. Pym, Baltimore, MD, p.A1152**
- 814 Genome Wide Association Study of Mycobacterium Tuberculosis Reveals Multiple Novel Genes Associated with Large Increase in Drug Minimum Inhibitory Concentrations/ M.R. Farhat, R. Calderon, T. Ioerger, M. Snyder, C. Meehan, B. de Jong, L. Rigouts, A. Sloutsky, D. Kaur, D. van Soolingen, J. Shendure, J. Sacchettini, M. Murray, Boston, MA, p.A1153**
- 815 Diagnostic Characteristics of Cough Aerosol Cultures of Mycobacterium Tuberculosis as Predictors of Transmission/K.P. Fennelly, C. Acuna-Villaorduna, E. Jones-Lopez, Bethesda, MD, p.A1154**
- 816 Prospective Validation of Three-Gene Whole Blood Diagnostic for Active Tuberculosis Predicts Disease Progression and Response to Treatment/H. Warsinske, J. Croda, A.B. Liu, T.E. Sweeney, S. Patil, J. Andrews, P. Khatri, Stanford, CA, p.A7646**
- 817 Long Term Bedaquiline-Related Treatment Outcomes in Patients with Extensively Drug Resistant Tuberculosis from South Africa/O. Olayanju, J.D. Limberis, A. Esmail, S. Oelofse, P. Gina, E. Pietersen, M. Fadul, R. Warren, K. Dheda, Cape Town, South Africa, p.A7647**
- 818 Study on the Diagnosis of Tuberculous Empyema and Its Drug Resistance by Using Gene Chip Technology/X. Chen, Fuzhou, China, p.A7648**

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

A26 PEDIATRIC SEVERE ASTHMA AND PHENOTYPING

9:15 a.m. - 11:15 a.m.

SAN DIEGO CONVENTION CENTER

Room 6 D (Upper Level)

- Abstract Summaries 9:15-9:45**
- Viewing/Discussion 9:45-11:15**
- Chairing:** A. Bush, MD, London, United Kingdom
J. Gaffin, MD, Boston, MA
T. Simoneau, MD, Hartford, CT
- 201 Mixed Immune Response in Pediatric Severe Asthma Based on Bronchoalveolar Lavage/Z. Barnawi, K. Salka, S. Naime, J.H. Jackson, M.A. Arroyo Morr, G.F. Perez, G.R. Nino, D.K. Pillai, Washington, DC, p.A1155**
- 202 Bronchoscopic Evaluation of Pediatric Severe-Refractory Asthmatics May Identify More Suitable Mepolizumab Therapy Candidates/J.T. Andrade, S. Rose, C. Spencer, S. Bunyavanich, A. Vicencio, New York, NY, p.A1156**
- 203 Greater Treatment Benefit with Omalizumab in Children with Increased Asthma Severity: Exploratory Analyses from the Preventative Omalizumab or Step-up Therapy for Fall Exacerbations (PROSE) Study/S.J. Szeffler, M. Kattan, B. Ortiz, B. Trzaskoma, T. Haselkorn, A. Iqbal, W.W. Busse, Aurora, CO, p.A1157**
- 204 Use of Inhaled Tiotropium in Severe Persistent Asthma in Children/P. Gummalla, M. Shukla, Brooklyn, NY, p.A1158**
- 205 Implementation of a Pediatric Severe Asthma Clinic Is Cost Effective/T. Simoneau, C.R. Langton, D. Foster, S.B. Roman, J.P. Hollenbach, M.M. Cloutier, Hartford, CT, p.A1159**
- 206 Assessing Lung Function in Healthy and Asthmatic Children Using Impulse Oscillometry, Spirometry, Multiple Breath Washout, and Extended Exhaled Nitric Oxide/H. Knihtilä, A. Kotaniemi-Syrjänen, A.S. Pelkonen, M.J. Mäkelä, P. Malmberg, Helsinki, Finland, p.A1160**
- 207 The Role of Fractional Exhaled Nitric Oxide (FENO) in the Asthma Decision Process: The Discordant/Concordant (D/C) Ratio/S.P. Galant, T. Morphew, H.-W.W. Shin, O. Guijon, L. Pham, L. Mendoza, S. Marchese, N. Pires-Barracos, Orange, CA, p.A1161**
- 208 Peripheral Airway Impairment (PAI) Is Present in Asthmatic Children and Adolescents Thought Well Controlled by NAEP Guideline Criteria/P. Tirakitsoontorn, M. Crookes, W. Fregeau, N. Pabelonio, T. Morphew, H.-W. Shin, S.P. Galant, Orange, CA, p.A1162**
- 209 The Relationship between the Asthma Control Test (ACT) and Spirometry in Assessment of Asthma Control/J.H. Jackson, D. Pillai, Z. Barnawi, M. Gatti, S. Naime, D.K. Pillai, Washington, DC, p.A1163**
- 210 Use of Remote Electronic Monitoring Improves Asthma Outcomes Through Improved Adherence/J.C. Carl, D. Isakov, S. Winners, T. Lucik, A. Ferchau, A. Antara, C. Becker, D. Van Sickle, Cleveland, OH, p.A1164**

- 211 Children with Pre-School Wheeze Have Neutrophilic Airway Inflammation Associated with Bacteria and Viruses During Periods of Clinical Stability/J. Cook, A. Martin-Alonso, N. Sanghani, A. Bush, L. Fleming, A.J. Byrne, C.M. Lloyd, S. Saglani, London, United Kingdom, p.A1165**
- 212 Association of Serum Carotenoids with Disease Burden in Urban Minority Obese Adolescents with Asthma/D. Rastogi, L.G. Wood, Bronx, NY, p.A1166**
- 213 Allergic Asthma Is Associated with Altered Sphingolipid Composition in Children/J.G. Ono, T. Worgall, B.I. Kim, S. Worgall, New York, NY, p.A1167**
- 214 Atopic Disease in Children with Eosinophilic Esophagitis/S. Siegel, A. Budhram, R. Kane, N. Yu, A.J. Dozor, S. Krishnan, Valhalla, NY, p.A1168**
- 215 DNA Methylation Is Associated with Inhaled Corticosteroid Treatment Response in Pediatric Asthmatics/A.L. Wang, W. Qiu, S.T. Weiss, K.G. Tantisira, Boston, MA, p.A1169**
- 606 Demographic and Clinical Risk Factors for Radiographic Pulmonary Vascular Pruning in the Framingham Heart Study/A. Synn, G.R. Washko, R. San Jose Estepar, G.T. O'Connor, M. Mittleman, M.B. Rice, Boston, MA, p.A1176**
- 607 Can the PHAROS Predict the Future? - Identifying High Risk Phenotypes Among Patients with Systemic Sclerosis Associated Pulmonary Arterial Hypertension (SSc-PAH)/N.R. Fox, M. Hyer, V. Ramakrishnan, M.R. Lammi, V. Steen, R.G. Argula, Charleston, SC, p.A1177**
- 608 Risk Assessment in Systemic Sclerosis-Associated Pulmonary Arterial Hypertension/A. Boucly, J.C. Weatherald, A. Chaouat, V. Cottin, C. Dromer, E. Hachulla, X. Jais, M. Jevnikar, D. Launay, P. Magro, D. Montani, L. Mouthon, C. Pison, G. Prevot, L. Savale, G. Simonneau, M. Humbert, O. Sitbon, Le Kremlin-Bicetre, France, p.A1178**
- 609 Hemodynamics and Prognosis in Scleroderma-Associated PAH/J.C. Weatherald, A. Boucly, Y. Taniguchi, D. Launay, E. Hachulla, G. Prevot, V. Cottin, M. Jevnikar, L. Savale, X. Jais, G. Simonneau, D. Montani, O. Sitbon, M. Humbert, Calgary, Canada, p.A1179**
- 610 A Retrospective Comparison of Pulmonary Arterial Hypertension (PAH) Patients with Myositis-Related Autoantibodies to Patients with Idiopathic PAH and PAH Associated with Systemic Sclerosis/S. Si, S. Weinmann, C. McEvoy, M.M. Chakinala, St. Louis, MO, p.A1180**
- 611 Risk Assessment in Scleroderma Patients with Newly Diagnosed Pulmonary Arterial Hypertension: Application of the ESC ERS Risk Prediction Model/V. Mercurio, N. Diab, G. Peloquin, T. Houston-Harris, R.L. Damico, T.M. Kolb, S.C. Mathai, P.M. Hassoun, Baltimore, MD, p.A1181**
- 612 Evaluating Systolic and Diastolic Biventricular Function in Experimental Pulmonary Arterial Hypertension Using Microscopic Computed Tomography/B. Kojonazarov, A. Belenkov, S. Shinomiya, M. Kampschulte, S. Mizuno, H.A. Ghofrani, F. Grimminger, N. Weissmann, W. Seeger, R.T. Schermuly, Giessen, Germany, p.A1182**
- 613 Sitting Challenge During Right Heart Catheterization in Patients with Pulmonary Hypertension and Elevated Pulmonary Artery Wedge Pressure/T. Naal, P. Raeisi-Giglou, A. Jawad, R.L. Chatburn, U. Hatipoglu, A.R. Tonelli, Cleveland, OH, p.A1183**
- 614 Abnormal Exercise Pulmonary Hemodynamics Predict Outcomes in Patients with Lung Disease/A. Jose, C. King, E. Welt, O.A. Shlobin, A.W. Brown, S. Aryal, N. Weir, S.D. Nathan, Washington, DC, p.A1184**
- 615 The Minimally Important Difference in the Six-Minute Walk Test Predicts Clinical Worsening in Pulmonary Arterial Hypertension/G.A. Heresi, Y. Rao, O.A. Minai, Cleveland, OH, p.A1185**
- 616 Measuring the Functional Impact of Pulmonary Arterial Hypertension with Actigraphy/S.C. Bergard, J.E. Orr, D.Y. Kang, S. Fors, D.G. Papamatheakis, D.S. Poch, N.H. Kim, T. Fernandes, La Jolla, CA, p.A1186**

POSTER DISCUSSION SESSION

A27 YOU GOT ANOTHER THING COMING: DIAGNOSIS AND PROGNOSTICATION IN PULMONARY HYPERTENSION

9:15 a.m. - 11:15 a.m. SAN DIEGO CONVENTION CENTER

Room 30 C-E (Upper Level)

Poster Viewing 9:15-10:00

Discussion 10:00-11:15

Chairing: P.J. Leary, MD, MS, Seattle, WA
I.M. Lang, MD, Vienna, Austria
M.R. Lammi, MD, MSCR, New Orleans, LA

- 601 Transpulmonary Gradient of Nitrite Both Before and During Nitric Oxide Inhalation in Patients with Idiopathic Pulmonary Arterial Hypertension/B.J. Abuhalmeh, K.S. Aulak, T. Naal, R.A. Dweik, A.R. Tonelli, Cleveland, OH, p.A1171**
- 602 Quantification of Pulmonary Vascular Response to Nitric Oxide using Computed Tomography/F.N. Rahaghi, T. Winkler, P. Kohli, B. Fuster, R. Radhakrishnan, T. Blackwater, J. Ross, R.N. Channick, R.S. Harris, G.R. Washko, R. San Jose Estepar, Boston, MA, p.A1172**
- 603 Clinical and Hemodynamic Correlates of Pulmonary Arterial Stiffness in Incident, Untreated Patients with Idiopathic Pulmonary Arterial Hypertension/D. Chemla, J.C. Weatherald, E. Lau, L. Savale, A. Boucly, D. Montani, M. Humbert, O. Sitbon, P. Herve, Le Kremlin Bicetre, France, p.A1173**
- 604 Pulmonary Vascular Distensibility in Pulmonary Hypertension Due to Left Heart Disease/C. Gerges, M. Gerges, I.M. Lang, Vienna, Austria, p.A1174**
- 605 Noninvasive Assessment of Pulmonary Arterial Compliance in End-Stage Liver Disease/J.A. Mazurek, M.J. Krowka, G.A. Heresi, T.M. Bull, S. Bartolome, A. Hennes, K.E. Roberts, M. Patel, G. Lin, J.K. Oh, K.A. Forde, K. Krok, R.A. Dweik, M.B. Fallon, S.M. Kawut, N. Al-Naamani, Philadelphia, PA, p.A1175**

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- 617 Evidence of Impaired Mental Health, Quality of Life, and Cognitive Function in Pulmonary Hypertension/A.** Smalley, Z. Fulkerson, B.A. Khan, T. Lahm, Indianapolis, IN, p.A1187
- 618 Ethnic and Socioeconomic Health Disparities Are Associated with Severity of Illness in Pulmonary Arterial Hypertension/A.** Usmani, R.H. Anguiano, A.M. Vergis, S. Iusim, R.F. Machado, D.R. Fraidenburg, Chicago, IL, p.A1188
- 619 Comparison of Three Risk Assessment Strategies as Predictors of One-Year Survival in US Pulmonary Arterial Hypertension (PAH) Patients/R.L.** Benza, M. Gomberg-Maitland, C.G. Elliott, H.W. Farber, A.J. Foreman, A.E. Frost, D.J. Pasta, M. Selej, C. Burger, R.P. Frantz, Pittsburgh, PA, p.A7649
- 620 Genetic Determinants of Risk and Survival in Pulmonary Arterial Hypertension/C.J.** Rhodes, K. Batai, M. Bleda, M. Haimel, L. Southgate, M. Germain, M.W. Pauciulo, C. Hadinnapola, B. Girerd, A. Arora, J. Knight, K. Hanscombe, J. Karnes, M. Kaakinen, H.H. Gall, A. Ulrich, L. Harbaum, J. Aman, I. Cebola, J. Ferrer, L. Martin, H. He, A.E. Frost, R.J. White, K. Lutz, A. Walsworth, J. Wharton, A. Lawrie, M. Humbert, F. Soubrier, D. Tregouet, I. Prokopenko, R. Kittles, S. Graef, W.C. Nichols, R. Trembath, A.A. Desai, N. Morrell, M. Wilkins, London, United Kingdom, p.A.7650
- 621 Risk Assessment in Pulmonary Arterial Hypertension/M.** Hoeper, D. Pittrow, C.F. Opitz, J. Gibbs, S. Rosenkranz, E. Gruenig, K. Olsson, D. Huscher, M. Delcroix, Hannover, Germany, p.A7651
- 504 Role of Glucosylceramide Synthase in Cigarette Smoke-Induced Lung Endothelial Injury/K.** Koike, E. Berdyshev, I. Bronova, A. Mikosz, E. Beatman, I. Petrache, Denver, CO, p.A1192
- 505 Beclin 1 Regulates Smoke Induced Kidney Injury in a Murine Model of Chronic Obstructive Pulmonary Disease/M.A.** Pabon, E.A. Patino, K.C. Ma, E. Finkelsztejn, J.C. Osorio, F. Mallick, K. Mizumura, H. Lam, F. Polverino, C.A. Owen, A.M.K. Choi, S.M. Cloonan, M.E. Choi, New York, NY, p.A1193
- 506 Expression Regulation and Function of Nicotinic Receptors in Asthma/G.A.** Cortes Puentes, M. Thompson, L.J. Manlove, S.M. Sine, Y.S. Prakash, C.M. Pabelick, Rochester, MN, p.A1194
- 507 Pcdh1 Loss Leads to a SMAD3-Dependent Increase in HDM-Induced Airway Hyperresponsiveness in Mice/** M.C. Nawijn, U. Brouwer, L. den Boef, L. Hesse, G.H. Koppelman, Groningen, Netherlands, p.A1195
- 508 Anti-IL5 Treatment Alters Eosinophil Responses to a Rhinovirus-16 Challenge in Mild Asthma Patients and Also that of Neutrophils, Macrophages and B Cells/Y.S.** Sabogal Piñeros, S. Bal, M.A. Van De Pol, B. Smids-Dierdorp, T. Dekker, A. Dijkhuis, P. Brinkman, K.F. Van Der Sluijs, C.J. Majoor, P. Bonta, P.J. Sterk, R. Lutter, Amsterdam, Netherlands, p.A1196
- 509 3'-RNA Adenylation Enzymes Control Allergic Inflammation Through Regulation of MicroRNA Degradation/A.** Korde, S. Mehta, S. Takyar, New Haven, CT, p.A1197
- 510 A Vitamin D-cAMP Anti-Inflammatory Axis in Asthmatic Airway Epithelium/D.M.** Mansell, C.E. Hoptay, B. Harmon, K. Authelat, D.K. Pillai, R.J. Freishtat, Washington, DC, p.A1198
- 511 Multi-Omics Integration at the Pathway- and Network Level Improves the Power to Identify Subgroups and Disease Pathways in COPD/A.M.** Wheelock, V. Lagani, C.-X. Li, Stockholm, Sweden, p.A1199
- 512 DNA Methyltransferase 1(DNMT1) Promotes Reactive Oxygen Substances(ROS)-mediated Lung Endothelial Cell Apoptosis in Chronic Obstructive Pulmonary Disease/T.** Li, X. He, L. Chen, Y. Chen, H. Zeng, Changsha, China, p.A1200
- 513 Cigarette Smoke Exposure of Airway Epithelial Cells Induces Specific NOTCH Signaling to Change the Balance of MUC5B and MUC5AC Expression/N.** Baumlin, J.S. Dennis, C. Aguiar, S. Paredes-Aller, A. Schmid, E.S. Mendes, M. Kim, M. Salathe, Miami, FL, p.A1201
- 514 Inhibition of Cigarette Smoke Induced MMP1 Using a Novel Drug to Prevent Alveolar Tissue Damage/J.** Sonett, T. Shiomi, V. Anguiano, D. Woode, M.P. Goldklang, U. Unachukwa, R. Xiao, T. Shiomi, J.M. D'Armiento, New York, NY, p.A1202
- 515 Role of Histone Acetylation in Fibrosis in Chronic Obstructive Pulmonary Disease/R.** Zakarya, H. Chen, C.-A.A. Brandsma, I.M. Adcock, B.G.G. Oliver, Sydney, Australia, p.A1203
- 516 The Asthma Susceptibility Gene ORMDL3 Regulates Autophagy in Human Bronchial Epithelial Cells/F.** Guo, P. Kothari, B.D. Levy, X. Zhou, B.A. Raby, Boston, MA, p.A1204
- 517 Mechanisms of Airway Epithelial Cell Reprogramming in Asthma/L.R.** Bonser, W. Eckalbar, X. Zeng, S. Siddiqui, J. Pollack, K.D. Koh, L. Zlock, W.E. Finkbeiner, N.R. Bhakta, P. Woodruff, N. Ahituv, D.J. Erle, San Francisco, CA, p.A1205

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

A28 ADVANCES IN COPD AND ASTHMA

9:15 a.m. - 11:15 a.m.

SAN DIEGO CONVENTION CENTER

Room 28 C-E (Upper Level)

Abstract Summaries 9:15-9:45

Viewing/Discussion 9:45-11:15

Chairing: J.M. D'Armiento, MD, PhD, New York, NY
Y.T. Ghebre, PhD, Houston, TX
F. Polverino, MD, PhD, Boston, MA
A. Yorgancioglu, MD, Istanbul, Turkey

- 501 Immuno-Metabolomic Regulation of B Cell Guided iBALT Positioning Drives Cigarette Smoke-Induced COPD/T.M.** Conlon, R.S.J. Sarker, J. Jia, K. Heinzemann, D. Tasdemir, H. Bayram, O. Eickelberg, A.Ö. Yildirim, Munich, Germany, p.A1189
- 502 Systemic Immune-Metabolic Deficiency in Tobacco- and Biomass-Smoke Exposed Chronic Obstructive Pulmonary Disease (COPD) Subjects/A.R.** Agarwal, S. Kadam, A. Brahme, A. Manas, K. Apte, G. Narke, S. Madas, S.S. Salvi, Pune, India, p.A1190
- 503 Smoking Gene Expression Signature of Mice and Human Lung Tissues and Its Overlap with COPD Signature/M.** Obeidat, A. Dvorkin-Gheva, X. Li, Y. Bossé, D.C. Nickle, P. Hansbro, M.R. Faner, A. Agusti, P.D. Pare, M.R. Stampfli, D.D. Sin, Vancouver, Canada, p.A1191

- 518 From COPD Subtypes to Treatable Traits: Semi-Supervised Disease Axis Discovery in COPD***Gene*/P. Castaldi, J. Chen, M.H. Cho, R. San Jose Estepar, G.R. Washko, B.D. Hobbs, J.D. Crapo, D.A. Lynch, J.E. Hokanson, J. Dy, E.K. Silverman, Boston, MA, p.A1206
- 519 Characterizing the Impact of Cigarette Smoking on Human Small Airway Club Cell Transcriptome by Single Cell RNA-Sequencing**/W.L. Zuo, S.A. Shenoy, M. Rostami, G. Wang, S.L. O'Beirne, R.J. Kaner, P.L. Leopold, J.G. Mezey, R.G. Crystal, New York, NY, p.A1207
- 520 Cc16: A Novel Potential Therapeutic Target for Airway and Airspace Pathologies in COPD**/F. Polverino, J. Rojas-Quintero, M.E. Laucho Contreras, X. Wang, A. Pilon, B. Celli, C. Owen, Boston, MA, p.A1208
- 521 Mucin-Based Metrics to Quantitate and Identify Mucus Component of Peripheral Airways Obstruction in the SPIROMICS Cohort**/R.C. Boucher, A.S. Ceppe, W.K. O'Neal, A. Ford, R.G. Barr, E.R. Bleecker, J.L. Curtis, C.B. Cooper, M.K. Han, E.A. Hoffman, F.J. Martinez, R. Paine, P. Woodruff, B.M. Smith, M. Kesimer, Chapel Hill, NC, p.A1209
- 522 The ENaC Regulatory Peptide SPX-101 Is Resistant to Proteolytic Degradation in Diseased Sputum**/D. Scott, T. Stuhlmiller, B. Wu, J. Sesma, Durham, NC, p.A1210
- 523 The E3 Ligase Subunit FBXL2 Is Required for Skeletal Myogenesis and Regulated by Inflammatory Stress that Indicates a Potential Role in Muscle Dysfunction in COPD**/M.E. O'Brien, B.B. Chen, J. Bon, R.K. Mallampalli, Pittsburgh, PA, p.A1211
- 524 Enzymatic Control of Lung Sphingosine-1 Phosphate (S1P) During Cigarette Smoke Exposure**/A. Scruggs, E. Beatman, K.C. Ni, K. Koike, D. Cao, E. Berdyshev, I. Bronova, K. Schweitzer, I. Petrache, Denver, CO, p.A7652
- 525 Drug Repurposing for WNT/ β -Catenin Induced Lung Repair in Chronic Obstructive Pulmonary Disease**/R. Costa, D.E. Wagner, M.M. De Santis, K.E. Bailey, A. Doryab, K. Schorpp, I. Rothenaigner, C. Ota, H.A. Baarsma, M. Campillos, K. Hadian, M. Koenigshoff, Munich, Germany, p.A7653
- 1001 Direct Effects of Interleukins on Airway Smooth Muscle Cell Functions**/N.M. Bexiga, H. Lam, A.M. Alencar, M.A. Stephano, S.S. An, Sao Paulo, Brazil, p.A1212
- 1002 Additive Effects of Odor and Bitter Taste Receptors with β 2-Adrenergic Receptors on Human Airway Smooth Muscle Function**/J. Huang, D. Firer, N.M. Bexiga, R.A. Panettieri, S.B. Liggett, S.S. An, Baltimore, MD, p.A1213
- 1003 Aberrant CD38 Pathway Contributes to the Cholinergic Deregulation of Airway Smooth Muscle Contractility in Early Life**/Y. Bai, X. Ai, Boston, MA, p.A1214
- 1004 TRPA1 Relaxes Histamine and Methacholine Contracted Airways Through Complementary Mechanisms**/B. Marsh, A.D. Fryer, D.B. Jacoby, M.G. Drake, Portland, OR, p.A1215
- 1005 Prostacyclin Inhibits Mannitol-Induced Contractions of Isolated Human Small Airways**/J. Safholm, J. Bood, P. Bergman, A.-C. Orre, M. Al-Ameri, S.-E. Dahlen, M. Adner, Stockholm, Sweden, p.A1216
- 1006 Potential Role for the Peripheral Benzodiazepine Receptor (PBR) in Evoking Airway Smooth Muscle Relaxation**/A.P. Nayak, E. Boopathi, S. Pan, R. Yi, E. Javed, J. Michael, T. Pera, E. Tompkins, J. Liberato, D.A. Deshpande, R.B. Penn, Philadelphia, PA, p.A1217
- 1007 Epinephrine Induces Human Airway Smooth Muscle Contraction Through the Alpha-1 Adrenergic Receptor After Beta-2 Adrenergic Receptor Desensitization**/B. Deeney, G. Cao, B.E. Himes, S. Orfanos, R.A. Panettieri, New Brunswick, NJ, p.A1218
- 1008 Cytokine-Induced microRNA Dysregulation Mediates Targets in Asthmatic Airway Smooth Muscle to Enhance Contractile Signaling**/J. Evasovic, S. Favela, M.A. Hernandez, M.A. Ba, C.A. Singer, Reno, NV, p.A1219
- 1009 Eugenol Relaxes Isolated Airway Smooth Muscle Cells Via Calcium Signaling**/J. Huang, R.A. Panettieri, S.B. Liggett, S.S. An, Baltimore, MD, p.A1220
- 1010 Synergistic Effect of β 2 Agonist, Rho Kinase Inhibitor, and Force Oscillation on Relaxation of Contracted Airway Smooth Muscle**/L. Wang, P.D. Pare, C.Y. Seow, Vancouver, Canada, p.A1221
- 1011 Shortening Velocity, Power Output, and Myosin Phosphorylation in Fully and Partially Activated Airway Smooth Muscle**/L. Luo, L. Wang, P.D. Pare, C.Y. Seow, P. Chitano, Vancouver, Canada, p.A1222
- 1012 TGF- β 1 Mediates HASM Cell Hyporesponsiveness to β 2-Agonist-Induced Relaxation**/C.A. Ojiaku, J.K. Williams, R.A. Panettieri, Philadelphia, PA, p.A1223
- 1013 TNF α Increases Isometric Force Generation to Acetylcholine Stimulation in Intact Porcine Airway Smooth Muscle**/P. Delmotte, M. Dogan, S. Osorio, Y.-S. Han, G.C. Sieck, Rochester, MN, p.A1224
- 1014 Antagonism of the TMEM16A Calcium-Activated Chloride Channel Relaxes Airway Smooth Muscle Despite β -Adrenoceptor Desensitization**/J. Danielsson, A. Kuforiji, J. Perez-Zoghbi, Y. Zhang, C.W. Emala, New York, NY, p.A1225

POSTER DISCUSSION SESSION

A29 NOVEL MECHANISMS FOR AIRWAY SMOOTH MUSCLE CONTRACTION AND RELAXATION: POTENTIAL TARGETS FOR MODULATION

9:15 a.m. - 11:15 a.m. **MARRIOTT MARQUIS SAN DIEGO MARINA**

Pacific Ballroom 24-26 (North Tower, First Floor)

Poster Viewing 9:15-10:00

Discussion 10:00-11:15

Chairing: A.-M. Lauzon, PhD, Montreal, Canada
G.C. Sieck, PhD, Rochester, MN
S.S. An, PhD, Baltimore, MD

- 1015** **TMEM16A Agonism Contracts Airway Smooth Muscle and Increases Epithelial Cell MUC5AC Expression/A.** Kuforiji, J. Danielsson, D. Xu, Y. Zhang, C.W. Emala, New York, NY, p.A1226
- 1016** **Human Metabolites of 6-Shogaol, a Bioactive Ginger Component, Relax Airway Smooth Muscle: A Potential Novel Class of Bronchodilators/E.** Lukovic, Y. Zhu, J. Danielsson, Y. Zhang, S. Sang, C.W. Emala, New York, NY, p.A1227
- 1017** **Attenuation of Murine Airway Contraction Ex Vivo and In Vivo by a Gelsolin Peptide Containing the Phosphatidylinositol 4, 5-Bisphosphate Binding Domain/M.** Mikami, J. Perez-Zoghbi, C.W. Emala, New York, NY, p.A1228
- 1018** **The Effect of Dietary Fatty Acids and Sphingosine-1-Phosphate on In Vitro Smooth Muscle Contractility/D.** Chapman, M. Baroffio, A. Chiappori, C.G. Irvin, V. Brusasco, Ultimo, Australia, p.A1229
- 1019** **IL-6 and Intracellular Calcium Regulation in Airway Smooth Muscle of Elderly Asthmatics/S.A.** Wicher, M. Thompson, M.R. Freeman, L.J. Manlove, C.M. Pabelick, Y.S. Prakash, Rochester, MN, p.A1230
- 1020** **Inhibition of Gq Signaling Induces Airway Relaxation in Mouse Models of Asthma/D.** Wenzel, M. Matthey, R. Roberts, A. Seidinger, A. Simon, R. Schröder, M. Kuschak, S. Annala, G. König, C.E. Müller, I.P. Hall, E. Kostenis, B.K. Fleischmann, Bonn, Germany, p.A1231
- 1021** **Serelaxin Is a Novel Bronchodilator Which Enhances β -Adrenoceptor-Mediated Airway Relaxation in Multiple Species/J.E.** Bourke, S. Royce, C. Samuel, M. Lam, Clayton, Australia, p.A1232
- 1022** **Repeated Bronchoconstrictions Do Not Alter Respiratory Mechanics in Mice/S.** Mailhot-Larouche, M. Gazzola, K. Lortie, C. Henry, Y. Bosse, Quebec, Canada, p.A1233
- 1023** **Estrogen Receptor Beta Signaling Negatively Regulates PDGF Induced Human Airway Smooth Muscle Proliferation/N.S.** Ambhore, R. Katragadda, R.S.R. Kalidhindi, M. Thompson, C.M. Pabelick, Y.S. Prakash, S. Venkatachalem, Fargo, ND, p.A1234
- 1024** **Glial Derived Neurotrophic Factor in Human Airway Smooth Muscle/S.A.** Wicher, A. Roesler, R.D. Britt, M. Thompson, C.M. Pabelick, Y.S. Prakash, Rochester, MN, p.A1235
- 1025** **Novel GABA_A Receptor Activator that Does Not Enter the Central Nervous System Relaxes Airway Smooth Muscle/G.T.** Yocum, Y. Zhang, D.C. Stafford, J.M. Cook, A.E. Arnold, C.W. Emala, New York, NY, p.A1236

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

A30 UPPER AIRWAY DYNAMICS: INSIGHTS FROM HUMAN AND ANIMAL STUDIES

9:15 a.m. - 11:15 a.m. SAN DIEGO CONVENTION CENTER

Room 6 E (Upper Level)

Abstract Summaries 9:15-9:45
Viewing/Discussion 9:45-11:15

- Chairing:** A. Malhotra, MD, La Jolla, CA
P.R. Eastwood, PhD, Nedlands, Australia
- 301** **Chemogenetic Silencing of Hypoglossal Motor Neurons Creates a Model of Upper Airway Obstruction During Sleep/T.A.** Fleury Curado, H. Pho, S. Berger, L.U. Sennes, A.R. Schwartz, V. Polotsky, Baltimore, MD, p.A1237
- 302** **Neural Memory of the Genioglossus Muscle During Sleep Is Stage-Dependent in Healthy Subjects/L.** Taranto Montemurro, S.A. Sands, L. Messineo, A. Azarbarzin, D.P. White, A. Wellman, Boston, MA, p.A1238
- 303** **Linking Upper Airway Dynamics in Awake Tidal Breathing Obstructive Sleep Apnea (OSA) Subjects with Site of Upper Airway Collapse During Sleep: Preliminary Results/C.J.** Darquenne, A.R. Elliott, R.J. Theilmann, P.N. DeYoung, R.L. Owens, A. Malhotra, La Jolla, CA, p.A1239
- 304** **Retropalatal and Retroglottal Airway Compliance and Negative Effort Dependence in Patients with Obstructive Sleep Apnea/M.O.** Marques, P. Genta, A. Azarbarzin, S.A. Sands, L.T. Taranto-Montemurro, L. Messineo, D. White, A. Wellman, Sao Paulo, Brazil, p.A1240
- 305** **Clinical Predictors of Respiratory System Loop Gain in Healthy Subjects and Patients with Obstructive Sleep Apnea/L.** Messineo, L.T. Taranto-Montemurro, A. Azarbarzin, M. Marques, N. Calianese, D.P. White, S.A. Sands, A. Wellman, Boston, MA, p.A1241
- 306** **Elimination of Complete Concentric Collapse at the Level of the Palate Through Maxillomandibular Advancement Surgery for Obstructive Sleep Apnea/S.** Op de Beeck, C. Kastoer, M. Dom, T. Neirinckx, M.J. Braem, P.H. Van de Heyning, N. Nadjmi, O.M. Vanderveken, Wilrijk, Belgium, p.A1242
- 307** **A Simple Wakefulness Upper Airway Collapsibility Test Closely Relates to the Pharyngeal Critical Closing Pressure (PCRIT) During Sleep in Obstructive Sleep Apnea/A.M.** Osman, J. Carberry, P. Burke, B. Tong, R.R. Grunstein, D.J. Eckert, Sydney, Australia, p.A1243
- 308** **Palatal Prolapse on Expiration Predicts Inspiratory Palatal Collapse in Patients with Obstructive Sleep Apnea/A.** Azarbarzin, S.A. Sands, M. Marques, P. Genta, L.T. Taranto-Montemurro, L. Messineo, D.P. White, A. Wellman, Boston, MA, p.A1244
- 309** **Dynamic Movement of Upper Airway Structures During Sleep and Apnea in Obstructive Sleep Apnea Subjects (OSA)/A.R.** Elliott, R.J. Theilmann, E. Smales, P.N. DeYoung, A. Malhotra, C.J. Darquenne, La Jolla, CA, p.A1245
- 310** **Effect of Securinine on Genioglossus Muscle Activity and Modulation of Hypoglossal Motor Neuron Excitability in Rats/W.** Xu, Shanghai, China, p.A1246
- 311** **The Pharyngeal Airway Is Most Collapsible During Mid-Expiration in Obstructive Sleep Apnea/A.M.** Osman, J. Butler, A. Chiang, S.C. Gandevia, D.J. Eckert, Sydney, Australia, p.A1247
- 312** **Velopharynx and Retroglottal Properties with Intraluminal Pressures or Upper Airway Stimulation in the Upright Posture/K.P.** Strohl, T. Elshebiny, F. Pugliese, N. Kuruppumpillage, O. Ilegbusi, J.M. Palomo, Cleveland, OH, p.A1248

- 313 Leptin Signaling in Dorsal Medial Hypothalamus Regulates Upper Airway Patency and Reverses Sleep Disordered Breathing in Leptin-Resistant Db/db Mice/H. Pho, S. Berger, T.A. Fleury Curado, A.R. Schwartz, V.Y. Polotsky, Baltimore, MD, p.A1249**
- 314 Consequences of Inspiratory Flow Limitation Termination in Mild to Moderate Obstructive Sleep Apnea/J.T. Guevarra, B. Castillo, D.M. Rapoport, I.A. Ayappa, New York, NY, p.A1250**

THEMATIC POSTER SESSION

A31 ALLERGY AND ASTHMA CASE REPORTS

9:15 a.m. - 4:15 p.m. **SAN DIEGO CONVENTION CENTER**

Area H (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: E. Brigham, MD, MHS, Baltimore, MD

- P849 Mite Paradise: A Contaminated Flour Causing Pancake Anaphylaxis/K. Masaki, I. Nakachi, Y. Sugiura, S. Hagiwara, H. Oda, Y. Kawakami, K. Fukunaga, T. Betsuyaku, Tochigi, Japan, p.A1251**
- P850 Protracted Anaphylaxis and Treatment Resistant Angioedema: Looking Beyond Ingestions and Skin/M. Winikor, J. Xu, J. Stoll, W. Khan, Piscataway, NJ, p.A1252**
- P851 Drug Rash with Eosinophilia and Systemic Symptoms (DRESS) Syndrome Associated with Rifampicin/M.A. Ataxca González, J.E. Gonzalez, A. Rendon, C.P. Rivera, R. Mercado Logoria, Monterrey, Mexico, p.A1253**
- P852 An Ounce of Caution: Superparamagnetic Iron Oxide Nanoparticle Based MRI Contrast Associated Anaphylaxis/A. Heckman, K. Sacco, A. Agarwal, B. Hiroto, P.K. Guru, Jacksonville, FL, p.A1254**
- P853 Pulmonary Langerhans Cell Histiocytosis in a Patient with DRESS Syndrome and Acute Respiratory Failure/J.T. Williams, D. Grunes, M. Senitko, Jackson, MS, p.A1255**
- P854 Hypereosinophilic Syndrome Presenting with Recurrent Respiratory Failure/M. Wolf, A.J. Frank, Boston, MA, p.A1256**
- P855 Extended Resolution of Severe Angiotensin Converting Enzyme Inhibitor-Induced Angioedema/N. Lapinel, S. Kamboj, C.M. Mason, New Orleans, LA, p.A1257**
- P856 Autopsy Study Confirms Effectiveness of Bronchial Thermoplasty/M. Allen-Proctor, S. Sanyal, J.L. Abraham, C. Curtiss, Syracuse, NY, p.A1258**
- P857 Salvage ECMO in a Life-Threatening Status Asthmaticus/J.M. Galvis, S. Gupta, B. Varajic, K. El-Kersh, Louisville, KY, p.A1259**

Facilitator: F.K. Gibbons, MD, Boston, MA

- P858 Severe Tracheal Stenosis from Neonatal Intubation Misdiagnosed as Asthma for Four Decades/A.S. Flora, R.E. Kose, Toledo, OH, p.A1260**

- P859 "Doc, I Can't See!" Acute Monocular Vision Loss from Prednisone, a Rare but Important Complication/D. Golovyan, D. WuDunn, M.O. Farber, Indianapolis, IN, p.A1261**
- P860 Disseminated Aspergillosis After IL-5 Therapy for Severe Asthma/C. Wood, Y. Im, M. Millard, Dallas, TX, p.A1262**
- P861 Do All the Cases of Severe Asthma Exacerbation Need Corticosteroids? A Case Study/G. Vasquez-Rios, R. Pineda-Reyes, A. Terashima, F. Mejia, Lima, Peru, p.A1263**
- P862 Chronic Steroid Use in Asthma: A Fatal Case of Cryptococcal Meningitis/H. Rehman, S. Verga, W. Khan, New Brunswick, NJ, p.A1264**
- P863 Hypoxia and Eosinophilia in a Patient with 'Difficult Asthma'/C. McBrien, A. Menzies-Gow, London, United Kingdom, p.A1265**
- P864 Wheezing Lymph Nodes/S. Khauli, N. Mahmoud, Madison, WI, p.A1266**
- P865 Tracheobronchomalacia in the Disguise of Asthma/A. Koirala, N. Tachamo, A. Kushwah, S. Lohani, S. Basnet, B. Timilsina, E. Mohanty, P. Sharma, West Reading, PA, p.A1267**

THEMATIC POSTER SESSION

A32 UPDATES IN ALLERGIC DISEASE

9:15 a.m. - 4:15 p.m. **SAN DIEGO CONVENTION CENTER**

Area J (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: P.A. Verhoef, PhD, MD, Chicago, IL

- P1009 Bronchoalveolar Lavage Preferentially Samples Tissue Resident Memory T Cells from Lung Parenchyma with Phenotypic Markers of Intraepithelial Lymphocytes/M.E. Snyder, F. Cvetkovski, P. Dogra, T. Granot, M. Miron, B. Kumar, D. Carpenter, T. Senda, D. Farber, New York, NY, p.A1268**
- P1010 Location Dependent Signals Fine-Tune Dendritic Cell Control of Th2 Responses/M.L. Curtiss, B. Leon, A. Ballesteros-Tato, T.D. Randall, F.E. Lund, Birmingham, AL, p.A1269**
- P1011 SHIP-1 Regulation of Innate Immune Cells in the Generation of Allergic Inflammation/X. Ye, Y. Wei, F. Zhang, L. Wang, L. Zhang, H. Tang, Z. Chen, W.G. Kerr, T. Zheng, Z. Zhu, New Haven, CT, p.A1270**
- P1012 Platelet CCR3 Receptors Are Involved in the Recruitment and Migration of Platelets During Allergic Inflammation/S. Shah, Y.R. Vasquez, C.P. Page, S. Pitchford, London, United Kingdom, p.A1271**
- P1013 Proteomic and Phosphoproteomic Changes Induced by Prolonged Activation of Human Eosinophils with IL-3/S. Esnault, D.F. Mosher, N.N. Jarjour, J.J. Coon, A.S. Herbert, Madison, WI, p.A1272**

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- P1014 Rapid Production of Type Iii Interferons After Influenza Virus Infection in Allergic Asthma Restricts Th2 Inflammation and Enhances Antiviral Resistance/H.J. Kim, Y.J. Jeon, S. An, A. Jo, Seoul, Korea, Republic of, p.A1273**
- P1015 Electric Field Treatment - a Shocking Therapy in a Mouse Model of Allergic Asthma/Z. Knowlden, T. Chapman, S. Eliseeva, D.A. Dean, S.N. Georas, Rochester, NY, p.A1274**
- P1016 Airway Epithelial Repair: Cell Subtypes or Proliferation/Differentiation Dependent?/G.K. Singhera, T. Guo, K. Yamasaki, D.D. Sin, D.R. Dorscheid, Vancouver, Canada, p.A1275**
- P1017 Analysis on the Correlation of Fungus Extracts Allergen and the Components of Aspergillus Fumigatus sIgE Sensitization in Respiratory Allergic Diseases Patients in Southern China/W. Luo, Z. Wu, H. Hu, B. Sun, Guangzhou, China, p.A1276**
- P1018 Elevated Periostin Concentrations in the Bronchoalveolar Lavage Fluid of Eosinophilic Pneumonia/K. Nakagome, Y. Nakamura, T. Kobayashi, S. Ohta, J. Ono, K. Kobayashi, K. Ikebuchi, T. Noguchi, T. Soma, K. Yamauchi, K. Izuhara, M. Nagata, Saitama, Japan, p.A1277**
- P1019 Phenotypes of Allergic Bronchopulmonary Aspergillosis Identified by Cluster Analysis/T. Oguma, J. Tanaka, K. Harada, K. Tomomatsu, K. Asano, Kanagawa, Japan, p.A1278**
- P1020 Fungal Hyphae-Containing Eosinophilic Bronchial Mucus Plugs in Patients with Allergic Bronchopulmonary Aspergillosis Without Asthma Symptoms/O. Narumoto, A. Konno, Y. Nakamura, J. Suzuki, H. Tashimo, M. Kitani, S. Akashi, A. Hebisawa, H. Matsui, K. Ohta, Tokyo, Japan, p.A1279**
- P1021 Impacts of Smoking and Serum IgE Level on Blood Eosinophil Counts in the General Population: The Nagahama Study/H. Sunadome, H. Matsumoto, Y. Izuhara, T. Nagasaki, Y. Kanemitsu, Y. Ishiyama, C. Morimoto, T. Oguma, I. Ito, S. Muro, Y. Tabara, F. Matsuda, K. Chin, T. Hirai, Kyoto, Japan, p.A1280**
- P1022 Analysis on Correlation Between sIgE to Carbohydrate Cross-Reactive Determinants and Plant-Related Allergens sIgE/W. Luo, B. Sun, Z. Wu, Guangzhou, China, p.A1281**
- P1023 Metagenomic Analysis of Human Nasal Microbiome in Chronic Rhinosinusitis Using Nasal Secretion/Y. Kim, M. Lee, D.W. Kim, Y.-M. Kim, J.-H. Mo, H.-W. Shin, Seoul, Korea, Republic of, p.A1282**
- P1024 TYRO3: A Gene for Allergic Rhinitis?/J. Kanazawa, H. Masuko, Y. Yatagai, H. Yamada, T. Sakamoto, H. Kitazawa, H. Iijima, T. Naito, T. Hirota, M. Tamari, N. Hizawa, Tsukuba, Japan, p.A1283**
- P1025 Interferon-Gamma Secreted by Neutrophils Induces Chronic Rhinosinusitis Progression Via Epithelial-To-Mesenchymal (EMT) Transition/M. Lee, D.W. Kim, R. Khalmuratova, Y.-M. Kim, D.H. Han, H.-J. Kim, D.-Y. Kim, J.-W. Park, H.-W. Shin, Seoul, Korea, Republic of, p.A1284**
- P1026 Customizable Allergen Desensitization Using Biodegradable Microspheres Containing Th1 Allergen Epitopes/S. Killingbeck, A. Haczk, Davis, CA, p.A1285**
- P1027 Epigenetic Network Analysis Suggests a Role for Methylation as a Driver of Prenatal Vitamin D Associations with Childhood Wheeze/C. Peng, S.L. Rifas-Shiman, M.-F. Hivert, A. Cardenas, D.R. Gold, J. Sordillo, C.A. Carmargo, Jr, E. Oken, A. Baccarelli, A.A. Litonjua, D.L. DeMeo, Boston, MA, p.A1286**
- P1028 High Frequency of Atopy with Geographic Variation in Non-Cystic Fibrosis Bronchiectasis/P.Y. Tiew, M. Mac Aogain, A.Y.H. Lim, T.B. Low, G.L. Tan, T. Hassan, S.L. Pang, Z.Y. Lee, X.W. Gwee, C. Martinus, Y.Y. Sio, S.A. Matta, T.H. Ong, R.H. Keir, M.S. Koh, J.A. Abisheganaden, J.D. Chalmers, F.T. Chew, S.H. Chotirmall, Singapore, Singapore, p.A1287**
- P1029 Fevipiprant, a Potent Selective Antagonist of the Prostaglandin D2 Receptor 2, Modulates the Allergic Effector Unit Via Inhibition of Eosinophil Migration Towards Mast Cells/R. Shamri, V.J. Erpenbeck, G. Dubois, D. Sandham, F. Levi-schaffer, Jerusalem, Israel, p.A1288**
- P1030 Inhibitory Activity of STAT6-IP on IL-33-Mediated-IL-13 Production and Macrophage Polarization in an Innate Murine Allergy Model/V. Moarbes, H. Zhao, H. Aldossary, V. Gaudreault, J. Shan, K. Restori, E.D. Fixman, Montréal, Canada, p.A1289**
- P1031 Secretory IgA Induces Cytokine Production and Inhibits Proliferation and Migration of Airway Epithelial Cells/K. Kobayashi, M. Suzukawa, S. Arakawa, H. Matsui, T. Nagase, K. Ohta, Kiyose-shi, Japan, p.A1290**
- P1032 Airway Sensitization with Redox-Modified Cobalt Oxide Nanomaterials Induces Ectopic Lymphoid Structures in Ovalbumin-Challenged BALB/c mice/J.G. Wagner, S. Dekkers, E. Eldridge, R. Vandebriel, J.R. Harkema, F.R. Cassee, East Lansing, MI, p.A1291**

THEMATIC POSTER SESSION

A33 ASTHMA MECHANISMS

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area J (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion

12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: D.C. Newcomb, PhD, Nashville, TN

- P1034 Biphasic Responses of Sphingolipids in Airway Inflammation and Airway Hyperreactivity/J.L. Sturgill, C. Oyeniran, A. Montpetit, S. Miltien, S. Spiegel, Lexington, KY, p.A1292**
- P1035 Eosinophil Binding and Activation Is Regulated Through the Coordinated Expression of miR-1 Endothelial Targets/A. Korde, F. Ahangari, S. Mehta, L.E. Cohn, A. Gonzalez, S. Takyar, New Haven, CT, p.A1293**
- P1036 The Role of Elongation of Very Long Chain Fatty Acids Family Member 6 (Elov16) in Allergic Airway Inflammation/K. Yoshida, Y. Morishima, H. Sakurai, Y. Tsunoda, M. Nakajima, M. Matsuyama, T. Kiwamoto, Y. Matsuno, I. Yukio, N. Hizawa, Tsukuba, Japan, p.A1294**

- P1037** **The Effect of Cd4+ T Cell Derived Heparin-Binding Epidermal Growth Factor in a Model of Acute Allergic Asthma/S.** Farahnak, L. Simon, M. Chen, J.G. Martin, Montreal, Canada, p.A1295
- P1038** **HSP90 Inhibition Reverts IL13- and IL17-Induced Goblet Cell Metaplasia in Human Airway Epithelia/A.** Pezzulo, R.A. Tudas, C.G. Stewart, P.J. Taft, N.D. Gansemer, D.A. Stoltz, J. Zabner, Iowa City, IA, p.A1296
- P1039** **Phenotypic Conversion of Macrophages by FoxO1 Mediates Airway Remodeling in Allergic Inflammation/S.** Chung, Y.-G. Lee, M. Karpurapu, J.W. Christman, Columbus, OH, p.A1297
- P1040** **The Unfolded Protein Response Is Heightened in Eosinophilic Asthma/P.S.** Pathinayake, K.S. Nichol, K.J. Baines, L.G. Wood, A.C.-Y. Hsu, P.A. Wark, New Lambton Heights, Australia, p.A1298
- P1041** **AP-1 Subunit Overexpression Drives a Non-Allergic Asthma Phenotype in Mice/L.M.** Marsh, A. Gungl, V. Biasin, A. Olschewski, G. Kwapiszewska, Graz, Austria, p.A1299
- P1042** **Ambient Vapor- and Particle-Phase Air Pollutants Simultaneously Collected at the Same Location in Southern California Promote Allergic Sensitization by Targeting Different Immune Responses/N.** Li, R. Lewandowski, D. Sidhu, J. Wagner, P. Akbari, A. Eiguren-Fernandez, J. Harkema, A. Cho, J. Froines, East Lansing, MI, p.A1300
- P1043** **Club Cell Protein-16 Modifies Airway Inflammation in an IL-13 Model of Induced Airway Responses/J.** Gozdz, D. Francisco, A. Manne, K.J. Addison, F.D. Martinez, J.G. Ledford, S. Guerra, M. Kraft, Tucson, AZ, p.A1301
- P1044** **Neuropeptide Y Is Required for the Development of Type-2 Responses and Allergen-Induced Airway Hyperresponsiveness and Inflammation/N.** Oda, N. Miyahara, A. Taniguchi, D. Morichika, S. Senoo, U. Fujii, M. Shibakura, Y. Maeda, K. Kiura, A. Kanehiro, Okayama, Japan, p.A1302
- P1045** **Characterization of Paraoxonases in Mice with Obese Allergic Asthma/Z.** Yang, J. Daly, D.E. Winnica, F. Holguin, V. McQuade, J.L. Ingram, R.M. Tighe, L.G. Que, Durham, NC, p.A1303
- Facilitator:** R.A. Rahimi, MD, PhD, Boston, MA
- P1046** **Dietary Fatty Acids Induce Robust Inflammatory Responses in Human Lung Cells/S.** Rutting, D. Xenaki, L.G. Wood, J. Horvat, P. Hansbro, B.G. Oliver, Sydney, Australia, p.A1304
- P1047** **The Soluble IL-22 Decoy Receptor, IL-22Ra2, Promotes Allergic Airway Disease Pathogenesis/M.L.** Manni, M.D. Pilarski, D.B. Ukani, S.N. Patel, K.J. McHugh, D.A. Pociask, J.K. Kolls, J.F. Alcorn, Pittsburgh, PA, p.A1305
- P1048** **IL-33 Signaling Contributes to Pollutant-Induced Allergic Airway Inflammation/K.** De Grove, S. Provoost, H. Braun, A. Teufelberger, O. Krysko, R. Beyaert, G.G. Brusselle, G.F. Joos, T. Maes, Ghent, Belgium, p.A1306
- P1049** **Toll-Like Receptor 2 Directly Activates Pulmonary Type2 Innate Lymphoid Cells and Modify the Asthmatic Phenotype/T.** Ishii, Y. Nikura, Y. Murakami, T. Nagase, N. Yamashita, Tokyo, Japan, p.A1307
- P1050** **MAPK13 Induction Co-Locates with MUC5AC to Mucin Granules/B.** Gerovac, J. Yantis, S.L. Brody, S.P. Keeler, M.J. Holtzman, St. Louis, MO, p.A1308
- P1051** **Mechanism of Periostin Production in Human Bronchial Smooth Muscle Cells/K.** Makita, Y. Mikami, H. Matsuzaki, N. Miyashita, H. Takeshima, S. Noguchi, M. Horie, H. Urushiyama, M. Iikura, M. Hojo, Y. Yamauchi, T. Nagase, Tokyo, Japan, p.A1309
- P1052** **LTA4 Hydrolase Activation and LTB4 Production by Eosinophils in Asthma/K.** Pal, J.W. Steinke, Y.M. Shim, S.-S.J. Sung, L. Borish, Charlottesville, VA, p.A1310
- P1053** **GLCCI1 Deficiency Downregulates the Glucocorticoids Activation in Asthmatic Mice/J.** Feng, C. Hu, Q. Xun, X. Li, X. Hu, L. Luo, L. Qin, R. He, Changsha, China, p.A1311
- P1054** **Modified Si-Jun-Zi-Tang Attenuate Airway Inflammation in a Chronic Murine Model of Asthma Via Suppression of mTORC1 Pathway/H.** Jin, L. Wang, J. Ye, Hangzhou, China, p.A1312
- P1055** **Murine Sensitization with House-Dust Mite Extract Alters the Immune Response Towards H1N1/K.** Shahangian, R. Chen, D.A. Ngan, Y. Oh, D.A. Knight, D.R. Dorscheid, T.-L. Hackett, K.M. McNagny, J.A. Hirota, M. Niikura, P. Man, D.D. Sin, Vancouver, Canada, p.A1313
- P1056** **Soluble ST2 (sST2)/ IL-33 Balance Regulates Neutrophil Chemotaxis Release from Bronchial Epithelial Cells/M.** Watanabe, M. Sada, K. Nakamoto, T. Inui, Y. Ogawa, T. Yokoyama, K. Honda, T. Saraya, D. Kurai, H. Ishii, H. Takizawa, Tokyo, Japan, p.A1314
- P1057** **Upregulation of CCL5 Production in the Airway Epithelium at the Time of the Viral Infection/M.** Sada, M. Watanabe, T. Inui, K. Nakamoto, H. Takizawa, Tokyo, Japan, p.A1315
- P1058** **The Effects of Viral Components, Single-Stranded RNA and Double-Stranded RNA, on Allergen-Induced Airway Hyperresponsiveness and Airway Inflammation/S.** Ashino, H. Kitamura, T. Akaba, K. Takeyama, J. Tamaoki, J. Yagi, Tokyo, Japan, p.A1316
- Facilitator:** I.P. Lewkowich, PhD, Cincinnati, OH
- P1059** **Humidifier Disinfectant and Allergic Asthma Induction/K.** Lee, M.-K. Song, Jeongeup, Korea, Republic of, p.A1317
- P1060** **Chitin Induced Production of Prostaglandin E2 in Alveolar Macrophages and Bronchial Epithelial Cells/T.** Takeshige, N. Harada, K. Matsuno, A. Ishimori, Y. Tanabe, H. Sasano, A. Nakamura, S. Harada, Y. Katsura, F. Makino, J. Ito, R. Atsuta, H. Akiba, K. Takahashi, Tokyo, Japan, p.A1318
- P1061** **An Effect of Clarithromycin Treatment in HDM-Induced Allergic Airway Inflammation in Mice/K.** Takahashi, H. Sadamatsu, H. Tashiro, G. Kato, M. Uchida, S. Kimura, N. Sueoka-Aragane, Saga, Japan, p.A1319
- P1062** **Investigation of Bronchial Epithelial Cell Repairing and Regulation of Epithelial Cytokine Expression by Glucocorticoid/K.** Chibana, T. Shiobara, T. Watanabe, Y. Horigane, Y. Nakamura, Y. Shimizu, Y. Ishii, Mibu Tochigi, Japan, p.A1320
- P1063** **Inhibition of CD163 Signaling Suppress Airway Hyperresponsiveness in Mouse Models of Asthma/Y.** Tokunaga, H. Imaoka, Y. Morimatsu, Y. Kaku, Y. Sakazaki, M. Matsuoka, Y. Fujiwara, Y. Komohara, T. Kawayama, M. Takeya, T. Hoshino, Kurume, Japan, p.A1321

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- P1064** **The Influence of Alpha Lipoic Acid in Combination with L-Ascorbic Acid on the Antioxidant Enzymes Levels in the Pulmonary Tissues of Obese Asthmatic Mice/R. Pawliczak, P. Kleniewska, Lodz, Poland, p.A1322**
- P1065** **Whole-Genome Admixture Mapping Reveals Novel Loci for Pre-Bronchodilator and Maximum, Post-Bronchodilator Lung Function in African Americans from the Severe Asthma Research Program/V.E. Ortega, M. Daya, E. Ampleford, J.G. Zein, N. Rafaels, A.T. Hastie, B.D. Levy, M. Castro, S.C. Erzurum, J.V. Fahy, A.M. Fitzpatrick, E. Israel, N.N. Jarjour, S.E. Wenzel, G.A. Hawkins, W.C. Moore, S.P. Peters, K. Barnes, E.R. Bleeker, D.A. Meyers, Winston-Salem, NC, p.A1323**
- P1066** **Shared Genetic Architecture Between Asthma and Allergic Diseases: A Genome-Wide Cross Trait Analysis from UK Biobank/Z. Zhu, D. Christiani, L. Liang, Boston, MA, p.A1324**
- P1067** **Reproducible and Integrative Analysis of Asthma Transcriptomic Data/M. Kan, M. Shumyatcher, B.E. Himes, Philadelphia, PA, p.A1325**
- P1068** **Genomic and Transcriptomic Analyses of CC16 as a Biomarker for Asthma/X. Li, S. Guerra, H. Li, J.G. Ledford, W.W. Busse, S.C. Erzurum, W.C. Moore, N. Kaminski, S.E. Wenzel, D.A. Meyers, M. Kraft, E.R. Bleeker, Tucson, AZ, p.A1326**
- P1069** **Phenotypic, Transcriptional and T Cell Receptor Repertoire Analysis of Human CD4 and CD8 Lung Tissue Resident Memory T Cells/N. Schoettler, J. Huffman, C.L. Hrusch, A.I. Sperling, C. Ober, Chicago, IL, p.A1327**
- P1070** **How Important Is Allergic Sensitization as a Cause of Atopic Asthma?/Y. Yatagai, J. Kanazawa, H. Masuko, H. Yamada, T. Sakamoto, H. Kitazawa, H. Iijima, T. Naito, T. Hirota, M. Tamari, N. Hizawa, Tsukuba City, Japan, p.A1328**
- Facilitator:** A. Haczku, MD, PhD, Davis, CA
- P1071** **Soluble Fibre Downregulates Airway Histone Deacetylase 9 Expression Which Is Associated with Eosinophilic Inflammation in Asthma/R. McLoughlin, B.S. Berthon, K.J. Baines, P.G. Gibson, G.B. Rogers, D. Arnold, L.G. Wood, Callaghan, Australia, p.A1329**
- P1072** **The Organic Anion Transporter Polypeptides (OATP) in the Mouse Lung and Human Airway Epithelium: Important Molecular Targets in the Development of Inhaled Statins/A.A. Zeki, S. Ott, K. Gohil, Davis, CA, p.A1330**
- P1073** **Joint Test of Allelic Dosage and Local Ancestry Identifies INTS3 as New Susceptibility Gene for Asthma Among African American Individuals/H. Gui, A.M. Levin, S. Xiao, M. Yang, J. Yang, S. Hochstadt, K. Whitehouse, A. Carlton, D. Rynkowski, D. Lanfear, R. Kumar, E.G. Burchard, L.K. Williams, Detroit, MI, p.A1331**
- P1074** **HIFa Subunits Alter Asthma Phenotype in a Murine Model/L. Ma, C.J. Javier, R. Al Kolla, A. Moshensky, C.M. Bojanowski, J. Shin, L.E. Crotty Alexander, V. Chun, San Diego, CA, p.A1332**
- P1075** **Corticosteroid Insensitivity of Monocyte-Derived Macrophages from Severe Neutrophilic Asthmatics Is Not Associated with Differentiation Bias/N. Dauletbaev, A. Dintakurti, K.G. Tantisira, P. Castaldi, C. Fugere, R. Olivenstein, L.C. Lands, Montreal, Canada, p.A1333**
- P1076** **Transcriptomic Analysis of Early Airway Epithelial Inflammatory Responses/R.J. Langley, S.S. Hussain, N. Baumlin, M. Nair, M.A. Salathe, H.S. Chand, Mobile, AL, p.A1334**
- P1077** **The Potential Role of Serum TGF- β as a Biomarker for Asthma/S. Miyoshi, H. Nagase, M. Ujino, A. Ito, H. Sakasegawa, T. Esaki, K. Kobayashi, Y. Koizumi, Y. Tanaka, N. Sugimoto, M. Kuramochi, H. Arai, M. Yamaguchi, K. Ohta, Tokyo, Japan, p.A1335**
- P1078** **Vertical Sleeve Gastrectomy in Allergen-Challenged Obese Mice Is Associated with Reduced Airway Resistance and Fibrosis/J.L. Ingram, V. McQuade, B. Theriot, J. Niu, J. Daly, J. Wong, J. Tong, R.M. Tighe, L.G. Que, D. D'Alessio, Durham, NC, p.A1336**
- P1079** **c-Kit Is a Marker of Distinct Type 2 Innate Lymphoid Cell (ILC2) Subpopulations with Differential Functional Properties/T. Hochdorfer, C. Winkler, J. Mjosberg, K. Pardali, Gothenburg, Sweden, p.A1337**
- P1080** **Activin-A Regulates Expression of TLR3 and TLR4 by Asthmatic Bronchial Epithelial Cells in an Autocrine Fashion/M. White, K.A. Barrow, S.R. Reeves, R. James, J.S. Debley, Seattle, WA, p.A1338**
- P1081** **Associations Between Asthma Severity and Responsiveness to Th2- and Th17-Derived Cytokines in Pediatric Asthmatics/J.W. McAlees, T. Baker, S.L. Hall, E. Kim, C. McKnight, A. Lindsley, R. Strait, X. Zhang, J. Biagini Myers, M. Butsch Kovacic, I.P. Lewkowich, Cincinnati, OH, p.A1339**
- P1082** **Predictors of Responsiveness to Omalizumab Therapy in Severe Persistent Allergic Asthma/A. Almadani, I. ul Haq, E. Ryan, A.D. O'Brien, Limerick, Ireland, p.A1340**
- P1083** **Severe 'T2 Low' Asthma Is Uncommon and Frequently Associated with Co-Morbidities Known to Cause Respiratory Symptoms/D.J. Jackson, N. Aljamil, C. Roxas, M. Fernandes, L. Green, L. Osman, M. Bolton, G. D'Ancona, B.D. Kent, London, United Kingdom, p.A1341**

THEMATIC POSTER SESSION

A34 ASTHMA CLINICAL STUDIES I

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area H (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.**Discussion:** 11:15-12:00: authors will be present for individual discussion

12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: T.F. Carr, MD, Tucson, AZ

P867 **Oral Contraception Is Associated with Higher Risk of Lifetime Asthma in Women of Reproductive Age/J.L. Morales-Estrella, J.G. Zein, Cleveland, OH, p.A1342**

P868 **Glucocorticoid Sparing Effects of Reslizumab in the Treatment of Eosinophilic Granulomatosis with Polyangiitis/B.D. Kent, M. Fernandes, G. d'Ancona, L. Green, M. Bolton, C. Roxas, J. Kavanagh, S. Agarwal, D.J. Jackson, London, United Kingdom, p.A1343**

- P869 Obstructive Sleep Apnea and Asthma Exacerbation Severity Among Adult Inpatients/S.K. Luthe, A. Hirayama, T. Goto, M.K. Faridi, C.A. Camargo, K. Hasegawa, Boston, MA, p.A1344**
- P870 Phenotyping Older Adults with Asthma Via Clinical Cluster Analysis/R.J. Folz, J. Myers, A. Jorayeva, R.J. Folz, Cleveland, OH, p.A1345**
- P871 Serious Asthma Outcomes and Asthma Exacerbations with Maintenance on Inhaled Corticosteroid (Mometasone Furoate)/Long-Acting Beta Agonist (Formoterol) Combination Compared to Step-Down to Mometasone Monotherapy/C.L.J. Weinstein, D. Gates, N. Ryan, X. Zhang, T. Shekar, S.J. Lane, I.O. Agache, R.A. Nathan, Rahway, NJ, p.A1346**
- P872 Low Dose Mepolizumab in Eosinophilic Granulomatosis with Polyangiitis/D.J. Jackson, L. Green, M. Fernandes, M. Bolton, C. Roxas, G. D'Ancona, S. Agarwal, B.D. Kent, London, United Kingdom, p.A1347**
- P873 Frequency of Obesity and Adiposity in Asthma and Its Relationship to Measures of Asthma Control in a Nigerian Tertiary Hospital/O.T. Ojo, Lagos, Nigeria, p.A1348**
- P874 Small Airway Inflammation Is Associated with Residual Airway Hyperresponsiveness in Patients with Th2-High Asthma/T. Asano, Y. Kanemitsu, M. Takemura, K. Fukumitsu, N. Takeda, A. Niimi, Nagoya, Japan, p.A1349**
- P875 Effects of Fluticasone Furoate/Vilanterol (FF/VI) on Patient-Reported Outcomes: The Salford Lung Study in Asthma (SLS Asthma)/H. Svedater, N. Bosanquet, L. Jacques, R. Jones, J. Lay-Flurrie, D.A. Leather, J. Vestbo, A. Woodcock, Brentford, United Kingdom, p.A1350**
- P876 Bioactive Lipids in Sputum of Older Adults with Asthma as Potential Markers of Disease Phenotypes/A. Blumental-Perry, A. Karim, D. Schatzler, X. Li, A. Jorayeva, B.J. Polivka, R.J. Folz, Cleveland, OH, p.A1351**
- P877 Predicting Positive Bronchial Challenge Test in Older Adults with Asthma/B.J. Polivka, R. Cavallazzi, A. Jorayeva, J. Myers, B.L. Beatty, R.J. Folz, Louisville, KY, p.A1352**
- P878 A Novel Tool to Measure Clinical Activity and Outcomes in Eosinophilic Granulomatosis with Polyangiitis/J.L. Denson, Y.T. Dollin, R.M. Dunn, A.-M. Dyer, G.J. Gleich, P.A. Merkel, U. Specks, P. Khoury, A. Klion, P.F. Weller, P. Akuthota, V. Chinchilli, M.E. Wechsler, Denver, CO, p.A1353**
- P879 Discovery and Development of AZD1402/PRS-060 a Potent and Selective Blocker of the IL-4 Receptor Alpha/G. Matschiner, A. Allersdorfer, B. Rattenstetter, H. Gille, A. Hohlbaum, J. Taylor, D. Keeling, M.F. Fitzgerald, Freising, Germany, p.A1354**
- P880 Contribution of Asthma Control Test (ACT) Total Score \geq 20 or Improvement from Baseline \geq 3 to the Composite Primary Effectiveness Endpoint in the Salford Lung Study in Asthma (SLS Asthma)/S. Collier, N. Barnes, N. Diar Bakerly, J.P. New, L. Frith, L.A. Jacques, J. Fletcher, H. Svedater, J. Vestbo, A.A. Woodcock, Uxbridge, United Kingdom, p.A1355**
- Facilitator:** L.E. Crotty Alexander, MD, San Diego, CA
- P881 Improvements in Exacerbation Rate and Lung Function with Weight-Based Intravenous Reslizumab Dosing in Patients with Baseline High Body Weight/K.R. Murphy, M. McDonald, M.C. Garin, Boys Town, NE, p.A1356**
- P882 Clinical Diagnostic Criteria for Allergic Bronchopulmonary Mycosis/K. Asano, A. Hebisawa, N. Takayanagi, M. Taniguchi, Y. Nakamura, T. Ishiguro, J. Tanaka, K. Watai, Y. Fukutomi, J. Suzuki, T. Oguma, Kanagawa, Japan, p.A1357**
- P883 Elevated Serum Free IL-18 Levels May Indicate Partial Resistance to Omalizumab/C. Morimoto, T. Tajiri, H. Matsumoto, Y. Gon, R. Ito, S. Hashimoto, M. Suzukawa, K. Ohta, K. Izuhara, J. Ono, S. Ohta, I. Ito, T. Oguma, H. Inoue, T. Iwata, Y. Kanemitsu, T. Nagasaki, Y. Izuhara, A. Niimi, T. Hirai, Kyoto, Japan, p.A1358**
- P884 Obese Severe Asthmatics with Coronary Artery Disease (CAD) Have Worse Asthma Outcomes Compared to Those Without CAD/A.A. Zeki, L. Lagos, M. Wilson, Davis, CA, p.A1359**
- P885 Visits to Emergency Department and Urgent Care Facility by Inner-City Chicago Veterans with Asthma-COPD Overlap Who Are Treated with Montelukast for 2 Years/I. Rubinstein, B. Whitten, M. Heneghan, J. Ng, Chicago, IL, p.A1360**
- P886 Higher Baseline Blood Eosinophil Levels Are Associated with Greater Improvement in Quality of Life with Reslizumab Treatment/J.F. Maspero, M. McDonald, M.C. Garin, Buenos Aires, Argentina, p.A1361**
- P887 Decreases in Blood Eosinophil Levels Correlate with Lung Function Improvement with Reslizumab Treatment/E. Bleecker, M. McDonald, M.C. Garin, Tucson, AZ, p.A1362**
- P888 Assessment of Early Responder Characteristics to Mepolizumab in Steroid-Dependent Eosinophilic Asthma/J. Kavanagh, L. Green, M. Fernandes, M. Bolton, G. d'Ancona, C. Roxas, B. Kent, D. Jackson, London, United Kingdom, p.A1363**
- P889 Efficacy of Vitamin D Supplementation in Asthma Control in Asthmatic Patients with Vitamin D Deficiency/R. Andújar, L. Salinero, F. Illán, A.M. Hernández, Murcia, Spain, p.A1364**
- P890 A Phase I, Randomized, Observer-Blinded, Placebo-Controlled, Single and Multiple Ascending-Dose Study to Investigate the Safety, Pharmacokinetics, and Immunogenicity of BITS7201A in Healthy Volunteers/H. Chen, K. Peng, D.F. Choy, C. Cabanski, A. Fong, F. Brunstein, K. Rajapaksa, I. Templeton, T. Staton, South San Francisco, CA, p.A1365**
- P891 Natural History of TENOR I Patients More than a Decade Later in TENOR II Based on GOLD Classification of Severity of Airflow Obstruction/B.E. Chippis, R.S. Zeiger, E.R. Bleecker, T. Haselkorn, A. Foreman, E. Neiman, F. Kianifard, B. Ortiz, S.J. Szeffer, Sacramento, CA, p.A1366**
- P892 Long-Term Safety of Mepolizumab in Patients with Severe Eosinophilic Asthma: The COLUMBA Study/H.G. Ortega, E.S. Bradford, F.C. Albers, M.J. Gilson, R.G. Price, S.W. Yancey, R. Leigh, S. Khatri, La Jolla, CA, p.A1367**

- P893 The Role of FeNO in Cough Management: A Randomised Controlled Trial**/D.B. Price, R. Buhl, A. Chan, D. Freeman, E. Gardener, C. Godley, K. Gruffydd-Jones, L. McGarvey, K. Ohta, D. Ryan, J. Syk, N.C. Tan, T. Tan, M. Thomas, S. Yang, P.R. Konduru, M. Ngantcha, M. Stagno d'Alcontres, T.S. Lapperre, Singapore, Singapore, p.A1368
- P894 Comparison of the Clinical Features Between Th2-High and Th2-Low Asthma**/A. Fukada, M. Toyoshima, D. Akahori, T. Suda, Hamamatsu, Japan, p.A1369
- Facilitator:** S. Sharma, MD, Aurora, CO
- P895 Adverse Events Associated with Oral Corticosteroids in Asthma**/K.S. Al Efraji, K.M. Johnson, D.P. Wiebe, M. Sadatsafavi, J.M. Fitzgerald, Vancouver, Canada, p.A1370
- P896 Transgender Status Is Associated with Higher Risk of Lifetime Asthma**/J.L. Morales-Estrella, M. Boyle, J.G. Zein, Cleveland, OH, p.A1371
- P897 Durability of Clinical Response Following Long-Term Treatment with Mepolizumab in Patients with Severe Eosinophilic Asthma: The COLUMBA Study**/F.C. Albers, H. Ortega, E.S. Bradford, M.J. Gilson, R.G. Price, S.W. Yancey, W.C. Moore, Research Triangle Park, NC, p.A1372
- P898 Impact of Previous Asthma Symptoms and Exacerbations on Asthma Control Test (ACT) Responders in the Salford Lung Study in Asthma (SLS Asthma)**/A.A. Woodcock, N.D. Bakerly, S. Collier, L. Jacques, J. Lay-Flurrie, D.A. Leather, J.P. New, J. Vestbo, Manchester, United Kingdom, p.A1373
- P899 PrEP-001, a Novel Immunomodulator for Prevention of Viral Respiratory Infection in Subjects with Asthma**/B. Malcolm, A. Slater, R. Muldoon, T. Bjaaland, M. Johnson, P. Whittaker, C. Poll, J. Efthimiou, T. Jenkins, Newark, NJ, p.A1374
- P900 Reslizumab High-Responder and Super-Responder Asthma Patients**/M. Wechsler, M. McDonald, M.C. Garin, Denver, CO, p.A1375
- P901 Up to Four Years of Longitudinal Follow-Up for Patients with Severe Eosinophilic Asthma Receiving Reslizumab**/L. Pahas, A. Bourdin, M. McDonald, P. Meizlik, P. Chanez, Marseille, France, p.A1376
- P902 Accuracy of Smartphone-Based Spirometry (WING) Use at Home in Asthma**/K. Sumino, A. Cohen, B.M. Patterson, J.J. Tarsi, C.W. Goss, K. Schechtman, M. Castro, St. Louis, MO, p.A1377
- P903 Cognitive Functions in Nigerian Patients with Clinically Stable Asthma; Assessment Using Automated Neuropsychological Test Battery**/B.O. Adeniyi, T.A. Sunmonu, O.S. Ilesanmi, O.B. Oyegunle, G.E. Erhabor, Owo, Nigeria, p.A1378
- P904 Effect of Endoscopic Sinus Surgery for Chronic Rhinosinusitis on the State of Coexisting Asthma**/T. Tajiri, S. Fujita, A. Toriyama, A. Sokai, K. Gotoh, H. Fukada, Y. Nakamura, H. Kita, Takatsuki-shi, Japan, p.A1379
- P905 Clinical Efficacy of Omalizumab, as Measured by Patient-Reported Outcomes, in Chinese Patients with Moderate or Severe Allergic Asthma**/C. Wang, J. Li, J. Kang, J. Yang, Z. Lin, S. Wang, M. Humphries, I. Kottakis, R. Fogel, N. Zhong, Chongqing, China, p.A1380
- P906 Risk Factors and Biomarkers of Severe Asthma in Brazil: A Case-Control Study Nested in The ProAR Cohort**/A.A. Cruz, A. Souza-Machado, E.V. Ponte, P.C. Almeida, V. Biao-Lima, C.A. Figueiredo, D. Myles, J.H. Riley, A.T. Bansal, M.L. Barreto, Salvador, Brazil, p.A1381
- P907 Cross-Sectional Analysis of Adults with Previously Untreated Severe Asthma (SA) Followed Up After Treatment: A Brazilian Severe Asthma Cohort (ProAR)**/A.A. Cruz, E.V. Ponte, P.C.A. Almeida, V. Biao-Lima, C.A. Figueiredo, J.H. Riley, D. Myles, A.T. Bansal, A. Souza-Machado, Salvador, Brazil, p.A1382
- Facilitator:** A.E. Dixon, MD, Burlington, VT
- P908 Distinct Distribution of Intrathoracic and Visceral Fat in Asthma**/A. Perelas, S.A. Comhair, L.A. Mavrakis, S.C. Erzurum, J. Lempel, Cleveland, OH, p.A1383
- P909 First-in-Man Evaluation of the Pharmacokinetics of AZD7594 and Abediterol in Fixed Dose Combination Via Dry Powder Inhalation**/S. Prothon, H.-L. Su, Y. Chen, A.-C. Ekelund, U. Wahlby Hamren, H. Forsman, J. Steele, A. Aggarwal, Gothenburg, Sweden, p.A1384
- P910 The Efficacy of the Leukotriene Receptor Antagonist Pranlukast in Asthma Patients Complicated with Allergic Rhinitis**/T. Etsuko, M. Toriyama, H. Hara, T. Hanawa, K. Takeyama, M. Kondo, J. Tamaaki, Shinjuku, Tokyo, Japan, p.A1385
- P911 Asthma Variables and Associations with HIV Status**/J. Ries, M. Fitzpatrick, M. Gingo, A.M. Morris, Pittsburgh, PA, p.A1386
- P912 Predictive Factors of Accelerated Lung Function Decline in Adult Asthma**/S. Graff, C. Moermans, M. Henket, V. Paulus, F. Schleich, R. Louis, Liège, Belgium, p.A1387
- P913 Effects of Aminophylline on Airway Remodeling After Sensitization and Repeated Allergen Challenge in Brown Norway Rats**/C.C. Lin, M.W. Lin, F.T. Chang, New Taipei City, Taiwan, p.A1388
- P914 Serum IgE Levels as Predictor for Treatment Outcomes in Chinese Patients with Moderate or Severe Allergic Asthma Treated with Omalizumab**/J. Li, J. Kang, C.Z. Wang, J. Yang, Z. Lin, S. Wang, M. Humphries, I. Kottakis, R. Fogel, N. Zhong, Guangzhou, China, p.A1389
- P915 Ultralow Dose Pharmacokinetic and Pharmacodynamic Study of Abediterol in Asthmatic Patients in Two Devices**/C. Astbury, J. Beier, H. Pujol, L. Jimenez, B. Seoane, A. Aggarwal, Barcelona, Spain, p.A1390
- P916 Use of Omalizumab in Mexican Patients with a Diagnosis of Moderate to Severe Non-Atopic Asthma: An Observational Study**/J. Herrera, Puebla, Mexico, p.A1391
- P917 Severe Exacerbations and Inhaled Corticosteroid Load with As-Needed Budesonide/Formoterol vs Maintenance Budesonide in Mild Asthma**/E. Bateman, H.K. Reddel, P.M. O'Byrne, P.J. Barnes, N. Zhong, C. Keen, C. Jorup, R. Lamarca, A. Siwek-Posluszna, M. FitzGerald, Cape Town, South Africa, p.A7654

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- P918 Efficacy and Safety of As-needed Budesonide/Formoterol in Mild Asthma/P.** O'Byrne, M. FitzGerald, E.D. Bateman, P.J. Barnes, N. Zhong, C. Keen, C. Jorup, R. Lamarca, S. Ivanov, H.K. Reddel, Hamilton, Canada, p.A7655
- P919 Pharmacodynamic and Clinical Efficacy Data from Patient Sputum Subgroups in DREAM Treated with Mepolizumab Across a 10-Fold Dose Range/C.** Prazma, R. Katial, P.H. Howarth, E. Bradford, H. Ortega, S.W. Yancey, Research Triangle Park, NC, p.A7656
- P920 Effect of Mepolizumab (100 mg Subcutaneous) on Exacerbation Rate in Patients with Severe Eosinophilic Asthma by Omalizumab Eligibility (US Criteria), and Immunoglobulin E and Eosinophilic Subgroups/M.C.** Liu, M. Humbert, D.J. Bratton, S.W. Yancey, E.S. Bradford, S. Hozawa, F.C. Albers, Baltimore, MD, p.A7657
- P928 In Vitro Dose Linearity of Ultralow Dose Abediterol Delivered by Two Devices for a Pharmacokinetic (PK)/ Pharmacodynamic (PD) Study in Asthmatic Patients/K.** Steltner, M. Arlt, S. Hoe, A. Doty, C. Lampa, S. Sides, T. Bentley, D. Lechuga-Ballesteros, C. Astbury, Bad Homburg, Germany, p.A1398
- P929 Smoking in Inner City Severe Asthmatics: Influence on Immunoglobulin E and Eosinophilia/M.** Ahmad, J. Mantas, M.S. Aslam, A. Arslan, T. Thakur, N. Tambe, R. Dhingra, E.S. Schulman, Philadelphia, PA, p.A1399
- P930 Detection of 112 Allergen Components in Asthma Patients with Polysensitization in Southern China/H.** Hu, W. Luo, B. Sun, Guangzhou, China, p.A1400
- P931 The Role of Forced Oscillation Technique to Diagnose Patients with Cough Variant Asthma/F.** Koike, Y. Otani, S. Oyama, W. Furuie, J. Endo, Y. Nakamura, M. Akaza, T. Sasano, Y. Miyazaki, N. Inase, Y. Sumi, Tokyo, Japan, p.A1401
- P932 Inhaled Corticosteroid (ICS) and Long Acting Beta-Adrenoceptor Agonist (LABA) Therapy Adherence Reporting and Monitoring in Clinical Trials of Severe Adult Asthma Drug Treatments: A Systematic Review/M.** Mokoka, M.J. McDonnell, S. Cormican, F. Boland, F. Doyle, R.W. Costello, Dublin, Ireland, p.A1402
- P933 The Dosing Period of Systemic Corticosteroid Therapy May Associate with the Relapse of Idiopathic Chronic Eosinophilic Pneumonia/A.H.** Sano, Osakasayama, Japan, p.A1403
- P934 Bronchial Thermoplasty: Increased Cough Receptor Sensitivity to Capsaicin Predict Positive Therapeutic Response/K.** Yamamura, J. Hara, N. Ohkura, T. Sakai, M. Abo, T. Kobayashi, J. Suzuki, K. Saeki, H. Koba, S. Watanabe, Y. Uchida, Y. Tambo, T. Sone, H. Kimura, K. Kasahara, Kanazawa, Japan, p.A1404

THEMATIC POSTER SESSION

A35 ASTHMA CLINICAL STUDIES II

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area H (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: B.D. Medoff, MD, Boston, MA

- P922 Impact of Co-Morbidity of Rhinitis on Asthma Symptoms Is Less in Obese Asthmatic Patients Compared to Non-Obese Asthmatic Patients/M.** To, O. Katsube, S. Yamawaki, S. Soeda, Y. Kono, N. Honda, I. Kano, K. Haruki, Y. To, Saitama, Japan, p.A1392
- P923 Treatment of Steroid-Dependent Asthmatics with Mepolizumab/R.A.** Strauss, Fairview Park, OH, p.A1393
- P924 Tiotropium Attenuates Refractory Cough and Capsaicin Cough Reflex Sensitivity in Patients with Asthma/K.** Fukumitsu, Y. Kanemitsu, T. Asano, N. Takeda, S. Fukuda, O. Takakuwa, H. Ohkubo, K. Maeno, Y. Ito, T. Oguri, A. Nakamura, A. Niimi, Nagoya, Japan, p.A1394
- P925 Effect of Low-Dose Macrolide Therapy in Asthmatic Patients with Chronic Neutrophilic Rhinosinusitis/K.** Takeyama, T. Akaba, K. Arimura, Y. Shimizu, O. Yagi, E. Tagaya, M. Kondo, J. Tamaoki, Tokyo, Japan, p.A1395
- P926 A Real World, Single Center Experience of Treatment of Severe Eosinophilic Asthma with IL-5 Antagonists; Mepolizumab and Reslizumab/R.** Mylvaganam, L. Rogers, New York, NY, p.A1396
- P927 Validation and Cut-Off Values of the Japan Asthma Control Survey Questionnaire to Evaluate Asthma Control in Asthma Patients/H.** Sano, S. Hozawa, H. Tanaka, Y. Tohda, Osakasayama, Japan, p.A1397
- P935 Use of Mepolizumab in the Treatment of Severe Eosinophilic Asthma/R.A.** Strauss, Fairview Park, OH, p.A1405
- P936 Neutrophil to Lymphocyte Ratio Is a Novel Predictor of Severe Exacerbation in Asthma Patients/T.** Mochimaru, K. Fukunaga, M. Kuwae, R. Watanabe, S. Okuzumi, R. Baba, T. Kamatani, T. Tanosaki, M. Matsusaka, S. Ueda, T. Betsuyaku, Tokyo, Japan, p.A1406
- P937 Exhaled Nitric Oxide (FeNO) Measurement in the Auxiliary Diagnosis of Late-Onset Asthma/R.** Suetake, M. Asami, T. Hirano, K. Hamada, S. Uehara, K. Oishi, Y. Yamaji, N. Edakuni, K. Matsunaga, Ube, Japan, p.A1407
- P938 Fevipiprant Efficacy in Improving Lung Function in Patients with Moderate Uncontrolled Asthma: Study Design of ZEL 1 and ZEL 2 Phase III Randomized Controlled Studies/E.M.** Kerwin, J.F. Maspero, L. Bjermer, D. Lawrence, E. Cahill, V. Mishra, D. Ossa, P. Cardenas, B. Knorr, Medford, OR, p.A1408
- P939 Relationship Between Co-Morbidities and Asthma Control/H.** Kobayashi, Suzuka, Japan, p.A1409

Facilitator: P. Woodruff, MD, MPH, San Francisco, CA

- P940** **Safety and Nasal Cytokine Response of PrEP-001, a Novel Immunomodulatory Nasal Spray for Prophylaxis of Respiratory Viral Infections**/B. Malcolm, T. Jenkins, A. Slater, T. Bjaaland, Newark, NJ, p.A1410
- P941** **Age, Number of Medications, and Allergy Testing in Older Adults with Asthma**/B.J. Polivka, A. Jorayeva, D. Antimisiaris, R.J. Folz, Louisville, KY, p.A1411
- P942** **Sputum Microbiota Stability and Compositional Variation Associated with Clinical Features in Mild-Moderate Asthma and Healthy Non-Asthmatic Adults**/Y.J. Huang, L.A. Begley, O. Ndum, S. Madapoosi, A.P. Baptist, H.A. Boushey, J.V. Fahy, J. Erb-Downward, Ann Arbor, MI, p.A1412
- P943** **Apolipoprotein E Is a Concentration-Dependent Regulator of Pro-Inflammatory Mediator Expression by Asthmatic Airway Epithelial Cells**/O. Kalchiem-Dekel, D.M. Figueroa, E.M. Gordon, M. Kaler, A.V. Barochia, P. Liu, Y. Li, F. Seifuddin, M. Pirooznia, X. Yao, S.J. Levine, Bethesda, MD, p.A1413
- P944** **Clinical, Functional and Inflammatory Abnormalities Related to IL-17 Cytokine Expression in the Bronchial Mucosa of Neutrophilic Asthma Phenotype**/F. Ricciardolo, A. Folino, V. Carriero, M. Bullone, Orbassano (Torino), Italy, p.A1414
- P945** **Treatment with a CD200 Receptor Agonist Aptamer Attenuates Airway Hyperresponsiveness, Airway Inflammation, and Remodelling in a Chronic Murine Model of HDM-Induced Airways Inflammation**/L. Woo, D. An, W.Y. Guo, X. Wang, A. Prodeus, J. Gariépy, J.A. Scott, C.-W.W. Chow, Toronto, Canada, p.A1415
- P946** **Effects of a Potent and Selective p38a MAPK Inhibitor (CHF6297) in a Novel Model of Corticosteroid-Resistant Allergic Asthma**/L. Ravanetti, A. Dijkhuis, T. Dekker, F. Facchinetti, G. Villetti, R. Lutter, Amsterdam, Netherlands, p.A1416
- Facilitator:** J.W. McCallister, MD, Columbus, OH
- P947** **Anti-Inflammatory Effects of Sulforaphane on Adipose Tissue Macrophages Isolated from Obese Subjects with and Without Asthma**/E.J. Williams, L. Guillemainault, B.S. Berthon, K.J. Baines, P.G. Gibson, T. Wright, C. Karihaloo, M. Gately, L.G. Wood, Newcastle, Australia, p.A1417
- P948** **Fevipirant, a Potent Selective Prostaglandin D2 Receptor 2 (DP2) Antagonist, Dose-Dependently Inhibits Pulmonary Inflammation in a Mouse Model of Asthma**/D. Sandham, K. Asano, L. Barker, D. Budd, V. Erpenbeck, I. Knowles, T. Mikami, R. Profit, O. Robb, Y. Shiraishi, H. Smith, M. Weiss, G. Williams, D. Wyss, Cambridge, MA, p.A1418
- P949** **Plasma miR-199a-5p Increased in the Neutrophilic Phenotype Asthma Patients and Negatively Correlated with Pulmonary Function**/M. Xie, X. Liu, S. Zhang, Y. Huang, Wuhan, China, p.A1419
- P950** **Less Eosinophilic Inflammation and Goblet Cell Metaplasia in IL-33-Induced Asthma Model of Leptin-Deficient Obese Mice**/M. Kondo, K. Arimura, N. Arai, K. Takeyama, E. Tagaya, J. Tamaoki, Tokyo, Japan, p.A1420
- P951** **The Repeated Salbutamol Inhalation Induced the Airway Remodeling in Murine Model of Asthma**/M. Jinno, S. Ohta, H. Mikuni, T. Kawahara, R. Manabe, N. Kuwahara, T. Kimura, K. Hirai, Y. Miyata, M. Yamaguchi, T. Homma, H. Inoue, F. Yamaguchi, M. Yamamoto, S. Kusumoto, S. Suzuki, A. Tanaka, H. Sagara, Tokyo, Japan, p.A1421
- P952** **Steroid-Resistant Inflammation in a Mouse Model of Severe Asthma Is Inhibited by the Combination of Theophylline and Examethasone**/V. Russell, D. Pompilio, M. Brana, F. Andreetta, E. Venturini, M.E. Manni, Verona, Italy, p.A1422
- P953** **Preclinical Experiments Support Recent Clinical Switch to Delivered Dose During Methacholine Bronchoprovocation Testing**/O. Schmid, W. Moeller, A. Stelzl, J. Lund, A.O. Yildirim, S. Krauss-Etschmann, A. Robichaud, Neuherberg/Munich, Germany, p.A1423
- P954** **Presence of IL-36 γ (IL1F9) in Bronchoalveolar Lavage in Patients with Asthma**/S.R. White, D.K. Hogarth, E.T. Naureckas, B. Laxman, J. Solway, A.I. Sperling, Chicago, IL, p.A1424
- P955** **The Indoor Environment and Bronchodilator Response in Urban Minority Youth: The Study of African -Americans, Asthma, Genes, and Environments (SAGE-II)**/T. Elliott, E. Burchard, K. Meade, A.M. Davis, E. Brigino-Buenaventura, L.N. Borrell, M. Lenoir, San Francisco, CA, p.A1425
- P956** **The Real-World Effectiveness of Symptom-Based, Intermittent Inhaled Corticosteroid Adjustment in African American Children with Asthma**/K. Sumino, L.B. Bacharier, J. Taylor, C.-M. Kelley, V. Curtis, A. Nash, S. Jackson-Triggs, J. Moen, K. Schechtman, J. Garbutt, M. Castro, St. Louis, MO, p.A1426
- P957** **Allergic Evaluation During Hospitalized Asthma Improves Disease Management Outcomes**/J. Brock, E. Nussbaum, T. Morphew, V. Sandhu, I. Randhawa, Long Beach, CA, p.A1427
- P958** **Omega-3 Fatty Acid Supplementation in Obese Adolescents and Young Adults with Poor Asthma Control**/J. Lang, E.B. Moughey, M. Hossain, J.J. Lima, Durham, NC, p.A1428
- Facilitator:** P. Akuthota, MD, La Jolla, CA
- P959** **Assessment of Airway Inflammation Using Exhaled Nitric Oxide in Pediatric Asthma and Its Impact on Treatment Decisions**/M. Massanari, S.J. Szeffler, B.E. Chipps, Morrisville, NC, p.A1429
- P960** **Predicting Recurrence of Wheezing in First Time Wheezers: Serum Cc-16, Periostin, Galectin and YKL-40**/O. Yilmaz, T.D. Sarilar, C. Ulman, Y. Simsek, R. Yildiz, E. Toprak Kanik, H. Yuksel, Manisa, Turkey, p.A1430
- P961** **Estimating Extended FeNO Parameters from FeNO50 Samples in a Longitudinal Study of Schoolchildren**/P. Muchmore, E.B. Rappaport, S.P. Eckel, Y. Zhang, W.S. Linn, R. Habre, F.D. Gilliland, Los Angeles, CA, p.A1431
- P962** **Clinico- Radiological Correlation in Allergic Bronchopulmonary Aspergillosis (ABPA) Detected in Children with Poorly Controlled Asthma**/M. Singh, A. Chakrabarti, M. Verma, A. Chauhan, Chandigarh, India, p.A1432

- P963 Allergic Bronchopulmonary Aspergillosis (ABPA) in Children - Does It Need Different Criteria for Diagnosis?**/M. Singh, M. Singh, A. Chauhan, M. Verma, A. Chakrabarti, Chandigarh, India, p.A1433
- P964 Maternal Obesity Is Associated with Transcriptional Changes in Cord Blood Mononuclear Cells**/B. Turturice, L. Tussing-Humphreys, M.D. Koenig, D. Perkins, P.W. Finn, Chicago, IL, p.A1434
- P965 Population Analysis of BAL Cells by Using Mass Cytometry in a Subject Undergoing SBP-AG**/H.G. Moon, S.J. Kim, S.J. Ackerman, V. Natarajan, G.Y. Park, Chicago, IL, p.A1435
- P966 The Adherens Junction Protein, α Tcatenin, Contributes to Airway Hyperreactivity Independently of Inflammation Via the Vagus**/C.J. Gottardi, S.E. Chiarella, A. Flozak, E.E. Rabin, Chicago, IL, p.A1436
- P967 Seasonal Variability of Lung Function and Asthma Quality of Life Questionnaire Scores in Adults with Severe Asthma**/D. Choy, X. Yang, T. Staton, J.K. Olsson, C. Holweg, J.R. Arron, J.G. Matthews, R. Bauer, South San Francisco, CA, p.A1437
- P968 Heterogeneous Parenchymal Deficits in House Dust Mite - Allergic Rats Exposed to Chronic Intermittent Hypoxia**/O. Broymtan, J. Brinkman, D. Pegelow, M. Teodorescu, Madison, WI, p.A1438
- P969 Stepping Up Asthma Medication Can Improve Quality of Sleep And Daytime Sleepiness Independent of Increase Respiratory Function**/T. Yokoe, Y. Watanabe, T. Kawahara, H. Mikuni, H. Sato, R. Manabe, N. Kuwahara, T. Kimura, K. Hirai, Y. Miyata, M. Yamaguchi, T. Homma, S. Ohta, M. Yamamoto, F. Yamaguchi, S. Suzuki, Y. Shikama, H. Sagara, Tokyo, Japan, p.A1439
- P970 Determinants of Lung Function Improvement with Omalizumab in Allergic Asthma**/N.A. Hanania, R. Djukanovic, L.G. Heaney, M. Yang, B.L. Trzaskoma, N.M. Griffin, B.E. Chipps, Houston, TX, p.A1440
- P971 The Gut-Lung Axis: Altered Gastrointestinal Mycobiota Characterized by Expansion of Commensal Fungus *Wallemia Mellicoa* Enhances the Severity of Asthma**/J. Skalski, P. Sharma, C. Nguyen, M.D. Gargus, D.M. Underhill, Rochester, MN, p.A7658
- P256 What happens at the PCP Follow-Up?: Assessing Key Management Changes Following a Prolonged Hospitalization for Sepsis**/M. Thau, H.C. Prescott, Ann Arbor, MI, p.A1442
- P257 Predictors of Fiberoptic Bronchoscopy for Pneumonia Causing Septic Shock: Do Sociodemographic Factors Play a Role?**/J. Aponte, N. Pakzad, A. Espinosa Hernandez, A. Singh, R.A. Jean, R.E. Jean, New York, NY, p.A1443
- P258 Provider Perspectives on Preventive Post-Extubation Noninvasive Ventilation for High-Risk ICU Patients**/E. Nuzzo, J.M. Kahn, T.D. Girard, Pittsburgh, PA, p.A1444
- P259 Telemetry Alarm Burden Worse on the Wards than the ICU**/J. Nath, F.J. Zdravec, N.M. Twu, M.M. Churpek, D.P. Edelson, Chicago, IL, p.A1445
- P260 Predictive Validity of Multidisciplinary Sentiment in the Text of Clinical Notes of Patients with Critical Illness**/G.E. Weissman, L.H. Ungar, K.R. Courtright, M.O. Harhay, S.D. Halpern, Philadelphia, PA, p.A1446
- P261 A Cost-Effectiveness Analysis of an Intervention to Increase the Utilization of Prone Positioning for Severe Acute Respiratory Distress Syndrome**/C. Baston, N.B. Coe, C. Guerin, S.D. Halpern, Philadelphia, PA, p.A1447
- P262 Variation in Vascular Outcomes Related to Peripherally Inserted Central Catheters (PICCs) in Critically-Ill Patients: A Retrospective Cohort Study**/S. Govindan, A. Snyder, R.C. Hyzy, S. Flanders, V. Chopra, Ann Arbor, MI, p.A1448
- P263 What's Behind the White Coat: Potential Mechanisms of Physician-Attributable Variation in Critical Care**/J. Hart, K.N. Yadav, M. Josephs, N.B. Gabler, M.E. Detsky, S.D. Halpern, Philadelphia, PA, p.A1449
- P264 Daily Vs. Weekly Ventilator Circuit Change in Long Term Acute Care Unit, Outcome and Cost Analysis: A Single Center Retrospective Study**/S. Sharma, Corbin, KY, p.A1450
- P265 Validity Testing of an Automated Electronic Health Record (EHR) Surveillance Algorithm to Detect Acute Respiratory Distress Syndrome (ARDS) in Patients with Sepsis**/D.C. Ashana, K. Moghbeli, C. Ittner, B.J. Anderson, N.J. Meyer, J.P. Reilly, M.G.S. Shashaty, M.P. Kerlin, B.D. Fuchs, Philadelphia, PA, p.A1451
- P266 Influence of Antibiotic Dose Adjustment on Mortality in Continuous Renal Replacement Therapy**/J. Stevens, D. Hsu, E. Smith, T. Dechen, J. Marshall, Boston, MA, p.A1452

THEMATIC POSTER SESSION

A36 HOT TOPICS IN CRITICAL CARE MEDICINE

9:15 a.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER

Area D (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: N.R. Nadig, MD, Charleston, SC

- P255 Determinants of Intensive Care Unit Telemedicine Effectiveness: An Ethnographic Study**/K. Rak, C.C. Kuza, L.E. Ashcraft, A.E. Barnato, J.C. Fleck, D.C. Angus, T.B. Hershey, M. Hravnak, J.M. Kahn, Pittsburgh, PA, p.A1441

Facilitator: K.S. Mathews, MD, MPH, New York, NY

- P267 Outcomes of Critically Ill Patients with Polysubstance Abuse in Alcohol Withdrawal**/A.M. Abdul Hameed, A. Mohammed, A. Maheshwari, A. Malik, B.E. Iriarte, N. Ghionni, D. Valentino III, Darby, PA, p.A1453
- P268 Refinement of a Computable Phenotype for Initiation of Mechanical Ventilation in Intensive Care Unit**/T. Weister, A. Singhal, A. Marquez, N.J. Smischney, R. Kashyap, Rochester, MN, p.A1454
- P269 Clinician Characteristics Associated with Intuitive or Analytical Decision-Making: Pilot Testing of a Septic Shock Electronic Survey Instrument**/J.N. Mansoori, K.L. Brown, E.P. Havranek, I.S. Douglas, Aurora, CO, p.A1455

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- P270** **ICU End-of-Rotation Transitions of Care: The Clinician's Perspective**/J.L. Denson, J. Knoeckel, S. Kjerengtroen, E. Schmoll, R. Johnson, B. Mcnair, J. Pell, O. Thornton, C.M. Wray, H. Wald, M.E. Wechsler, R. Burke, Aurora, CO, p.A1456
- P271** **Clinicians' Perceptions of Behavioral "Nudges" to Increase the Use of Lung Protective Ventilation**/M. Mehta, V. Madden, S. Szymanski, J. Hart, M.P. Kerlin, Philadelphia, PA, p.A1457
- P272** **Mortality Rates and Predictors of In-Hospital Mortality Among Intubated and Mechanically Ventilated Adult Patients with Gram Negative Pneumonia**/A. Law, T. Lodise, M. Spilbury-Cantalupo, L. Liao, G. O'Brien, M. McCart, M. Eaddy, Whippany, NJ, p.A1458
- P273** **Predictive Factors of Clinical Outcomes in Children with Chronic Tracheostomies**/K.V. Lai, E. Nussbaum, T. Morphew, J. Le, P. Do, T. Chin, I. Randhawa, Salt Lake City, UT, p.A1459
- P274** **Impact of Race in the Tracheostomy Decision Making Process**/N. Mesfin, M. Vashi, J.A. Greenberg, Chicago, IL, p.A1460
- P275** **Acute Respiratory Distress Syndrome in Hospitalized Patients with Community-Acquired Pneumonia**/E. Barbeta, M.F. Monreal, A.T. Torres, C. Cilloniz, A. Ceccato, Barcelona, Spain, p.A1461
- P276** **Predictors of 30-Day Readmission Among Intubated and Mechanically Ventilated Adult Patients with Gram Negative Pneumonia**/A. Law, T. Lodise, M. Spilbury-Cantalupo, L. Liao, G. O'Brien, M. McCart, M. Eaddy, Whippany, NJ, p.A1462
- P277** **Compliance with Non-Invasive Ventilation (NIV) at 90 Days May Be Associated with Use of NIV in the First Two Weeks: Investigation of Telemonitoring Data**/K. Ward, B. Chakrabarti, H.J. Ashcroft, P. Plant, N. Duffy, R. Parker, A. Manuel, S. Wordingham-Baker, V. Ford, R.M. Angus, Liverpool, United Kingdom, p.A1463
- Facilitator:** H.C. Prescott, MD, MSci, Ann Arbor, MI
- P278** **A Retrospective Analysis of Noninvasive Ventilation Interfaces in Patients with Amyotrophic Lateral Sclerosis**/G. Thornton, L.F. Wolfe, J.M. Coleman, Chicago, IL, p.A1464
- P279** **Time Spent Asleep at Night Increases with Lower Hospital Noise**/A. Dawson, G. Arthur, T. Terwilliger, M. Decavalcante, S. Hammerman, Mechanicsburg, PA, p.A1465
- P280** **Comparison of Septic Shock Outcomes in Geriatric Patients Between Rural and Urban Hospitals**/I. Kejo, A. Khoury, D. Pan, New York, NY, p.A1466
- P281** **Patient Characteristics Associated with High Analgesic and Sedative Utilization During Mechanical Ventilation**/D. Hsu, J. Stevens, P. Patel, A. Law, J. Marshall, Boston, MA, p.A1467
- P282** **Young Adults in the Intensive Care Unit: A Unique High-Risk Population**/J.C. West, K. Bush, M. Trayhan, R. White, M. Zand, C.M. Quill, Rochester, NY, p.A1468
- P283** **Effectiveness and Safety of Tolvaptan for the Management of Hyponatremia**/H.B. Lee, M.S. Park, S.Y. Park, S.J. Park, Jeonju Chonbuk, Korea, Republic of, p.A1469
- P284** **Quality of Life Assessments in Motor Neurone Disease Patients on Non-Invasive Ventilation Using Disease Specific, Treatment Specific and Generic Tools**/N. Grivell, V. Aiyappan, P. Catcheside, G. Keighley-James, D. Schultz, K. Glaetzer, P. Allcroft, N.A. Antic, D. McEvoy, Daw Park, Australia, p.A1470
- P285** **Value Scorecards as a Tele-ICU Evaluation Tool**/N.R. Nadig, L. Hynden, J.T. McElligott, D. Slenzak, S. Valenta, E. Warr, R. Beeks, D.W. Ford, Charleston, SC, p.A1471
- P286** **The Role of High Flow Nasal Oxygen in the Immunocompromised Patient with Acute Hypoxemic Respiratory Failure**/L. Miyakawa, H. Gupta, L.L. Seijo, P.S. Patrawalla, D. Steiger, New York, NY, p.A1472
- P287** **Cracking the Escalation Riddle: Root-Causes for the Rapid Response Team Activation Afferent Limb Failures. A Prospective, Semi-Qualitative Study**/M.G. Kashiouris, J. Tormey, S. Lubin, N. Appelbaum, P. Mazmanian, S. Pedram, C.N. Sessler, Richmond, VA, p.A7659
- P288** **Ward Capacity Strain: A Novel Predictor of 30-Day Readmissions for Intensive Care Unit Survivors**/R. Kohn, M.O. Harhay, B. Bayes, M.E. Mikkelsen, S.J. Ratcliffe, S.D. Halpern, M.P. Kerlin, Philadelphia, PA, p.A7660

THEMATIC POSTER SESSION

A37 QUALITY IMPROVEMENT RESEARCH IN PULMONARY AND CRITICAL CARE MEDICINE

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area D (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

- P290** **Impact of a Clinical Decision Support Tool to Improve Adherence to Low Tidal Volume Ventilation at a Tertiary Care Center**/B. Short, A. Serra, D. Vawdrey, V.K. Moitra, D. Brodie, M.R. Baldwin, N.H. Yip, New York, NY, p.A1473
- P291** **Peripherally Inserted Central Catheters (PICCs) in the ICU Vs. Outside the ICU: A Retrospective Study in 52 Hospitals**/S. Govindan, A. Snyder, R.C. Hyzy, S. Flanders, V. Chopra, Ann Arbor, MI, p.A1474
- P292** **Implementation of a Quality Improvement Project in a Pulmonary Clinic Enhances Efficiency, Wait Times and Financial Productivity**/S. Ossowski, P.C. Giri, Loma Linda, CA, p.A1475
- P293** **Improving Timeliness in the Bronchoscopy Workflow: From Admission to Discharge, a Single-Center Quality Initiative**/K. Charles, D. Davda, K. Langlois, N. Mahmoud, A.E. Ferraro, R.C. Holladay, S. Kalanjeri, Shreveport, LA, p.A1476
- P294** **Adding a Diabetes Specialist to a Multidisciplinary Cystic Fibrosis Clinic Results in Higher Utilization of Insulin Therapy and Better Compliance with Treatment Guidelines for CFRD**/H. Li, C.A. Trillo, J. Leey, J. Lascano, Gainesville, FL, p.A1477

P295 Thoracic Enhanced Recovery After Surgery (ERAS) in the Republic of Ireland (ROI)/R. Brown, K. Redmond, K. O'Sullivan, J. McLoughlin, D. Eaton, Dublin, Ireland, p.A1478

P296 Global Burden of Child Tuberculosis Due to Implementation Gaps in Screening and Isoniazid Prophylaxis of Household Contacts/M. Robinson, L. Martinez, J. Andrews, Stanford, CA, p.A1479

P297 Adherence to National Guidelines, Treatment Follow-Up and Outcomes of Patients Treated for Multi-Drug Resistant Tuberculosis in Tanzania: A Six Year Retrospective Cohort Analysis and Qualitative Triangulation 2009-2015/E.S. Ngadaya, G.D. Kimaro, I. Lekule, R.M. Kisonga, G. Kagaru, R. Shemtandulo, E.H. Sandi, A. Kahwa, A. Zumla, N. Mnyambwa, S.G. Mfinanga, Dar-Es-Salaam, Tanzania, United Republic of, p.A1480

P298 Assessment of the Knowledge of Tuberculosis Among Health Workers in Private Health Facilities in Benin City, Edo State: A Pilot Survey/N. Mokogwu, M.I. Okhawere, Benin City, Nigeria, p.A1481

P299 Measuring the Quality of Shock Care - Validation of a Chart Abstraction Instrument/N.-K. Mould-Millman, J. Dixon, J. Thomas, T. Burkholder, N. Oberfoell, S. Oberfoell, K. McDaniel, H. Meese, S. de Vries, L. Wallis, A. Ginde, Aurora, CO, p.A1482

Facilitator: B.E. Jones, MD, MSc, Salt Lake City, UT

P300 Effect of a Quality Improvement Initiative in Reducing Duplicate Respiratory Viral Panel Testing in Patients Undergoing Bronchoalveolar Lavage at a University Hospital Center/A. George Jacob, T.J. Gross, Iowa City, IA, p.A1483

P301 Clinical Institute Withdrawal Assessment (CIWA) Protocol: Misunderstandings, Misuse, and Misadventures/C. Chen, C. Thompson, M.J. Leveno, Dallas, TX, p.A1484

P302 Retrospective Analysis of Computed Tomography Angiography-Chest (CTA) for Pulmonary Embolism/D. Akella, Q. Baig, O. Zaman, Q. Khan, V. Taware, S. Bindroo, J. Hippen, Secane, PA, p.A1485

P303 Inappropriate Utilization of Portable Chest Radiography in Diagnosis and Treatment of Cardiopulmonary Disease/A.Z. Rasheed, L. Latypov, M. Shahzadi, V.P. Vasudevan, L.N. Gerolemou, F. Arjomand, Brooklyn, NY, p.A1486

P304 Pneumococcal Vaccination Among Veterans - Is Veterans Health Administration (VHA) Ahead of the Curve?/S. Narsingam, J.C. Munson, F.S. Drescher, Lebanon, NH, p.A1487

P305 Overcoming Barriers to Adolescent Access to Influenza Vaccination/B. Sufian, I.Y. Passamano, Houston, TX, p.A1488

P306 Derivation and Validation of the Automated Search Algorithms to Identify Patients with Ischemic Stroke and Transient Ischemic Attack in Electronic Health Records/M. Sabov, M.A. Hawkes, M.A. Passe, T.J. Weister, A.A. Rabinstein, R. Kashyap, Rochester, MN, p.A1489

P307 Electronic Medical Records in Interstitial Lung Disease: Implementation of Monitoring Flowsheets for Lung Physiology/F. Chowdhury, E. Saad, S. Stenson, N. Hait, M.

Kalluri, J. Yehya, E.Y. Wong, T. Graham, R. Hayward, D.P. Vethanayagam, Edmonton, Canada, p.A1490

P308 Comparing Aerosol Characteristic of Vibrating-Mesh and Jet Nebulizers When Delivering Inhaled Antibiotics and Corticosteroids/H.-L. Chen, C.-C. Huang, H.-F. Chen, C.-S. Hung, T.-K. Tsai, H.-L. Lin, E.Y.T. Chen, Taoyuan City, Taiwan, p.A1491

THEMATIC POSTER SESSION

A38 UNDERSTANDING CARE DELIVERY AND OUTCOMES IN OBSTRUCTIVE SLEEP APNEA

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area C (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: M.E. Billings, MD, MSc, Seattle, WA

P171 The Effect of Inpatient Screening and Treatment for Sleep Disordered Breathing on Re-Admissions in Minority Ethnic Population: A Health Disparity Project/A.M.P. Quintos, M. Rives-Sanchez, A. Niroula, L. Willes, S. Sharma, Philadelphia, PA, p.A1492

P172 Abnormalities of Coagulation and Fibrinolytic Systems in Obstructive Sleep Apnea/T. Adachi, S. Koba, K. Narui, A. Ochi, K. Inokuchi, Y. Kobayashi, Tokyo, Japan, p.A1493

P173 Use of Stimulants and Continuous Positive Airway Pressure in Patients with Obstructive Sleep Apnea from a Large Claims Dataset/M. Ohayon, J. Profant, S. Gibson, C. Milesi, Palo Alto, CA, p.A1494

P174 Early Intervention with Single Session "Mask-Fitting" Improves CPAP Adherence in Obstructive Sleep Apnea Syndrome Patients/S.P. Kandel, I.H. Shalom, O. Kitzen, Q. Ahmed, M.D. Weinstein, Mineola, NY, p.A1495

P175 Remote Pulse Oximetry Screening for Sleep Apnea Among Hypertensive Patients in a Community-Based E-Health Program/W. Sun, A. Zhang, Z. Wang, A. Sun, X. Zheng, W. Shen, Z. Hu, Beijing, China, p.A1496

P176 Use of Flow-Volume Curve Associated with Body Measurement as Real-World Evidence Severity Estimation in Adult Obstructive Sleep Apnea/K.-Y. Chen, Yi-Lan County, Taiwan, p.A1497

P177 Evaluation of Optimal Adherence and Non-Adherent of CPAP Treatment for Obstructive Sleep Apnea/T. Miyashita, H. Sato, T. Akagami, T. Mio, S. Minezaki, H. Nakamura, M. Nagata, M. Kanazawa, K. Matsuda, Sendai, Japan, p.A1498

Facilitators: L.M. Donovan, MD, Seattle, WA
K.A. Dudley, MD, MPH, Boston, MA

- P178 First Night Effect of Continuous Positive Airway Pressure (CPAP) on Obstructive Sleep Apnea (OSA) - Beyond Apnea-Hypopnea Index (AHI)/A.** Hsu, A.Z.X. Foo, S.R.B. Senin, Singapore, Singapore, p.A1499
- P179 Mandibular Advancement Device for Treatment of Obstructive Sleep Apnea. Could It Be an Alternative in Patients with CPAP Intolerance?/F.** León Román, E. Barbero, E. Mañas, D. Barrios, A. Albalat, A. Pedrera, A. Carreño, Madrid, Spain, p.A1500
- P180 Sleep Disordered Breathing in Patients with Pulmonary Arterial Hypertension and Impact of Pulmonary Hypertension Targeted Therapies/S.C.** Bergard, T.M. Fernandes, D.Y. Kang, S. Fors, D.G. Papamatheakis, D.S. Poch, N.H. Kim, A. Malhotra, R.L. Owens, J.E. Orr, La Jolla, CA, p.A1501
- P181 Renal Function Changes After Sleep Apnea Treatment by Positive Airway Pressure: Data from the Vercelli Register/P.** Pochetti, L. Conti, A.M. Calareso, E. Villa, M. Malerba, Vercelli, Italy, p.A1502
- P182 Real World Experiences and Clinical Outcomes of Patients on Continuous Positive Airway Pressure or Chronic Noninvasive Ventilation/E.** Gan, C.C. Goh, M. Lau, S.N. Goh, A. Yui, Singapore, Singapore, p.A1503
- P183 Sleep Knowledge and Perception of Health Care Professional Students in a Faith Based Health Institution/A.** Alismail, I. Sari, P. Casillas, T. Dinkfeld, Loma Linda, CA, p.A1504
- P184 High Risk of Poor Academic Performance in University Students with Obstructive Sleep Apnea/A.M.** Ibnian, B.Y. Khassawneh, L.L. Alkhatib, Y.S. Khader, Irbid, Jordan, p.A1505

THEMATIC POSTER SESSION

A39 SARCOIDOSIS AND RARE LUNG DISEASE SCIENTIFIC ABSTRACTS

9:15 a.m. - 4:15 p.m. **SAN DIEGO CONVENTION CENTER**

Area L (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: M.L. Ribeiro Neto, MD, Cleveland, OH

- P1325 Cancer Associated Granulomatosis: A Case-Control Study Versus Sarcoidosis/J.** Pastre, D. Bouvry, K. Juvin, A. Benattia, I. Annesi-Maesano, D. Valeyre, H. Nunes, D. Israel-Biet, Paris, France, p.A1506
- P1326 Effect of Infliximab Trough Levels in Sarcoidosis Patients/B.T.** Bevill, E.S. Zollars, W.E. James, Charleston, SC, p.A1507
- P1327 Simultaneous Amplification and Testing Assay to Differentially Diagnose Acid-Fast Bacilli Smear-Negative Intrathoracic Tuberculous Lymphadenopathies from Sarcoidosis/D.** Weng, Q. Li, L. Huiping, Shanghai, China, p.A1508

- P1328 Outcomes of Directed PAH Therapy in Sarcoidosis/K.** Albujoq, R.L. Awdish, J.H. Jennings, S. Hegab, Detroit, MI, p.A1509
- P1329 Obesity Is Associated with Better Hemodynamic Measurements in Patients with Sarcoidosis Associated Pulmonary Hypertension/E.D.** Abston, S. Hon, L. Bajpayee, P. Govender, J.S. Berman, H.W. Farber, Boston, MA, p.A1510
- P1330 Clinical Outcome Status and Organ Involvement in Minnesota Sarcoidosis Cohort/H.S.** Te, A.E. Levin, K.J. Viken, R. Tomic, D.M. Perlman, M. Bhargava, Minneapolis, MN, p.A1511
- P1331 Biomarker Relationships to Fatigue in Patients with Chronic Sarcoidosis/L.** O'Hare, P. Acosta Lara, J. Barney, Birmingham, AL, p.A1512
- P1332 Sarcoid Reaction to Malignancies/J.** Serra, R. de Jesus, J.R. Bandeira, F.M. da Costa, M. de Oliveira, B.G. Baldi, G. Prado, A.M. Kawassaki, R.A. Kairalla, Sao Paulo, Brazil, p.A1513
- P1333 The Evaluation of Neutrophil Gelatinase-Associated Lipocalin in Patients with Pulmonary Sarcoidosis/S.** Kato, N. Inui, H. Yasui, H. Hozumi, M. Karayama, Y. Suzuki, K. Furuhashi, N. Enomoto, T. Fujisawa, Y. Nakamura, T. Suda, Hamamatsu, Japan, p.A1514
- P1334 Pulmonary Function, Depression and Systemic Inflammation in Post-Sarcoidosis Fatigue Syndrome/W.** Piotrowski, A. Kumor-Kisieleska, W. Gorski, Lodz, Poland, p.A1515

Facilitator: N. Gupta, MD, Cincinnati, OH

- P1335 18 FDG PET CT and Sarcoidosis/M.** Carneiro, C.H. Costa, R.L. Alves, F.M. Anselmo, B.R.A. Silva, E.J.C. Bessa, L. Bruno, Rio de Janeiro, Brazil, p.A1516
- P1336 Repository Corticotrophin Injection (RCI) for Sarcoidosis: Results of a Delphi Study/F.F.** Rahaghi, N. Sweiss, L.A. Saketkoo, M.B. Scholand, J. Barney, A. Gerke, E.E. Lower, M. Mirsaedi, L. O'Hare, M.J. Rumbak, L. Samavati, R.P. Baughman, Weston, FL, p.A1517
- P1337 Clinical Characteristics of Patients in a Case Control Study of Sarcoidosis in Brazil/J.** Guimaraes, M.C. Lopes, R. Rufino, C.H. Costa, F.M. Anselmo, B.R.A. Silva, E.J.C. Bessa, L.P. Bruno, Rio de Janeiro, Brazil, p.A1518
- P1338 Impact of Organ Involvement on Quality of Life in Sarcoidosis: Results from the Registry for Advanced Sarcoidosis (ReAS)/T.** Tully, S.S. Birring, M.A. Judson, E.E. Lower, R.P. Baughman, London, United Kingdom, p.A1519
- P1339 Clinical Characteristics of Pulmonary Sarcoidosis Requiring Systemic Corticosteroids/H.** Kimura, S. Konno, T. Yamaguchi, N. Shijubo, T. Hattori, Y. Yamada, K. Shimizu, M. Suzuki, M. Nishimura, Sapporo, Japan, p.A1520
- P1340 The FDG-PET Features of IgG4-Related Disease with Bilateral Hilar Lymphadenopathy: A Comparison with Sarcoidosis/M.** Komatsu, H. Yamamoto, Y. Ozawa, A. Ushiki, K. Oguchi, S. Kawakami, M. Yasuo, A. Fujita, M. Hanaoka, Matsumoto, Japan, p.A1521
- P1341 Potential Limitations of Activity Tracking Devices in Monitoring Effects of Treatment for Sarcoidosis/R.P.** Baughman, R. Reeves, J. Zeigler, M.A. Judson, D.A. Culver, E.S. Chen, N. Sweiss, N.Y. Hamzeh, D. Valeyre, J.C. Grutters, G. Spitzer, Cincinnati, OH, p.A1522

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- P1342 Clinical Characteristics in Lymphangioleiomyomatosis-Related Pulmonary Hypertension: An Observational Study/K.-F. Xu, X. Wu, W. Xu, J. Wang, X. Tian, Beijing, China, p.A1523**
- P1343 Pneumothorax in Adult Pulmonary Langerhans Cell Histiocytosis/A. Tazi, P. Le Guen, E. Bugnet, C. de Margerie-Mellon, A. Seguin-Givelet, G. Lorillon, D. Gossot, S. Chevret, Paris, France, p.A1524**
- P1344 The Impact of Lymphangioleiomyomatosis on Mortality in Patients with Tuberous Sclerosis Complex/S. Zak, N. Mokhallati, R. Szczesniak, F.X. McCormack, D. Franz, M. Mays, D. Krueger, N. Gupta, Cincinnati, OH, p.A1525**
- Facilitator:** P.M. George, MBBS, PhD, London, United Kingdom
- P1345 Pulmonary Langerhans Cell Histiocytosis-Cladribine Treatment/E. Radzikowska, E. Wiatr, K. Blasinska-Przerwa, K. Roszkowski-Sliz, Warsaw, Poland, p.A1526**
- P1346 Characterization of CT Scan in Birt-Hogg-Dube Syndrome (BHDs) Compared with Non-BHDs Diffuse Cysts Lung Diseases in Chinese Patients/Z. Xu, X. Tian, Y. Zhan, R. Feng, X. Li, J. Wang, W. Zhang, Y. Liu, K.F. Xu, X. Zhang, Beijing, China, p.A1527**
- P1347 Lung Involvement in Immunoglobulin G4 Related Disease/J. Choi, J.Y. Oh, Y.S. Lee, K.H. Min, G.-Y. Hur, S.Y. Lee, K.-H. Kang, J.J. Shim, Seoul, Korea, Republic of, p.A1528**
- P1348 Malignancies in Patients with IgG4-Related Respiratory Disease/S. Matsui, H. Yamamoto, T. Handa, S. Okazawa, K. Tokui, C. Taka, S. Imanishi, K. Kambara, T. Ichikawa, M. Inomata, R. Hayashi, Toyama, Japan, p.A1529**
- P1349 Autoimmune Pulmonary Alveolar Proteinosis: Change of B Cell Activating Factors with Treatment/M. Hirose, A. Matsumuro, T. Arai, C. Sugimoto, Y. Inoue, Sakai, Japan, p.A1530**
- P1350 Prognosis of Secondary Pneumothorax in the Elderly/F. Takahashi, T. Takihara, N. Nakamura, Y. Horio, K. Enokida, K. Niimi, N. Hayama, T. Oguma, T. Aoki, M. Iwazaki, K. Asano, Isehara, Japan, p.A1531**
- P1351 Fatal Diffuse Alveolar Hemorrhage: A Retrospective Study/S. Sangli, M. Baqir, X. Hu, J.H. Ryu, Rochester, MN, p.A1532**
- P1352 Pulmonary Vascular Malformations Taken to Surgical Correction: Experience of a University Hospital in Latin America/L. Fernandez, D.F. Cruz, M. Velasquez, L.F. Sua Villegas, C.S. Leib, Cali, Colombia, p.A1533**
- P1353 Diffuse Idiopathic Pulmonary Neuroendocrine Cell Hyperplasia(DIPNECH): Our Institutional Experience with Somatostatin Analog Therapy/N.Y. Madisi, M.L. Padilla, New York, NY, p.A1534**
- P1354 Pulmonary Manifestations in Inflammatory Bowel Disease/M.K. Grewal, B. Collins, B. Yacyshyn, N. Gupta, Cincinnati, OH, p.A1535**
- P1355 A Retrospective Review of the Utility and Safety of Endomyocardial Biopsy/K. Ryan, H. Hall, R. Mirza, N. Barnes, E. Shaw, A.F. Madden, B. Madden, London, United Kingdom, p.A1536**

THEMATIC POSTER SESSION

A40 ILD: CASE REPORTS I

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area K (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion

12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: L.L. Silhan, MD, Baltimore, MD

- P1131 Foreign Body Granulomatosis: A Great Masquerader/E. Rojas, S. Gillenwater, C.C. D'Angelo, S. Palasamudram Shekar, J. Ann-Chin, P. Bejarano, J.P. Mehta, Weston, FL, p.A1537**
- P1132 Niemann-Pick Disease Presenting as Familial Interstitial Lung Disease: Report of 2 Adult Siblings/S. Callahan, K. Pal, D. Gomez, M. Stoler, B. Mehrad, Charlottesville, VA, p.A1538**
- P1133 A Rare Case of Bronchiolocentric Interstitial Fibrosis/S. Sitaula, C. Curtiss, E. Scalzetti, A. Desai, Syracuse, NY, p.A1539**
- P1134 Interstitial Pneumonitis with Autoimmune Features/M. Shahzadi, A. Mogla, A.Z. Rasheed, V.P. Vasudevan, Brooklyn, NY, p.A1540**
- P1135 Surfactant Protein C Deficiency and Rheumatoid Arthritis Interstitial Lung Disease in Pregnancy - A Fatal Combination/L. Barnes, P.J. Passarelli, R. Hsiao, R.E. Sell, San Diego, CA, p.A1541**
- P1136 Pleuroparenchymal Fibroelastosis Following Autologous Bone Marrow Transplant/K. Lam, Stanford, CA, p.A1542**
- P1137 Refractory Rapidly Progressive Interstitial Lung Disease in Anti-Melanoma Differentiation Antibody with Clinically Amyopathic Dermatomyositis/Z. Lundstrom, K. Pennington, C.M. Batzlaff, Rochester, MN, p.A1543**
- P1138 Occam's Razor: An Extremely Rare Presentation of a Very Rare Pulmonary Manifestation of Lupus/K. Hersi, A.-I. SeyedAmirHosseini, A. Girdhar, Y. Sangwan, Salisbury, MD, p.A1544**
- P1139 Successful Application of Rituximab and ECMO in a Patient with Rapidly Progressive Interstitial Lung Disease Related to Anti-MDA-5 Antibody Positive Amyopathic Dermatomyositis/H. Singh, J. Safi, Y. Raz, P. LaCamera, Brighton, MA, p.A1545**
- P1140 An Unusual Presentation of Pulmonary Sarcoidosis/N. Hinds, Y. Liu, N. Popnikolov, E.J. Yoo, Philadelphia, PA, p.A1546**
- P1141 Hypereosinophilic Syndrome with Eosinophilic Myocarditis/J. Lam, D. Patel, R. Condos, M. Mahmoudi, New York, NY, p.A1547**
- P1142 Asymmetric Migrating Diffuse Alveolar Hemorrhage/H. Iftikhar, C. Zhang, G. Grasso-Knight, B.D. Dalal, Royal Oak, MI, p.A1548**
- P1143 Hypersensitivity Pneumonitis and Sarcoidosis/S. Matson, M. Ragland, J.C. Lavelle, C. Cool, L.A. Maier, Aurora, CO, p.A1549**
- P1144 Pleuroparenchymal Fibroelastosis a Case Report/M.A. Ramirez Candelas, O. Barreto, I. Buendia, K. Jassen Avellaneda, M. Gaxiola, Tlalpan, Mexico, p.A1550**

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- P1145 A Common Disease Presenting Uncommonly as Stroke/M.** Sczepanski, B.D. Dalal, Royal Oak, MI, p.A1551
- P1146 Idiopathic Pulmonary Fibrosis in a Rail Yard Worker/S.** Gandhi, J.L. Abraham, L. Muszynski, S. Sanyal, R.A. Cohen, Chicago, IL, p.A1552
- P1147 Sarcoidosis After Lymphoma - A Late Presentation/S.** Patel, T. Russi, Brooklyn, NY, p.A1553
- P1148 Benign Pulmonary Nodular Lymphoid Hyperplasia (NLH) in an HIV Infected Patient: A Diagnostic Dilemma/S.A.-N. Khan, S. Ahmed, X. He, N. Zhang, M.J. Mador, Buffalo, NY, p.A1554**
- P1149 Gastric Sarcoidosis as a Possible Cause of Non-Specific Abdominal Symptoms/E.** Oteng, V. Kodadhala, F.T. Ogunidipe, A. Kibreab, V. Poddar, Washington, DC, p.A1555
- P1150 Acute Fibrinous and Organizing Pneumonia After Allogeneic Stem Cell Transplant/R.** Valentin, L. Benninger, D. Kay, C. Gonsalves, W. Stroh, D.C. Patel, A. Ataya, Gainesville, FL, p.A1556
- P1151 A Case of Fatal Community Acquired Chronic Beryllium Disease Surrounding a Beryllium Facility/G.A. Fernandez Romero, J.J. Beros, C.A. Nieves Prado, Philadelphia, PA, p.A1557**
- P1152 A Case of Giant Cell Arteritis Related Interstitial Lung Disease/E.** Welt, R.L. Gross, Washington, DC, p.A1558
- P1153 A Strange Butterfly: Metamorphosis of Sarcoidosis/A.L.** Birdwell, R. Estrada Anzueto, T. Simpson, S.A. Habib, San Antonio, TX, p.A1559
- P1154 Acute Eosinophilic Pneumonia as the Initial Manifestation of Anti-Synthetase Syndrome/I.** Kourouni, V. Santibanez, M.B. Beasley, M.J. Rosen, J.P. Mathew, M.L. Padilla, New York, NY, p.A1560
- Facilitator:** A. Podolanczuk, MD, New York, NY
- P1155 A Rare Radiographic Presentation of Cryptogenic Organizing Pneumonia: A Diffuse Micronodular Pattern Mimicking Miliary Lung Infiltration/K.** Poonsombudlert, N. Sriratanaviriyakul, Honolulu, HI, p.A1561
- P1156 Tunneling Through Fibrosing Mediastinitis/N.** Raya, A. Gamino, Chicago, IL, p.A1562
- P1157 Pulmonary Alveolar Microlithiasis with Satisfactory Diagnosis by Bone Scintigraphy of the Lung/F.** Alkhankan, E. Alkhankan, H.S. Bukamur, H. Alkhankan, A. Amro, I. Shahoub, Y.R. Shweihat, F.M. Zeid, Pontiac, MI, p.A1563
- P1158 Placental Transmogrification of the Lung in a Patient with Anti-Synthetase Syndrome/M.M.K.S. Khan, D.S. Zander, N. Gupta, Cincinnati, OH, p.A1564**
- P1159 Organizing Pneumonia as the Presenting Symptom of Anti-MDA5 Amyopathic Dermatomyositis/A.** Patel, K. Warrior, M.A. Yoder, Chicago, IL, p.A1565
- P1160 Mystery of Waxing and Waning Lung Nodules/V.** Kraskovsky, S. Ahmed, C. D'Angelis, M. J. Mador, Buffalo, NY, p.A1566
- P1161 Secondary Pulmonary Alveolar Proteinosis Predominant in the Transplanted Left Lung in Patients with Idiopathic Interstitial Pneumonia: An Autopsy Case/S.** Ikeda, T. Katano, E. Tabata, R. Shintani, S. Sadoyama, H. Yamakawa, T. Oda, R. Okuda, A. Sekine, H. Kitamura, T. Baba, S. Komatsu, E. Hagiwara, T. Ogura, Yokohama, Japan, p.A1567
- P1162 Rothia Mucilaginosa Pneumonia Complicating Interstitial Lung Disease/H.D.** Bachert, K. Thavarajah, Detroit, MI, p.A1568
- P1163 MDA-5 Positive Dermatomyositis Complicated by Pneumomediastinum/S.** Farrell, N. Huprikar, P. Hiles, Fort Sam Houston, TX, p.A1569
- P1164 The Intersection of Autoimmune Disease and Malignancy: A Case of Multi-Organ Paraneoplastic Vasculitis/J.M.** Neborak, S.M. Montner, A.O. Adegunsoye, P. Reid, I. Ventura, M.E. Strek, Chicago, IL, p.A1570
- P1165 Late Onset Pulmonary Langerhans Cell Histiocytosis (PCLH) and Concurrent Diagnosis of Lung Cancer/H.** Feng, S. Narsingam, D. Seidler, Lebanon, NH, p.A1571
- P1166 Strange Coincidences: A Case of Concurrent Sarcoidosis and Birt-Hogg-Dubé/J.M.** Huang, R. Amer, Hamilton, Canada, p.A1572
- P1167 A Cure or a Curse? Severe Bilateral Radiation Pneumonitis in a Patient with Scleroderma-Related Interstitial Lung Disease and Lung Adenocarcinoma/P.** Khaing, R.S. Summer, Philadelphia, PA, p.A1573
- P1168 Benign Metastasizing Leiomyoma Presenting with Lymphangitic Carcinomatosis/A.** Shioleni, A. Wu, New York, NY, p.A1574
- P1169 Omalizumab Is Ineffective Treatment for Hypersensitivity Pneumonitis with Elevated IgE/V.** Patel, W. Khan, New Brunswick, NJ, p.A1575
- P1170 When a Consolidated Lung Does Not Lead to a Consolidated Diagnosis: Antisynthetase Syndrome Presenting with Organizing Pneumonia/A.Z.** Alkhathlan, A. Syed, C. Donatelli, C.V. Teba, Cleveland, OH, p.A1576
- P1171 Pulmonary Langerhans Cell Histiocytosis in a Heavy Marijuana Smoker/S.** Viola, J. Heath, N.G. Shah, Baltimore, MD, p.A1577
- P1172 Lung Cancer Incidentally Found in a Leiomyoma/M.L.** McCutcheon, A. Maller, J. Martires, Los Angeles, CA, p.A1578
- P1173 Frankincense for Organizing Pneumonia: A Steroid-Sparing Gift?/A.** Synn, K.M. Berg, Boston, MA, p.A1579
- P1174 Recurrent Acute Fibrinous and Organizing Pneumonia in a 40-Year-Old Woman/W.H.** Amundson, E. Racila, T.L. Allen, R. Tomic, H. Kim, Minneapolis, MN, p.A1580
- P1175 Diaphragmatic Biopsies for the Diagnosis of Pulmonary Sarcoidosis/K.** Young, K.P. Simpson, E.R. Gilbert, Maywood, IL, p.A1581
- P1176 Pulmonary Only Light Chain Deposition Disease in a Young Healthy Male/M.** Rendo, M. Peterson, J. Renshaw, Ft. Sam Houston, TX, p.A1582

P1177 **What You Don't Know Can Hurt You: A Rare Form of Pulmonary Fibrosis in the Setting of Chronic Cyclophosphamide**/K. Waksmundzki-Silva, J. Mickelson, S.E. Kopec, Worcester, MA, p.A1583

THEMATIC POSTER SESSION

A41 **ILD SCIENTIFIC ABSTRACTS: DIAGNOSIS, OUTCOMES, AND PPF**

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area K (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: J. Oldham, MD, MS, Sacramento, CA

P1181 **Quantified CT and Pulmonary Function in Interstitial Lung Disease (ILD) Patients**/Z. Hu, C. Que, Beijing, China, p.A1584

P1182 **Phenotype and Risk Factors Analysis for Gastro-Esophageal Reflux in Combined Pulmonary Fibrosis and Emphysema and Idiopathic Pulmonary Fibrosis Patients**/J. Chen, Y. Dotan, N. Gaeckle, M.R. Jacobs, N. Marchetti, G.J. Criner, Guangzhou, China, p.A1585

P1183 **Daily Activity Trackers and Home Spirometry in Patients with Idiopathic Pulmonary Fibrosis**/V. Marcoux, C.D. Fell, K.A.M. Johansson, Calgary, Canada, p.A1586

P1184 **Endoscopically Documented Reflux Esophagitis Associated Interstitial Lung Abnormalities from the General Population in a Health Screening Program**/J.H. Kim, S.H. Bae, B.J. Kang, S.W. Ra, K.W. Seo, T. Lee, J.J. Ahn, Y. Jegal, Ulsan, Korea, Republic of, p.A1587

P1185 **Autoimmune Testing Patterns Associated with IPF Diagnostic Confidence**/M.B. Scholand, J. Moore, J. Stauffer, W. Pan, S. Limb, Salt Lake City, UT, p.A1588

P1186 **Demographic Factors Associated with IPF Diagnostic Confidence**/M.B. Scholand, J. Moore, J. Stauffer, K. Raimundo, W. Pan, S. Limb, Salt Lake City, UT, p.A1589

P1187 **Effectiveness of Chest US (Ultrasound) in the Diagnosis of ILD (Interstitial Lung Diseases) in an Unselected Population: A Prospective Study**/C. Barbieri, R. Tonelli, A. Marchioni, M. Garofalo, V. Ruggieri, I. Castaniere, R. Fantini, F. Luppi, E.M. Cline, S. Cerri, Modena, Italy, p.A1590

P1188 **Pulmonary Function Testing as a Screening Tool to Predict Interstitial Lung Disease**/S. Alqalyoobi, A. Kitich, E. LaFond, S.A. Choudhry, C. Mendez, M. Kadoch, J. Oldham, Sacramento, CA, p.A1591

P1189 **Prevalence of Airway Disease in Patients with Idiopathic Pulmonary Fibrosis**/P. Hee Moon, J. Lee, Y.S. Park, C.-H. Lee, S.-M. Lee, J.-J. Yim, C.-G. Yoo, Y.W. Kim, S.K. Han, S.M. Choi, Seoul, Korea, Republic of, p.A1592

P1190 **Multidisciplinary Team Meeting Agreement on Diagnosis in Idiopathic Interstitial Pneumonias in China**/H.-Y. Wang, H.-Y. Wang, Q. Luo, Q. Han, K. Deng, H. Dai, H. Li, Z. Xu, Q. Zeng, Y. Gu, K.K. Brown, K.D. Jones, T.M. Maher, L. Richeldi, M.R.J. Kolb, R. Chen, N. Zhong, Guangzhou, China, p.A1593

P1191 **Histological Analysis of Vascular Changes Associated with Pulmonary Hypertension in Combined Pulmonary Fibrosis and Emphysema: Comparison with Idiopathic Pulmonary Fibrosis or Emphysema Alone**/N. Awano, Tokyo, Japan, p.A1594

P1192 **Comparison of Transbronchial Lung Cryobiopsy with Surgical Lung Biopsy in the Diagnosis of Interstitial Lung Disease**/C. Ruel, M. Fortin, S. Trahan, S. Martel, S. Provencher, G. Dion, P. Joubert, M. Conti, P.A. Ugalde Figueroa, F. Rolland, A. Delage, Québec, Canada, p.A1595

Facilitator: M. Salisbury, MD, Ann Arbor, MI

P1193 **Serum Creatine Kinase and Aldolase as Screening Markers for the Detection of Antisynthetase Syndrome**/S. Castillo, M.J. Hamblin, B. Forbes, Kansas City, KS, p.A1596

P1194 **A Review of Multidisciplinary Diagnosis of Radiological and Pathological Assessments in Patients with Idiopathic Pulmonary Fibrosis: A Retrospective Summary in a Single Center**/G.H. Kim, L. Pourzand, A. Surman, W. Hsu, J. Goldin, M. Brown, W.D. Wallace, J.A. Belperio, S. Weigt, Los Angeles, CA, p.A1597

P1195 **To Evaluate the Role of Bronchoscopic Lung Cryobiopsy in the Multidisciplinary Diagnosis of Fibrotic Hypersensitivity Pneumonitis**/S. Cullivan, A. O'Mahoney, J. McCarthy, L. Burke, M.T. Henry, Cork, Ireland, p.A1598

P1196 **Clinical Significance of Serum KL-6 and Surfactant Protein D in Idiopathic Interstitial Pneumonias**/C. Sakai, M. Masuda, S. Ano, N. Kikuchi, Y. Ishii, Tsuchiura, Japan, p.A1599

P1197 **Physiological Impairment in Patients with Interstitial Lung Disease at the Time of Referral to a Specialty Clinic**/P. Jamali, M. Guay-Gagnon, H. Manganas, J. Morisset, C. Poirier, Montréal, Canada, p.A1600

P1198 **Safety and Diagnostic Yield of Transbronchial Cryobiopsy for Diffuse Parenchymal Lung Disease: Single Center-Based Prospective Cohort Study in Japan**/T. Niwa, T. Ogura, T. Takemura, T. Katano, N. Aiko, G. Matama, K. Isomoto, R. Ohtoshi, E. Tabata, R. Shinitani, N. Sadoyama, S. Ikeda, H. Yamakawa, H. Nakagawa, T. Oda, R. Okuda, A. Sekine, H. Kitamura, T. Baba, S. Umeda, K. Okudera, S. Komatsu, E. Hagiwara, T. Iwasawa, Yokohama, Japan, p.A.1601

P1199 **Clinical Diagnosis in Patients with Possible UIP Pattern on High-Resolution Computed Tomography Submitted to Surgical Lung Biopsy in Brazil**/R.C.C. Tibana, M.R. Soares, K.M. Storrer, E.V. Mancuzo, M.P. Rodrigues, I. Missrie, E.N. Coletta, R.G. Ferreira, C.A.D.C. Pereira, Sao Paulo, Brazil, p.A1602

P1200 **Transbronchial Lung Cryobiopsy (TBLC) in the Diagnosis of Interstitial Lung Disease: Diagnostic Yield, Complication Rate and Cost-Effectiveness**/C. Langton, J. D'Costa, B. Dougherty, D. Lance, R. Meng, A. Rose, Adelaide, Australia, p.A1603

- P1201** **Impact of Lung Function Decline on Health-Related Quality of Life in Patients with Idiopathic Pulmonary Fibrosis (IPF)/M.** Kreuter, W. Stansen, S. Stowasser, N. Schoof, Heidelberg, Germany, p.A1604
- P1202** **Risk of Venous Thromboembolism in Patients with Idiopathic Pulmonary Fibrosis: A Meta-Analysis/B.** Boonpheng, P. Ungprasert, D.R. Ginn, Johnson City, TN, p.A1605
- P1203** **Increased Mortality in Idiopathic Pulmonary Fibrosis Patients When Admitted to the Intensive Care Unit with Mechanical Ventilation/S.** Chaaban, E. Cassity, A. Kelly, S. Dhar, P.E. Morris, Lexington, KY, p.A1606
- P1204** **Sex-Specific Predictors of Death in Idiopathic Pulmonary Fibrosis/T.** Zaman, H.R. Collard, J.S. Lee, Aurora, CO, p.A1607
- Facilitator:** A.W. Brown, MD, Falls Church, VA
- P1205** **Longitudinal Health Related Quality of Life in Patients with Idiopathic Pulmonary Fibrosis/P.L.** Molyneaux, A.-M. Duggan, W. Fahy, G. Saini, R. Braybrooke, R. Marshall, E. oballa, A. kangombe, R.G. Jenkins, T. Maher, London, United Kingdom, p.A1608
- P1206** **Prevalence of Anxiety and Depression in Patients with Interstitial Lung Disease: Correlation with Quality of Life and Lung Function/M.** Fernandez, M.L. Alberti, F. Caro, A. Miranda, F. Ipuche, F. Paulin, Buenos Aires, Argentina, p.A1609
- P1207** **Patients with Interstitial Pneumonia with Autoimmune Features May Have Improved Lung Transplant Survival Compared to Those with Idiopathic Pulmonary Fibrosis/A.** Vaidy, Y. Dotan, E.R.A. Narewski, G.J. Criner, A.J. Marnary, Philadelphia, PA, p.A1610
- P1208** **Body Mass Index and Mid-Arm Circumference as Predictors of Fat-Free Mass Loss in Idiopathic Pulmonary Fibrosis Patients: A Cross-Sectional Study/S.** Jouneau, M. Kerjouan, C. Rousseau, M. Lederlin, F. Llamas-Gutierrez, B. Delatour, S. Guillot, L. Vernhet, B. Desrues, R. Thibault, Rennes, France, p.A1611
- P1209** **Distance Saturation Product Predicts an Elevated Pulmonary Vascular Resistance in Patients with Combined Pulmonary Fibrosis and Emphysema/J.** Brown, O.A. O'Corragain, N. Marchetti, G.J. Criner, Philadelphia, PA, p.A1612
- P1210** **NT-proBNP Is Elevated and Predicts Mortality in Anti-RBP Positive Idiopathic Interstitial Pneumonia/R.S.** Bermea, A.O. Adegunsoye, J. Oldham, C. Lee, J.H. Chung, S. Montner, I. Noth, M.E. Streck, R. Vij, Chicago, IL, p.A1613
- P1211** **The Predictive Risk Factors for Lung Cancer in Patients with Idiopathic Pulmonary Fibrosis/K.** Ikezoe, T. Handa, K. Tanizawa, A. Sokai, Y. Nakatsuka, Y. Murase, T. Kubo, A. Yoshizawa, S. Nagai, K. Chin, T. Hirai, Kyoto, Japan, p.A1614
- P1212** **Six-Minute Walk Distance and Mortality in Idiopathic Pulmonary Fibrosis in Brazil/E.** Viana Mancuzo, M.R. Soares, C.A.D.C. Pereira, Belo Horizonte, Brazil, p.A1615
- P1213** **Regional Distribution of High Attenuation Areas on CT in The Multi-Ethnic Study of Atherosclerosis (MESA)/B.** Choi, S.M. Kawut, G. Raghu, E.A. Hoffman, R. Tracy, P. Madahar, E.J. Bernstein, R.G. Barr, D.J. Lederer, A. Podolanczuk, New York, NY, p.A1616
- P1214** **Pharmacometabolic Response to Pirfenidone Treatment in Pulmonary Fibrosis Detected by High Resolution MALDI FTICR-Mass Spectrometry Imaging/I.E.** Fernandez, N. Sun, M. Wei, M. Witting, M. Aichler, S. Verleden, P. Schmitt-Kopplin, O. Eickelberg, A. Walch, Munich, Germany, p.A1617
- P1215** **The Irregularity for Pleural Surface Using 3D Lung Analysis Affects the Mortality in IPF/G.** Matama, H. Nakagawa, T. Baba, T. Katano, K. Isomoto, N. Aiko, R. Ootoshi, E. Tabata, R. Shintani, S. Sadoyama, I. Satoshi, H. Yamakawa, T. Niwa, T. Oda, R. Okuda, A. Sekine, H. Kitamura, S. Komatsu, E. Hagiwara, T. Ogura, Kanagawa, Japan, p.A1618
- Facilitator:** S.A. Guler, MD, Vancouver, Canada
- P1216** **Analysis of Chest Computed Tomography (CT) in Idiopathic Pulmonary Fibrosis (IPF): Protocols and Timing of Imaging Studies Among Patients Enrolled in the Pulmonary Fibrosis Foundation Patient Registry (PFF-PR)/C.** Holtze, J. Moore, E. Green, B. Wang, J.S.V. Sheth, M. Salisbury, E. Belloli, E.S. White, K.R. Flaherty, Ann Arbor, MI, p.A1619
- P1217** **Semi-Quantitative CT Chest Scoring System for Anti-Synthetase Syndrome Associated ILD/C.** Hsieh, K. Fogelfeld, C. Jude, N. Barot, Los Angeles, CA, p.A1620
- P1218** **Extent of the Honeycombing Area and the Presence of Traction Bronchiectasis Are Risk Factors for Poorer Prognosis in Patients with Pleuroparenchymal Fibroelastosis/M.** Namba, T. Masuda, K. Yamaguchi, S. Sakamoto, Y. Horimasu, S. Miyamoto, T. Nakashima, H. Iwamoto, S. Ohshimo, K. Fujitaka, H. Hamada, N. Hattori, Hiroshima, Japan, p.A1621
- P1219** **Clinical Features and Prognosis of Pleuroparenchymal Fibroelastosis in Korean/J.H.** Lee, J.W. Song, D.S. Kim, Busan, Korea, Republic of, p.A1622
- P1220** **Differential Diagnosis of Pleuroparenchymal Fibroelastosis and Treatment Response/T.** Oda, E. Hagiwara, H. Kitamura, S. Ikeda, H. Nakagawa, T. Niwa, K. Isomoto, G. Matama, T. Ogura, Yokohama, Japan, p.A1623
- P1221** **Clinical Features and Efficacy of Antifibrotic Agents in IPF Associated with Radiologic Pleuroparenchymal Fibroelastosis Like Lesion/K.** Sugino, Y. Nakamura, T. Isshiki, K. Matsumoto, M. Ando, K. Mori, E. Tsuboi, S.A. Homma, Tokyo, Japan, p.A1624
- P1222** **Usual Interstitial Pneumonia Pattern in the Lower Lung Lobes as a Prognostic Factor in Idiopathic Pleuroparenchymal Fibroelastosis/K.** Kono, M. Kato, T. Nakamura, T. Yamada, M. Tajima, H. Ihara, K. Tajima, S. Shiota, F. Takahashi, S. Sasaki, K. Seyama, K. Takahashi, Tokyo, Japan, p.A1625
- P1223** **The Annual Worsening of Honeycombing Area Using Quantitative CT Analysis Increases Risk of Mortality in Idiopathic Pulmonary Fibrosis/H.** Nakagawa, G. Matama, T. Katano, N. Aiko, K. Isomoto, R. Ohtoshi, E. Tabata, R. Shintani, S. Sadoyama, H. Yamakawa, S. Ikeda, T. Niwa, T. Oda, R. Okuda, A. Sekine, H. Kitamura, T. Baba, S. Komatsu, E. Hagiwara, Y. Nakano, T. Ogura, Shiga, Japan, p.A1626
- P1224** **A New Method For The Diagnosis Of Bleomycin Toxicity: Thoracic Ultrasonography/C.** Dogan, S. Cömert, B.N. Caglayan, S.B. Sagmen, E.T. Parmaksiz, N. Kiral, A. Fidan, B.M. Salepci, Istanbul, Turkey, p.A7661

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

P1225 Expert Consensus on the Management of Adverse Events and Prescribing Practices Associated with the Treatment of Patients Taking Pirfenidone for Idiopathic Pulmonary Fibrosis: A Delphi Consensus Study/F.F. Rahaghi, Z. Safdar, A.W. Brown, J.A. De Andrade, K. Flaherty, R.J. Kaner, C.S. King, M.L. Padilla, I. Noth, M.B. Scholand, A. Shifren, S.D. Nathan, Weston, FL, p.A7662

P1226 The ILD-GAP Risk Prediction Model Performs Poorly in Patients with Myositis-Associated ILD/C. Johnson, R. McKibben, I. Pinal Fernandez, K. Psoter, J. Paik, M. Albayda, C. Mecoli, E. Tiniakou, A. Mammen, L. Christopher-Stine, S.K. Danoff, Baltimore, MD, p.A7663

THEMATIC POSTER SESSION

A42 ILD SCIENTIFIC ABSTRACTS: TREATMENT AND ACUTE EXACERBATION

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area K (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: R.K. Putman, MD, MPH, Boston, MA

P1227 Description and Predictors of Antifibrotic Medication Use Among Patients Enrolled in the Pulmonary Fibrosis Foundation Patient Registry (PFF-PR)/C. Holtze, S. Limb, J.L. Stauffer, K. Raimundo, W. Pan, E. Freiheit, J. Moore, K.R. Flaherty, H. Kim, Ann Arbor, MI, p.A1627

P1228 Weight Loss in Patients on Antifibrotic Therapy for IPF (Idiopathic Pulmonary Fibrosis): A Single Center Retrospective Review/C. Gutierrez, J. Kraft, J. Galli, E.R.A. Narewski, Philadelphia, PA, p.A1628

P1229 Demonstration of Preclinical Efficacy in Pulmonary Fibrosis Models and of Clinical Safety, Tolerability, and Pharmacodynamic Effects of the First-in-Class Angiotensin AT2-Receptor Agonist Compound 21 (C21)/U.M. Steckelings, L. Lindblad, P. Vainio, J. Graens, B. Dahlloef, P. Jansson, T. Unger, P. Korhonen, A. Wiksten, E. Bruce, A. Rathinasabapathy, V. Shenoy, C. Sumners, M. Katovich, M. Scheinin, Mölndal, Sweden, p.A1629

P1230 Nintedanib and Pirfenidone as a Bridge to Lung Transplant in Idiopathic Pulmonary Fibrosis/D. Li, W. Mason, H. Hoy, I. Robbins, J. Loyd, L. Lancaster, Nashville, TN, p.A1630

P1231 Synthetic Peptide dNP-15 Targeting TGF-Beta Signaling Prevents Pulmonary Fibrosis Induced by Bleomycin in Rats/Y. Ding, X. Li, L. Xiao, R. Chen, X. Liu, X. Chen, Chengdu, China, p.A1631

P1232 A Study of Tolerability and Therapeutic Effect of Antifibrotic Agents for Elderly Patients with Idiopathic Pulmonary Fibrosis/T. Sawata, Ootaku, Japan, p.A1632

P1233 Prognostic Impact of the Early Physiological Response to Pirfenidone in Patients with Idiopathic Pulmonary Fibrosis/M. Kono, Y. Nakamura, N. Enomoto, G. Saito, Y. Koyanagi, K. Miyashita, A. Tsutsumi, T. Kobayashi, Y. Miki, D. Hashimoto, T. Suda, H. Nakamura, Hamamatsu, Japan, p.A1633

P1234 Association of Angiotensin Modulators with the Course of Idiopathic Pulmonary Fibrosis/M. Kreuter, L. Frankenstein, D.J. Lederer, M. Molina-Molina, I. Noth, C. Valenzuela, D. Weycker, K.-U. Kirchgaessler, V. Cottin, Heidelberg, Germany, p.A1634

P1235 Indication for and Impact of Switching from Pirfenidone to Nintedanib in Idiopathic Pulmonary Fibrosis/C. Hogben, V. Kouranos, M. Kokosi, E.A. Renzoni, F. Chua, A.U. Wells, T.M. Maher, P.L. Molyneaux, P.M. George, London, United Kingdom, p.A1635

P1236 Idiopathic Pulmonary Fibrosis (IPF) Drug Development Using SAMiRNA, a Second-Generation RNAi Platform Technology/P.O. Yoon, Daejeon, Korea, Republic of, p.A1636

P1237 Integrative Omics to Discover Drug Repurposing Candidates for Idiopathic Pulmonary Fibrosis/Y. Wang, S. Yaddanapudi1, J. Yella, V. Sontake, S.K. Madala, A. Jegga, Cincinnati, OH, p.A1637

P1238 Pirfenidone in Patients with Unclassifiable Progressive Fibrosing Interstitial Lung Disease: Demographic and Baseline Characteristics/T.M. Maher, T.J. Corte, A. Fischer, M. Kreuter, D.J. Lederer, M. Molina-Molina, K. Samara, J. Axmann, K.-U. Kirchgaessler, V. Cottin, London, United Kingdom, p.A1638

P1239 Mycophenolate and Rituximab in Patients with Interstitial Lung Disease Associated with Connective Tissue Disorder in the Setting of Positive Myositis Antibodies: A Retrospective Analysis/R. Burnside, I.C. Mira-Avendano, Jacksonville, FL, p.A1639

Facilitator: N. Chaudhuri, MBChB, Sheffield, United Kingdom

P1240 PK and PK/PD Modeling to Inform Dosing Optimization for Pamrevlumab in Idiopathic Pulmonary Fibrosis (IPF)/E. Gorina, J. Chou, T. Sekayan, S. Porter, P. Yu, E. Kouchakji, M. Zager, H. Li, R. Wada, San Francisco, CA, p.A1640

P1241 Pirfenidone and Nintedanib Therapy for Idiopathic Pulmonary Fibrosis: A Tertiary Centre Experience/N. Diab, T. Mao, S.K. Danoff, Baltimore, MD, p.A1641

P1242 Safety and Tolerability of Nintedanib in Patients with Idiopathic Pulmonary Fibrosis (IPF): Pooled Data from Six Clinical Trials/L.H. Lancaster, P. Hernandez, Y. Inoue, D. Wachtlin, L. Loaiza, C.S. Conoscenti, M. Quaresma, S. Stowasser, L. Richeldi, Nashville, TN, p.A1642

P1243 Risk Factors of Nausea or Anorexia Following Nintedanib Administration in Patients with Idiopathic Pulmonary Fibrosis/T. Nakamura, M. Kato, K. Kono, T. Yamada, R. Kanemaru, H. Ihara, T. Sato, N. Harada, S. Togo, T. Nagaoka, F. Takahashi, S. Sasaki, K. Seyama, K. Takahashi, Tokyo, Japan, p.A1643

P1244 Interstitial Pneumonia with Autoimmune Features and Histologic UIP: Anti-Fibrotic Versus Immunosuppressant Therapy/Y. Yamano, Y. Kondoh, J. Fukuoka, T. Johkoh, T. Kimura, K. Kataoka, T. Matsuda, T. Yokoyama, T. Furukawa, Y. Mori, Aichi, Japan, p.A1644

- P1245 INSTAGE: A Randomized Trial of Nintedanib Plus Sildenafil Versus Nintedanib Alone in Patients with Idiopathic Pulmonary Fibrosis (IPF) and Advanced Lung Function Impairment/M.R.J. Kolb, A. Wells, J. Behr, L. Richeldi, S.Y. Schnaidt, M. Quaresma, S. Stowasser, G. Raghu, F.J. Martinez, Hamilton, Canada, p.A1645**
- P1246 Efficacy of Oral Antifibrotic Agents in the Management of Combined Pulmonary Fibrosis and Emphysema/G.A. Fernandez Romero, N. Marchetti, A. Hu, A. Vaidy, C.A. Nieves Prado, H. Zhao, G.J. Criner, Philadelphia, PA, p.A1646**
- P1247 Baseline Characteristics from a Pre-Specified Interim Analysis of a Phase IIb, Randomized, Double-Blind, Placebo-Controlled Trial of Sildenafil Added to Pirfenidone in Patients with Advanced Idiopathic Pulmonary Fibrosis and Pulmonary Hypertension/J. Behr, S.D. Nathan, S. Harari, W. Wuyts, K.-U. Kirchgaessler, M. Bengus, F. Gilberg, A.U. Wells, Munich, Germany, p.A1647**
- P1248 Gastrointestinal Adverse Events with Nintedanib with Add-On Pirfenidone in Patients with Idiopathic Pulmonary Fibrosis (IPF): Further Analyses of INJOURNEY/C. Vancheri, M. Kreuter, L. Richeldi, C.J. Ryerson, D. Valeyre, J.C. Grutters, W. Stansen, M. Quaresma, S. Stowasser, W.A. Wuyts, Catania, Italy, p.A1648**
- P1249 Pharmacodynamics and Pharmacokinetics of the Autotaxin Inhibitor GLPG1690 in the FLORA Trial: A Randomized, Placebo-Controlled, Double Blind Phase IIa Clinical Trial of 12 Weeks in Individuals with Idiopathic Pulmonary Fibrosis/S. Dupont, J. Desrivot, J. Ralic, R. Blanqué, A. Monjardet, L. Allamassey, L. Fagard, J. Padovan, B. Heckmann, O. Van de Steen, E. van der Aar, A. Fieuw, Romainville, France, p.A1649**
- P1250 Is It Useful to Use Neutrophil to Lymphocyte Ratio During Follow-Up and Response to Treatment in Interstitial Lung Diseases?/Z. Karakurt, M. Agca, B. Ocakli, F. Tokgoz Akyil, B. Gundogus, I. Erdem, A. Hazar, H. Turker, S. Boga, T.E. Sevim, Istanbul, Turkey, p.A1650**
- P1251 Effects of Nintedanib on Pulmonary Hypertension in IPF Patients/M. Tahara, K. Oda, T. Kido, K. Yatera, Fukuoka, Japan, p.A1651**
- P1252 Investigating the Effect of Nintedanib on Changes in Biomarkers of ECM Turnover in Patients with IPF and Limited FVC Impairment: Design of the INMARK Study/T.M. Maher, S. Stowasser, Y. Nishioka, E. White, V. Cottin, I. Noth, M. Selman, D. Wachtlin, C. Diefenbach, R.G. Jenkins, London, United Kingdom, p.A1652**
- P1253 The Effectiveness, Safety and Tolerability of Pirfenidone Therapy Among Turkish Patients with Idiopathic Pulmonary Fibrosis/I. Hanta, A. Cilli, C. Sevinc, H. Dirol, S. Kuleci, Adana, Turkey, p.A1653**
- P1254 Higher Body Mass Index Relates to Administering Pirfenidone for a Long-Term in Patients with Idiopathic Pulmonary Fibrosis/H. Matsuyama, S. Sakamoto, T. Isshiki, K. Isobe, Y. Takai, S. Homma, Tokyo, Japan, p.A1654**
- Facilitator:** A. Brown, MD, BSN, Atlanta, GA
- P1255 Compassionate Use Program of Nintedanib for the Treatment of Idiopathic Pulmonary Fibrosis in Latin America/G.C. Tabaj, A. Undurraga Pereira, C.A. Iberico, C.M. Delgado Viteri, Buenos Aires, Argentina, p.A1655**
- P1256 The Addition of Antifibrotic Medications to Mycophenolate in the Treatment of Non-IPF Interstitial Lung Disease/D. Baumgarten, H. Zhao, G.J. Criner, Philadelphia, PA, p.A1656**
- P1257 Effects of Pirfenidone on Survival and Functional/Radiological Evolution in Patients with Idiopathic Pulmonary Fibrosis (IPF): A Real-Life, Retrospective, Single Center, Observational Study/S. De Magistris, L. Tavanti, C. Romei, E. Perrone, M. Lazzaretto, A. Celi, F. Falaschi, A. Palla, Pisa, Italy, p.A1657**
- P1258 Survival After Respiratory Hospitalization for Acute Exacerbation and Non-Acute Exacerbation in IPF/O. Nishiyama, R. Yamazaki, S. Saeki, H. Sano, T. Iwanaga, Y. Higashimoto, H. Kume, Y. Tohda, Osaka, Japan, p.A1658**
- P1259 Correlation of Functional Assessment and CT Scores in Acute Exacerbations in Patients with Idiopathic Pulmonary Fibrosis Using the Automated Lung Fibrosis Quantification Tool (LUFIT)/M. Kreuter, L. Kehler, T. Norajitra, A. Giannakis, R. Rubtsov, C. Bauer-Kemény, K.H. Maier-Hein, C.P. Heussel, Heidelberg, Germany, p.A1659**
- P1260 Clinical Features of Acute Exacerbation of Interstitial Lung Disease Other than Idiopathic Pulmonary Fibrosis/K. Miyashita, M. Kono, G. Saito, Y. Koyanagi, A. Tsutsumi, T. Kobayashi, Y. Miki, D. Hashimoto, Y. Nakamura, T. Suda, H. Nakamura, Hamamatsu, Japan, p.A1660**
- P1261 Acute Exacerbation of Idiopathic Pulmonary Fibrosis in Korea: Analysis of Risk Factors and Outcome from the Korean Idiopathic Pulmonary Fibrosis Registry/H. Kim, J.W. Song, Seoul, Korea, Republic of, p.A1661**
- P1262 The Role of Infection in Acute Exacerbation of Idiopathic Pulmonary Fibrosis/D. Weng, L. Huiping, Shanghai, China, p.A1662**
- P1263 Pharmacological Treatment for Acute Exacerbation of Fibrosing Interstitial Pneumonia: A Retrospective Study of 95 Patients/S. Sakamoto, Tokyo, Japan, p.A1663**
- P1264 Acute Exacerbation of Idiopathic Pulmonary Fibrosis Over a 9-Year Period in a Community Teaching Hospital in Japan/M. Yamazoe, H. Tomioka, Kobe, Japan, p.A1664**
- P1265 Predictors in Patients with Fulminant Acute Exacerbation of Fibrosing Interstitial Pneumonia/M. Sunakawa, S. Sakamoto, H. Shimizu, A. Suzuki, N. Urabe, T. Isshiki, K. Kaburaki, T. Sawata, G. Sano, K. Isobe, S. Homma, Tokyo, Japan, p.A1665**
- P1266 High-Flow Nasal Cannula Therapy for Acute Respiratory Failure in Patients with Interstitial Pneumonia: A Retrospective Observational Study/N. Omote, N. Hashimoto, N. Matsuda, K. Nishida, K. Sakamoto, A. Ando, Y. Nakahara, M. Nishikimi, M. Higashi, S. Matsui, Y. Hasegawa, Nagoya, Japan, p.A1666**

THEMATIC POSTER SESSION

A43 ILD SCIENTIFIC ABSTRACTS: GENERAL

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area K (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: K. Johansson, MD, MPH, Calgary, Canada

- P1270 Quantitative Assessment of Erector Spinae Muscles in Patients with Interstitial Pneumonia/Y. Nei, T. Kishaba, M. Momose, H. Nagano, S. Yamashiro, Okinawa, Japan, p.A1667**
- P1271 Interstitial Lung Disease in ANCA-Positive Vasculitis Patients/M. Kwon, I.C. Mira-Avendano, A. Khor, C. Rojas, A. Abril, Jacksonville, FL, p.A1668**
- P1272 Profile of Interstitial Lung Disease in North India/D.P. Bhadoria, K.M. Srikant, V.V. Batra, S. Singh, C. Vermani, S.G. Nithin, P. Thande, P. Bharti, P. Bhadoria, New Delhi, India, p.A1669**
- P1273 Diagnosis and Management of Patients with Interstitial Lung Disease (ILD) in Clinical Practice in Germany: Exciting-ILD Registry/M. Kreuter, F.J. Herth, S. Witt, H.J. Kabitz, L. Hagemeyer, P. Hammerl, A. Esselmann, C. Wiederhold, D. Skowasch, C. Stolpe, M. Joest, S. Veitshans, R. Leidl, A. Hellmann, M. Pfeifer, J. Behr, A. Guenther, P. Markart, Heidelberg, Germany, p.A1670**
- P1274 Diagnostic Criteria, Prevalence, and Outcome of Unclassifiable Interstitial Lung Disease: A Systematic Review and Meta-Analysis/S.A. Guler, K. Ellison, M. Algamdi, H.R. Collard, C.J. Ryerson, Vancouver, Canada, p.A1671**
- P1275 Antinuclear Antibody Seropositivity Is Associated with Inhalational Environmental Exposures in Patients with Interstitial Lung Disease/K. Biblowitz, R. Vij, I. Noth, M.E. Streck, S.K. Bellam, A.O. Adegunsoye, Evanston, IL, p.A1672**
- P1276 Multidrug Resistant Pathogens in Hospitalized Interstitial Lung Disease Patients/H. Iftikhar, C. Zhang, F. Figueroa Rodriguez, G. Nair, Royal Oak, MI, p.A1673**
- P1277 Characteristics of Connective Tissue Related Interstitial Lung Disease in the Mid-Atlantic Veterans Affairs Regional Network/R.A. Pleasants, A. Bedoya, R. Kundich, J. Boggan, A. Reihman, D. Seaman, L. Howard, K.E. Welty-Wolf, R.M. Tighe, Durham, NC, p.A1674**
- P1278 The Incidence of Interstitial Pneumonia with Autoimmune Features in a Tertiary Referral Center Interstitial Lung Disease Clinic/R.J. Bohle, T. Healey, B. Shea, Providence, RI, p.A1675**
- P1279 Comorbidity Profiles in Idiopathic Pulmonary Fibrosis Patients Using Electric Medical Record from a Single Center Interstitial Lung Disease Registry/G.H. Kim, Los Angeles, CA, p.A1676**
- P1280 Retrospective Case Series of Thirty-Two Patients with Biopsy-Proven Chronic Eosinophilic Pneumonia/A. Rajaratnam, J. Tso, F. Shah, McKeesport, PA, p.A1677**

- P1281 Non-IPF Progressive Fibrosing Interstitial Lung Disease (PF-ILD): The Patient Journey/M. Wijsenbeek, M. Kreuter, A. Fischer, B. Mounir, L. Zouad-Lejour, C.D. Wells, M. Quaresma, V. Cottin, Rotterdam, Netherlands, p.A1678**

Facilitator: J.S.V. Sheth, MD, Ann Arbor, MI

- P1282 Clinical Features and Prognostic Factors for Dermatomyositis-Associated Interstitial Lung Diseases with Anti-MDA5 Antibody/T. Fujisawa, H. Hozumi, H. Yasui, Y. Suzuki, M. Karayama, K. Furuhashi, N. Enomoto, Y. Nakamura, N. Inui, T. Suda, Hamamatsu, Japan, p.A1679**
- P1283 Circulating Fibrocytes as Biomarkers of Disease Activity Among Patients with Connective Tissue Disease-Associated Interstitial Lung Disease and Interstitial Pneumonitis with Autoimmune Features/J. Odackal, V. Yu, M.D. Burdick, B. Mehrad, Charlottesville, VA, p.A1680**
- P1284 Anti-MDA5-Antibody Is Not Prognostic Marker in the Chronic Phase of Interstitial Lung Disease in Patients with Dermatomyositis/S. Sakamoto, M. Okamoto, S. Kaieda, M. Nakamura, T. Nouno, T. Koga, M. Tominaga, T. Kawayama, M. Kuwana, H. Ida, T. Hoshino, K. Fujimoto, S. Nagata, Kurume, Japan, p.A1681**
- P1285 Profile of Connective Tissue Disease Associated Interstitial Lung Disease in Rio de Janeiro State University/B. Rangel, P.R.S. Ribeiro, C.H. Costa, R. Rufino, Rio de Janeiro, Brazil, p.A1682**
- P1286 Prospective Study of Patients Evaluated at an Interstitial Lung Disease Clinic in Singapore Over 5 Years/Y.H. Tan, S.Y. Low, Singapore, Singapore, p.A1683**
- P1287 Evaluating the Discordance of Multidisciplinary Diagnosis of Interstitial Lung Disease in Japan/K. Tanaka, A. Miyamoto, H. Sugiura, T. Tanaka, S. Sasaki, H. Sumikawa, M. Kitani, H. Ishii, N. Yanagawa, S. Kunugi, S. Izumi, T. Johkoh, F. Sakai, Y. Kawabata, Y. Terasaki, A. Hebisawa, T. Takemura, T. Ogura, Y. Okochi, K. Sugino, K. Tomii, Y. Yamada, Shibuya-ku, Japan p.A1684**
- P1288 Pneumothorax in Patients with Idiopathic Interstitial Pneumonias/M. Haraguchi, M. Kato, T. Nakamura, K. Horikoshi, H. Yoshikawa, H. Ihara, T. Asao, S. Okamoto, H. Takagi, F. Takahashi, M. Sekiya, K. Seyama, K. Takahashi, Saitama, Japan, p.A1685**
- P1289 Interstitial Lung Disease Among Patients with Giant Cell Arteritis/T. Jinta, H. Tamaki, M. Okada, R. Imai, H. Kanemura, K. Ishii, R. Tsugitomi, K. Okafuji, A. Kitamura, Y. Tomishima, N. Nishimura, T. Tamura, Tokyo, Japan, p.A1686**
- P1290 Non-Tuberculous Mycobacteria in Interstitial Lung Disease: To Treat or Not to Treat?/H.T. Oakland, V.S. Taskar, J.A. Lasky, R.C. Klingsberg, New Orleans, LA, p.A1687**
- P1291 Upper Lobe Predominant Fibrosing Interstitial Lung Diseases (ILDs): Prevalence, Causes, Characteristics and Prognosis/H. Nunes, L. Mourtada, L. Sese, P.-Y. Brillet, D. Bouvry, M. Kambouchner, D. Valeyre, Bobigny, France, p.A1688**

- P1292 Comparison of Idiopathic Interstitial Pneumonia and Connective Tissue Disease Related Interstitial Lung Disease by Physiologic and Functional Testing Parameters/S.K. Avasarala, S. Gorgis, M. Dabbagh, A. Saeed, C. Gandolfo, N. Garza, J.H. Jennings, K. Thavarajah, Cleveland, OH, p.A1689**
- P1293 Idiopathic Non-Specific Interstitial Pneumonia (Workshop Summary of a Japanese Multicenter Study)/Y. Inoue, M. Kitaichi, M. Akira, J.L. Myers, T. Johkoh, T. Kasai, Y. Kawabata, S. Shimizu, T. Tanaka, K. Hatanaka, F. Sakai, E. Egashira, H. Sumikawa, K. Tomii, Y. Kondoh, Y. Yamada, R. Takei, H. Tomioka, R. Sato, N. Hamada, S. Izumi, T. Kishaba, M. Tahara, I. Owan, T. Ogura, K. Fukushima, C. Sugimoto, K. Tsuyuguchi, K. Tachibana, T. Arai, A. Matsumuro, Osaka, Japan, p.A1690**
- P1294 Idiopathic Pulmonary Fibrosis in Never Smokers/M. Toyoshima, A. Fukada, D. Akahori, T. Suda, Hamamatsu, Japan, p.A1691**
- Facilitator:** B. Graney, MD, Aurora, CO
- P1295 High Prevalence of Possible Usual Interstitial Pneumonia Pattern in Chronic Hypersensitivity Pneumonitis at a Brazilian Reference Center/A.F. Amaral, J.V.K. Schubsky, F.E. Arimura, M.V.Y. Sawamura, B.G. Baldi, C.R.R. Carvalho, Sao Paulo, Brazil, p.A1692**
- P1296 Platelet Delta Granule Evaluation in Lung Transplant Recipients with HPS-1 to Study Platelet Biogenesis/D.J. Appell, D. Chen, K. O'Brien, A. Sharda, W. Gahl, V. Friedman, B.R. Gochuico, Oyster Bay, NY, p.A1693**
- P1297 Comparison Between the Functional Parameters in IPF and CPFE/F. Anselmo, D.R. Aylmer, M.A.R. da Silva, A.C.R. Barbosa, M.C. Lopes, B. Rangel, R. Rufino, C.H. Costa, Rio de Janeiro, Brazil, p.A1694**
- P1298 A Rare Combination of Lymphangiomyomatosis with Hypersensitivity Pneumonia/R.B. Filho, M. Rodrigues de Oliveira, A.F. Amaral, E. Nascimento, F.E. Arimura, B.G. Baldi, R.A. Kairalla, C.R.R. Carvalho, Sao Paulo, Brazil, p.A1695**
- P1299 Exertional Desaturation and Prescription of Ambulatory Oxygen Therapy in Interstitial Lung Disease/Y.H. Khor, N. Goh, I. Glaspole, A.E. Holland, C.F. McDonald, Melbourne, Australia, p.A1696**
- P1300 The Prevalence and Characteristics of Idiopathic Pulmonary Fibrosis with Psoriasis/G. Ishikawa, A. Mathur, S. Dua, M. Salvatore, M. Padilla, New York, NY, p.A1697**
- P1301 Low Vitamin K Status in Idiopathic Pulmonary Fibrosis/B. de Brouwer, E.S. White, R. Janssen, Nijmegen, Netherlands, p.A1698**
- P1302 The MUC5B Promoter Variant Is an Independent Risk Factor of Idiopathic Interstitial Pneumonitis (IIP) in Families with Multiple Cases of IIP/R. Borie, A.D. Walts, M. Bishop, J. Powers, T.E. Fingerlin, J. Cardwell, J.E. Loyd, M.I. Schwarz, K.K. Brown, I.V. Yang, D.A. Schwartz, Paris, France, p.A1699**
- P1303 Telomere-Associated Polymorphisms and Risk of Chronic Respiratory Diseases, Results from Fold Registry/M. Arimura-Omori, Y. Yamamoto, T. Yanagihara, S. Ogata-Suetsugu, N. Hamada, T. Tsuda, S. Takata, N. Inoue, K. Yatera, H. Mukae, T. Hoshino, N. Nagata, K. Watanabe, C. Yoshii, Y. Wakata, S. Tokunaga, C. Kiyohara, Y. Nakanishi, Fukuoka, Japan, p.A1700**

- P1304 To Determine Which Pulmonary Function Parameters Should Be Considered for Grading Severity of Restrictive Lung Disease/R.J. Cho, K. Wyrzys, E.O. Corazalla, H. Kim, Minneapolis, MN, p.A1701**
- P1305 Telomere Length and the MUC5B Promoter Polymorphism in Patients with Unclassifiable Interstitial Lung Disease/B.J. Ley, S. Liu, B.M. Elicker, T.S. Henry, E. Vittinghoff, J.A. Golden, K.D. Jones, P.J. Wolters, San Francisco, CA, p.A7664**

THEMATIC POSTER SESSION

A44 COPD: PHENOTYPES AND COMORBIDITIES

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area E (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: A.P. Comellas, MD, Iowa City, IA

- P429 Changes in the Profile of Comorbidities in COPD and ACO with the Modified GOLD 2017 Guidelines/A. Bikov, M. Meszaros, L. Bartfai, Z. Bartfai, Budapest, Hungary, p.A1702**
- P430 Assessment of Chronic Obstructive Airways Disease in Heart Failure: An Analysis of Current Practice/R. Muthusami, M. Mahmoud, N. Candassamy, E. Crawford, A. Makan, N. Ahmad, K.S. Srinivasan, H. Moudgil, Telford, United Kingdom, p.A1703**
- P431 Measures of Adiposity Influence Disease Impact in Non-Obese Subjects with Mild to Moderate COPD: An Analysis of the SPIROMICS Cohort/C.O. Eijke, W.W. Labaki, R.G. Barr, E.R. Bleecker, C.B. Cooper, J.L. Curtis, N.N. Hansel, N. Putcha, L.M. Paulin, A. Fawzy, R.E. Kanner, F.J. Martinez, R. Paine, P. Woodruff, E.A. Regan, J.M. Bon, A. Diaz, V. Kim, V.E. Ortega, M.K. Han, C. Martinez, Ann Arbor, MI, p.A1704**
- P432 Validation of and Phenotypic Variation in Flow and Volume Components of Bronchodilator Response in a Chronic Obstructive Pulmonary Disease Cohort/C. Riley, C. Karoleski, A.S. LaPrad, S.M. Nouraie, F.C. Sciruba, Pittsburgh, PA, p.A1705**
- P433 Prevalence of Acute Diastolic Heart Failure in Patients with COPD Exacerbation: A National In-Patient Sample Study/G. Eigbire, A. Abdullah, A. Wahab, A. Salama, J. Stalica, R. Alweis, Rochester, NY, p.A1706**
- P434 Probabilistic Graphical Models Identify SNP Causal Predictors of COPD Markers and Comorbidities in Extreme Trait COPD Patients/K. Buschur, Y. Zhang, J.M. Bon, D. Chandra, C. Riley, C. Karoleski, F.C. Sciruba, P.V. Benos, Pittsburgh, PA, p.A1707**
- P435 Prevalence and Contributory Factors of Obstructive Sleep Apnea in Hospitalized Chronic Obstructive Pulmonary Disease/H.K. Kim, N.R. Jeong, J.H. Lee, H.J. Jang, J.H. Park, H.J. Kim, Busan, Korea, Republic of, p.A1708**

Facilitator: V. Kim, MD, Philadelphia, PA

P436 **Phenotypes in Patients with Severe and Very Severe COPD in the Russian Federation: Observational Multicenter Non-Interventional Study CLOUD/V.** Petrakovskaia, A. Belevskiy, S. Avdeev, K. Blong, Moscow, Russian Federation, p.A1709

P437 **Impact of Cataract on Health-Related Quality of Life in a Longitudinal Japanese Chronic Obstructive Pulmonary Cohort/H.** Irie, S. Chubachi, M. Sato, M. Sasaki, N. Kameyama, T. Inoue, Y. Oyamada, H. Nakamura, K. Asano, T. Betsuyaku, Tokyo, Japan, p.A1710

P438 **Chronic Kidney Disease Is an Independent Risk Factor for Reduced Physical Activity and Exercise Capacity in COPD Patients, Data from the German Cosyconet Cohort/F.C.** Trudzinski, M. Alqudrah, S. Zewinger, F. Danilo, F. Seiler, F. Biertz, A. Koch, C. Vogelmeier, T. Welte, H. Watz, S. Faehndrich, R. Jorres, R. Bals, Homburg, Germany, p.A1711

P439 **Comparison of Characteristics of COPD Patients Caused by Biomass Smoke Exposure and Cigarette Smoke Exposure/H.** Joo, C.D. Yeo, K.H. Yoo, K.-S. Jung, H.K. Yoon, C.K. Rhee, Seoul, Korea, Republic of, p.A1712

P440 **Different Prevalence of Asthma COPD Overlap According to Different Definitions/K.** Kyu Yean, Y. Hyoung Kyu, Y. Kwang Ha, J. Ki Suck, R. Chin Kook, Seoul, Korea, Republic of, p.A1713

P441 **Uncovering Lung Thyroid Crosstalk in Trajectory of Patients with Chronic Obstructive Pulmonary Diseases (COPD) in Nepal/N.** Bhatta, N. Bhurtyal, R. Maskey, M. Lamsal, A.R. Panta, P. Koirala, D. Mishra, B. Bista, Dharan, Nepal, p.A1714

P442 **Cognitive Function and Hippocampus Volume in Chronic Obstructive Pulmonary Disease/R.** Manabe, Y. Masaoka, K. Okuda, M. Yoshida, A. Yoshikawa, S. Kubota, H. Sato, H. Yamagami, K. Hirai, S. Ohta, T. Homma, T. Kawahara, H. Mikuni, N. Kuwahara, T. Kimura, M. Jinno, Y. Miyata, M. Yamaguchi, H. Inoue, F. Yamaguchi, M. Yamamoto, S. Kusumoto, S, p.A1715

Facilitator: J.M. Wells, MD, Birmingham, AL

P443 **Pulmonary Function Abnormalities in Non-Smokers with Congestive Heart Failure/D.** Ahmad, M. Patel, A. Patel, N. Mills, M.S. Sherman, Philadelphia, PA, p.A1716

P444 **Vitamin D Status and Body Composition of COPD Patients/H.L.** Persson, A. Sioutas, M. Kentson, P.K. Jacobson, M. Forsgren, P. Lundberg, O. Dahlqvist-Leinhard, Linkoping, Sweden, p.A1717

P445 **Chronic Obstructive Pulmonary Disease Phenotypes and Severity and Lung Cancer Development: Where and What We Have to Looking For?/A.S.** Sadigov, S. Akhundov, H. Muradov, Baku, Azerbaijan, p.A1718

P446 **Subcutaneous and Visceral Fat Differentially Associate with Emphysema and Airway Phenotypes in Smokers/U.** Shrestha, J.K. Leader, J.M. Bon, F.C. Scirba, Y. Zhang, S.M. Nourai, N. Hyre, McKeesport, PA, p.A1719

P447 **The Prevalence and Risk Factors of Osteoporosis in Individuals with Chronic Obstructive Pulmonary Disease (COPD): A Systematic Review and Meta-Analysis/Y.-W.** Chen, A.H. Ramscook, H.O. Coxson, J.M. Bon, D. Reid, Vancouver, Canada, p.A1720

P448 **Being Overweight but Not Obese in Very Severe COPD: A Survival Analysis/K.** Dupuy-McCauley, R. Benzo, Rochester, MN, p.A1721

P449 **Cardiovascular Co-Morbidity in Adults with COPD: Prevalence, Associated Factors and Impact on Outcomes Over 450 Days/G.A.** Amusa, B.I. Awokola, M. Akanbi, Jos, Nigeria, p.A1722

THEMATIC POSTER SESSION

A45 TOPICS IN INTERVENTIONAL PULMONARY

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area L (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: K.L. Kovitz, MD, MBA, Elk Grove Village, IL

P1359 **Efficacy of Bronchoscopic Lung Volume Reduction (BLVR) with Zephyr® Endobronchial Valves (EBV) Between Patients with Partial Fissure Integrity and Complete Fissure Integrity Measured by Quantitative CT Analysis/K.** Klooster, N.S. Shargill, A. Valipour, D.-J. Slebos, S. Kemp, P. Shah, E. van Rikxoort, F.J. Herth, R. Eberhardt, Groningen, Netherlands, p.A1723

P1360 **Experienced Bronchoscopists Have Reduced Musculoskeletal Strain During Bronchoscopy/B.** Salwen, J. Thiboutot, C. Mallow, D.H. Yu, N.J. Pastis, C. Argento, A.C. Chen, H.J. Lee, C. Gilbert, L.B. Yarmus, Baltimore, MD, p.A1724

P1361 **Significant Delay in the Detection of Desaturation Between Finger Transmittance and Earlobe Reflectance Oximetry Probes During Fiberoptic Bronchoscopy: Analysis of 104 Cases/B.** Pertzov, E. Brachfeld, A. Unterman, E. Gershman, N. Abdel Rahman, D. Rosengarten, M.R. Kramer, Petach Tikva, Israel, p.A1725

P1362 **Coil Associated Inflammatory Response Syndrome (CAIRS) Following Endoscopic Lung Volume Reduction with Endobronchial Coils in Severe Emphysema/G.C.** Michaud, C. Carbone, F.C. Scirba, C.-H. Marquette, G. Deslee, New York, NY, p.A1726

P1363 **Endobronchial Ultrasound-Guided Transbronchial Needle Aspiration: A Predictive Model for Diagnostic Yield Using SAP Score/A.** Ong, A.H. Tan, R. Sultana, D. Anantham, M.S. Koh, Singapore, Singapore, p.A1727

P1364 **Discomfort Factors During Bronchoscopy and Their Impact on Patient Tolerance of Re-Examination/Y.** Shionoya, T. Ishiwata, K. Fujimoto, H. Kasai, J. Terada, S. Sakao, N. Tanabe, K. Tatsumi, Chiba, Japan, p.A1728

P1365 **Microbial Surveillance of Flexible Bronchoscopes: Do We Know What We Are Doing?/J.K.** Pannu, J. Horne, S. Pizzuto, J.S. Kwon, Bridgeport, CT, p.A1729

P1366 **Experimental Pilot Study of Combined Thoracoscopic Surgical Stapling and Intrabronchial Valve Intervention for Incomplete Lobar Fissures in Swine/F.** Kheir, S. Gangadharan, D. Alape, A.C. Chee, M.S. Parikh, L. DeVore, A. Agnew, A. Majid, New Orleans, LA, p.A1730

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

P1367 Diagnostic Utility of Bronchoalveolar Lavage Among Post-Hematopoietic Stem Cell Transplant Patients with Abnormal HRCT Chest Imaging/A. Vose, A.G. Jacob, F. Rafiullah, T.J. Gross, Iowa City, IA, p.A1731

Facilitator: R. Semaan, MD, Pittsburgh, PA

P1368 Financial and Clinical Impact of a Community Based Interventional Pulmonology Program: Procedural Growth, Downstream Revenue Analysis and Stage Shifting/K. Bhadra, Chattanooga, TN, p.A1732

P1369 Nodal Anthracosis: An Underappreciated Cause of Benign Hypermetabolic Thoracic Lymphadenopathy on Positron Emission Tomography/Computed Tomography (PET/CT) in Patients with Suspected Malignancy/J.G. Wang, T.J. Harkin, New York, NY, p.A1733

P1370 Safety Profile of Flexible Fiberoptic Bronchoscopy in Patients with Renal Failure/D. Pena, B. Bajantri, G. Diaz-fuentes, S.K. Venkatram, Bronx, NY, p.A1734

P1371 Endo Bronchial Ultrasound Guided Trans-Vascular Needle Aspiration (TVNA), Our Experience with Twenty-One Patients/A. Sheikh, K.J. Diab, Indianapolis, IN, p.A1735

P1372 Lung Fissure Interruption on Computer Tomography Imaging as a Diagnostic Tool for Interlobar Fusion/T. Vandemoortele, D. St-Pierre, G. Rakovich, Montreal, Canada, p.A1736

P1373 Bronchial Thermoplasty in Patients with Dynamic Hyperinflation/N. Guibert, E. Noel-Savina, G. Plat, D. Rouviere, M. Lescouzeres, C. Hermant, A. Didier, Toulouse, France, p.A1737

P1374 Survival Implications of Diagnostic Modality in Patients Treated for Idiopathic Pulmonary Fibrosis- Radiology, Surgical Lung Biopsy and Transbronchial Bronchoscopic Cryobiopsy/J.K. Pannu, J.C. Hewlett, A.B. Smith, H. Chen, R.J. Lentz, J. Kropski, F. Maldonado, Nashville, TN, p.A1738

P1375 Mechanical Characteristics of 3D Printed Airway Stent/C. Wood, G. Cheng, A. Miller, M.M. Wahidi, K. Gall, Durham, NC, p.A1739

P1376 Description of the Operative Characteristics of Flexible Fiberoptic Bronchoscopy in the Diagnosis of Pulmonary Pathologies in Adult Patients at University Hospital Fundacion Santa Fe de Bogota Between 2012 to 2014/M.P. Caicedo, D. Londoño, J.H. Roa, L.P. Prada, M.A. Castillo, Bogota, Colombia, p.A1740

P1377 Diagnostic Utility of Flexible Bronchoscopy in the Management of Haemoptysis/W.M. Chew, M.C.K. Tay, A.H. Tan, A. Devanand, Singapore, Singapore, p.A1741

P1378 Examination of Anesthetic Dose and Risk Factors When Performing a Bronchial Thermoplasty Under Local Anesthesia/Y. Tsujimoto, S. Ishii, M. Iikura, H. Sugiyama, Tokyo, Japan, p.A1742

P1379 Endobronchial Biopsy as Diagnostic Tool for Sarcoidosis/W.U. Shah, E. Glanville, R. Maeve, R. Morgan, L. Seamus, Dublin, Ireland, p.A1743

P1380 Evaluation of The MetaNeb® System to Reduce Atelectasis as Assessed by Chest X-Ray/T. Diamant, O. Navarro, V. Le, T. Peterson, C. Lucaci, W. Whitney, Newport Beach, CA, p.A1744

P1381 Tissue Adequacy of 25-Gauge Needle in Endobronchial Ultrasound: Is Bigger Truly Better?/R.M. Davis, P. Patel, O.I. Ikladios, Peoria, IL, p.A1745

P1382 Endobronchial Ultrasound-Guided Transbronchial Needle Aspiration Practice in a Small Academic Community Hospital/V. Terla, P. Cruz, M. Dongol, A. Kunadu, L.E. Carrasco, R.M. Ayinla, E.O. Ortiz-Diaz, New York, NY, p.A1746

P1383 Yield in Electromagnetic Navigational Bronchoscopy (ENB) for Peripheral Pulmonary Nodules/M. Ahmad, J.F. Santacruz, E. Graviss, D. Nguyen, Houston, TX, p.A1747

THEMATIC POSTER SESSION

A46 TOPICS IN ALPHA-1-ANTITRYPSIN DEFICIENCY

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area L (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: R.A. Sandhaus, MD, PhD, Denver, CO

P1387 Alpha-1 Antitrypsin Deficiency Is Not a Risk Factor for Cancer: A Cross-Sectional Study/S.D. Kumbhare, K. Brown, H. Al Ashry, L. Schwarz, C. Strange, Charleston, SC, p.A1749

P1388 Results from a Large-Scale Screening Program for Alpha-1 Antitrypsin Deficiency: A History of Bronchiectasis Is Associated with the ZZ Genotype/M. Brantly, C. Charleston, R. Oshins, S. Kavanagh, A.M. Davis, Gainesville, FL, p.A1750

P1389 The Effect of the Environment on Outdoor Six-Minute Walk Test Performance in Individuals with Alpha-1 Antitrypsin Deficiency and Chronic Obstructive Pulmonary Disease/J. Chung, A. Ataya, J. Nolte, V.A. Segui, M.L. Brantly, L. Benninger, Gainesville, FL, p.A1751

Facilitator: C.B. Strange, MD, Charleston, SC

P1390 Improved Detection of COPD and Alpha-1 Antitrypsin Deficiency Screening by Primary Care Physicians Using an Electronic Medical Record Clinical Reminder/L.V. Luna Diaz, B. Hagenlocker, M. Mirsaedi, G.E. Holt, R. Calderon-Candelario, M.A. Campos, Miami, FL, p.A1752

P1391 Smoking and SZ Alpha-1 Antitrypsin Deficiency (AATD): Exploring the Relationship Between Smoke Exposure and Airflow Obstruction/A.N. Franciosi, T.P. Carroll, K. Molloy, M. Molloy, L. Fee, N.G. McElvaney, Dublin, Ireland, p.A1753

P1392 Preclinical Investigation of Safety, Pharmacokinetics and Neoantigenicity of a Liquid Formulation of the Alpha-1 Proteinase Inhibitor Prolastin-C®/V. Arora, G. Taylor, J. Price, M. Cruz, P. Vandeberg, T. Willis, Research Triangle Park, NC, p.A1754

P1393 Analysis of Factors Associated with FEV1 Decline in Alpha-1 Antitrypsin Deficient Patients: A Comparison of Statistical Approaches/R. Choate, D.M. Mannino, K. Holm, R.A. Sandhaus, Lexington, KY, p.A1755

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

P1394 Demographics and Patient Characteristics of the PIMZ* Allele Subgroup Identified in the US National Detection Program for Alpha-1-Antitrypsin Deficiency/M. Brantly, C. Charleston, R. Oshins, S. Kavanagh, A.M. Davis, Gainesville, FL, p.A1756**

Facilitator: R.A. Stockley, MD, DSc, Birmingham, United Kingdom

P1395 Characterization of a Liquid Presentation of the Alpha-1-Proteinase Inhibitor Prolastin-C®/M. Cruz, J. Lang, K. Merritt, K. Wee, T. Willis, Research Triangle Park, NC, p.A1757

P1396 Alpha 1 Antitrypsin Therapy: A Satisfaction Survey of Individuals Self-Administering/R.A. Sandhaus, B.S. Boyd, Littleton, CO, p.A1758

P1397 Alpha-1 Antitrypsin Deficiency Screening in Adults with Bronchiectasis Using Dry Blood Spot/M. Fernandez-Acquier, P. Csipka, J. Sulprizio, P. Malamud, E.R. Giugno, S. Pace, G. Gramblicka, O.R. Lopez Jove, Y.F. Wu, Y.T. Hsueh, Vicente Lopez, Argentina, p.A1759

P1398 Characteristics of Patients with Rare PIF* and PI**I* Alleles from the US National Detection Program for Alpha-1-Antitrypsin Deficiency/M. Brantly, C. Charleston, R. Oshins, S. Kavanagh, A.M. Davis, Gainesville, FL, p.A1760**

THEMATIC POSTER SESSION

A47 NEUROMUSCULAR DISEASE AND RESPIRATION

9:15 a.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER

Area L (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: J. Porszasz, MD, PhD, Torrance, CA
K.A. Kevill, MD, Stony Brook, NY

P1402 Classifying Amyotrophic Lateral Sclerosis Patients by Changes in Forced Vital Capacity: A Group-Based Trajectory Analysis/J. Ackrivo, E.P. Wileyto, J. Hansen-Flaschen, R.J. Schwab, L. Elman, S.M. Kawut, Philadelphia, PA, p.A1761

P1403 Objective Effort of Breathing Scores in Critically Ill Children/J. Hotz, S. Shein, R.G. Khemani, Los Angeles, CA, p.A1762

P1404 The Natural History of Patients with Congenital Muscular Dystrophy at Children's National Health System: A Tertiary Medical Center Experience/H. Fanous, G.R. Nino, G. Perez, Washington, DC, p.A1763

P1405 Bone Health in Children with Respiratory Technology Dependence/A. Agarwal, M. Hutchison, C. Velasco, L. Willis, U. Chalawadi, K. El Taoum, J.L. Carroll, Little Rock, AR, p.A1764

P1406 Comparison of Longitudinal Changes in Expiratory Respiratory Function Endpoints and Inspiratory Flow Reserve (IFR) in Patients with Duchenne Muscular Dystrophy (DMD)/J. Karafilidis, H. Mayer, M. Leinonen, G. Buyse, Burlington, MA, p.A1765

P1407 The Nuss Procedure Under Non-Endotracheal Intubated Anesthesia Compared with Conventional Anesthetic Option: A Randomized Control Study/X. Du, G. Chen, J. Cui, L. Xie, X. Ben, J. Tang, D. Zhang, X. Ye, Z. Zhou, D. Tian, R. Shi, S. Mao, Y. Zheng, J. Ma, H. Zhou, Guiyang, China, p.A1766

P1408 Impact of Bulbar Dysfunction on the Measurement of Vital Capacity in Amyotrophic Lateral Sclerosis/S.A. Waheed, S. Gogineni, G.M. Pellegrino, G.F. Sferrazza Papa, D. Aleksonis, D. Kvarnberg, F. Di Marco, M.J. Tobin, F. Laghi, Hines, IL, p.A1767

P1409 Incidence and Clinical Features of Muscle Weakness in Patients Admitted to a Tertiary Medical Center/B. Akpa, S. Baveja, B.H. Reynolds, J. Ferris, A. Singh, J. Hecht, R. Dhand, Knoxville, TN, p.A1768

P1410 Airway Clearance Device Prescriptions for Patients with Amyotrophic Lateral Sclerosis (ALS) Vary Widely but Correlate with Lung Function, Overall Functional Status, and Bulbar Phenotype/E. Malsin, J.M. Coleman, L.F. Wolfe, Chicago, IL, p.A1769

P1411 Clinical Outcomes in Patients Who Develop Muscle Weakness During an Acute Hospital Stay/B. Akpa, S. Baveja, B.H. Reynolds, J. Ferris, A. Singh, J. Hecht, R. Dhand, Knoxville, TN, p.A1770

P1412 Short-Term Clinical Results of Vacuum Bell Therapy for Pectus Excavatum Comparing with Surgical Treatment: A Retrospective Reviews in a Single Center of Asia/E. Yi, J.H. Chung, S.H. Hwang, S.-Y. Ham, S. Lee, Seoul, Korea, Republic of, p.A1771

P1413 Plasma Vitamin D Level as a Risk Factor for Chest Illness in Chronic Spinal Cord Injury: A Longitudinal Study/K. Clark, J.E. Hart, R.L. Goldstein, M. Teylan, A.A. Lazzari, D.R. Gagnon, C.G. Tun, E. Garshick, Boston, MA, p.A1772

P1414 Respiratory Directed Gene Therapy Prolongs Survival In An Als Mouse Model/M.K. ElMallah, A. Keeler, M. Zieger, F. Borel, V. Semple, A. Veinbachs, R. Brown, C. Mueller, Durham, NC, p.A7665

THEMATIC POSTER SESSION

A48 DYSPNEA: CASE REPORTS I

9:15 a.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER

Area L (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: S. Sahetya, MD, Baltimore, MD
B.T. Tran, MD, MSc, Chicago, IL

P1417 Subcarinal Mass in a Patient with Inflammatory Arthropathy and Dyspnea/B. Forbes, U. Nazir, Kansas City, KS, p.A1773

P1418 Rare Case of Idiopathic Plastic Bronchitis in Adult/M.M. Rachid, P. Sharma, A. Kumar, M. Sunbuli, E. Mekhaieil, Oak Lawn, IL, p.A1774

P1419 Re-Expansion Pulmonary Edema Complicating Thoracentesis/ J.J. Dorsch, A. Sachdeva, Baltimore, MD, p.A1775

P1420 Rapid Progression of Pulmonary Alveolar Proteinosis After Whole-Lung Lavage/R. Hyde, J. Cope, H.A.M. Fakhri, M.A. Jantz, A. Ataya, Gainesville, FL, p.A1776

P1421 To Drain or Not to Drain/D.J. daCosta, D.W. Hsia, Torrance, CA, p.A1777

P1422 Sudden Onset Shortness of Breath and Chest Pain in a Pregnant Woman: A Rare Case of Pneumothorax/M. Hunter, T. Barreiro, Youngstown, OH, p.A1778

P1423 Primum Non Nocere: Bilateral Phrenic Nerve Injury Secondary to Chiropractor Manipulation/H.C. Li, J. Chung, M.C. Runnstrom, A. Ataya, Gainesville, FL, p.A1779

P1424 I Am Not Crazy; I Have Difficulty Breathing: The Story of a Laryngeal Tumor/J. Shah, Chattanooga, TN, p.A1780

Facilitator: P.B. Desai, MD, Philadelphia, PA

P1425 Pulmonary Extramedullary Hematopoiesis in a Patient with Polycythemia Vera/W.J. Chang, K. Friedman, R.J. Schilz, Cleveland, OH, p.A1781

P1426 Practically Living with One Lung: A Rare Adult Presentation of Congenital Pulmonary Airway Malformation/M.B. Abdelfattah, S. Hadique, Morgantown, WV, p.A1782

P1427 Closure of Atrial Septal Defect Causing Worsening Hypoxemia/D. Robinson, A.J. Hayek, F. Perez-Guerra, Temple, TX, p.A1783

P1428 A Unusual Case of Dyspnea: A Pancreaticopleural Fistula/S. Singh, M. Yakubov, M. Arya, Shreveport, LA, p.A1784

P1429 The Milky Way: First Reported Chylothorax as a Complication After Sleeve Gastrectomy/R. Bautista, L. Stockton, J. Lee, A. Silfvast-Kaiser, M. Curtis, Temple, TX, p.A1785

P1430 A Silent Culprit of Diffuse Alveolar Hemorrhage/E.L. Altschul, H.-I. Liao, B.A. Mina, New York, NY, p.A1786

P1431 Low Oxygen Affinity Hemoglobinopathy: A Rare Sixth Cause of Hypoxemia/K.R. Davidson, A. Gupta, T. Huie, Aurora, CO, p.A1787

P1432 Unusual Cause of Dyspnea/M. Al-Charakh, A. Chebbo, P.F. Quiroga, Phoenix, AZ, p.A1788

Facilitator: L. Torres, MD, New York, NY

P1433 Acute Epiglottitis Due to Group B Streptococcus in an Adult/V. Kaul, F.K. Suhail, M.E. Warshawsky, Elmhurst, NY, p.A1789

P1434 Progressive Chronic Hypoxemia After Chronic Constipation: A Case Report/I.A. Vital, M. Mirsaedi, M.A. Campos, Y. Perez, Miami, FL, p.A1790

P1435 A Case of Spontaneous Hemothorax in a Man with Neurofibromatosis Type 1/R. Sidhom, F.A. Youssef, M.A. Tanios, Orange, CA, p.A1791

P1436 Patient with Dyspnea and No Heart Sounds: Where Did the Heart Go?/P. Iyer, M.P. Muthiah, Memphis, TN, p.A1792

P1437 Chest Wall Mass: Use of Ultrasound to Evaluate and Diagnose Dyspnea/M. Korotun, A. Agrawal, P.H. Mayo, New Hyde Park, NY, p.A1793

P1438 A Case of Unilateral Pulmonary Artery Hypoplasia in an Adult Patient/F.M. Khateeb, Y. Abdel-Aziz, N.P. Kozodoy, F. Safi, Toledo, OH, p.A1794

P1439 Pneumomediastinum and Air Travel: A Case Report in a Patient with Gardner's Syndrome/A.E.H. Chehade, W. Mansour, G. Debal, A. Avula, M.N. Chalhoub, Staten Island, NY, p.A1795

Facilitator: J. Leung, MD, Vancouver, Canada

P1440 Unexplained Dyspnea in a Patient with Rheumatoid Arthritis/L. Khalid, G.E. Holt, Miami, FL, p.A1796

P1441 Rituximab as a Treatment for Fibrosing Mediastinitis Associated Pulmonary Vein Stenosis/A. Mittal, M. Wilson, T. Peikert, U. Specks, Rochester, MN, p.A1797

P1442 Sporadic Inclusion Body Myositis Presenting with Prominent Bilateral Diaphragmatic Weakness: A Case Report/M.-H. Lelievre, O. Stiennon, S. Botez, B.-P. Dube, Montreal, Canada, p.A1798

P1443 Kommerell's Diverticulum Causing Dysphagia Lusoria and Tracheal Compression/A. Gupta, K. Davidson, Aurora, CO, p.A1799

P1444 Pneumomediastinum After Mandibular Molar Extraction/J.M. Miller, N. Lapinel, G. Creek, S.P. Kantrow, New Orleans, LA, p.A1800

P1445 Bullous Lung Disease Mimicking Lung Abscess: A Case Report/A. Madanieh, C. Orabi, V.N. Becerra, J.M. Goyos, Orlando, FL, p.A1801

P1446 Secondary Pneumothorax in a Patient with Birt-Hogg-Dube Syndrome/A. Villanueva, J. Garland, Jacksonville, FL, p.A1802

THEMATIC POSTER SESSION

A49 CRITICAL CARE: LOOKING FOR CLUES - BIOMARKERS IN ARDS, SEPSIS, AND ACUTE CRITICAL ILLNESS

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area D (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: J.P. Reilly, MD, MSCE, Philadelphia, PA
C.M. Shaver, MD, PhD, Nashville, TN

P310 Circulating Mitochondrial DNA as a Predictor of Mortality in Critically Ill Patients: A Systematic Review/J.S. Harrington, J.-W. Huh, E.J. Schenck, K. Nakahira, I.I. Siempos, A.M.K. Choi, New York, NY, p.A1803

- P311 Erythrocyte Osmotic Fragility Alterations in Critical Illness/M.L. Malnoske, O. Wexler, G. Tsang, S. Mroczek, D. Oldfield, C. Dony, T. Bice, K. Falkner, M.J. Apostolakos, M. Gorgone, S. Rasul, A.P. Pietropaoli, Rochester, NY, p.A1804**
- P312 Increased Bronchoalveolar Lavage Fluid Peroxiredoxin 6 Levels in Acute Respiratory Distress Syndrome/D. Yang, C. Wang, J. Liu, C. Chen, Y. Song, Shanghai, China, p.A1805**
- P313 Soluble Intercellular Adhesion Molecule-1, Macrophage Migration Inhibitory Factor and Plasminogen Activator Inhibitor-1 as Predictors of Outcome in Acute Respiratory Distress Syndrome/E. Vrigkou, M. Alepaki, A. Tsantes, V. Tsagkari, K. Ntai, A. Pappas, D. Konstantonis, A. Armaganidis, I. Tsagkaris, Athens, Greece, p.A1806**
- P314 Platelet Turnover and Function Are Not Correlated with D-Dimer Levels in Septic Patients/P. Tejera-Alvarez, R. Zhang, E. Forde, L. Su, A. Frelinger, A. Michelson, D.C. Christiani, Boston, MA, p.A1807**
- P315 Pre-Existing Emphysema Affects Soluble Receptor for Advanced Glycation End-Product Levels in Acute Respiratory Distress Syndrome/M. Simonson, J. Evankovich, S. Rapport, G. Kitsios, B.J. McVerry, Pittsburgh, PA, p.A1808**
- P316 Rising Lysosomal Gene Expression During Sepsis Is Associated with Worse Patient Outcomes/T. Tolbert, C.R. Marion, N. Andrews, S.D. Bermejo, A.J. Losier, L. Sharma, M.A. Pisani, A.M. Ahasic, M.D. Slade, C. Dela Cruz, New York, NY, p.A1809**
- P317 Large Scale Serum Protein Biomarker Discovery in Pediatric Sepsis/A. Piliponsky, K. Navalkar, D. Sampson, T. Yager, S. Cermelli, T. Seldon, E. Sullivan, J. Zimmerman, L. Permut, N. Shubin, Seattle, WA, p.A1810**
- P318 The Predictive Effect of Multiple Biomarkers in Sepsis Patient in Intensive Care Unit/L. Jiang, Dalian, China, p.A1811**
- Facilitators:** K. Hibbert, MD, Boston, MA
S.J. Denstaedt, MD, Ann Arbor, MI
- P319 A Dose-Related Hypermetabolic Phenotype Following High and Low Dose Intravenous Endotoxin Challenges in Healthy Volunteers/S. Gairhe, P. Torabi-Parizi, B. Ingram, E.D. Karoly, J. Guptill, M. Cohen-Wolkowicz, R.J. Noveck, A.F. Suffredini, Bethesda, MD, p.A1812**
- P320 Proteomic, Metabolomic and Lipidomic Deficiencies in Human Sepsis Compared to Health - Preliminary Study/K. Roveran Genga, H. Kong, D. Wishart, C. Borchers, L. Brunham, P. Cullis, K.R. Walley, J.H. Boyd, J.A. Russell, Vancouver, Canada, p.A1813**
- P321 LPS-Stimulated Leukocytes from Whole Blood: A Novel Assay for Studying Mechanisms of Pulmonary Endothelial Injury in Sepsis and Critical Illness/A. Leligdowicz, A. Jauregui, K. Vessel, K. Liu, J.E. Gotts, C.S. Calfee, M.A. Matthay, San Francisco, CA, p.A1814**
- P322 Recombinant Human Soluble Thrombomodulin and Short-Term Mortality of Sepsis Patients with Disseminated Intravascular Coagulation: a Meta-Analysis/C. Zhang, Z.-H. Tong, Beijing, China, p.A1815**
- P323 Differences in Mitochondrial Function in Peripheral Blood Mononuclear Cells of Patients Admitted to an Intensive Care Unit/L. Torres, E. Finkelsztejn, E. Sanchez, S.M. Cloonan, A.M.K. Choi, New York, NY, p.A1816**
- P324 Associations Between Urine Soluble Fas and Soluble Fas Ligand Concentrations and Development of AKI in Sepsis/R. Berg, P. Bhatraju, S. Harju-Baker, C. Mikacenic, M.M. Wurfel, Seattle, WA, p.A1817**
- P325 Clinical Implication of Angiopoietin-Tie 2 Axis in ICU Patients at a Single-Center Retrospective Cohort Study/M. Sung, J. Chang, Y.S. Kim, M.S. Park, Y. Kang, J.Y. Jung, E.-Y. Kim, S.Y. Kim, J.-H. Song, A.Y. Leem, K.S. Chung, Seoul, Korea, Republic of, p.A1818**
- P326 Hyperammonemia a Marker for Sepsis: A Single Arm Clinical Trial/Y. Jawaid, Y.R. Shweihat, H. Hirzallah, K. Damir, O. Aqtash, M.A. Megri, H. Mezughi, A. Amro, M. Emmon, R. Yonus, A. Najim, G. Todd, H. Visweshwar, H. Awadeh, R. Carroll, M. Kanaan, Y. Numan, Huntington, WV, p.A1819**
- P327 Genetic Variants Affecting Dopamine Signaling and Cognitive Impairment After Mechanical Ventilation/L. Amado-Rodríguez, I. López-Alonso, J. Blazquez-Prieto, A. Gonzalez-Lopez, C. Huidobro, F. Ding, G. Tang, P. Pandharipande, E.W. Ely, G.M. Albaiceta, T.D. Girard, Oviedo, Spain, p.A7666**

THEMATIC POSTER SESSION

A50 CRITICAL CARE: YOU GOT TO MOVE IT, MOVE IT - SEDATION AND MOBILIZATION IN THE ICU

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area D (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion

12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: P.E. Morris, MD, Lexington, KY
R. Bakhru, MD, Winston-Salem, NC

P329 Sedation Protocol for Intubated Patients in a Medical Intensive Care Unit/K. Hanlon, J. Onyeneke, M. Peters, T. Smoot, S. Schuld, J. Swiderek, B. DiGiovine, J. Jennings, Detroit, MI, p.A1820

P330 Introduction of Sedation Protocol for Intubated Patients in a Medical Intensive Care Unit/J.C. Onyeneke, K. Hanlon, M. Peters, C.A. Smoot, J.H. Jennings, J.L. Swiderek, B. DiGiovine, Detroit, MI, p.A1821

P331 Respiratory Rate Variability in Mechanically Ventilated Patients Is Associated with Sedative Use and Consciousness Levels/G. Al-Helou, C. Copeland, A. Jose, A.W. McLean, A. Alwassia, J.E. Ahari, J.D. Williams, G. Gutierrez, Washington, DC, p.A1822

P332 Modafinil for Somnolence in the Intensive Care Unit. A Retrospective Case Series/O. Mitchell, M. Sloane, D. Altschuler, D. Kaufman, New York, NY, p.A1823

- P333** **Pilot Study to Evaluate the Effects of Sound Modulation on Sympathetic Arousals in Critically Ill Patients/A.** George Jacob, B.K. Gehlbach, Iowa City, IA, p.A1824
- P334** **Effects of Music on Delirium, and Inflammatory Biomarkers in Mechanically Ventilated and Post-Operative Patients: A Systematic Review of the Literature/S.H.** Khan, M. Kitsis, T. Emmett, S. Wang, D. Allen, D. Golovyan, B.A. Khan, Indianapolis, IN, p.A1825
- P335** **Effect of Dexmedetomidine on Mortality and Length of ICU Stay in Patients with Sepsis Requiring Mechanical Ventilation: A Systematic Review and Meta-Analysis of Randomized Clinical Trials/M.** Osman, A. Abdalla, B. Kheiri, T. Haykal, K. Osman, E. SeedAhmed, G. Bachuwa, Grandblanc, MI, p.A1826
- P336** **Severe Pneumococcal Pneumonia Causes Cardiac and Skeletal Muscle Injuries in Baboons/L.** Chen, B.D. Kraft, V.L. Roggli, H.B. Suliman, C.A. Piantadosi, K.E. Welty-Wolf, Durham, NC, p.A1827
- Facilitator:** E. Wilcox, MD, MPH, Toronto, Canada
- P337** **The Effect of Neuromuscular Electrical Stimulation on Selected Muscle Groups During Acute Muscle Wasting in Critically Ill Patients Receiving Mechanical Ventilation/S.R.** Wappel, W. Bhatti, J. Okereke, A. Aravagiri, O. Ali, C.L. Wells, D. Davis, G. Alon, E. Parker, A.C. Verceles, Baltimore, MD, p.A1828
- P338** **Acute Lung Injury Induces Differential Effects on Respiratory and Limb Muscle Function/L.A.P.** Callahan, E.A. Schroder, L. Wang, G.S. Supinski, Lexington, KY, p.A1829
- P339** **Modified Diaphragmatic Breathing: An Alternative to Improve Diaphragmatic Mobility and Respiratory Function in Critically Ill Patients/C.G.** Mol, M.K.A. Aquino, R.B.D. Reis, C.C. Oliveira, B.M.N.D. Lucena, L.M.S. Malbouisson, C. Tanaka, Sao Paulo, Brazil, p.A1830
- P340** **Safety of Respiratory Physiotherapy in Mechanically Ventilated Patients After Cardiac Surgery/M.L.D.A.** Sousa, C.C.D.A. Melo, M.T. Takei, V.R.D.M. Coimbra, F.R.B.G. Galas, L.A. Hajjar, M.I.Z. Feltrim, E. Nozawa, Sao Paulo, Brazil, p.A1831
- P341** **A Multimodal Approach Using Testosterone Repletion Accelerates Recovery Following Cardiac Surgery/K.R.** Dholakia, N. Zerilli, E. Mihelis, L. Pirelli, J.M. Hemli, B. Patton, C. Kliger, R. Lazzaro, D. Brinster, N.C. Patel, S.J. Scheinerman, Livingston, NJ, p.A1832
- P342** **Impact of Rehabilitation on Functional Activity and Rectus Femoris Characteristics in Patients Requiring Prolonged Mechanical Ventilation/R.** Mehta, F. Laghi, L.A. Duffner, C. Burdinie, D.S. Platou, R. Arena, T.E. Weaver, M.J. Tobin, A. Jubran, Hines, IL, p.A1833
- P343** **The Use of Actigraphy to Evaluate Physical Activity in the Intensive Care Unit: A Systematic Review/J.** Chang, K. Schwab, A. To, B. Ronish, M. Ong, C. Alessi, D.M. Needham, J.L. Martin, B.B. Kamdar, Los Angeles, CA, p.A1834

THEMATIC POSTER SESSION

A51 CRITICAL CARE: SHE BLINDED ME WITH SCIENCE - INSIGHTS FROM EXPERIMENTAL AND ANIMAL STUDIES IN ARDS AND SEPSIS

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area D (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.**Discussion:** 11:15-12:00: authors will be present for individual discussion

12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: J. Bringue, MSPH, Sabadell, Spain
R.M. Baron, MD, Boston, MA

- P345** **Activation of Secretory A2 Phospholipase Isotypes and Surfactant Injury in Murine ARDS/R.D.** Hite, M.V. Novotny, J. Lee, C.C. Smallcombe, C. Furdui, M.C. Seeds, Cleveland, OH, p.A1835
- P346** **TRPV4 Specific Inhibition Ameliorates Fluid-Induced Lung Injury/S.** Bihari, T. Bouchier, M.H. Costell, D.J. Behm, D.L. Sprecher, S. Puukila, E.C. Cavallaro, A.D. Bersten, D.-L. Dixon, Bedford Park, Australia, p.A1836
- P347** **The Inflammatory Response to Red Blood Cell Constituents in the Lung: A Role for Platelets/S.** Arnold, S.A. Shah, R.T. Amison, S.J. Cleary, S.C. Pitchford, C.P. Page, London, United Kingdom, p.A1837
- P348** **Haptoglobin Genotype Modifies Risk of Lung Injury and Mortality in Murine Polymicrobial Sepsis/J.A.** Bastarache, C.M. Shaver, N.D. Putz, S.R. Landstreet, B. McNeil, N. Wickersham, L.B. Ware, Nashville, TN, p.A1838
- P349** **Cardiac Overexpression of Melusine Protects from Lipopolysaccharide-Induced Sepsis Cardiomyopathy/P.** Arina, A. Costamagna, L. Brazzi, V.M. Ranieri, V. Fanelli, M. Brancaccio, Torino, Italy, p.A1839
- P350** **Neutrophil Elastase Injured Endothelial Glycocalyx Structure in Sepsis Induced Lung Injury/K.** Suzuki, H. Okada, G. Takemura, C. Takada, H. Yano, R. Zaikokuji, I. Muraki, T. Doi, Y. Kakino, T. Yoshida, S. Yoshida, H. Ushikoshi, S. Ogura, Gifu, Japan, p.A1840
- P351** **Cell Therapy Using Genetically Modified Mesenchymal Stem Cell in a Murine Model of Sepsis/J.** Bringue, Sabadell, Spain, p.A1841
- P352** **Recombinant Antithrombin Therapy Improved Sepsis Induced Lung Injury Via Inhibition of Endothelial Disorder/R.** Zaikokuji, H. Okada, K. Suzuki, C. Takada, H. Yano, I. Muraki, Y. Kakino, H. Okamoto, T. Doi, S. Yoshida, H. Ushikoshi, G. Takemura, S. Ogura, Gifu, Japan, p.A1842
- P353** **Ultrastructural Alteration of Pulmonary Capillary Endothelial Glycocalyx During Endotoxemia/R.** Zaikokuji, H. Okada, G. Takemura, K. Suzuki, R. Inagawa, C. Takada, H. Yano, I. Muraki, Y. Kakino, T. Yoshida, S. Yoshida, H. Ushikoshi, S. Ogura, Gifu, Japan, p.A1843

- P354 Recombinant Thrombomodulin Attenuates Sepsis-Induced Pulmonary Injury Via Protection of Endothelial Glycocalyx Structure/H.** Yano, H. Okada, G. Takemura, K. Suzuki, C. Takada, R. Zaikokuji, I. Muraki, Y. Kakino, H. Okamoto, T. Doi, S. Yoshida, H. Ushikoshi, S. Ogura, Gifu, Japan, p.A1844
- Facilitators:** J.C. Gardner, PhD, Cincinnati, OH
J.A. Bastarache, MD, Nashville, TN
- P355 Ventilatory Pattern Variability Decreases and Brainstem Interleukin-1 β (IL-1 β) Increases During Sepsis/N.** Solanki, R. Santiago, D. Nethery, T.E. Dick, F. Jacono, Cleveland, OH, p.A1845
- P356 Trans-Pulmonary Thermodilution Technique for Assessment of Fluid Response in Septic Porcine Model During Low Tidal Volume Ventilation/H.** Aiash, K. Wilcox, E. Merrell, J. Satalin, S. Baker, L. Gatto, G. Nieman, D. Dean, Syracuse, NY, p.A1846
- P357 Hyaluronan Shedding and Clearance During Experimental Sepsis and Acute Lung Injury/C.** Prohaska, V. Tseng, A. Allawzi, S. Haeger, K.C. Ni, R.J. Linhardt, I. Petrache, E.P. Schmidt, E.N. Grayck, Aurora, CO, p.A1847
- P358 Depletion of Components of the Hepatic Malate-Aspartate Shuttle May Limit Energy Utilization in Pseudomonas Aeruginosa Septic Shock in Dogs/S.N.** Mink, K. Kasian, Z.-Q. Cheng, Winnipeg, Canada, p.A1848
- P359 B. Anthracis Edema Toxin Inhibition of Phenylephrine Stimulated Aortic Ring Contraction Is Mediated Via Both Protein Kinase A (PKA) and Exchange Protein Directly Activated by cAMP (Epac) Pathways/Y.** Li, X. Cui, Y. Fitz, P.Q. Eichacker, Bethesda, MD, p.A1849
- P360 Anthrax Lethal Toxin but Not Edema Toxin Increases Pulmonary Vascular Permeability in an Isolated Perfused Rat Lung Model/X.** Cui, W. Xu, B. Pockros, D.A. Suffredini, Y. Fitz, M. Moayeri, S. Leppla, P.Q. Eichacker, Bethesda, MD, p.A1850
- P361 Loss of Cystic Fibrosis Transmembrane Conductance Regulator (CFTR) Drives Lung Endothelial Barrier Failure in Pneumonia-Induced Acute Respiratory Distress Syndrome (ARDS)/L.** Erfinanda, B. Schneider, B. Gutbier, L. Zou, K. Reppe, J. Lienau, A.C. Hocke, W. Liedtke, M. Witzenrath, W.M. Kuebler, Berlin, Germany, p.A1851
- P362 Comparison of Nebulized Plasminogen Activators for Management of Inhalational Smoke Induced Acute Lung Injury (ISALI) in Sheep: Impact on Physiological Profile/S.** Fukuda, P. Enkhbaatar, C.L. Nelson, S. Hengsawas, R.O. Williams, III, A.A. Komissarov, G. Florova, K.P. Singh, T.H. Shaffer, M.R. Wolfson, S. Idell, Galveston, TX, p.A1852
- P363 Cell Therapies for the Treatment of Acute Lung Injury in an Experimental Model/M.** Camprubí-Rimblas, R. Guillamat-Prats, N. Tantinyà, J. Bringue, M. Gómez, L. Blanch, A. Artigas, Sabadell, Spain, p.A1853
- P364 Mesenchymal Stromal/Stem Cells Enhance Macrophage Phagocytosis and Clearance in Preclinical Sepsis Models Via Enhanced Macrophage Hemoxygenase-1 Expression/M.** Jerkic, S. Gagnon, L. Ormesher, S. Goyal, R. Rabani, G.F. Curley, J.G. Laffey, Toronto, Canada, p.A1854
- Facilitators:** T. Dolinay, MD, PhD, Burbank, CA
A. Fox-Robichaud, MSc, MD, Hamilton, Canada
- P365 Endothelial Group V Phospholipase A2 (gVPLA2) Mediates Acute Lung Injury Caused by Methicillin-Resistant Staphylococcus Aureus (MRSA) in Mice/H.** Wang, L. Meliton, Y. Epshtein, J. Chen, L. Wang, E. Letsiou, S. Dudek, Chicago, IL, p.A1855
- P366 Optical Assessment of Pulmonary Vascular Leak Using a Model of Ex Vivo Lung Perfusion/A.** Marshall, T.R. Choudhary, N. Krstajic, M.G. Tanner, H. Parker, M. Bradley, K. Dhaliwal, Edinburgh, United Kingdom, p.A1856
- P367 Blood Carboxyhemoglobin Elimination Curve, Half-Life Time and Arteriovenous Differences in Acute Phase of Smoke Inhalation Injury in Ovine Model/S.** Fukuda, C. Ouellette, Y. Niimi, C.R. Andersen, J.D. Rojas, D.N. Herndon, D.S. Prough, P. Enkhbaatar, Galveston, TX, p.A1857
- P368 Ex Vivo Repletion of Phosphatidylglycerol and Restoration of Surfactant Function in ARDS/C.** Autilio, E. Mercedes, C.C. Smallcombe, M.V. Novotny, M.C. Seeds, J. Perez-gil, R.D. Hite, Madrid, Spain, p.A1858
- P369 Increased Staining for Renin/Prorenin in the Lungs in a Rat Model of Fat Embolism Is Enhanced by Captopril and Losartan Which Ameliorate the Pulmonary Damage/S.** Hamidpour, A. Poisner, A. Molteni, E. Al-Husseinawi, J. Colson, H. Zamir, A. Hasnie, A. Monaghan, A.M. Pour, Kansas City, MO, p.A1859
- P370 Quantitative Tracking of Mesenchymal Stem Cells Using Fluorescent Nanodiamond in the Murine Model of Bleomycin-Induced Acute Lung Injury/Y.H.** Hsiao, W.-C. Chen, C.-M. Tseng, O.K.-S. Lee, H.-C. Chang, D.-W. Perng, Taipei, Taiwan, p.A1860
- P371 Time Course for Development and Resolution of Fluid Induced Lung Injury in an Animal Model Following 0.9% Saline Bolus Administration/S.** Bihari, D. DeBellis, D.-L. Dixon, M.D. Lawrence, A.D. Bersten, Bedford Park, Australia, p.A1861
- P372 Imaging Pulmonary Metabolism and Inflammation During Mechanical Ventilation Using Hyperpolarized Carbon-13/M.** Pourfathi, S. Chatterjee, M. Cereda, Y. Xin, S. Kadlecsek, H. Hamedani, I. Duncan, S. Siddiqui, H. Profka, K. Ruppert, L. Loza, F. Amzajerdian, R. Baron, M. Spencer, T. Achekzai, R.R. Rizi, Philadelphia, PA, p.A1862
- P373 Regional Distribution of Metabolic Activity During Progression of Acute Lung Injury: A Hyperpolarized Carbon-13 Study/ M.** Pourfathi, M. Cereda, S. Chatterjee, Y. Xin, S. Kadlecsek, H. Hamedani, I. Duncan, S. Siddiqui, H. Profka, K. Ruppert, L. Loza, F. Amzajerdian, R. Baron, M. Spencer, T. Achekzai, R.R. Rizi, Philadelphia, PA, p.A1863
- P374 Effects of Ursolic Acid on Acute Lung Injury Induced Diaphragm Dysfunction Effects of Ursolic Acid on Acute Lung Injury Induced Diaphragm Dysfunction/L.A.P.** Callahan, E.A. Schroder, L. Wang, G.S. Supinski, Lexington, KY, p.A1864
- P375 Variable Phase Relationship Between PaO₂ Variation and Mechanical Ventilation Settings in Experimental Lung Injury/R.** Chen, F. Formenti, H. McPeak, P. Murison, C. Hahn, A. Farmery, Oxford, United Kingdom, p.A1865
- P376 Reanalyzing 23 Preclinical Studies for Fibrinolytic Therapy of Acute Lung Injury/C.** Liu, Z. Su, Y. Ma, M. Zhang, X. Li, R. Zhao, M. Matthay, H. Ji, Xinxiang, China, p.A1866

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

THEMATIC POSTER SESSION

**A52 CRITICAL CARE: BEYOND THE LUNGS -
NON-PULMONARY CRITICAL CARE**

9:15 a.m. - 4:15 p.m. **SAN DIEGO CONVENTION CENTER**
Area D (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: B. Rochweg, MD, MSCE, Hamilton, Canada
A.M. Ahasic, MD, MPH, Norwalk, CT

- P378 Neurologic Presentations in an Ethiopian Medical Intensive Care Unit: Clinical Trajectories and Implications for Triage and Management/D.A. Haisch, A. Worku, M. Parekh, A. Sultan, L. Selassie, A. Shumet, K. G/Selassie, A. Bekele Binegdie, D. Kebede Huluka, T. Haile, M.R. O'Donnell, C.B. Sherman, N.W. Schluger, New York, NY, p.A1867**
- P379 Institutional Incidence of tPA-Induced Angioedema in Ischemic Cerebral Vascular Accidents/M. Szczepanski, P.D. Bozyk, Royal Oak, MI, p.A1868**
- P380 Implications of Delayed Result of Herpes Simplex Virus Real-Time Polymerase Chain Reaction (PCR) Testing in Suspected Meningoencephalitis Cases and Possible Solution/K. Patel, S. Goodnow, O. Ashraf, L. Finoli, T.J. Cheema, Pittsburgh, PA, p.A1869**
- P381 The Physiological Determinants of Cerebral Oxygenation During the First 24 Hours of Critical Illness/M.D. Wood, J.A. Jacobson, D. Maslove, J. Muscedere, J.G. Boyd, Kingston, Canada, p.A1870**
- P382 Red Blood Cell Transfusion and Clinical Outcomes in Critically Ill Patients with Acute Brain Injury: A Single-Center Observational Cohort Study/R. Moman, A. Chandran, A. Hanson, D. Schroeder, D. Kor, M.A. Warner, Rochester, MN, p.A1871**
- P383 The Effect of Socioeconomic Variables on Massive Transfusion Outcomes on Non-Trauma Patients/P. Galiatsatos, N. Farooq, J. Aulakh, K. Haapanen, M.C. Grant, A. Martinez, Baltimore, MD, p.A1872**
- P384 Intensive Care Unit ICU Readmission in Patients with Cancer/F. Hawari, L. Nazer, A. AbuSara, Amman, Jordan, p.A1873**
- P385 The Prognosis of Patients Admitted to the Intensive Care Unit with Hepatitis C Infection as a Comorbidity/S. Pasha, A. Kelly, E. Cassity, P.E. Morris, Lexington, KY, p.A1874**
- P386 Outcomes of Septic Patients Requiring New Onset Renal Replacement Therapy - A Single Center Retrospective Analysis/J.R. Woytanowski, C. Rincon-Prieto, M. Stephen, Philadelphia, PA, p.A1875**
- P387 Outcomes of Critically Ill Elderly Patients in Alcohol Withdrawal/A.M. Abdul Hameed, A. Mohammed, A. Maheshwari, A. Malik, B.E. Iriarte, N. Ghionni, D. Valentino III, Darby, PA, p.A1876**

Facilitators: L.K. Vande Vusse, MD, Seattle, WA
H. Bhardwaj, MD, Oklahoma City, OK

- P388 Gender Correlation of Patients on CIWA Protocol/A. Malik, A.M. Abdul Hameed, N. Ghionni, B.E. Iriarte, A. Maheshwari, A. Mohammed, K. Magsi, D.J. Valentino, Darby, PA, p.A1877**
- P389 Dexmedetomidine Utilization for Alcohol Withdrawal in a Community Hospital ICU/I. Butler, J. Curtis, R. Haskell, San Diego, CA, p.A1878**
- P390 "HIT or Miss": Approaching Heparin Induced Thrombocytopenia (HIT) in an Academic Hospital System/I. Kourouni, S. Peeke, M. Varma, I. Shapira, J.M. Shapiro, New York, NY, p.A1879**
- P391 Descriptive Analysis of Clinical and Laboratory Scores for Hit in Critical Care Settings/M. Hamarshi, P. Grover, Z. Ali, M. Ramakrishnanm, L. Yaqoub, Kansas City, MO, p.A1880**
- P392 Performance of IgG Specific Anti-PF4/Heparin in HIT Diagnosis in Critical Care Settings/M. Hamarshi, M. Ramakrishnanm, P. Grover, Z. Ali, L. Yaqoub, Kansas City, MO, p.A1881**
- P393 Kappa Analysis of 4Ts Scoring of Heparin Induced Thrombocytopenia/H. Bal, T. Gallo, A. Padilla-Jones, R. Gerkin, R.A. Raschke, Phoenix, AZ, p.A1882**
- P394 Sickle Cell Disease Patients Admitted to the Intensive Care Unit - A Retrospective Analysis at 2 Tertiary Care Centers/A. Agrawal, J.A. Derfel, J.L. Simonson, S.Y. Chung, S.J. Koenig, G.Z. Zaidi, New Hyde Park, NY, p.A1883**
- P395 Single Center Experience with Hypertriglyceridemia Induced Pancreatitis/N. Mesiha, O. Adams, N. Jafar, M. Hassanein, M. Gugnani, S. Tiekou, D. Goldsmith, Trenton, NJ, p.A1884**
- P396 Do Lactated Ringers and Early Insulin Bolus Change the Clinical Course of Diabetic Ketoacidosis? A Single Center, Retrospective Review/L.M. Gabe, N. Coffman, J.M. Mosier, C. Bime, Tucson, AZ, p.A1885**
- P397 Advanced Glycation End Product and Glycosaminoglycans Levels in Patients with Diabetic Ketoacidosis/H. Edriss, K. Selvan, R. Gavidia, A. Molehin, K. Nugent, Lubbock, TX, p.A1886**
- P398 Patterns of Inpatient, Intensive Care, and Post-Discharge Opioid Prescribing to Opioid-Naïve Patients in a Large Health System/J. Kennedy, C.W. Seymour, C.-C.H. Chang, T.D. Girard, C. Kim, J. Lo-Ciganic, O.C. Marroquin, D.C. Angus, J.M. Donohue, Pittsburgh, PA, p.A7667**

THEMATIC POSTER SESSION

A53 ASTHMA EPIDEMIOLOGY

9:15 a.m. - 4:15 p.m. **SAN DIEGO CONVENTION CENTER**
Area J (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: C.A. Redlich, MD, MPH, New Haven, CT

- P1085 Characterization of Pediatric, Adolescent and Adult Asthma Patients by GINA Step and Blood Eosinophil Level in a Large US Longitudinal Cohort/J. Marvel, W.W. Busse, J. Fang, H. Tian, P.R. Altman, H. Cao, East Hanover, NJ, p.A1887**
- P1086 Effect of Tobacco Exposure on Inhaled Corticosteroid Response in Minority Children with Asthma/L.-A. Samedy, S. Oh, A. Davis, D. Serebrisky, E. Brigino-Buenaventura, F. Lurmann, J. Ford, J.R. Rodriguez-Santana, K. Meade, L.N. Borrell, M.A. LeNoir, P.C. Avila, R. Kumar, R. Chapela, S. Sen, W. Rodriguez, S. Thyne, M. Siebold, K. Williams, E.G. Burchard, San Francisco, CA, p.A1888**
- P1087 Epidemiology of Asthma by GINA Step in a US Commercially Insured Population/H. Cao, W.W. Busse, J. Fang, J. Marvel, H. Tian, P.R. Altman, East Hanover, NJ, p.A1889**
- P1088 Comparisons of Healthcare Utilization with Different Methods to Define Eosinophil Elevation in the US Asthma Population/Z. Dotiwala, J. Casciano, K. Fox, G. Gopalan, L. Lamerato, C. Li, S. Rastogi, S.K. Mathur, White Plains, NY, p.A1890**
- P1089 Characterization of Patients with Severe Asthma in Latin America/V. Di Boscio, H. Neffen, F.M. dos Santos, K. Viana, G. Levy, C. Vieira, G. Abreu, C. Soares, San Fernando, Argentina, p.A1891**
- P1090 Obstructive Lung Diseases in Australian Adults: A Latent Class Analysis/E. Guevara-Ratray, F. Garden, H.K. Reddel, A.L. James, B. Toelle, G.B. Marks, Liverpool, Australia, p.A1892**
- P1091 Predictive Factors of Asthma Control in the Middle East and North Africa/B. Khassawneh, N.H. Behbehani, H.H. Al-Jahdali, A.H. Al Qaseer, A. Gjurovic, H. Haouichat, B.H. Mahboub, E. Malvoti, R. Naghshin, F. Montestruc, M. Tabbal, H.N. Tarraf, Irbid, Jordan, p.A1893**
- P1092 Allergen Sensitization and Asthma Outcomes Among World Trade Center Rescue and Recovery Workers/B. Rojano, E. West, E. Goodman, S. Markowitz, D.J. Harrison, L.E. Crowley, P.J. Busse, J.P. Wisnivesky, New York, NY, p.A1894**
- P1093 Predictors of a Good Response to ICS Therapy in Obesity-Associated Asthma/F. Schleich, S. Peerboom, S. Graff, L. Seidel, V. Paulus, M. Henket, C. Moermans, R. Louis, Liège, Belgium, p.A1895**
- P1094 A Comparison of Eosinophilic Asthma Patients in Brazil and Europe/A.A. Cruz, A.T. Bansal, E. Ponte, A. Souza-Machado, P.C.A. Almeida, V. Biao, S. Bates, D. Myles, K.F. Chung, P.J. Sterk, J.H. Riley, Salvador, Brazil, p.A1896**

Facilitator: S. Guerra, MD, PhD, Tucson, AZ

- P1095 Lifetime History of Suicide Attempts and Current Asthma Among Puerto Rican Adults/E. Forno, Y.Y. Han, G.J. Canino, J.C. Celedon, Pittsburgh, PA, p.A1897**
- P1096 Quality of Life in Asthma Patients from the Middle East and North Africa/B. Khassawneh, N.H. Behbehani, H.H. Al-Jahdali, A.H. Al Qaseer, A. Gjurovic, H. Haouichat, B.H. Mahboub, E. Malvoti, R. Naghshin, S. Mackenzie, M. Tabbal, H.N. Tarraf, Irbid, Jordan, p.A1898**

- P1097 Prevalence of Asthma Among School Children in Lagos, Nigeria/O.O. Akinola, C.I. Esezobor, J.K. Renner, A.O. Akinsulie, M.A. Akinola, Idi Araba, Lagos, Nigeria, p.A1899**
- P1098 Phenotype Classification Based on Risk Factors for Asthma Exacerbation Factors in Japanese Patients with Severe Asthma/M. Kuwae, K. Fukunaga, T. Kamatani, R. Watanabe, S. Okuzumi, R. Baba, T. Tanosaki, M. Matsuzaka, T. Mochimaru, S. Ueda, Y. Suzuki, K. Asano, T. Betsuyaku, Tokyo, Japan, p.A1900**
- P1099 Respiratory Infections in Asthmatic Children in Algeria: Preliminary Data/B. Bouazza, M. Messad, S. Sadi, Tizi-Ouzou, Algeria, p.A1901**
- P1100 Female Sex Steroid Hormones, Menopause and Risk of Asthma: Based on Korea National Health and Nutrition Examination Survey/W.J. Jung, S.Y. Lee, S.I. Choi, B.-K. Kim, E.J. Lee, K.H. In, Seoul, Korea, Republic of, p.A1902**
- P1101 Demographic, Clinical Characteristics and Control Status of Pediatric, Adolescent and Adult Asthma Patients by GINA Step in a US Longitudinal Cohort/J. Fang, W.W. Busse, J. Marvel, H. Tian, P.R. Altman, H. Cao, East Hanover, NJ, p.A1903**
- P1102 A Global Perspective on Socioeconomic Factors Influencing Asthma-Related Mortality/P. Mondal, A. Sinharoy, Hershey, PA, p.A1904**
- P1103 Severe Asthma in Adult Algerian Patients: Prevalence and Risk Factors/B. Bouazza, S. Babou, K. Langadi, Tizi-Ouzou, Algeria, p.A1905**

Facilitator: C.D. Ramsey, MD, Winnipeg, Canada

- P1104 Trends in the Incidence of Asthma in Adults: A Korean Population Based Study/M.-S. Yang, J.-Y. Shin, K.-H. Sohn, J.Y. Lee, Seoul, Korea, Republic of, p.A1906**
- P1105 Baseline Characteristics of Adults with Mild-to-Moderate Asthma in Two Control Cohorts in Contrasting Geographical Locations: ProAR (Brazil) and U-BIOPRED (Europe)/M. Davis, A.T. Bansal, E.V. Ponte, A. Souza-Machado, P.C.A. Almeida, V.B. Lima, J.H. Riley, S. Bates, K.F. Chung, P.J. Sterk, A.A. Cruz, Stevenage, United Kingdom, p.A1907**
- P1106 Lower Airway Immune Response to Di-Butyl Phthalate (DBP) and Allergen Co-Exposure/D. Maestre-Battle, R.D. Huff, D. Wooding, A.K. Bolling, C. Carlsten, Vancouver, Canada, p.A1908**
- P1107 Longitudinal Analysis of the Occupational Health and Wellness of Alberta's Unionized Insulators/S. Kamravaei, K. Idrissi Machichi, M.T. Naseem, F. Khadour, J. Spring, L. Henderson, M. Dueck, L. Pei, B. Quemerai, P. Lacy, L. Melenka, Edmonton, Canada, p.A1909**
- P1108 Analysis of the Mechanisms of Exercise-Induced Bronchoconstriction Using Mouse Model/T. Koya, H. Ueno, T. Hasegawa, K. Yoshizawa, T. Sakagami, M. Hayashi, T. Kikuchi, Niigata, Japan, p.A1910**
- P1109 Tropical Pulmonary Eosinophilia - Lessons Learned from 180 Patients at Tertiary Care Teaching Hospital/A. Khan, A. Nath, Z. Hashim, V. Agarwal, V. Agarwal, Lucknow, India, p.A1911**

- P1110 Day-Night Personal Particulate Matter Exposure and Association with Increased Fractional Exhaled Nitric Oxide in Denver Asthma Panel Study/K.L. Hamlington, A.M. Schiltz, K.L. Freeman, C.M. Dutmer, S.-H.H. Cho, R.T. Chartier, J.W. Thornburg, J.L. Crooks, T.E. Fingerlin, D.A. Schwartz, A.H. Liu, Aurora, CO, p.A1912**
- P1111 Asthma Is Associated with Benign Glandular Neoplasms in a Large-Scale Population-Based Cohort/A. Shojaei, J.L. Gomez, N. Kaminski, J.M. Siner, X. Wang, A. Aani, S. Takyar, H. Zhao, G.L. Chupp, New Haven, CT, p.A1913**
- P1112 Blood Eosinophil Count in Adults with Frequent Asthma Exacerbations and Intensive Care Treatment in a Large Managed Care Organization/R.S. Zeiger, M. Schatz, W. Chen, Q. Li, D.B. Khatri, T.N. Tran, San Diego and Pasadena, CA, p.A1914**

THEMATIC POSTER SESSION

A54 INDOOR AND OUTDOOR AIR POLLUTION

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area A (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: C. Carlsten, MD, MPH, Vancouver, Canada

- P1 Effect of Black Carbon on Blood Pressure: Modification by Obesity and Smoking Status in a Repeated Measures Study/E.S. Baja, G.V. Dalmacion, A.D. Ligsay, Manila, Philippines, p.A1915**
- P2 Time-Lag Pulmonary Histological Effects After Two-Week Exposure of California and China Fine Particulate Matter/S. Velasquez, C.B. Fulgar, S. Mack, T. Mar, X. Sun, W. Li, H. Wei, K.E. Pinkerton, Davis, CA, p.A1916**
- P3 Time Lag Histological Changes Following Acute Exposure to China and California Fine Particulate Matter (PM_{2.5})/C. Fulgar, X.L. Sun, W. Li, H.Y. Wei, D.E. Young, Q. Zhang, X.S. Luo, L.L. Cui, K.J. Bein, K.E. Pinkerton, Davis, CA, p.A1917**
- P4 Domestic and Non-Occupational Exposures in Developing Countries: A Case of Desert Lung Syndrome/L. Samy, R. Fraser, D. Nguyen, Montreal, Canada, p.A1918**
- P5 Health Effects of Airborne Particulate Matter Near the Salton Sea: A Community-Based Exploratory Project in the Imperial Valley, CA/S.M. Mack, K. Bein, T. Andrews, K.E. Pinkerton, Davis, CA, p.A1919**
- P6 Incidences of Pulmonary Tuberculosis and Meteorological Changes in China from 1997 to 2015/J. Feng, H. Li, X. Li, L. Luo, S. Deng, Changsha, China, p.A1920**
- P7 Lung Function Decline in Korean: A Community-Based Cohort Study/M. Sung, A.Y. Leem, B. Park, S. Won, J.Y. Jung, Y.S. Kim, Seoul, Korea, Republic of, p.A1921**

- P8 Cardiovascular and Metabolic Correlates of Abnormal Spirometry (PneumoLaus Study)/A. Lenoir, P.M. Marques-Vidal, P. Vollenweider, J.-W. Fitting, L.P. Nicod, Lausanne, Switzerland, p.A1922**
- P9 Positive Association Between Moderately High Altitude and Chronic Lower Respiratory Disease Mortality in United States Counties/J. Hwang, M. Jang, Y.-M. Oh, S. Choi, N. Kim, Seoul, Korea, Republic of, p.A1923**
- P10 Ambient Air Pollution and Health in Sub-Saharan Africa: A Systematic Map of the Evidence /C.P.D.M. Katoto, N.L. Byamungu, A. Brand, J. Mokaya, T. Nawrot, B. Nemery, Leuven (Belgium) and Bukavu (Congo), Congo, Democratic Republic of the, p.A1924**
- P11 Personal Exposure to Carbon Monoxide in Rural Uganda: Predictors of Higher Exposure, Associations with Respiratory Symptoms, and Comparisons to World Health Organization Standards/C. North, P. MacNaughton, J. Vallarino, R. Sentongo, B. Kakuhikire, A. Tsai, O. Samson, M. Siedner, J. Allen, D.C. Christiani, Boston, MA, p.A1925**

Facilitator: N. Camina, MSc, London, United Kingdom

- P12 Exploring Environmental Literacy in Community: Preferences for Data Display and Messaging of Air Quality Data/L.C. Cicuttio, M. McCullough, K. Crews, S.-H. Cho, Denver, CO, p.A1926**
- P13 Seasonal Differences in the Relationship of Outdoor Temperature and Lung Function/M.B. Rice, W. Li, E. Wilker, D.R. Gold, J. Schwartz, A. Zanobetti, P. Koutrakis, E. Kloog, G.R. Washko, G.T. O'Connor, M. Mittleman, Boston, MA, p.A1927**
- P14 Measurement of Telomere Length and Regulatory Genes in Circulating Peripheral Blood Monocytes and Lung Tissue as a Biomarker for Response After Inhalation Exposure to Occupational Particles/M. Shueb, V.K. Kodali, G.M. Mustafa, B.Y. Farris, K.A. Roach, K. Smith, T. Meighan, C. Umbright, J.R. Roberts, P. Joseph, A. Erdely, J. Antonini, Morgantown, WV, p.A1928**
- P15 Correlation of Ambient Particle Characteristics and Adverse Effects of Reactive Oxygen Species (ROS) to Normal and Diseased Airway Epithelia/Z. Leni, L.E. Cassagnes, I.E. Haddad, N. Baumlin, M.A. Salathe, U. Baltensperger, J. Dommen, M. Geiser, Bern, Switzerland, p.A1929**
- P16 Fine Particulate Matter Promoted the Lung Cell Invasion Via Arnt2/PPP2R5C/PP2A/STATA3/MMP2/M. Huang, Z. Chen, N. Ji, M. Zhang, Nanjing, China, p.A1930**
- P17 In Vitro Smoke Chamber Model to Determine Indoor Air Pollutants/K. Upadhyay, K. Madan, R. Guleria, New Delhi, India, p.A1931**
- P18 Male Users of Liquefied Petroleum Gas (LPG) Stoves Have a Higher Frequency of Respiratory Symptoms than Users of Biomass Fuel Stoves in Ayacucho, Peru/E.E. Phocco Núñez, M. Weiss, M.C. Mauricio, L.M. Lopez, P. Angel, M. Peña, R.A. Accinelli, Lima, Peru, p.A1932**
- P19 Woman Users of LPG Stoves Have Higher Levels of IL-6 than Users of Biomass Fuel Stoves in Ayacucho, Peru (2750 masl)/M.C. Mauricio, E. Phocco, M. Weiss, L.M. Lopez, J.-D. Ju, C.M. Zhang, M. Cerna, S. Choi, R.A. Accinelli, Lima, Peru, p.A1933**

P20 Women Users of Improved Biomass Fuel Stoves Have Lesser Levels of IL-6 than Those Users of Traditional Ones at Ayacucho, Peru (2750 masl)/M. Weiss, M.C. Mauricio, E. Phocco, L.M. Lopez, J.-D. Ju, C.M. Zhang, M. Jaramillo, R.A. Accinelli, Lima, Peru, p.A1934

P21 Oscillometric Measurements in Nigerian Children Born to Women of A Randomized Controlled Ethanol Cookstove Intervention Trial/A. Dutta, M. Alaka, T. Ibigami, D. Adepoju, S. Adekunle, J. Olamijulo, C.O. Olopade, Chicago, IL, p.A1935

P22 Health Outcomes Are Not the Only Gain from Clean Cookstoves/S. Simkovich, T. Siddharthan, W. Checkley, Baltimore, MD, p.A1936

Facilitator: J.R. Harkema, DVM, PhD, East Lansing, MI

P23 Social Media: A Novel Engagement Tool for Rural New Mexico Miners/S. Wigh, W.C. Jarrell, E.A. Kocher, R. Karr, X. Wang, A. Sood, Albuquerque, NM, p.A1937

P24 Personal Protective Equipment, Staten Island Fresh Kills Landfill and More Lessons Learned from September 11th/D. Poliner, C. Ekenga, J. Cone, Pittsburgh, PA, p.A1938

P25 Age-Dependent Deposition Patterns and Quantitative Biokinetics of Inhaled 20nm Gold Nanoparticles in Rat Lungs/J.C. Schittny, W. Moeller, U. Holzwarth, S. Hirn, A. Wenk, C. Schleh, M. Schäffler, N. Haberl, N. Gibson, W.G. Kreyling, Bern, Switzerland, p.A1939

P26 Comparison of In Vitro Rat and Human Airway Epithelial Models for Inhalation Toxicity Testing/P. Hayden, G.R. Jackson, A.G. Maione, M. Klausner, Ashland, MA, p.A1940

P27 Prevalence of Cough in a Large Cohort of Pet Groomers/V. Sharma, C. Pu, W. Clapp, Chicago, IL, p.A1941

P28 Prevalence of Asthma in a Large Cohort of Pet Groomers/V. Sharma, C. Pu, W. Clapp, Chicago, IL, p.A1942

P29 Pet Groomers Survey Responses/J. Rodriguez, V. Sharma, Chicago, IL, p.A1943

P30 Cocaine and Hard Metals: Partners in Crime or Guilty by Association?/A. Martin, I.R. Kugasia, A. Valvani, M.B. Beasley, O. Epelbaum, Valhalla, NY, p.A1944

P31 Adults Exposed to Coal Mine Fire Smoke Report More Asthma and Respiratory Symptoms than Those Not Exposed/M.J. Abramson, J. Blackman, M. Carroll, C. Dimitriadis, A. Del Monaco, M. Dennekamp, S. Denny, C.X. Gao, J. Walker, Melbourne, Australia, p.A1945

Facilitators: L. Avila, MD, San Jose, Costa Rica
H. Bayram, MD, PhD, Gaziantep, Turkey

P33 DNA Methylation Changes in Bronchoalveolar Lavage Associated with Chronic Beryllium Disease/I. Konigsberg, K. MacPhail, E.J. Davidson, L.A. Maier, I.V. Yang, Aurora, CO, p.A1946

P34 The Hypermethylation of ELOVL2 as Biomarkers for Aging in Korean with COPD/J. Park, W.J. Kim, Y. Hong, Boston, MA, p.A1947

P35 Epigenome-Wide Association Study of Survival in Acute Respiratory Distress Syndrome/Y. Guo, R. Zhang, Z. Zhu, S. Shen, P. Tejera, L. Su, D.C. Christiani, Boston, MA, p.A1948

P36 Epigenomewide Association Study Identifies DNA Methylation Markers for Asthma Remission/C. Xu, D.A. van der Plaats, C. Qi, H.M. Boezen, J.M. Vonk, G.H. Koppelman, Groningen, Netherlands, p.A1949

P37 A Precision Medicine Trial to Study Heterogeneity in Paediatric Asthma: Design of the PUFFIN Trial/E. Slob, S.J.H. Vijverberg, M.W.H. Pijnenburg, G.H. Koppelman, A.-H. Maitland-van der Zee, Amsterdam, Netherlands, p.A1950

Facilitator: L. Li, MD, PhD, Denver, CO

P38 Association of Genetic Variants of NLRP4 Inflammasome with Smoking in Acute Exacerbation of Bronchial Asthma/S.-T. Uh, S. Koo, Seoul, Korea, Republic of, p.A1951

P39 Identification of Large Clones of Potentially Deleterious Somatic Mutations in the Small Airway Epithelium of Smokers Without Cancer/J.L. Rodriguez-Flores, S.L. O'Beirne, J. Salit, R.J. Kaner, R.J. Downey, J.G. Mezey, R.G. Crystal, New York, NY, p.A1952

P40 Rasburicase Induced Methemoglobinemia in a Patient with G6PD Deficiency- A Review of Pathophysiology and Treatment Considerations/P. Makkar, M.V. Pillai, V. Mehta, New York, NY, p.A1953

P41 The Irish National Alpha-1 Antitrypsin Deficiency Targeted Detection Programme/T.P. Carroll, L.T. Fee, M. Molloy, E. Pentony, I. Ferrarotti, S. Ottaviani, N.G. McElvaney, Dublin, Ireland, p.A1954

P42 Modern Epidemiology of Alpha1-Antitrypsin Deficiency (AATD) in the UK/J.B. Soriano, R. Jones, S. Lucas, R. Mahadeva, M. Miravittles, Madrid, Spain, p.A1955

THEMATIC POSTER SESSION

A55 ENVIRONMENTAL AND OCCUPATIONAL GENETICS, GENOMICS, AND EPIGENETICS

9:15 a.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER

Area A (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

THEMATIC POSTER SESSION

A56 NON-TUBERCULOUS MYCOBACTERIA: CASE REPORTS

9:15 a.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER

Area C (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

Facilitator: J. Phillely, MD, Tyler, TX

- P216 Nontuberculous Mycobacteria and Chronic Cough in Children: An Underappreciated Entity?**/M. Januska, C. Spencer, A. Vicencio, New York, NY, p.A1956
- P217 Case Report of a Pleural Effusion Caused by Mycobacterium AUBAGNENSE**/A. Wee, S.K. Tan, Singapore, Singapore, p.A1957
- P218 Positive T-SPOT.TB with The Great Imitator - Mycobacterium Kansasii Infection on Etanercept**/M. Kakol, J. Abukhalaf, D.J. Upton, Albuquerque, NM, p.A1958
- P219 Immune Reconstitution Inflammatory Syndrome Mimicking Acute Meningitis in Non-Tuberculous Mycobacterium Infection**/Y.R. Ahmad, S. Dassum, F. Naranjo, A.M. Bensaci, Salem, MA, p.A1959
- P220 Unusual Presentations of Mycobacterial Infections**/S. McGarvey, R. Krochmal, Washington, DC, p.A1960

Facilitator: W.-J. Koh, MD, Seoul, Republic of Korea

- P221 Mycobacterium Massiliense Lung Disease Successfully Treated by Oral Antibiotic Therapy Following 2 Weeks Intravenous Treatment**/M. Matsumoto, M. Suzuki, Y. Yu, N. Takei, H. Kimura, K. Nagaoka, S. Konno, M. Nishimura, Sapporo, Japan, p.A1961
- P222 A Case of Mycobacterium Simiae in an Immunocompetent Post-Menopausal Woman with Persistent Cough**/E.A. Libre, V.S. Katikineni, Falls Church, VA, p.A1962
- P223 Pulmonary Manifestations of Crohn's Disease**/A. Parra, Medellin, Colombia, p.A1963
- P224 Massive Hemoptysis Associated with Mycobacterium Terrae Infection**/A. Cabrera, M. Egozcue, H.Y. Vazquez, G. Ferrer, Aventura, FL, p.A1964

Facilitator: M. Holt, MBBS, BSc, Brisbane, Australia

- P225 Mycobacterium Avium-Intercellulare Presenting as a Large Endobronchial Mass**/R.M. Sidhom, A. Beltran, Orange, CA, p.A1965
- P226 Mounier-Kuhn Syndrome Complicated by Mycobacterium Abscessus Infection in an Active Duty Soldier**/M. Koroscil, J.C. Reis, JBSA-Fort Sam Houston, TX, p.A1966
- P227 Mycobacterium Abscessus Subspecies Abscessus and Subspecies Massiliense Hybrid Infection in a Lung Transplant Candidate: The Path to Eradication**/K. Pennington, P. Escalante, Rochester, MN, p.A1967

Facilitator: A. Basavaraj, MD, New York, NY

- P243 Inpatient Trend for Bronchiectasis in the United States from 2000 - 2014**/A. Agarwal, A. Agrawal, Camden, NJ, p.A1968
- P244 Predictive Identification of Individuals at Risks for Nontuberculous Mycobacterial Lung Disease from a Non-Cystic Fibrosis Bronchiectasis**/M. Mirsaedi, Q. Zhang, E.D. Chan, C. Vinnard, E. Chou, G. Eagle, M. Leuchars, R. Zhang, T.K. Marras, Miami, FL, p.A1969
- P245 Development of a Primary Care Screening Tool for Bronchiectasis**/E. Fardon, Dundee, United Kingdom, p.A1970
- P246 Valuation of Health Status in Patients with Non-Fibrocystic Bronchiectasis Using the Questionnaire EQ-5D-3L**/L.V.T. dos Reis, S.P. Mateus, R.E.B. Salles, W. Costa, R.I.B. Salles, R.I.B. Salles, R.L. Alves, Rio de Janeiro, Brazil, p.A1971
- P247 Primary Bronchial Epithelial Cell Culture from Bronchial Brushings of Bronchiectasis Patients: An International Collaboration**/M.J. McDonnell, I. Haq, B. Verdon, A. Aldhahrani, J.P. Pearson, J. Lordan, A. De Soyza, M. Brodlie, R.M. Rutherford, J.G. Laffey, C. Ward, Galway, Ireland, p.A1972

Facilitator: A.E. O'Donnell, MD, Washington, DC

- P248 Tolerance Test for Inhaled Antibiotics in Patients with Chronic Bronchial Infection**/E. Barbero, C. Almonacid, R. Morillo, R. Nieto, D. Jimenez, L. Maiz, Madrid, Spain, p.A1973
- P249 Changes in Pulmonary Function Test Among Bronchiectasis Patients**/M. Fujita, T. Sasaki, T. Matsumoto, H. Kushima, H. Ishii, Fukuoka, Japan, p.A1974
- P250 Etiology and Microbiological Profile of Bronchiectasis in Adults**/J. Lee, A. Verma, S.H. Chotirmall, S. Ang, J. Yuan, Z. Ng, S.H. Pua, P. Wong, L.C. Tan, J.A. Abisheganaden, A. Y. H. Lim, Singapore, Singapore, p.A1975
- P251 Audit of Bronchiectasis Patients Attending a Respiratory Clinic**/M. Docherty, K. McGee, E. Livingston, Glasgow, United Kingdom, p.A1976
- P252 Evaluation of the Faced Score as a Predictor of Exacerbations in Bronchiectasis**/G. Yusti, A. Gonzalez, A. Ceccato, M.D.L.A. Galperin, I.V. Palma, P.K. Aruj, M. Solis, H. Cambursano, C. Choque, M. Izaguirre, V. Moyano, A. Chirino, C.M. Luna, L. Pulido, L. Osken, O.E. Rizzo, M.E. Alais, R. Santillan, El Palomar, Argentina, p.A1977

THEMATIC POSTER SESSION

A57 BRONCHIECTASIS

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area C (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

THEMATIC POSTER SESSION

A58 NON-TUBERCULOUS MYCOBACTERIA: OFF THE BEATEN TRACK

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area C (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: K.L. Winthrop, MD, MPH, Portland, OR

- P229 Nontuberculous Mycobacteria; Experience in a University Hospital in Buenos Aires, Argentina.**/M.M. Perin, N. Rolan, L. Canteros, D. Burgos, R.A. Gomez Tejada, L. Limongi, C.M. Luna, A.M. Putruele, Buenos Aires, Argentina, p.A1978
- P230 Solitary Pulmonary Nodules of Non-Tuberculous Mycobacterial Diseases Diagnosed After Surgery: A Case Series**/Y. Tanaka, K. Taima, H. Tanaka, M. Itoga, Y. Ishioka, H. Sakamoto, T. Shiratori, J. Tsuchiya, S. Takashi, S. Tasaka, Hiroaki, Japan, p.A1979
- P231 Clinical Characteristics of Patients with Coinfection of Mycobacterium Avium Complex and Mycobacterium Gordoniae**/K. Isomoto, E. Hagiwara, H. Yamakawa, T. Oda, T. Katano, G. Matama, R. Shintani, S. Sadoyama, A. Naoto, R. Otoshi, E. Tabata, S. Ikeda, H. Nakagawa, R. Okuda, A. Sekine, T. Niwa, H. Kitamura, T. Baba, S. Komatsu, T. Ogura, Yokohama, Japan, p.A1980
- P232 Mycobacterium Chimaera in COPD Patients: Clinical, Radiological Features and Outcome**/R. Lukaszewicz, K. El Hussein, S. Skalli, L. Thiberville, A. Cuvelier, M. Patout, Rouen, France, p.A1981
- P233 Hemoptysis in Patients with Nontuberculous Mycobacterial Lung Disease**/S.H. Lee, Y.J. Ryu, J.H. Lee, J.H. Change, M.U. Kim, S.Y. Choi, S.S. Shim, Seoul, Korea, Republic of, p.A1982
- P234 The Development of Lung Cancer During Follow-Up of Patients with Mycobacterium Avium Complex Lung Disease**/T. Kusumoto, T. Asakura, S. Suzuki, S. Okamori, H. Namkoong, H. Fujiwara, K. Yagi, H. Kamata, M. Ishii, T. Betsuyaku, N. Hasegawa, Tokyo, Japan, p.A1983
- P235 Six-Minute Walk Test (6MWT) Performance in Adult Patients Receiving Amikacin Liposome Inhalation Suspension (ALIS) for Treatment-Refractory Nontuberculous Mycobacterial (NTM) Lung Disease Caused by Mycobacterium Avium Complex (MAC)**/K.L. Winthrop, G. Eagle, R.M. Thomson, T.R. Aksamit, N. Hasegawa, K. Morimoto, D.J. Addrizzo-Harris, A.E. O'Donnell, T.K. Marras, P.A. Flume, M.R. Loebinger, L.C. Morgan, L.R. Codecasa, A.T. Hill, S.J. Ruoss, J.J. Yim, F.C. Ringshausen, S.K. Field, J. Nezamis, D.E. Griffith, Portland, OR, p.A1984

Facilitator: K. Morimoto, MD, Tokyo, Japan

- P236 Prevalence of Non-Tuberculous Mycobacterial Infection in Subjects with Alpha-1-Antitrypsin Deficiency**/A.M. Guerrero, L.V. Luna Diaz, G. Urdaneta, C.B. Strange, E. Varano, M.A. Campos, M. Mirsaeidi, University of Miami, FL, p.A1985
- P237 Nontuberculous Mycobacterial Lung Disease Secondary to Interstitial Pneumonia**/S. Hashimoto, E. Tanaka, Y. Hidetaka, U. Masakuni, T. Satoru, T. Nakanishi, H. Nobuyoshi, I. Takashi, K. Yusuke, Y. Takehiro, H. Takashi, T. Yoshio, Tenri Nara, Japan, p.A1986
- P238 Comparison of Clinical Finding Between Patients with Pulmonary NTM Disease and Those with NTM Colonization**/J. Hong, C.Y. Lee, M.G. Lee, Chuncheon, Korea, Republic of, p.A1987

- P239 In Vitro Determination of Inhaled NO Regimen for Treatment of Pulmonary Non-Tuberculous Mycobacteria Infection**/C. Miller, J. Martins, T.A. Miller, B. McMullin, G. Regev, Vancouver, Canada, p.A7668
- P240 Open-Label Trial of Amikacin Liposome Inhalation Suspension in M. Abscessus Lung Disease**/S. Siegel, J.A. Clock, J. Hoeft, B. Chan, P.E. Sullivan, J. Phillee, L.C. Strnad, D.E. Griffith, K.L. Winthrop, Portland, OR, p.A7669
- P241 Patient-Reported Health Status Measured by St. George's Respiratory Questionnaire Improved with Sputum Culture Conversion in Patients with Nontuberculous Mycobacterial (NTM) Lung Disease Caused by Mycobacterium Avium Complex (MAC)**/K. Winthrop, G. Eagle, N. Hasegawa, K. Morimoto, A.E. O'Donnell, T.K. Marras, A.L. Quittner, E. Chou, R. Zhang, J. Marcus, C. Solem, C.G. Deshpande, K. Lasch, J. Nezamis, Q. Zhang, Portland, OR, p.A7670

THEMATIC POSTER SESSION

A59 PEDIATRIC SLEEP

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area F (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion

12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: J.E. Maclean, MD, PhD, Edmonton, Canada

- P539 The Effect of Mechanical or Electrical Stimulation on Breathing Patterns in Mice**/S.A.M. Bou Jawde, A. Scheuermann, B. Suki, Boston, MA, p.A1988
- P540 Clinical Characteristics of Central Sleep Apnea in Children Older than 2 Years of Age**/S. Hantragool, J.A. Torres Garcia, N. Gurbani, N. Simakajornboon, Cincinnati, OH, p.A1989
- P541 Mild Phenotype in Nonpolyalanine Repeat Mutations of PHOX2B in Congenital Central Hypoventilation Syndrome**/A. Kasi, A.T. Wang, T.J. Jurgensen, S.S. Kun, T.G. Keens, I.A. Perez, Atlanta, GA, p.A1990
- P542 Congenital Central Hypoventilation Syndrome in Israel - a New Nationwide Center**/Y. Sivan, M. Liberman Drier, O. Efrati, Tel Aviv, Israel, p.A1991
- P543 Diaphragm Pacer-Induced Airway Obstruction During Sleep in Young Decannulated Patients with Congenital Central Hypoventilation Syndrome (CCHS): Varied Site of Obstruction on Sleep Endoscopy but Consistently Severe Physiologic Compromise**/T. Valika, A.C. Chin, D.M. Thompson, R. Kabre, J.M. Lavin, S.H. Neault, H.A. Ballard, A.M. Kenny, D.E. Weese-Mayer, Chicago, IL, p.A1992
- P544 Rapid-Onset Obesity with Hypothalamic Dysfunction, Hypoventilation, and Autonomic Dysregulation (ROHHD): Dichotomy of Neurocognitive Performance**/J. Warner, F.A. Zelko, D.E. Weese-Mayer, Chicago, IL, p.A1993

- P545 Adherence to Positive Airway Pressure for the Treatment of Obstructive Sleep Apnea in Children with Developmental Disabilities/E.K. Kang, I.E. Tapia, M.S. Xanthopoulos, J. Kim, C. Arevalo-Marcano, J. Shults, C.L. Marcus, Goyang-si, Korea, Republic of, p.A1994**
- P546 Sleep Disordered Breathing and Ventilatory Support in Children with Down Syndrome/F. Trucco, M. Chatwin, T. Semple, M. Rosenthal, A. Bush, H.-L. Tan, London, United Kingdom, p.A1995**

Facilitator: S.J. Pinto, MD, Columbus, OH

- P547 Central Sleep Apnea in Down Syndrome and Its Association with Abnormal Head and Neck Imaging/J.E. Ruderfer, D.R. Spielberg, C.L. Cannon, M.M. Sockrider, D. Glaze, A.A. Patel, Houston, TX, p.A1996**
- P548 Sleep Disturbances in Children with Inflammatory Bowel Disease/S.M. Pillai, F. Deshmukh, J. Lentine, R. Sockolow, P. Christos, Y. Lao, H. Veler, G.M. Loughlin, E. Barfield, New York, NY, p.A1997**
- P549 The Role of Polysomnograms in Evaluating Children with Early Onset Scoliosis (EOS)/G.J. Redding, M. Ho, K. White, W. Kregel III, V. Bompadre, M. Chen, Seattle, WA, p.A1998**
- P550 Uncontrolled Asthma Is Associated with Severe Obstructive Sleep Apnea/C. Fumo dos Santos, S.M. Togeiro, A.K. Smith, S. Tufik, G.A. Moreira, Sao Paulo, Brazil, p.A1999**
- P551 Screening for Obstructive Sleep Apnea in the Difficult-to-Treat Asthma Population Using Pediatric Sleep Questionnaire/S. Hantragool, A.R. Lopez, G. Huang, M.M. Hossain, K.M. McDowell, T.W. Guilbert, C.M. Kercksmar, N. Simakajornboon, Cincinnati, OH, p.A2000**
- P552 Pediatric Sleep Disordered Breathing Is Associated with Worse Acute Asthma Control/T.D. Wu, J. Rice, R. Koehl, E. Brigham, G.B. Diette, N.N. Hansel, L.M. Sterni, M.C. McCormack, Baltimore, MD, p.A2001**
- P553 Association of Anthropometric Measures and Obstructive Sleep Apnea in Children/R. Bhattacharjee, S. Christensen, G. Dever, La Jolla, CA, p.A2002**
- P554 Does Positive Airway Pressure Therapy Reduce the Frequency of Unscheduled Acute Health Care Visits Among Children in Ontario with Obstructive Sleep Disordered Breathing?/D. Radhakrishnan, S.L. Katz, I.B. Macluskay, T.M. To, Ottawa, Canada, p.A2003**

Facilitator: G.R. Nino, MD, Washington, DC

- P555 The Diagnostic Accuracy of OSA-18 in Identifying Moderate-to-Severe OSA in Snoring Children Who Have Normal/Inconclusive Overnight Oximetry/S. Tansriratanawong, S. Sritipayawan, M. Veeravigrom, Bangkok, Thailand, p.A2004**
- P556 Parent Treatment Preferences for Mild Obstructive Sleep Apnea in Children/D. Combs, I. Abraham, C.-H. Hsu, W.J. Morgan, O. Bailey, S. Parthasarathy, Tucson, AZ, p.A2005**
- P557 Maxillary Expansion Treatment of Obstructive Sleep Apnea in Children - Pilot Study/B.T. Pliska, J. Pauwels, N.K. Chadha, Vancouver, Canada, p.A2006**

- P558 A Non-Invasive Approach for Calculating Work of Breathing in Obstructive Sleep Apnea Patients Using Computational Fluid Dynamics and Cine CTs/G. Mylavarapu, R.J. Fleck, K. McConnell, R.S. Amin, Cincinnati, OH, p.A2007**
- P559 Validity and Cost-Effectiveness of Pediatric Home Respiratory Poligraphy for the Diagnosis of Obstructive Sleep Apnea: Rationale, Design and Methodology/J. Duran-Cantolla, E. Ocejia, A. Alvarez, B. Muria, F. Pumarola, J.M. Roman-Sanchez, S.O. Terceros, G. del-Rio-Camacho, A. Navazo, M. del-Olmo, E. Garcia Ledesma, M. Martinez, T. Luna, A. Crespo, L. Gozal, D. Gozal, M. Ruiz-de-Valbuena, Vitoria, Spain, p.A2008**
- P560 Use of Polysomnography (PSG) in Hospitalized Children: Retrospective Review and Conclusions/S. Gueye-Ndiaye, H. Veler, M.J. Ward, New York, NY, p.A2009**
- P561 High Mortality in Infants Who Require Inpatient Polysomnography/E. MacKintosh, K. Evans, M. Chen, Seattle, WA, p.A2010**
- P562 Can Weekly Crib Audits Improve Safe Infant Sleep Adherence in an Acute Care Hospital?/J.K. Coleman, G.M. Lupica, G. Kimball, A. Freed, C. Lins, T.G. Keens, Los Angeles, CA, p.A2011**
- P563 NIH Toolbox Cognition Battery Study: A Multi-Site Evaluation of Neurocognition in Congenital Central Hypoventilation Syndrome (CCHS)/A. Zhou, F.A. Zelko, C.M. Rand, K. Bijawat, D. Forbush, M.L. Chen, I.A. Perez, D.E. Weese-Mayer, Chicago, IL, p.A7671**

THEMATIC POSTER SESSION

A60 PEDIATRIC ALLERGY AND ASTHMA

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area F (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: P. Mandhane, MD, PhD, Edmonton, Canada

- P565 Can Plasma Cytokines in Infants Predict the Development of Persistence of Wheezing Later?/I. Chkhaidze, D. Zirakishvili, Tbilisi, Georgia, p.A2012**
- P566 Nasal Fluid IRF7, CXCL9 and CXCL10 Protein Levels Do Not Reflect Altered Nasal Cell mRNA Expression Responses to Different Human Rhinovirus Species in Children with Asthma and Wheezing Exacerbations/L.A. Coleman, L.M. Harris, S.-K. Khoo, K.M. Franks, J. Bizzintino, F. Prastanti, J. Everard, S. Oo, R. Maciewicz, C. McCrae, L. Oberg, P.N. Le Souef, A. Bosco, I.A. Laing, Perth, Australia, p.A2013**
- P567 Repeatability and Lung Function Correlates of Exhaled Breath Fingerprint in Healthy Children/G. Viegi, S. Fasola, G. Ferrante, G. Pennazza, M. Santonico, A. Zompanti, S. Grasso, R. Antonelli Incalzi, S. La Grutta, Pisa, Italy, p.A2014**

- P568** **Modified Interpretation of Fractional Exhaled Nitric Oxide in Preschoolers**/J. Bao, Shanghai, China, p.A2015
- P569** **Caregiver's Hair Cortisol Is a Potential Biomarker of a Child's Asthma**/J.P. Hollenbach, N. Gherlone, T. Simoneau, F. Sylvester, M.M. Cloutier, Hartford, CT, p.A2016
- P570** **The Use of Increased Flow Rates for High Flow Nasal Cannula (HFNC) on the General Pediatric Wards**/J. Popler, J. Tejedor-Sojo, F. Campo, S. Sharma, Atlanta, GA, p.A2017
- P571** **Does Flunisolide HFA Improve Small Airway Function in Children?**S.G. Bickel, J. Myers, R.L. Morton, A.R. O'Hagan, N.S. Eid, Louisville, KY, p.A2018
- P572** **Simultaneous Administration of O₂ and Prescribed Aerosol Medication Via Oxygen Mask and InspiraChamber® Anti-Static Valved Holding Chamber**/R. Toddywala, M.T. Newhouse, V. Shukla, P. Goldman, Somerset, NJ, p.A2019
- Facilitator:** M. Arteta, MD, Ann Arbor, MI
- P573** **Change in Use of Continuous Albuterol After Implementation of RT-Driven Asthma Weaning Protocol**/J. Kaslow, S. Multerer, M. Stevenson, Louisville, KY, p.A2020
- P574** **Status Asthmaticus Requiring ECMO Associated with Rhinovirus Infection**/L. Greenawald, A. Strang, A. Chidekel, C. Froehlich, Wilmington, DE, p.A2021
- P575** **In Status Asthmaticus, Changes in Heart and Respiratory Rates Have Important Prognostic Implications**/C. Okorie, V. Balasubramanian, C. Sakarovitch, H. Hedlin, B. Harris, W.C. Kethman, M. Huffaker, D.N. Cornfield, Palo Alto, CA, p.A2022
- P576** **Diagnostic Accuracy of Impulse Oscillometry in Preschool Children with Asthma**/E. Dueñas, D.C. Duarte, C. Aguirre, L.F. Giraldo-Cadavid, Bogota, Colombia, p.A2023
- P577** **Forced Expiratory Flow (FEF_{25-75%}) as an Alternative Lung Function Measurement in Pediatric Patients**/S. Goldstein, C. Vogelberg, E. Hamelmann, G. El Azzi, M. Engel, P. Moroni-Zentgraf, R. Sigmund, S.J. Szefer, Rockville Centre, NY, p.A2024
- P578** **Efficiency of Methacholine Challenge Testing in Evaluating Pediatric Asthma**/R. Bhatia, K. DiLullo, Akron, OH, p.A2025
- P579** **Perception of Exercise-Induced Bronchoconstriction by Children and Their Parents**/N. Lammers, M.H.T. van Hoesel, J.M.M. Driessen, J. Van Der Palen, B. Thio, Enschede, Netherlands, p.A2026
- P580** **Video Evaluation of Exercise-Induced Bronchoconstriction in Childhood Asthma**/M.H.T. van Hoesel, N. Lammers, J.M.M. Driessen, M.G. Brusse-Keizer, B.J. Thio, Leeuwarden, Netherlands, p.A2027
- Facilitator:** K.M. Kloepfer, MD, MS, Indianapolis, IN
- P581** **Wearable Home-Monitoring in Asthmatic Children**/M.R. Kamp, B. Thio, F. De Jongh, J.M.M. Driessen, Enschede, Netherlands, p.A2028
- P582** **Complete Delivery of Medication from a Valved Holding Chamber to a Small Child Is Affected by Chamber Capacity: A Laboratory-Based Investigation**/J. Suggett, M. Nagel, D. Coppolo, J. Mitchell, London, Canada, p.A2029
- P583** **Making the Electronic Medical Record Work: Improvements in Asthma Documentation with a Standardized Template**/S.G. Bickel, M. Lowery, R.L. Morton, N.S. Eid, A.R. O'Hagan, Louisville, KY, p.A2030
- P584** **Correlating Multimodal Signals with Asthma Control in Children Using kHealth Personalized Digital Health System**/M.S. Kalra, A. Sheth, T. Banerjee, U. Jaimini, D. Kadariya, V. Sridharan, K. Thirunarayam, R. Venkataramanan, H.Y. Yip, Dayton, OH, p.A2031
- P585** **Automated Chart Review for Identifying Pre- and Peri-Natal Risk Factors Associated with Childhood Asthma**/Y. Juhn, S. Moon, C.-I. Wi, S. Fu, J. Weston, J. Porcher, E.F. Johnson, H.Y. Seol, S. Sohn, E. Ryu, H. Liu, Rochester, MN, p.A2032
- P586** **A Quality Improvement Initiative Designed to Reduce Asthma Related Acute Care Utilization Through Patient Centered Management**/S. Agrawal, D. Rastogi, A. Bidiwala, Bronx, NY, p.A2033
- P587** **Effectiveness of Asthma Controller Therapy in Infants and Toddlers with Asthma-Like Symptoms in Reducing Health Care Utilization**/H. Levine, M. Leventer-Roberts, M. Hoshen, R. Balicer, H. Blau, Petah Tikva, Israel, p.A2034
- P588** **Patterns of Asthma Controller Medication Use Across the Transition to High School**/E. McQuaid, S.J. Kopel, D. Koinis-Mitchell, A. Tackett, R. Seifer, S.I. Dunsiger, Providence, RI, p.A2035
- Facilitator:** L.M. Sarzynski, MD, Columbus, OH
- P589** **Effect of Growth and Changes in Body Composition on Pulmonary Function in Normal Weight and Obese Children**/D.M. Bhammar, V. Bernhardt, R. Marines-Price, T.G. Babb, Las Vegas, NV, p.A2036
- P590** **Does Obesity Increase Respiratory Tract Infections (RTI) and Respiratory Sequelae in Patients with Asthma**/M. Tang, R.J. Henderson, J.T. Holbrook, J. Lang, Durham, NC, p.A2037
- P591** **Social Determinants of Asthma in Cheyenne River Sioux American Indian Children**/B. Kinghorn, A. Fretts, A.M. Fretts, R. O'Leary, C. Karr, M. Rosenfeld, L. Best, Seattle, WA, p.A2038
- P592** **Indicators of Asthma Control and Patterns of Care among Children with Asthma Residing in Poor Urban Areas**/B. Ortiz, A. Kavati, P. Sullivan, V. Ghushchyan, P. Navaratnam, H. Friedman, B. Lanier, East Hanover, NJ, p.A2039
- P593** **Use of Systemic Corticosteroids among Children with Asthma Residing in Poor Urban Areas**/B. Ortiz, A. Kavati, P. Sullivan, V. Ghushchyan, P. Navaratnam, H. Friedman, B. Lanier, East Hanover, NJ, p.A2040
- P594** **Characterization of Severe Asthma in Children Aged 6 to 15 Years in a Middle-income Developing Country**/E. Dueñas, C.A. Torres-Duque, E. Correa, M. Suarez, C. Vásquez, J. Jurado, O. Barón, A. Pachón, Bogota, Colombia, p.A2041
- P595** **Identification of Wheezing Phenotypes Among Children with Bronchiolitis Constructing New Roadmap for Risk Minimization for Asthma in Adulthood in Developing Countries**/N.K. Bhatta, R.R. Singh, S. Yadav, Dharan, Nepal, p.A2042

- P596 Treatment of Asthma Exacerbation in Chilean Children: a Multicenter Observational Study/A.M. Herrera, G. Cavada, Santiago, Chile, p.A2043**
- P597 Prevalence of Asthma Among School Children in Gaborone, Botswana/A. Kiboneka, Windhoek, Namibia, p.A2044**

THEMATIC POSTER SESSION

A61 CARE OF TECHNOLOGY-DEPENDENT CHILDREN

9:15 a.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER

Area F (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: A.I. Cristea, MD, Indianapolis, IN
G.F. Perez, MD, Washington, DC

- P599 Nasal Respiratory Support Does Not Alter Bottle-Feeding in an Ovine Model of Mild to Moderate Respiratory Impairment/N. Samson, C. Nadeau, J.-P. Praud, Sherbrooke, Canada, p.A2045**
- P600 Esophageal Pressure: A Reliable Monitoring to Estimate Transpulmonary Pressure in Children?/G. Emeriaud, G. Mortamet, S. Essouri, N. Poirier, P. Juvet, Montreal, Canada, p.A2046**
- P601 Subglottic Post-Extubation Upper Airway Obstruction Is Associated with Long Term Airway Morbidity/J. Green, P.A. Ross, C.J. Newth, R.G. Khemani, Los Angeles, CA, p.A2047**
- P602 Standardized Tracheostomy Assessment Rounds in the Pediatric Intensive Care Unit/T.J. Vece, A.W. Plum, M.J. Bruehl, C. Reilly, K. Abode, Chapel Hill, NC, p.A2048**
- P603 Concordance Between 16S and RNAseq for Bacterial Community Analysis of Tracheal Aspirates from Mechanically Ventilated Children/J.K. Harris, K.M. Williamson, C. Langelier, Y. Sierra, M. Sontag, J. Derisi, P.M. Mourani, Aurora, CO, p.A2049**
- P604 Utility of Surveillance Cultures in Pediatric Tracheostomy Patients for Guiding Treatment in the Setting of Acute Illness/A. Gupta, T. Simoneau, C.M. Schramm, Hartford, CT, p.A2050**
- P605 "Trach Me Home": A Multidisciplinary Team Checklist to Reduce Readmissions and Emergency Department Visits Following Tracheostomy Placement in Ventilator Dependent Pediatric Patients/G.F. Perez, A. Espinel, M. Sharron, H. Grenlick, M. Farrar-Simpson, R. Shah, Washington, DC, p.A2051**
- P606 Outcomes of Technology Dependent NICU Infants: A Single Center 5-Year Review Comparing Usual Care Versus Comprehensive Medical Care/W. De Jesus-Rojas, C. Aneji, C.L. Samuels, J. Epean, T. Gonzales, T.S. Harris, J.M. Stark, C.K. Jon, K.E. McBeth, H. Emanuel, A. Yadav, R.A. Mosquera, Houston, TX, p.A2052**

- P607 The Attitude and Comfort of Pediatric Nurses with Providing Education to Caregivers of Children Requiring Long Term Mechanical Ventilation/A. Lowden, B. Frazee, D. Shelley, J. Westerman, K. Hodges, S. James, V.L. Ackerman, T. Turner, L. Utt, D. Westenkirchner, A.I. Cristea, Indianapolis, IN, p.A2053**
- P608 The Knowledge of Caregivers in Dealing with Tracheostomy-Related Emergency Situations in Pediatric Tracheostomy Home Care: A Cross Sectional Survey in a Thai University Hospital/K. Syananondh, P. Somboon, W. Boonjindasup, S. Sritippayawan, J. Deerojanawong, N. Prapphal, Bangkok, Thailand, p.A2054**
- P609 Longitudinal Changes in Clinical Characteristics and Outcomes for Children Using Long-Term Non-Invasive Ventilation/M. Castro Codesal, K. DeHaan, P.K. Bedi, G.N. Bendiak, L. Schmalz, S.L. Katz, J.E. Maclean, Edmonton, Canada, p.A2055**

THEMATIC POSTER SESSION

A62 SICKLE CELL DISEASE

9:15 a.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER

Area F (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: E. Machogu, MBChB, MS, Indianapolis, IN
F.O. Ogunlesi, MD, Washington, DC

- P611 The Association of Nocturnal Hypoxia with Pulmonary Hypertension in Children with Sickle Cell Disease/P. Mondal, B. Stefek, A. Sinharoy, B.-J. Sankoorikal, M. Abu-hasan, V. Aluquin, Hershey, PA, p.A2056**
- P612 Screening of Pulmonary Hypertension in a Cohort of Children with Sickle Cell Disease/W. De Jesus-Rojas, R.A. Mosquera, C. DaCosta, J.M. Stark, C.K. Jon, K. McBeth, A. Yadav, Houston, TX, p.A2057**
- P613 Pulmonary Dysfunction Among Adolescents and Adults with Sickle Cell Anemia in Nigeria/O.B. Ozoh, O.O. Kalejaiye, Y.O. Adelabu, D.A. Nmadu, O.E. Eromosele, M.O. Kehinde, Lagos, Nigeria, p.A2058**
- P614 Effect of Hydroxyurea on Pulmonary Function in Sickle Cell Disease/N. Kotwal, D.K. Pillai, A.C. Koumbourlis, Washington, DC, p.A2059**
- P615 Use of Beta Agonists in Prevention of Acute Chest Syndrome in Pediatric Patients with Sickle Cell Disease and Asthma/T. Klouda, D. Raybagkar, N. Apollonsky, B. Bernstein, S. Rani, Philadelphia, PA, p.A2060**
- P616 Airway Inflammatory Patterns in Sickle Cell Disease/A. De, S. Agrawal, K. Morrone, D. Manwani, D. Rastogi, Bronx, NY, p.A2061**
- P617 A Physician Survey Assessing Management Practices Among Pediatric Pulmonologists Treating Sickle Cell Patients with Pulmonary Airway Involvement/S. Agrawal, W.B. Burton, D. Manwani, D. Rastogi, A. De, Bronx, NY, p.A2062**

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

P618 Evaluating Children with Sickle Cell Disease and Asthma with Spirometry and Impulse Oscillometry/P. Mondal, A. Yirinec, C. Moses, A.E.F. Dimmock, R. Bascom, Hershey, PA, p.A2063

P619 The Outpatient Respiratory Care of Children with Sickle Cell Disease: A Quality Improvement Initiative/H. Mohsin, A. Adeleye, K. Kam, A. Ruzycski, M. Leaker, G.N. Bendiak, Calgary, Canada, p.A2064

THEMATIC POSTER SESSION

A63 RIDE THE LIGHTNING: BASIC AND TRANSLATIONAL STUDIES IN PULMONARY HYPERTENSION

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area B (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: J.W. Barnes, PhD, MSc, Birmingham, AL

P77 The Molecular Mechanisms of Persistent Inflammatory Cellular Phenotypes in PH, Roles of Chromatin Structure, Multiple Transcription Factors, and Epigenetic Regulators/C.-J. Hu, H. Zhang, A. Laux, A. Flockton, M. Li, K.R. Stenmark, Aurora, CO, p.A2065

P78 APOA-I Mimetic Peptide 6F Rescues Oxidized Lipid Induced-Pulmonary Hypertension/G. Ruffenach, E.I. O'Connor, M. Vaillancourt, S. Sarji, S. Moazeni, L. Arayan, C. Cunningham, V. Grijalva, S. Reddy, M. Eghbali, Los Angeles, CA, p.A2066

P79 Understanding Mechanisms Regulating Endothelin-1 Induced Pulmonary Artery Smooth Muscle Contractility Using Real-Time Measured Impedance/J. Wilson, R.R. Warburton, P. Polgar, N.S. Hill, Boston, MA, p.A2067

P80 Smooth Muscle Apoptosis in Pulmonary Hypertension Is Regulated by the Sodium-Hydrogen Exchanger/J. Huetsch, X. Yun, H. Jiang, L.A. Shimoda, Baltimore, MD, p.A2068

P81 Transfer of BMPR2 Protein to Human Pulmonary Artery Endothelial Cells Using Designed Microvesicles/J. Jang, R.L. Benza, M. Passineau, Pittsburgh, PA, p.A2069

P82 Mitochondrial Proteins Regulate Experimental Pulmonary Hypertension/I.S. Bazan, J.D. Marshall, S.-J. Kim, P. Shan, P. Lee, New Haven, CT, p.A2070

P83 PTEN Depletion in Pulmonary Arteries Does Not Augment Chronic Hypoxia-Induced Pulmonary Arterial Pulmonary Hypertension/G.B. Waypa, K.A. Smith, V.J. Dudley, P.T. Schumacker, Chicago, IL, p.A2071

P84 Translationally Controlled Tumour Protein Inhibits Apoptosis and Promotes Proliferation and Migration of Rat Lung Microvascular Endothelial Cells/M. Ho, D.J. Stewart, Ottawa, Canada, p.A2072

P85 VEGFR-2 Expression Is Augmented in Mouse Cardiac Endothelial Cells Exposed to Shear Stress/G. Peloquin, L. Johnston, M. Damarla, R.L. Damico, P.M. Hassoun, T.M. Kolb, Baltimore, MD, p.A2073

P86 Pentosan Polysulfate Inhibits Hypoxia-Induced Pulmonary Vascular Remodeling in Mice/R. Ramchandran, M. Sun, J. Chen, T. Chen, J.U. Raj, Chicago, IL, p.A2074

P87 Circulating Cluster of Differentiation CD3 Cells Derived Extracellular Vesicles Are Increased in Chronic Pulmonary Vascular Diseases/U. Deo, Giessen, Germany, p.A2075

P88 The Role of α GAG-Containing Versican Isoforms in Pulmonary Hypertension/C. Norvik, C. Westoo, M. Orcholski, Y.-T. Chang, M.T. Dours-Zimmermann, S.S. Apte, V. De Jesus Perez, K. Tran-Lundmark, Lund, Sweden, p.A2076

P89 Purinergic-Dependent Contraction of Small Intrapulmonary Veins in a Pulmonary Arterial Hypertension Rat Model/M.G. Henriquez, O. Arellano, M. Fonseca, E. Sanhueza, Santiago, Chile, p.A2077

P90 17-Beta Estradiol Regulates AIF, MIF and PARP-1 Expression in Overproliferation of Pulmonary Arterial Smooth Muscle Cell/T. Chen, P. Yuan, J. Liu, Shanghai, China, p.A2078

P91 The Role of Exosomes in Cellular Communication in Both PAH Disease Progression and Therapeutic Success/R. Harper, S. Maiolo, R. Lim, D. Greening, M. Cockshell, C. Bonder, P.N. Reynolds, Adelaide, Australia, p.A2079

P92 Mesenchymal Extracellular Vesicles Attenuate Pulmonary Hypertension in Sugen 5416/Hypoxia Treated Rats/J.R. Klinger, M. Pierra, M. Deltatto, M. Dooner, T. Borgovan, L. Goldberg, J.M. Aliotta, C.E. Ventetuolo, P.J. Quesenberry, O.D. Liang, Providence, RI, p.A2080

Facilitators: J. Leopold, MD, Boston, MA
H. Karmouty-Quintana, PhD, Houston, TX

P93 Estrogen Improves the Proliferation of PASMCs Through Notch Signaling Pathway/W.H. Wu, J.-M. Liu, Shanghai, China, p.A2081

P94 p53 Plays an Important Role in the Development and Progression of Pulmonary Hypertension/Z. Wang, R.J. Ayon, H. Tang, J.X.J. Yuan, J. Wang, Tucson, AZ, p.A2082

P95 Macrophages Increase the Bone Morphogenetic Protein Antagonist Gremlin-1 in Response to Hypoxia/L. Mthunzi, U. Knaus, P. McLoughlin, Dublin, Ireland, p.A2083

P96 Nodes of Redundancy in Inflammatory Mediators of Pulmonary Hypertension/G. Grunig, N. Durmus, Tuxedo, NY, p.A2084

P97 Hypoxia-Inducible Factor-1 Regulation Via the Beta-Adrenergic Receptor/O.R. Stephens, S.C. Erzurum, Cleveland, OH, p.A2085

P98 Expression Profiling of microRNA Processing Components in Pulmonary Artery Smooth Muscle Cells/C.K. Docherty, D. Walas, L. Loughlin, M.R. MacLean, Glasgow, United Kingdom, p.A2086

P99 P2x1 Antagonism Blocks Pulmonary Arterial Smooth Muscle Cell Contraction/P. Robichaud, S.H. Visovatti, Ann Arbor, MI, p.A2087

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- P100 Splenectomy Deteriorate Chronic Hypoxia-Pulmonary Vascular Remodeling/Y. Zhao, Y. Yao, M.-L. Chan, H.Z. Yun, L. Wu, M. de Perrot, J.T. Granton, Toronto, Canada, p.A2088**
- P101 Adventitial Fibroblast Phenotype Is Dependent on Matrix and Interstitial Fluid Flow: Implications for Pulmonary Hypertension/M. Yeager, K.L. Colvin, Aurora, CO, p.A2089**
- P102 Fibroblast Generated Extracellular Vesicles Induces Pro-Inflammatory and Metabolic Reprogramming in Bone Marrow Derived Macrophages/S. Kumar, S. Riddle, M. Li, H. Zhang, A. Flockton, B.A. McKeon, M.G. Frid, K.R. Stenmark, Aurora, CO, p.A2090**
- P103 Splenectomy Blocks the Development of Pulmonary Hypertension in the Monocrotaline Rat Model/Y. Yao, Y. Zhao, M.-L. Chan, M. de Perrot, J.T. Granton, Toronto, Canada, p.A2091**
- P104 Pharmacologic Inhibition of CtBP1 Has Multiple Beneficial Effects in the Treatment of Pulmonary Hypertension/M. Li, B.A. McKeon, M. Frid, A. Flockton, C.-J. Hu, A. Laux, H. Zhang, S. Kumar, S. Riddle, R.D. Brown, M. Fini, K.R. Stenmark, Aurora, CO, p.A2092**
- P105 Effects of Carbohydrate Metabolism on Development of Pulmonary Hypertension/L.R. Villegas, J. Yates, J.H. Chun, H. Austin, B. Ramos, A. Hanson, D. Pokhrel, C. King, M.T. Le, Aurora, CO, p.A2093**
- P106 Mitochondrial Uncoupling Protein 2 (UCP2) Levels Are Modulated by Peroxisome Proliferator-Activated Receptor Gamma (PPARγ) in Pulmonary Artery Smooth Muscle Cells/E. Oommen, B.-Y. Kang, J. Kleinhenz, R.L. Sutliff, S.M. Yeligar, C.M. Hart, Atlanta, GA, p.A2094**
- P107 Role of Connexins in Hypoxic-Induced Proliferation and Migration in Rat Pulmonary Artery Fibroblast and Smooth Muscle Cells/A. McNair, P. Martin, D.J. Welsh, Y. Dempsey, Glasgow, United Kingdom, p.A2095**
- P108 Endothelial Fibroblast Growth Factor Receptor 1 Promotes Chronic Hypoxia Induced Pulmonary Arterial Hypertension Involving Estrogen Receptors/A. Racanelli, D. Chavez, P. Guo, B.-S. Ding, A.M.K. Choi, New York, NY, p.A2096**
- Facilitator:** G. Kwapiszewska, PhD, Graz, Austria
- P109 BKCa Channel Activation Normalizes Elevated Vasoconstriction in Pulmonary Arteries from Rats with Pulmonary Hypertension/R. Clements, T. Mancini, A. Vang, N.R. Kue, G. Choudhary, Providence, RI, p.A2097**
- P110 Up-Regulation of Calcium Homeostasis Modulator-1 in Pulmonary Artery Smooth Muscle Cells with Idiopathic Pulmonary Arterial Hypertension/M. Rodriguez, J.X.J. Yuan, Tucson, AZ, p.A2098**
- P111 The Role of Mitophagy in Development of Pulmonary Hypertension/A. Saraji, N. Sommer, K. Schäfer, A. Sydykov, M. Hecker, W. Seeger, A.H. Ghofrani, R.T. Schermuly, N. Weissmann, O. Pak, Giessen, Germany, p.A2099**
- P112 IL-13 Enhances Mecenychmal Transition of Pulmonary Artery Endothelial Cells Through Down-Regulation of miR-424 and miR-503 In Vitro/K. Takagi, M. Yamakuchi, T. Matsuyama, S. Misono, K. Machida, T. Hashiguchi, H. Inoue, Kagoshima City, Japan, p.A2100**
- P113 Paclitaxel Blocks Th2-Mediated TGF-β Activation in Schistosoma Mansoni-Induced Pulmonary Hypertension/B. Kassa, R. Kumar, C. Mickael, L. Sanders, D. Koyanangi, D. Hernandez-Saavedra, R.M. Tuder, B.B. Graham, Aurora, CO, p.A2101**
- P114 Aromatase Expression of Liver in Portopulmonary Hypertension/S. Sahay, R. Barrios, M. Deavers, Y. Ren, A.E. Frost, Houston, TX, p.A2102**
- P115 Systemic Effects of Inhaled Nitric Oxide in Healthy Volunteers/A.R. Tonelli, K.S. Aulak, M.K. Ahmed, B. Abuhalimeh, R.A. Dweik, Cleveland, OH, p.A2103**
- P116 Alterations in Tryptophan Metabolism and Nicotinamide Adenine Dinucleotide (NAD) Synthesis in Individuals with Pulmonary Arterial Hypertension/C. Koch, A. Fitch, M. Simon, S. Qin, N. Leo, B. Methe, K. Li, S. Rehman, M.T. Gladwin, A. Morris, Pittsburgh, PA, p.A2104**
- P117 Overexpression of NEF Protein Leads to More Severe Pulmonary Complex Vascular Lesions Associated with the Human Immunodeficiency Virus/J.L. Sandoval Gutierrez, R. Rivera, E. Sevilla Reyes, J. Rodriguez Silverio, F.J. Flores Murrieta, Mexico City, Mexico, p.A2105**
- P118 Na⁺-h⁺Exchanger 1 Determines Atherosclerotic Lesion Acidification Andpromotes Atherogenesis/C. Liu, G. Sukhova, L. Peter, G.-P. Shi, Boston, MA, p.A2106**
- P119 Inhibition of mTORC2 Upregulates PDGFRs Expression and Contributes to the Development of Pulmonary Hypertension/H. Tang, K. Wu, Y. Gu, J. Wang, A. Makino, J.X.J. Yuan, Tucson, AZ, p.A2107**
- P120 Bone Morphogenic Protein 2 Is an Important Regulator of Angiogenesis in Clonally Enriched Lung Endothelial Cells/A. Bhagwani, S. Hultman, D. Farkas, R.L. Heise, M.C. Yoder, M. Clauss, R.J. Freishtat, L. Farkas, Richmond, VA, p.A2108**
- P121 Enhanced Therapeutic Efficacy of Vasodilator Therapy in Combination with a Novel Human Anti-OPG Antibody in Experimental Pulmonary Arterial Hypertension/A. Lawrie, L. West, N. Arnold, H. Casbolt, J.A. Pickworth, J. Carvalho, J. Iremonger, L. Renshall, A. Braithwaite, M. McCourt, V. Germaschewski, Sheffield, United Kingdom, p.A7672**
- P122 Chronic Hypoxia Restores Hypoxic Pulmonary Vasoconstriction in a Mouse Model of Leigh Syndrome/G. Schleifer, O. Goldberger, V.K. Mootha, D.B. Bloch, F. Ichinose, W.M. Zapol, Boston, MA, p.A7673**
- P123 SU5416 Plus Hypoxia but Not Selective VEGFR2 Inhibition with Cabozantinib Plus Hypoxia Induces Pulmonary Hypertension in Rats: Potential Role of BMPR2 Signaling/R. Sitapara, C. Sugarragchaa, L. Zisman, Rensselaer, NY, p.A7674**

THEMATIC POSTER SESSION

A64 LET'S GO TRIPPIN': DIAGNOSTICS AND RISK ASSESSMENT IN PULMONARY HYPERTENSION

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area B (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: J.S. Sager, MD, MSc, Santa Barbara, CA

P125 Clinical Decision Making in Patients Suspected of Pulmonary Hypertension: Pre-Capillary Pulmonary Hypertension in the Elderly Underdiagnosed?/A. Huis in 't Veld, P.H. Tolen, W. Jacobs, A. Vonk Noordegraaf, H.J. Bogaard, Amsterdam, Netherlands, p.A2109

P126 The Motion Study to Assess the Effect of Riociguat on Patient-Reported Outcomes in PAH: Correlations Between the Living with Pulmonary Hypertension Questionnaire and Secondary Endpoints/F.F. Rahaghi, L. Melendres-Groves, D.M. Platt, A. LaRose, F. Kleinjung, G.M. O'Brien, Weston, FL, p.A2110

P127 Serum Uric Acid as a Biomarker of Disease Severity in Scleroderma Patients with Pulmonary Arterial Hypertension/C. Simpson, D.E. Amarie, R. Khair, T.M. Kolb, P.M. Hassoun, R.L. Damico, S.C. Mathai, Baltimore, MD, p.A2111

P128 Wall Shear Stress Is Associated with Severity of Idiopathic Pulmonary Arterial Hypertension/L. Wang, J. Shi, J. Liu, Shanghai, China, p.A2112

P129 Clinical Perspective of Pulmonary Arterial Hypertension (PAH) in the Elderly: A Single Center Study/A. Iftikhar, N. Rothbard, M. Cheema, M. Chhetry, S. Sahni, Flushing, NY, p.A2113

P130 Diagnostic Accuracy and Reproducibility of Unenhanced Computed Tomography in Suspected Pulmonary Hypertension: Pulmonary Arterial and Cardiac Metrics/A. Swift, C.S. Johns, T. Julius, Z.M. Goh, S. Barnes, C. Elliot, A. Charalampopoulos, J.M. Wild, C. Hill, R.A. Condliffe, D. Kiely, Sheffield, United Kingdom, p.A2114

P131 Contemporary Trends of Ventilation Perfusion Scanning in the United States Over the Last Two Decades (1993-2013)/M. Peck, P.S. Gill, A. Iftikhar, A. Agrawal, R. Sikachi, S. Sahni, Harlem, NY, p.A2115

P132 Myositis-Related Autoantibodies and Pulmonary Arterial Hypertension (PAH): Another Sub-Type of PAH Associated with Autoimmune Conditions/S. Si, S. Weinmann, C. McEvoy, M.M. Chakinala, St. Louis, MO, p.A2116

Facilitator: M.M. Chakinala, MD, St. Louis, MO

P133 Echocardiographic Findings of Pulmonary Hypertension in Cocaine Users/B. Alzghoul, B. Alqam, A. Abualsuod, S. McClelland, Z. Gheith, A.A. Innabi, F. Amer, K. Chatterjee, N.K. Meena, Little Rock, AR, p.A2117

P134 Utility of Point-of-Care Echocardiographic Parameters in a Focused Pulmonary Hypertension (PH) Clinic/K. Singh, T. He, S. Verma, M. Narasimhan, A. Agrawal, R. Shah, N. Kohn, S. Khanijo, P. Bhat, P.H. Mayo, A. Talwar, New Hyde Park, NY, p.A2118

P135 Prevalence of Myocardial Non-Compaction: Single-Center Experience/V.R. Patel, S. Paulus, D. Zwicke, Milwaukee, WI, p.A2119

P136 Evaluation of the Incidence and Severity of Cardiac Related Liver Disease in Patients with Pulmonary Arterial Hypertension/M. Lerche, H.R. Wirtz, T. Karlas, J. Wiegand, A. Frille, V. Keim, H.J. Seyfarth, Leipzig, Germany, p.A2120

P137 Prevalence of HIV-Associated Pulmonary Artery Hypertension as Assessed by Tissue Doppler Imaging on Transthoracic ECHO/N. Singh, S. Shah, V. Ly, H. Ojeda-Martinez, M.R. Al Ajam, Brooklyn, NY, p.A2121

P138 Relationship of Interferon Beta Use in Multiple Sclerosis and Development of Pulmonary Arterial Hypertension/Z. Safdar, Houston, TX, p.A2122

P139 Riociguat in Pulmonary Arterial Hypertension (PAH): Evaluation of Abbreviated Versions of the ESC/ERS Risk Assessment Tool in PATENT-2/M. Humbert, H.W. Farber, H.-A. Ghofrani, D. Busse, C. Meier, M.M. Hoeper, Le Kremlin-Bicêtre, France, p.A2123

P140 A Modified Risk Assessment Score for Pulmonary Arterial Hypertension/W. Xiong, M. Xu, L. Wang, J. Guo, J. Liu, Shanghai, China, p.A2124

Facilitator: A. Sweatt, MD, Stanford, CA

P141 Prognostic Role of DLCO and FVC/DLCO Ratio in Patients with Systemic Sclerosis Related Pulmonary Arterial Hypertension/N. Diab, V. Mercurio, R.L. Damico, T.M. Kolb, S.C. Mathai, P.M. Hassoun, Baltimore, MD, p.A2125

P142 Hypoxaemia Cause or Consequence of Pulmonary Hypertension/S. Walsh, H. Clare, C. Minnock, S.G. Gaine, B.N. McCullagh, Dublin, Ireland, p.A2126

P143 Asymmetric Dimethylarginine and Symmetric Dimethylarginine as Novel Biomarkers in Patients with Pulmonary (Arterial) Hypertension/A. Swaminathan, Y. Lokhnygina, H. Zhu, K. Kennedy, S.N. Mason, Z. Kelleher, B. Fee, A. Poms, V.F. Tapson, T.J. McMahon, Durham, NC, p.A2127

P144 Variation in Pulmonary Capillary Wedge Pressure Tracings; Are Pressures Lower than We Think?/S. Johnson, E. Pomerantsev, A. Witkin, J.M. Rodriguez-Lopez, R. Channick, Boston, MA, p.A2128

P145 Sex Differences in Pulmonary Arterial Hypertension in Patients with Adult Congenital Heart Disease -A Nationwide Collaborative Study/R. Konno, S. Tatebe, Y. Sakata, K. Sugimura, K. Satoh, T. Shiroto, O. Adachi, M. Kimura, S. Tateno, N. Hirouchi, K. Oyama, Y. Saiki, H. Shimokawa, Sendai, Japan, p.A2129

P146 The United States Pulmonary Hypertension Scientific Registry (USPHSR): Preliminary Genomic Data/R.L. Benza, W. Chung, G. Elliott, A.E. Frost, M. Pauciulo, E.D. Austin, H.W. Farber, D.B. Badesch, J. Badlam, C. Yu, A. Poms, K. Feldkircher, W.C. Nichols, Pittsburgh, PA, p.A2130

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- P147 Hemodynamic Response to Provocative Maneuvers During Right Heart Catheterization/A.** Arunachalam, A. Bhattacharyya, F. Qadir, R. Khan, T. Naal, B.J. Abuhalimeh, A.R. Tonelli, N.F. Chaisson, Cleveland, OH, p.A2131
- P148 Pulmonary Artery Aneurysm: A 10 Year Community Hospital Experience/S.** Chaudhary, A. Wahab, A. Ayaz, S. Dukkupati, W. Alshweiat, R. Kakarala, Flint, MI, p.A2132
- Facilitator:** N. Al-Naamani, MD, MS, Philadelphia, PA
- P149 Virtual Simulation Improves Clinical Decision-Making in PAH/J.** Spyropoulos, K. Hanley, Purchase, NY, p.A2133
- P150 Heterogeneity in Lung 18F-FDG Uptake in Precapillary Pulmonary Hypertension/J.** Osorio, O. Tura-Ceide, J. Pavia, F. Lomeña, I. Vollmer, I. Blanco, J. Ruiz-Cabello, S. España, M. Castellà, Y. Torralba, L. Sebastián, L. Piccari, C. Bonjoch, V. Peinado, J.A. Barberà, Barcelona, Spain, p.A2134
- P151 Incidence Of Unrecognized Pulmonary Arterial Hypertension In Hospitalized Patients Undergoing Echocardiography/A.L.** Mora Carpio, A. Goertz, M.C. Rodriguez Ziccardi, J. Serrins, J.M. Stempel, A. Niroula, A.M.P. Quintos, M. Rives-Sanchez, G.S. Pressman, S. Sharma, Philadelphia, PA, p.A2135
- P152 Gender Differences in Risk Factors Associated with Pulmonary Artery Systolic Pressure in the Jackson Heart Study/S.** Lakshmanan, M.D. Jankowich, W.-C. Wu, C. Blackshear, S. Abbasi, G. Choudhary, Providence, RI, p.A2136
- P153 Improving Appropriate Treatment of PAH: Success of Online CME/J.** Spyropoulos, S. Hughes, Purchase, NY, p.A2137
- P154 Frequency of Palliative Care Referrals in Newly Diagnosed Pulmonary Arterial Hypertension (PAH): The Pulmonary Hypertension Association Registry/M.P.** Gray, R. Wright, R.M. Khair, D.B. Badesch, S. Bartolome, K. Boyle, T.M. Bull, M.M. Chakinala, T. De Marco, J.M. Elwing, J.P. Feldman, H.J.J. Ford, R.P. Frantz, D.C. Grinnan, D. Grinnan, J.R. Klinger, M.R. Lammi, J.W. McConnell, E.B. Rosenzweig, J.R. Runo, J.S. Sager, O.A. Shlobin, T. Thenappan, C.E. Ventetuolo, R.J. White, T.L. Williamson, R.T. Zamanian, S.C. Mathai, Silver Spring, MD, p.A2138
- P155 Feasibility of Non-Invasive Evaluation of Autonomic Control in Patients with Severe Hypertrophic Cardiomyopathy During Normal and Paced Breathing/D.** Konecny, T. Konecny, J. Bukartyk, Y. Koshino, S.R. Ommen, P. Brady, Manhattan Beach, CA, p.A2139
- P156 Improving Adherence to Pulmonary Hypertension Screening in Patients with Systemic Sclerosis: Overcoming the Provider-Level Barriers/G.** Wigger, C. Lebeck-Lee, S. Cogorno, J.M. Elwing, M.A. Zafar, Cincinnati, OH, p.A2140
- P157 Lower Dehydroepiandrosterone-Sulfate Levels Predict Disease and Worse Outcomes in Post-Menopausal Women with Pulmonary Arterial Hypertension/C.E.** Ventetuolo, G. Baird, C.L. Archer-Chicko, R.G. Barr, D. Bluemke, A. Foderaro, J.S. Fritz, N.S. Hill, S.M. Kawut, J.R. Klinger, J.A. Lima, C. Mullin, P. Ouyang, H. Palevsky, A. Palmisciano, D. Pinder, I.R. Preston, K.E. Roberts, K.A. Smith, T. Walsh, M.E. Whitehall, Providence, RI, p.A7675

THEMATIC POSTER SESSION

A65 RIDE THE WILD SURF: RV FUNCTION AND EXERCISE RESPONSES IN PULMONARY HYPERTENSION

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area B (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.**Discussion:** 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators**Facilitator:** M.G. Risbano, MD, MA, Pittsburgh, PA

- P159 Correlation Between Estimated Right Atrial Pressure and BNP in Pulmonary Hypertension (CRAB-PH)/S.** Samant, R.B. Uddo, H. Tran, B.P. deBoisblanc, S. Saito, F. Helmcke, L. Saketkoo, M.R. Lammi, New Orleans, LA, p.A2141
- P160 Right Ventricular Longitudinal Peak Strain as a Predictor of Clinical Decompensation: A Single-Center Prospective Study/P.** Rajaram, B.L. White, M.A. Pernetz, A. Trammell, M.R. Fisher, Atlanta, GA, p.A2142
- P161 Markers of Diastolic Dysfunction Correlate with Filling Pressures on Right Heart Catheterization During Leg Raise in a Mixed Population/R.** Zou, R. Belecanech, J. Cavalcante, M. Simon, W.D. Wallace, S.M. Nouriaie, S.Y. Chan, M.G. Risbano, Pittsburgh, PA, p.A2143
- P162 The Minimal Important Difference of the Tricuspid Annular Plane Systolic Excursion in Scleroderma-Associated Pulmonary Arterial Hypertension/R.** Khair, M. Mukherjee, T.M. Kolb, R.L. Damico, P.M. Hassoun, R.T. Zamanian, R.J. Tedford, T. Houston, T. Sato, E. Pullins, S.L. Zimmerman, O.A. Minai, F. Torres, R. Girgis, K.M. Chin, S.C. Mathai, Baltimore, MD, p.A2144
- P163 Type-1 Cardiorenal Syndrome in Isolated Right Heart Failure: A Retrospective Analysis/G.S.** Thind, Kalamazoo, MI, p.A2145
- P164 Tricuspid Annular Plane Systolic Excursion for Evaluation of Severity of Disease in Pulmonary Arterial Hypertension with Congenital Heart Disease/X.** Sun, Shang Hai, China, p.A2146
- Facilitator:** H.J. Bogaard, MD, PhD, Amsterdam, Netherlands
- P165 Effect of Positional Echocardiogram on Right-Sided Hemodynamics in Patients with Pectus Excavatum/R.** Arsanjani, D.E. Jaroszewski, L. Ellmauer, M. Radavich, F. Mookadam, Scottsdale, AZ, p.A2147
- P166 Reversible Right Ventricular Remodeling and Contractility as a Prognosis Factor in Pulmonary Hypertension/B.** Lamia, P. Bonnet, T. Lambert, L.C. Molano, C. Viacroze, J. Quieffin, A. Cuvelier, J.F. Muir, R. Naeije, Rouen, France, p.A2148
- P167 Submaximum Exercise Testing to Evaluate Outcomes of Pulmonary Vasodilator Therapy in PAH/S.** Segrera, P. Joseph, J. Tracy, A.B. Waxman, D.M. Systrom, Boston, MA, p.A2149

- P168** **Physical Activity Measured by an Accelerometer to Monitor Patients with Pulmonary Arterial Hypertension**/S. Sehgal, A. Chowdhury, F. Rabih, A. Gadre, M.M. Park, M. Li, X. Wang, K.B. Highland, Philadelphia, PA, p.A2150
- P169** **Does Accelerometry Provide Accurate Real Time Information to Evaluate and Follow-Up Patients with Pulmonary Artery Hypertension?**/U. Krishnan, E. Rosenzweig, F. Koli, G. Valencia Villeda, A. Katiyal, New York, NY, p.A2151
- P170** **Prognostic Implications of Cardiopulmonary Exercise Testing in Congenital Heart Disease Associated with Pulmonary Arterial Hypertension**/H. Zhang, Y.-Y. He, L. Wang, Z. Lv, A. Jiang, X. Xu, J. Iremonger, R. Thompson, A. Rothman, A. Lawrie, Z.-C. Jing, Beijing, China, p.A7676

THEMATIC POSTER SESSION

A66 PULMONARY REHABILITATION: CLINICAL STUDIES IN COPD

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area E (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: R.S. Novitch, MD, White Plains, NY

- P487** **The Home COPD and Open Ventilation Evaluation Study (HOPE)**/C. Landon, R. Gregg, A.J. Newman, A. Thompson, Ventura, CA, p.A2152
- P488** **Response of a Simple Functional Capacity Test to Home-Based Exercise Training in Chronic Obstructive Pulmonary Disease**/R. Barker, C.M. Nolan, S.E. Jones, S. Patel, H.Y. Kwan, S. Kon, M. Farquhar, M. Maddocks, W. Man, Harefield, United Kingdom, p.A2153
- P489** **The Impact of Pulmonary Rehabilitation on People with Mild Chronic Obstructive Pulmonary Disease: A Randomised Controlled Trial**/A. Lahham, C.F. McDonald, N.S. Cox, S. Rawlings, A. Nichols, R. Moore, A. Liacos, A.E. Holland, Melbourne, Australia, p.A2154
- P490** **Inhalation Technique of Patients with Obstructive Diseases and History of Exacerbations**/D. Zujovic, V. Zugic, Belgrade, Serbia, p.A2155
- P491** **Effectiveness Of Supplemental Oxygen During Pulmonary Rehabilitation**/H.-F. Hsiao, H.-Y. Cho, C.C. Huang, Y.-H. Chen, H.-L. Lin, Taoyuan, Taiwan, p.A2156
- P492** **Pulmonary Rehabilitation Does Not Improve Objective Measures of Sleep Quality in People with Chronic Obstructive Pulmonary Disease**/N.S. Cox, V. Pepin, A. Burge, A. Mahal, C.J. Hill, A. Lee, R. Moore, C. Nicolson, P. O'Halloran, A. Lahham, R. Gillies, C.F. McDonald, A.E. Holland, Melbourne, Australia, p.A2157
- P493** **Effects of Age on Pulmonary Rehabilitation Outcomes in Patients with COPD - a Retrospective Analysis**/T. Schneeberger, R. Gloeckl, I. Jarosch, K. Kenn, A.R. Koczulla, Schoenau am Koenigssee, Germany, p.A2158
- Facilitator:** E.N. Schachter, MD, New York, NY
- P494** **Can Pulmonary Rehabilitation Increase Rectus Femoris Dimension in COPD?**/D. Djondo, C. Jelinek, J. Butler, S. O'Connell, M.J. Tobin, H.S. Shaikh, E.G. Collins, F. Laghi, Hines, IL, p.A2159
- P495** **Short and Long Term Effects of Exacerbations on Functional Status in Patients with COPD - A Systematic Review**/C. Burtin, M. Barusso, J. De Brandt, M.A. Spruit, Diepenbeek, Belgium, p.A2160
- P496** **Management of COPD Via a Clinical Guidance System: 16th Year of a Continuous Improvement Model**/B.L. Tiep, M. Barnett, R.R. Carter, R. Murray, Monrovia, CA, p.A2161
- P497** **History of Cardiovascular Disease and Cardiovascular Risk in People with COPD**/A. Lemson, A.M. Al rajah, H. Ridsdale, N. Ochei, B. Nwaneri, N.J. Orr, J. Brown, J.R. Hurst, Y.S. Aldabayan, London, United Kingdom, p.A2162
- P498** **Community Based Pulmonary Rehabilitation Improves Individuals and Forms Part of an Overall Strategy to Keep COPD Patients Well**/M.C. Apps, K.-A. Keeling, C. Goodrich, H. Olympio-Anang, I. Young, A. Kopacz, Billericay, Essex, United Kingdom, p.A2163
- P499** **Pulmonary Rehabilitation and Cardiovascular Risk in COPD**/Y. Aldabayan, A.M. Al rajah, A. Lemson, H. Ridsdale, N. Ochei, B. Nwaneri, N.J. Orr, J. Brown, J.R. Hurst, London, United Kingdom, p.A2164
- P500** **Nutritional Assessments and Obstructive Airways Disease: A Systematic Review**/R. Lam, E.J. Caraher, M. Sunseri, S.H. Haider, S. Kwon, G. Crowley, A. Nolan, New York City, NY, p.A2165
- Facilitator:** T.C. Harvey-Dunstan, MSc, Leicester, United Kingdom
- P501** **Cultural Diversity in Pulmonary Rehabilitation: How Diverse Is It Really?**/F. Blackstock, K. Harris, B. McCarren, C. Tang, Penrith, Australia, p.A2166
- P502** **Barriers and Facilitators to Low-Intensity Pulmonary Rehabilitation in a 'Safety-Net' Setting**/V. Surapaneni, J. DeVore, E.C. Patrick, G. Su, N. Thakur, San Francisco, CA, p.A2167
- P503** **Do Physiotherapy and Rehabilitation Students Want to Be a Cardiopulmonary Physiotherapist?**/E. Safran, H.N. Gürses, Z. Husbay, H. Aksu, O. Bingöl, Istanbul, Turkey, p.A2168
- P504** **Long-Term Use of Guaifenesin in a Patient with COPD, Chronic Bronchitis and Multiple Recurring Infections**/T. Hooker, Brandon, FL, p.A2169
- P505** **COPD Rehabilitation Program**/S. Patel, K. Gafoor, H.M. Belete, M. Oron, V. Shah, E.L. Altschul, J. Homan, B.A. Mina, New York, NY, p.A2170
- P506** **Pranayama Improves Inflammatory Profile in COPD**/A. Talwar, A. Trivedi, N. Akhtar, R. Guleria, G. Bade, D. Ghosh, New Delhi, India, p.A2171

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

THEMATIC POSTER SESSION

A67 PULMONARY REHABILITATION IN NON-COPD AND LUNG TRANSPLANTATION

9:15 a.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER

Area E (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.**Discussion:** 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators**Facilitator:** N.J. Greening, MBBS, PhD, Leicester, United Kingdom**P508 Skeletal Muscle Wasting as Predictor of Future Cystic Fibrosis (CF) Exacerbations/A.A. Jaitovich, B. Saha, M.M.H.S. Khan, C. Dumas, J. Fantauzzi, T.C. Smith, M.A. Judson, Albany, NY, p.A2172****P509 Prevalence and Impact of Extrapulmonary Deficits on Daily Physical Activity in Fibrotic Interstitial Lung Disease/S.A. Hur, S.A. Guler, P.G. Camp, J.A. Guenette, N. Khalil, C.J. Ryerson, Vancouver, Canada, p.A2173****P510 Barriers to Physical Activity in Patients with Chronic Respiratory Diseases/M.D.M. Reboredo, L.M.F. Lucinda, G.D. Yecker, D.R. Brega, J.S. Pires, L.A. Oliveira, R.B. Bem, G. Coquito, B.V. Pinheiro, Juiz de Fora, Brazil, p.A2174****P511 Successful Resolution of a Refractory Parapneumonic Pleural Effusion with Intrapulmonary Percussive Ventilation in a Myotonic Dystrophy Type 1 Patient/C. Conti, E. Falcier, E. Roma, B. Garabelli, E. Mollar, M. Iatomasi, S. Lupone, E. De Mattia, A. Zanolini, S. Fieschi, F. Rao, V.A. Sansone, Milano, Italy, p.A2175****P512 Improvement of Peak Cough Flow After the Application of a Mechanical In-Exsufflator in Patients with Neuromuscular Disease and Pneumonia/W. Choi, J.H. Jung, H.J. Oh, J.W. Lee, D.H. Kim, S.-W. Kang, Seoul, Korea, Republic of, p.A2176****P513 Effects of Kinesio Taping Method on Pulmonary Function, Respiratory Muscle Strength and Functional Capacity in Patients with Chronic Heart Failure/B. Naci, R. Demir, Z. Yigit, G. Baltaci, H.N. Gurses, Istanbul, Turkey, p.A2177****P514 Ghrelin, Leptin, Adiponectin and HIF- α 1 Expression in Hypoxia and Its Effect for Weight Loss in Obesity/N.C. Netzer, L.K. Rausch, S. Pramsöhler, Bad Aibling, Germany, p.A2178****Facilitator:** C.M. Nolan, MSc, Harefield, United Kingdom**P515 Bariatric Surgery Reduces Aerobic Exercise Capacity/V. Faoro, F. Kevin, N. Zhou, H. Dereppe, Brussels, Belgium, p.A2179****P516 Effects of Physical Exercise Training on Nocturnal Symptoms and Sleep Quality in Adults with Asthma: A Systematic Review/C. de Oliveira Francisco, S.A. Bhatawadekar, J. Babineau, W.D. Reid, A. Yadollahi, Toronto, Canada, p.A2180****P517 Changes in Functional Quality and Quality of Life in Patients with Restrictive Lung Disease in a Pulmonary Rehabilitation Programme/N. Torres del Castillo, J. Betancourt Peña, J.C. Avila Valencia, P. Toussaint, Cali, Colombia, p.A2181****P518 Non-Invasive Ventilation Increases Peak Minute Ventilation and Vo2 Max During Whole Body Functional Electrical Stimulation Rowing in an Individual with C5 Spinal Cord Injury/I. Vivodtzev, J.W. Morgan, J.A. Taylor, Cambridge, MA, p.A2182****P519 European Respiratory Society Task Force: Exercise Training and Rehabilitation in Patients with Severe Chronic Pulmonary Hypertension/S. Samant, R.B. Uddo, H. Tran, B.P. deBoisblanc, S. Saito, F. Helmcke, L. Saketkoo, M.R. Lammi, New Orleans, LA, p.A2183****P520 Effects of Respiratory Rate and Dynamic Hyperinflation on Respiratory System Resistance in Patients with Bronchiectasis/R. Moroli, D.O. Santos, L. Perossi, M. Holtz, J.A. Baddini-Martinez, A. Gastaldi, Ribeirao Preto, Brazil, p.A2184****P521 Attain Health - Integrating Telehealth and Integrative Health Coaching in Cystic Fibrosis Care/C. Landon, K.Q. Porco, Ventura, CA, p.A2185****Facilitator:** N.S. Cox, PhD, PT, Melbourne, Australia**P522 Home-Based Pulmonary Rehabilitation in Rural Miners with Pneumoconiosis/K. Matson, J. Walker, K. Yake, X. Wang, W. Kelley, A. Sood, S.C. Lareau, Champaign, IL, p.A2186****P523 Asthma Mimickers: An Everyday Challenge/M.M. Munawar, V. Kodadhala, W. Ahmed, W. Hill, F.T. Ogundipe, A. Thomas, Washington, DC, p.A2187****P524 Effects of a Pulmonary Rehabilitation Program in Children with Cystic Fibrosis/Y.R. De Souza, M. Neves, R. Araujo, T. Antonyelle, T. Katsivalis, R. Vigni, J.L.M. Martins Junior, P. Pereira, Rio de Janeiro, Brazil, p.A2188****P525 Pulmonary Function Measurements in Patients with Major Burn Injury and Smoke Inhalation/S. Joo, Seoul, Republic of Korea, Korea, p.A2189****P526 Body Composition Is Associated with Cumulative Deficits Frailty Index and Metabolic Risk Factors During Lung Transplant Candidacy Evaluation/D. Rozenberg, C.E. Orsso, R.A. Varughese, N. Chowdhury, S. Mathur, L.G. Singer, Toronto, Canada, p.A2190****P527 Lung Transplant Recovery Outcomes- Predictors Using a Comprehensive Rehabilitation Program at the Center of Life for Thoracic Transplant/C. DiPerna, L. Tucker, C. Shank, A. Kettler, D. Rice, C. Terry, D. Roe, C.A. Hage, Indianapolis, IN, p.A2191****P528 An Unusual Case of Mycobacterial Wound Infection/P. Sharma, B. Smith, M. Yassin, Pittsburgh, PA, p.A2192**

THEMATIC POSTER SESSION

A68 MOLECULAR DETERMINANTS OF REMODELING IN LUNG FIBROSIS

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area G (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: B. Zhou, PhD, Los Angeles, CA

- P623 Lung Mesenchymal Stem Cell-Derived PGE2 Increases the Secretion of Anti-Fibrotic HGF by IPF Fibroblasts/P.** Khan, A. Gazdhar, T. Geiser, M. Roth, M. Tamm, K.E. Hostettler, Basel, Switzerland, p.A2193
- P624 Programmed Death-1 Pathway Blockade Reduces Pulmonary Fibrosis Following Bleomycin Administration/G.** Lee, Nashville, TN, p.A2194
- P625 R-Spondin 2 Is Upregulated in Idiopathic Pulmonary Fibrosis and Affects Fibroblasts Behavior/A.** Munguia, Y.I. Balderas-Martinez, L.C. Becerril, M. Checa, B. Ortiz, A. Pardo, M. Selman, Mexico City, Mexico, p.A2195
- P626 Transforming Growth Factor Beta 1 (TGF- β 1) Induced Profound Methylation Changes in Fibroblasts, and Revealed an Unexpected Role of Homer1 in Idiopathic Pulmonary Fibrosis/M.** Negreros, J.S. Hagood, C. Espinoza, Y.I. Balderas-Martinez, M. Selman, A. Pardo, Mexico City, Mexico, p.A2196
- P627 The Ovarian Cancer G-Protein Coupled Receptor 1 Protects Against the Development of Pulmonary Fibrosis/D.** Nagel, W.-Y. Ku, R. Clough, W. Narrow, P.J. Sime, R.M. Kottmann, Rochester, NY, p.A2197
- P628 Inhibiting HDAC6/RUNX2 Axis as a New Therapeutic Strategy in Idiopathic Pulmonary Fibrosis/G.** Vitry, R. Paradis, A. Bourgeois, D.R. Gendron, D. Marsolais, S. Provencher, R. Paulin, S. Bonnet, Québec, Canada, p.A2198
- P629 The Ubiquitin-Proteasome System Regulates Mitochondria Quality Control in Alveolar Epithelial Type II Cells After Bleomycin/H.** Shaghghi, D. Schriener, X. Hong, D. Sales, V. Desai, A. Bhushan, M.I. Ramirez, R.S. Summer, F. Romero, Philadelphia, PA, p.A2199
- P630 PTEN-Induced Putative Kinase 1 and Adenine Nucleotide Translocase 2 Affect Mitochondrial Permeability Transition Pore Opening in Alveolar Epithelial Cells/D.** Zank, M. Bueno, J. Sembrat, C.M. St Croix, M. Rojas, C. Chu, A.L. Mora, Pittsburgh, PA, p.A2200

Facilitator: B.B. Moore, PhD, Ann Arbor, MI

- P631 Role for Defensins in Epithelial Injury and Fibrosis/R.** Vittal, E. Cipolla, Ann Arbor, MI, p.A2201

- P632 Overexpression of V-ATPase B2 Prevent Bleomycin Induced Lung Injury/Fibrosis by Attenuate Lysosomal Membrane Permeabilization(LMP) And Increasing Collagen Degradation/S.**-W. Park, M.-S. Kim, A.-R. Baek, J.-H. Lee, A.-S. Jang, D.-J. Kim, C.-S. Park, bucheon, Korea, Republic of, p.A2202
- P633 MiR-33, a MicroRNA Family Linking Metabolic Pathways and Fibrosis in Lung/F.** Ahangari, N.L. Price, G. Ibarra, G. Yu, J.C. Schupp, C. Fernandez-Hernando2, N. Kaminski, New Haven, CT, p.A2203
- P634 FK506 Binding Protein 11, a Plasma Cell-Specific Antibody Folding Catalyst, Is Increased in Pulmonary Fibrosis/S.** Preisendörfer, L. Knüppel, Y. Ishikawa, L. Binzenhöfer, I.E. Fernandez, B.M. Juan-Guardela, C. Ruppert, A. Guenther, R. Hatz, J. Behr, N. Kaminski, A. Schepers, H.P. Bächinger, O. Eickelberg, C.A. Staab-Weijnitz, Munich, Germany, p.A2204
- P635 The Role of HuR in Myofibroblast Differentiation: Implication for Pulmonary Fibrosis/F.**F. AL-Habeeb, P.K. Nair, I. Azielos, C. Baglole, Montreal, Canada, p.A2205
- P636 Organotypic In Vitro Human Airway Models Can Recapitulate Aspects of Pulmonary Fibrosis/A.** Maione, G.R. Jackson, O. O'Connell, J. Foisy, M. Klausner, P. Hayden, Ashland, MA, p.A2206
- P637 Galectin-3 Promotes Transforming Growth Factor b (TGFb) Activity in the Development of Idiopathic Pulmonary Fibrosis/N.**R. Parmar, A.L. Tatler, A. MacKinnon, P. Ford, R.G. Jenkins, Nottingham, United Kingdom, p.A2207
- P638 mTORC1 Controls Cellular Senescence in Alveolar Epithelial Type II Cells/R.**S. Summer, H. Shaghghi, D. Schriener, X. Hong, D. Sales, V. Desai, A. Bhushan, M. Ramirez, F. Romero, Philadelphia, PA, p.A2208

Facilitator: P. Chen, MD, Los Angeles, CA

- P639 The Matrix-Fibroblast Interplay: Nintedanib and Pirfenidone Modulate the Effect of IPF Fibroblast Conditioned Matrix on Normal Fibroblast Phenotype/G.** Epstein Shochet, L. Wollin, D. Shitrit, Kfar Saba, Israel, p.A2209
- P640 miR150 Is Upregulated by TGF-Beta and Promotes Pulmonary Fibrosis Through Downregulation of OGR1 Expression/D.** Nagel, J.L. Judge, R. Clough, W. Narrow, P.J. Sime, R.M. Kottmann, Rochester, NY, p.A2210
- P641 Nuclear Heparan Sulfate Upregulates Pro-Fibrotic Gene Expression And.is Abundant in Pulmonary Fibroblasts from IPF Patients/W.**B. LaRiviere, S.M. Haeger, S. Liao, A.R. Lara, E.P. Schmidt, Y. Yang, Aurora, CO, p.A2211
- P642 FAK-Related Non-Kinase Attenuates Lung Fibrosis Through Inhibition of Matrix Remodeling/P.** Che, L. Yu, X.-K. Zhao, G. Cai, V.J. Thannickal, M.A. Olman, Q. Ding, Birmingham, AL, p.A2212
- P643 Pulmonary Fibrosis: The Alveolar Type I Cell Hypothesis/R.**J. Mason, K. Correll, R. Zemans, E.F. Redente, Denver, CO, p.A2213

P644 Contribution of the Mitochondrial Intrinsic Pathway to the Apoptosis Resistance Exhibited by Fibroblasts from Idiopathic Pulmonary Fibrosis/E.R. Luis-García, C. Becerril, J. Pedraza-Chaverri, M. Orozco-Ibarra, E. Aparicio-Trejo, C. Mendoza-Milla, A. Salgado-Aguayo, M. Maldonado, A. Pardo, M. Selman, Mexico City, Mexico, p.A2214

P645 A Causative Role for Inflammatory Peroxidase Enzymes in Bleomycin-Induced Pulmonary Fibrosis/C. DiFelice, I. Zinonos, M.O. DeNichilo, A. Evdokiou, V. Panagopoulos, Adelaide, Australia, p.A2215

P646 Characterization of Shared Molecular Pathways in Idiopathic Pulmonary Fibrosis and Depression/S.E. Smith, S. Kanekar, J. Lee, A. Plante, P. Renshaw, M.B. Scholand, Salt Lake City, UT, p.A2216

Facilitator: S.K. Madala, PhD, Cincinnati, OH

P647 Reduced Expression of BCL9 and Disruption of the Beta-Catenin-BCL9 Complex May Affect the Regenerative Capacity of Alveolar Epithelial Cells/K. Rydell-Tormanen, G. Westergren Thorsson, Lund, Sweden, p.A2217

P648 Aberrant Resistance of IPF Fibroblasts to Ionizing Radiation Induced Apoptosis Via FoxM1 Alteration/R. Nho, J. Im, J. Lawrence, Minneapolis, MN, p.A2218

P649 Mast Cell Exosomes in Cell-to-Cell Communication: Role in Pulmonary Fibrosis/C.F. Risquez Cordovez, B. Summers, A.R. Savage, R.J. Kaner, R.B. Silver, New York, NY, p.A2219

P650 Anti-Fibrotic Effects of Azithromycin in Human Lung Fibroblasts from Idiopathic Pulmonary Fibrosis Patients Compared to Control Fibroblasts/M. Funke, K. Krempaska, R. Schliep, L. Knudsen, T.K. Geiser, Bern, Switzerland, p.A2220

P651 Resolution of Pulmonary Fibrosis by a Caveolin-1-Derived Peptide/L. Fan, V. Gopu, N. Tiwari, A.S. Marudamuthu, S.K. Shetty, Y.P. Bhandary, M.R. Nagaraja, V. Radhakrishnan, A.B. Watts, R.O. Williams III, S. Idell, S. Shetty, Tyler, TX, p.A2221

P652 Oropharyngeal Bleomycin Upregulates Drug Efflux Transporters and Reduces Lung Exposure to Substrate Compounds: A Pitfall for Pharmacological Studies on Pulmonary Fibrosis/J. Park, N.J. Coffey, S. Bodine, W.A. Gahl, M.C.V. Malicdan, B.R. Gochuico, G. Kunos, R. Cinar, Rockville, MD, p.A2222

P653 A Role for Myocardin Related Transcription Factor A in Multi-Organ Fibrosis/A. Rackow, T.H. Thatcher, C.F. Woeller, E.M. Small, R.P. Phipps, P.J. Sime, Rochester, NY, p.A2223

P654 Altered Six1 and BMPR2 in Pulmonary Fibrosis/C. Wilson, S. Collum, A.M. Hernandez, T. Mertens, L. Headley, K. Rajagopal, S.S. Jyothula, H. Karmouty-Quintana, Houston, TX, p.A2224

Facilitator: D. Kass, MD, Pittsburgh, PA

P655 Biomarkers of Hypoxia-Driven Cardiopulmonary Fibrosis/E.J. Miller, K.R. Ayyasola, S.C. Donnelly, M.A. Ahmed, Manhasset, NY, p.A2225

P656 Understanding the Cellular Dysfunction Caused by Pathogenic Surfactant Protein C Mutant I73T/J. Dickens, M.O. Ellis, S.J. Marciniak, Cambridge, United Kingdom, p.A2226

P657 Potential Mechanisms Underlying TGF-Beta-Mediated Complement Activation in Lung Fibrosis/R. Vittal, A. Fisher, H. Gu, A. Varre, E. Mickler, E. Cipolla, Ann Arbor, MI, p.A2227

P658 Prioritizing Idiopathic Pulmonary Fibrosis Candidate Genes Based on “Guilty by Association” Analysis/Y. Wang, J. Yella, S.K. Madala, A. Jegga, Cincinnati, OH, p.A2228

P659 A Proteomic Analysis of Extracellular Matrix from Idiopathic Pulmonary Fibrosis Patient-Derived Fibroblasts in Response to Transforming Growth Factor β 1/L. Knüppel, J. Merl-Pham, E. Hennen, R. Hatz, J. Behr, O. Eickelberg, S.M. Hauck, C.A. Staab-Weijnitz, Munich, Germany, p.A2229

P660 M10, a 10 Amino Acid Peptide, Regulates the Extracellular Matrix Expression Via a Dual Mechanism in Scleroderma Associated Lung Fibrosis/T. Akter, I. Atanelishvili, R.M. Silver, G.S. Bogatkevich, Charleston, SC, p.A2230

P661 Nuclear Factor of Activated T Cells 2 Contributes to Pulmonary Fibrosis in a Bleomycin Induced Lung Injury Model/P. Cao, K. Misumi, N.M. Walker, R. Braeuer, V.N. Lama, Ann Arbor, MI, p.A2231

Facilitator: N.K. Sandbo, MD, Madison, WI

P662 Proteomic Analysis of Plasma and Tissue Samples for the Identification of Pharmacodynamic Biomarkers in IPF/M. Decaris, I. Pike, P.J. Wolters, M. Bremang, R. Gaster, P. Andre, S. Turner, Redwood City, CA, p.A2232

P663 Myocardin Regulates Mesothelial-Mesenchymal Transition of Human Pleural Mesothelial Cells/M. Ikebe, T.A. Tucker, Y. Tsukasaki, S. Mitsuhashi, T. Sakai, R. Ikebe, A. Jeffers, S. Owens, W. Qin, S. Idell, Tyler, TX, p.A2233

P664 Glycogen Synthase Kinase-3 β Inhibition Attenuates the Progression of Pulmonary Fibrosis/T.A. Tucker, A. Jeffers, O.A. Ogunsakin, S. Owens, A. Fergis, W. Qin, K. Koenig, S. Idell, Tyler, TX, p.A2234

P665 Human Anti- Wnt1-Inducible Signaling Protein (WISP) 1 Antibodies Attenuate Experimental Lung Fibrosis Ex Vivo/M. Lehmann, S. Klee, G. Kaufmann, M. Koenigshoff, München, Germany, p.A2235

P666 Downregulation of Cleavage Factor 25 by TGF β 1 Contributes to Pulmonary Fibrosis Through Alternative Polyadenylation of mRNAs/J. Ko, T.W. Mills, T. Mertens, N.-Y. Chen, J. Huang, F. Luo, J. Molina, K. Volcik, Y. Zhou, M.R. Blackburn, Houston, TX, p.A2236

P667 PD-L1 Expression in IPF Tissue Samples/D. Jovanovic, J. Markovic, S. Glumac, S. Skodric-Radojevic, V. Skodric-Trifunovic, M. Roksandic-Milenkovic, I. Vukanic, S. Popevic, N. Samardzic, M. Kontic, V. Ceriman, Belgrade, Serbia, p.A7677

P668 Activation of p130/E2F4 Promotes Differentiation of Bone Marrow-Derived Mesenchymal Stem Cells into Type II Alveolar Epithelial Cells/X. Zhang, F. Guo, J. Chen, M. Xue, A. Liu, H. Qiu, Nanjing, China, p.A7678

THEMATIC POSTER SESSION

A69 NOVEL SIGNALING CASCADES IN LUNG INJURY, INFLAMMATION, AND REPAIR

9:15 a.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER
Area G (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
 12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: A. Schwingshackl, MD, PhD, Los Angeles, CA

- P670 Interferon Regulatory Factor 2 Plays a Critical Role in Differential Activation of Macrophages/H. Cui, S. Banerjee, N. Xie, S. Guo, V.J. Thannickal, G. Liu, Birmingham, AL, p.A2237**
- P671 Pro-Inflammatory Effects of Cell-Free Hemoglobin on Alveolar Macrophages Are Mediated by TLR4/C.M. Shaver, S.R. Landstreet, K.R. Schaaf, L.B. Ware, J.A. Bastarache, Nashville, TN, p.A2238**
- P672 Variation of SiglecF Expression in Sessile Alveolar Macrophages/L. Li, G.A. Gusarova, N. Islam, J. Bhattacharya, New York, NY, p.A2239**
- P673 Disruption of the Genes for NAD(P)H Quinone Reductase (NQO1) or NQO2 Leads to Greater Susceptibility than Wild Type Mice to Hyperoxic Lung Injury In Vivo: Protection by β -Naphthoflavone (BNF) Administration/B. Moorthy, X.I. Courouclis, K. Lingappan, L. Wang, W. Jiang, Houston, TX, p.A2240**
- P674 Stanniocalcin-1 Promotes Angiogenesis During the Resolution of Hyperoxia Induced Acute Lung Injury Through TLR4/Y. Zhang, P. Shan, P.J. Lee, New Haven, CT, p.A2241**
- P675 Modulation of Mechanical Ventilation-Induced Alveolar Epithelial Cell Death Signaling by Underlying Lung Inflammation/H. Nakamura, M.R. Wilson, K. Yao, S. Mumby, I.M. Adcock, M. Takata, B.V. Patel, London, United Kingdom, p.A2242**
- Facilitator:** X. Sun, PhD, San Diego, CA
- P676 A Novel Role of Matrix Metalloproteinase-13 (MMP-13) in Aging and Lung Inflammation/A. Gerber, J. Sonnet, M.P. Goldklang, K. Stearns, E. Arteaga-Solis, J.M. D'Armiento, New York, NY, p.A2243**
- P677 Lung Cell Origin of Endogenous TSG-6 Secretion in Response to Inflammatory Stimuli/K.C. Ni, A. Gill, K.L. March, I. Petrace, Denver, CO, p.A2244**
- P678 Inhalation of MMP Inhibitor Attenuates Lipopolysaccharide (LPS)-Induced Neutrophilic Inflammation in the Lung/R. Xiao, K. Stearns, T. Zelonina, M.P. Goldklang, J.M. D'Armiento, New York, NY, p.A2245**
- P679 Absence of NOD1x2 Increases Pulmonary Inflammation Following Renal Ischemia Reperfusion Injury/S. DeWolf, S. Kasimsetty, A. Hawkes, D.B. McKay, San Diego, CA, p.A2246**
- P680 Toll-Like Receptor 8 (TLR8) Protein Degradation Limits Inflammatory Signaling/J. Evankovich, T. Lear, R.K. Mallampalli, B. Chen, Pittsburgh, PA, p.A2247**

- P681 LPS Reduces SCF-Fbxo9 to Elevate PRMT4 Protein Levels in Lymphocytes in an Acute Lung Injury Model/C. Zou, Y. Lai, X. Li, J. Li, Pittsburgh, PA, p.A2248**

Facilitator: K. Suresh, MD, Baltimore, MD

- P682 Endothelial Mir92a-KLF Signaling in Acute Lung Injury/Y. Fang, R.-T. Huang, D. Wu, O. Myung-Jin, A.Y. Meliton, M. Tirrell, G.M. Mutlu, Chicago, IL, p.A2249**
- P683 Role of Natriuretic Peptide Receptor C in Mediating the Protective Effect of Atrial Natriuretic Peptide on Acute Lung Injury/A. Kumar, C. Dado, J. Braza, J.R. Klinger, E.O. Harrington, Providence, RI, p.A2250**
- P684 FBXO17 Upregulates Akt Activity and Increases Survival of Lung Epithelial Cells/T.L. Suber, I. Nikolli, J. Zhao, R.K. Mallampalli, Y. Zhao, Pittsburgh, PA, p.A2251**
- P685 GAT107, a Novel Alpha7 Acetylcholine Nicotinic Receptor ago-PAM, Attenuates Hyperoxia-Compromised Macrophage Phagocytic Function/A. Gauthier, R. Sitapara, G. Thakur, L. Mantell, Jamaica, NY, p.A2252**
- P686 Adipose Derived Mesenchymal Stem Cell Therapy Is Comparable or Superior to Bone-Marrow Derived on Hypoxia-Induced Lung Injury in Primary Rat Alveolar Epithelial Cells/N. Shologu, D. O'Toole, M. Scully, J.G. Laffey, Galway, Ireland, p.A2253**
- P687 Molecular Regulation of the Stability of SIGIRR in Ubiquitin-Proteasome System/L. Li, J. Wei, S. Li, J. Zhao, Y. Zhao, Pittsburgh, PA, p.A2254**

Facilitator: R. Zemans, MD, Ann Arbor, MI

- P688 Na⁺/H⁺ Exchanger 8 Regulates Alveolar Active Sodium Transport in Heart Failure/Z.S. Azzam, S. Kinaneh, R.M. Ismael-Badarnah, E. Khoury, Y. Kinaneh, J. Khoury, Z. Abassi, Haifa, Israel, p.A2255**
- P689 Eosinophil Protects Against the Onset of Inflammation in Acute Lung Injury/C. Zhu, L. Zhou, Y. Zhao, F. Li, Y. Wu, Y. Wu, Z. Li, M. Li, Q. Weng, Y. Hu, C. Zhang, S. Ying, Z. Chen, H. Shen, W. Li, Hangzhou, China, p.A2256**
- P690 Cell Division Autoantigen 1 Plays a Profibrotic Role by Modulating TGF- β /Smad Signaling Pathway in MRC-5 Model of Lung Fibrosis Secondary to ALI/Y. Ma, X. Tong, H. Fan, B. Dong, Chengdu, China, p.A2257**
- P691 Mass Spectrometric Analysis of ALDH2 Interactome/J. Fukumoto, S. Patil, I. John, S. Krishnamurthy, M. Breitzig, M. Alleyn, H. Hernández-Cuervo, R. Soundararajan, R.F. Lockey, N. Kolliputi, Tampa, FL, p.A2258**
- P692 Mitochondrial Dysfunction in Sepsis-Related Acute Respiratory Distress Syndrome/S. Han, M. Chi, G.S. Budinger, N.S. Chandel, Chicago, IL, p.A2259**
- Facilitator:** N.V. Kolliputi, PhD, Tampa, FL
- P693 Reanalyzing Acute Respiratory Distress Syndrome Associated Genetic Variants in Current Case-Control Studies/J. Wu, Q. Ren, Y. Bai, Y. Ma, H.-L. Ji, Xinxiang, China, p.A2260**

- P694 Functional Genomic Assessment of Ammonia-Induced Acute Lung Injury in Mice**/G.D. Leikauf, T. Martin, K. Ganguly, K. Bein, V. Concel, K.A. Brant, Y.P. Di, S. Upadhyay, J. Fabisiak, Pittsburgh, PA, p.A2261
- P695 Inhaled TRIM72 Protein Protects Ventilation Injury to the Lung Through Injury-Guided Cell Repair**/N. Nagre, X. Cong, H. Ji, J. Schreiber, S. Warren, J.M. Sill, R.D. Hubmayr, X. Zhao, Norfolk, VA, p.A2262
- P696 Tyrosine Nitration of Protein Kinase G-1a Disrupts Cyclic Nucleotide Cross-Talk and Is Involved in the Development of Acute Lung Injury**/E. Zemskov, S. Aggarwal, C. Gross, R. Rafikov, Q. Lu, S.M. Black, Tucson, AZ, p.A2263
- P697 Adult Stem Cells in Combination with Respiratory Assistance Devices Protects Cardiac Mitochondrial Function in A LPS-Induced ARDS Large Animal Model**/D.M. Alvarez, N. Cardenes, E. Kocyildirim, A. Elliott, T. Drabek, J. Sembrat, B. Kimball, P. Aranda-Valderrama, J. Sellares, L. Lagazz, A. Ting, M. Rojas, Pittsburgh, PA, p.A2264
- P698 Surfactant Protein D Modulates the Activation and Differentiation of Endogenous Stem Cells in Lung Injury through Regulation of Notch Signaling Pathway**/G. Wang, Syracuse, NY, p.A2265
- P699 Genome-Wide Analysis Reveals Oxidative DNA Damage as a Transcriptional Regulator of Hypoxia**/C.M. Francis, R.J. Langley, G. Daly, V.M. Pastukh, B. Wang, D. Absher, V.M. King, G.M. Borchert, M.N. Gillespie, Mobile, AL, p.A2266
- P700 Microvesicles Mediate Long-Range Membrane TNF Signalling, Inducing Inflammatory Changes Consistent with Acute Lung Injury**/S. Soni, M.R. Wilson, K.P. O Dea, Y.Y. Tan, E. Abe, M. Takata, London, United Kingdom, p.A7679
- P701 Chemerin Alone or Added to Endothelin-1 Stimulates Rat Pulmonary Vascular Smooth Muscle Cells Proliferation, Migration and Resistance to Apoptosis**/A. Hanthazi, P. Jespers, G. Vegh, C. Dubois, J.-Y. Springael, L. Dewachter, K. Mc Entee, Bruxelles, Belgium, p.A7680
- P702 Major Effect of Oxidative Stress on the Male SP-A1 Type II Cell miRNome**/G. Noutsios, N. Thorenor, X. Zhang, T. Umstead, F. Durrani, D.S. Phelps, J. Floros, Hershey, PA, p.A7681
- Facilitator:** L. Mantell, MD, PhD, East Meadow, NY
- P704 MyD88 Regulates Airway Mucin Secretion Following Agricultural Organic Dust Injury**/J.D. Dickinson, J.M. Sweeter, E.B. Staab, A.J. Nelson, A.M. Jaramillo, B.F. Dickey, J.A. Poole, Omaha, NE, p.A2268
- P705 Urban Particulate Matter Triggers Lung Inflammation Via the ROS-MAPK-NF- κ B Signaling Pathway**/J. Wang, Y. Song, Shanghai, China, p.A2269
- P706 Cigarette Smoke Promotes Lung Macrophage Apoptosis Resistance**/J.L. Casey, L. Gu, J.E. Blalock, J.M. Wells, D.B. Davis, A.B.B. Carter, Birmingham, AL, p.A2270
- P707 Respiratory Health Effects of Non-Volatile Particle Emissions from an Aircraft Turbine Engine**/H. Jonsdottir, M. Delaval, Z. Leni, A. Keller, B.T. Brem, F. Siegerist, D. Schönenberger, H. Burtcher, A. Liati, M. Geiser, Bern, Switzerland, p.A2271
- P708 Cadmium Induces Mucin 8 Expression Via Toll-Like Receptor 4-Mediated Extracellular Signal Related Kinase 1/2 and P38 Mitogen-Activated Protein Kinase in Human Airway Epithelial Cells**/Y.S. Choi, H.G. Na, C.H. Bae, S.-Y. Song, Y.-D. Kim, Daegu, Korea, Republic of, p.A2272
- P709 Hypocapnia Aggravates Hypoxic Inhibition of ENaC in Rat Primary Alveolar Epithelial Cells**/H. Mairbaurl, F. Huber, A. Luetge, M. Sahinoz, E. Ermis-Kaya, E.R. Swenson, Heidelberg, Germany, p.A2273
- Facilitator:** I.K. Sundar, PhD, Rochester, NY
- P710 Exposure to PM2.5 Activates Hypothalamic-Pituitary-Adrenal Axis in Mouse Models and Humans**/Y. Xu, M. Chen, J. Zhou, H. Li, X. Zhang, S. Liang, X. Qin, L. Qiu, Q. Cao, H. Kan, Z. Ying, Shanghai, China, p.A2274
- P711 ROS-Dependent HMGB1 Secretion Upregulates IL-8 in Upper Airway Epithelial Cells Under Hypoxic Condition**/B. Kim, C. Ji-won, H.-J. Min, S.-H. Ahn, J.-H. Yoon, C.-H. Kim, Seoul, Korea, Republic of, p.A2275
- P712 Effect of Titanium Dioxide Nanoparticles (TiO₂ NPs) on the Expression of Mucin Genes in Human Airway Epithelial Cells**/S. Kwak, Y.S. Choi, H.G. Na, C.H. Bae, S.-Y. Song, Y.-D. Kim, Daegu, Korea, Republic of, p.A2276
- P713 Reversal of Carbon Monoxide (CO) Mediated Mitochondrial Dysfunction and Cardiovascular Collapse with Molecularly Engineered Neuroglobin-Based CO Scavenger**/J.J. Rose, Q. Xu, T.N. Bachman, J. Hu, I. Azarov, X.N. Huang, L. Wang, C.G. Corey, D. Guimaraes, C.F. McTiernan, C.P. O'Donnell, A.L. Mora, J. Tejero, S. Shiva, M.T. Gladwin, Pittsburgh, PA, p.A2277
- P714 Mouse Respiratory Mechanics After Exposure to Diesel Particulate Matter of Heavy-Duty Vehicles Complying with Brazilian Emission Standards**/W.A. Zin, F.L. Gondim, M.-L.M. Oliveira, R.S. Araujo, F.S. Cavalcanate, Rio de Janeiro, Brazil, p.A2278
- P715 Pre-Exposure to Titanium Dioxide Nanoparticles Enhances RSV-Induced Airway Barrier Dysfunction**/E. Trapp, T.J. Harford, V. Castranova, G. Piedimonte, F. Rezaee, Cleveland, OH, p.A2279

THEMATIC POSTER SESSION

A70 ENVIRONMENTAL STRESSORS, GASES, AND HOST RESPONSES

9:15 a.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER

Area G (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: L.S. Van Winkle, PhD, Davis, CA

- P716** **Low-Temperature Exposure Suppresses the Production of B Cell Activating Factor Via TLR3 in BEAS-2B Cells/Y. Yoshino, K. Misu, K. Seo, I. Koga, T. Kitazawa, Y. Ota, Tokyo, Japan, p.A2280**
- P717** **In Vitro Toxicity of Particulate Matter Derived from Biomass Cook Stoves Used in Developing Countries/O. Uski, G. Rankin, R. Lindgren, N. Lopez, A.C. Blomberg, A. Muala, J.A. Bosson Damewood, T. Sandstrom, Umea, Sweden, p.A2281**
- P718** **Deletion of CCAAT/Enhancer Binding Protein-a (C/EBPa) Exacerbates Protease/Antiprotease Imbalance and Emphysema Development in Cigarette Smoke Exposed Murine Lung/K. Uemasu, A. Sato, N. Tanabe, K. Tanimura, K. Hasegawa, Y. Hamakawa, T. Mizutani, S. Sato, S. Muro, T. Hirai, Kyoto, Japan, p.A2282**
- P719** **Current Smoking with or Without Chronic Bronchitis Is Independently Associated with Goblet Cell Hyperplasia in Healthy Smokers and COPD Subjects: An Analysis of the SPIROMICS Cohort/J. Kraft, S. Jeong, H. Zhao, M. Kesimer, R.C. Boucher, S. Christenson, A.P. Comellas, L.A. Bateman, A. Britz, C.M. Doerschuk, M.T. Dransfield, M.K. Han, R. Paine, C.B. Cooper, Y.J. Huang, I. Barjaktarevic, W.C. Moore, C.P. Nguyen, C. Morris, R.G. Crystal, J.L. Curtis, A.T. Hastie, R.J. Kaner, W.K. O'Neal, V.E. Ortega, S.P. Peters, L. Postow, S.I. Rennard, P. Woodruff, V. Kim, Philadelphia, PA, p.A2283**
- P720** **Progesterone Attenuates Airway Remodeling & Glucocorticoid Resistance in a Murine Model of Exposing to Ozone/X. Zhang, W. Bao, X. Fei, Y. Zhang, G. Zhang, X. Zhou, M. Zhang, Shanghai, China, p.A7682**
- P721** **Extracellular Histone H3.3 Damages Lung Tissue and Induce a Systemic Inflammatory Response/C.A. Barrero, M.C. Rico, B. Kosmider, O.L.M. Perez-Lea, C. Fecchio, V. Olusajo, N. Vij, Y. Thanavala, K. Bahmed, M.F. Barbe, G.J. Criner, Philadelphia, PA, p.A7683**

THEMATIC POSTER SESSION

A71 THE EPIGENOME, GENOME AND NON-CODING RNAs IN LUNG DISEASE

9:15 a.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER

Area G (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: M. Sauler, MD, New Haven, CT

- P723** **Mapping Susceptibility Loci to Diffuse Panbronchiolitis/D. Weng, D. Tang, L. Huiping, Shanghai, China, p.A2284**
- P724** **Transcriptional Regulation of MUC5B and the Enhancer Harboring the IPF-Associated Variant rs35705950/A.N. Gerber, F. Gally, S.K. Sasse, B.A. Helling, C.M. Evans, I.V. Yang, S.P. Colgan, D.A. Schwartz, Denver, CO, p.A2285**

- P725** **Integrated Single-Cell Transcriptomic Analysis of Human Lung Reveals Distinct Patterns of Intercellular Heterogeneity in Idiopathic Pulmonary Fibrosis/P.A. Reyfman, J.M. Walter, N.R. Joshi, K.R. Anekalla, A.C. Mc Quattie-Pimentel, S. Chiu, R. Fernandez, M. Akbarpour, C.-I. Chen, Z. Ren, R. Verma, H. Abdala-Valencia, K. Nam, D.R. Winter, M. Chi, S. Han, F.J. Gonzalez, S. Soberanes, S. Watanabe, K.J. Williams, K.E. Secunda, C. Argento, C.T. Gillespie, J.E. Dematte, M. Jain, B.D. Singer, K.M. Ridge, C.J. Gottardi, A. Lam, A.V. Yeldandi, M. Hinchcliff, R. Bag, C.L. Hrusch, R. Guzy, C. Bonham, A.I. Sperling, A. Basu, R.B. Hamanaka, G.M. Mutlu, K.L. Pivarski, K.L. Pivarski, X. Wang, S.A. Marshall, A. Shilatifard, H.R. Perlman, J.I. Sznajder, A. Bharat, S.M. Borade, G.S. Budinger, A. Misharin, Chicago, IL, p.A2286**
- P726** **Network Analysis of Idiopathic Pulmonary Fibrosis by Integrating the Genome-Wide Association Study and Gene Expression Profile/S.-Y. Liao, J. Oldham, S.F. Ma, Y. Huang, Y. Zhang, F.J. Martinez, J.G.N. Garcia, N. Kaminski, I. Noth, Sacramento, CA, p.A2287**
- P727** **Clinical, Pulmonary Physiological and Genetic Characteristics in Adult-Onset Familial Interstitial Pneumonia (FIP)/Y. Setoguchi, M. Ishiwari, J. Kawagoe, K. Toriyama, S. Kitagawa, Tokyo, Japan, p.A2288**
- P728** **Novel Hypoxia Regulated Long Noncoding RNAs/G. Borchert, V. King, C.M. Francis, R.J. Langley, G. Daly, V. Pastukh, M.N. Gillespie, Mobile, AL, p.A2289**
- P729** **A Bronchoalveolar Lavage Fluid MicroRNA Signature Is Predictive for Survival in Patients with Idiopathic Pulmonary Fibrosis/J.C. Schupp, K. Awad, X. Yan, T. Adams, G. Deluiliis, F. Ahangari, A. Prasse, N. Kaminski, New Haven, CT, p.A2290**
- P730** **MicroRNA-146a Is Differentially Regulated in Alveolar Macrophages During Mechanotransduction in Ventilator Induced Lung Injury/C. Bobba, M.N. Ballinger, J.A. Englert, S.N. Ghadiali, Columbus, OH, p.A2291**

Facilitator: S. Christenson, MD, San Francisco, CA

- P731** **The Common Gain-of-function MUC5B Promoter Variant rs35705950 Contributes to the Risk of Developing Rheumatoid Arthritis Interstitial Lung Disease/P.-A. Juge, J.S. Lee, E. Ebstein, H. Furukawa, S. Gazal, C. Kannengiesser, N. Tsuchiya, S. Oka, S. Tohma, J. Rojas Serrano, M.I. González-Pérez, M. Mejía-a, I. Buendia, R. Falfan-Valencia, E. Ambrocio-Ortiz, E.D. Manali, S.A. Papisiris, T. Karageorgas, D. Boumpas, A. Antoniou, C.H. Van Moorsel, J.J. van der Vis, Y.A. de Man, J.C. Grutters, W. Yaping, R. Borie, L. Wemeau-Stervinou, B. Wallaert, H. Nunes, D. Valeyre, N. Saindenberg, S. Marchand Adam, K. Deane, A.D. Walts, T.E. Fingerlin, A. Fischer, J.H. Ryu, E.L. Matteson, T. Niewold, D. Assayag, A.J. Gross, P.J. Wolters, M.I. Schwarz, J. Solomon, T.J. Doyle, D. Marie-Pierre, C. Boileau, D.A. Schwartz, B. Crestani, D. Philippe, Paris, France, p.A2292**
- P732** **In vivo Treatment with miR338-3p Reveals a Novel Epigenetic Regulator of Pulmonary Fibrosis/A. Rackow, J.L. Judge, R.M. Kottmann, C.F. Woeller, T.H. Thatcher, R.P. Phipps, P.J. Sime, Rochester, NY, p.A2293**

- P733 A High-Throughput Single-Cell DNA Accessibility Assay and Its Application to Lung Development/T. Duong, B.C. Sos, D. Krenitsky, H.L. Huyck, T.J. Mariani, J. Kitzmiller, A.-K. Perl, G. Pryhuber, J.S. Hagood, K. Zhang, La Jolla, CA, p.A2294**
- P734 Antifibrotic Effect of microRNA-16 in Human Lung Fibroblasts/M. Inomata, K. Kamio, A. Azuma, K. Matsuda, T. Kashiwada, N. Kokuho, K. Atsumi, H. Hayashi, K. Fujita, Y. Saito, S. Abe, M. Seike, A. Gemma, Tokyo, Japan, p.A2295**
- P735 The Genetics of Smoking in Individuals with Chronic Obstructive Pulmonary Disease/M. Obeidat, G. Zhou, X. Li, N.N. Hansel, N. Rafaels, R. Mathias, I. Ruczinski, T.H. Beaty, K. Barnes, P.D. Pare, D.D. Sin, Vancouver, Canada, p.A2296**
- P736 A Quantitative Proteomics Profiling of Murine Lung Grafts Indicates Novel Pathways Associated with Chronic Lung Allograft Dysfunction/N.F. Smirnova, C. Morrone, T.M. Conlon, C. von Toerne, S. Hauck, O. Eickelberg, A.O. Yildirim, Munich, Germany, p.A2297**
- P737 In-Vivo Deletion of FENDRR, A Large Non-Coding RNA, Induces Spontaneous Fibrotic Changes in Knockout Mouse Lungs/N. Xylourgidis, K. Sakamoto, N. Aurelien, N. Kaminski, New Haven, CT, p.A2298**
- P738 Genetic Alterations in Adult Pulmonary Langerhans Cell Histiocytosis/A. Tazi, F. Jouenne, C. Laurent-Issartel, A. Sadoux, G. Lorillon, V. Meignin, C. Leschi, E. Bugnet, S. Mourah, Paris, France, p.A2299**
- Facilitator:** I.O. Rosas, MD, Boston, MA
- P739 Comparison of mRNA and miRNA Expression in Endobronchial Epithelial Lining Fluid and Bronchoalveolar Lavage of Patients with Idiopathic Pulmonary Fibrosis/N. Kahn, A. Smolinska, M. Schneider, M. Meister, R. Eberhardt, A. Boots, T. Muley, F.J. Herth, M. Kreuter, Heidelberg, Germany, p.A2300**
- P740 Microvesicle-Containing miRNAs Regulate Macrophage Migration Via Modulating Integrin Recycling and Trafficking/H. Lee, D. Zhang, Y. Jin, Boston, MA, p.A2301**
- P741 Identification of Functional Non-Coding Regions Influencing Lung Inflammation/Y. Maeda, M. Guo, K. Tomoshige, I. Fink-Baldauf, J.P. Clancy, Cincinnati, OH, p.A2302**
- P742 Cell-Type Resolved Proteome and Lipidome of Human Lung at Population and Single Cell Levels/G. Clair, J.E. Kyle, Y. Zhu, G. Bandyopadhyay, E. Zink, R. Misra, R. Kelly, G.S. Pryhuber, J. Carson, C. Ansong, Richland, WA, p.A2303**
- P743 The Implication of ASB3 Gene Variants on the Development of Bronchopulmonary Dysplasia in Extremely Low Birth Weight Infants/A. Zylak, S. Amatya, S. Rajbhandari, U. Paudel, M. Salton, L.A. Parton, Valhalla, NY, p.A7684**
- P744 Acute Exacerbation of IPF Is Not Associated with Shorter Telomeres in Patients with IPF/W. Shapiro, G.J. Criner, N. Marchetti, A.J. Mamary, Y. Dotan, E. Male, W. Cornwell, T.J. Rogers, Philadelphia, PA, p.A7685**

- P745 PulmonDB: A Gene Expression Lung Diseases/A.B.B. Villaseñor-Altamirano, Y.I. Balderas-Martínez, M. Moretto, A. Zayas-Del Moral, M. Maldonado, A. Munguía-Reyes, J.S. García-Sotelo, L.A. Aguilar Bautista, L. Ramirez-Navarro, O. Santillan, K. Engelen, M. Selman, A. Medina-Rivera, J. Collado-Vides, J, p.A7686**

THEMATIC POSTER SESSION

A72 WHAT'S NEW IN CYSTIC FIBROSIS, BPD AND OTHER CONGENITAL PEDIATRIC LUNG DISEASES

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area G (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion

12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: A. Hilgendorff, MD, Munich, Germany

- P747 Distal Airway Oxygen Tension Is Low in Cystic Fibrosis: Noninvasive Measurement Using a Novel, Fast-Response Oxygen Sensor/L. Mendelsohn, C. Wijers, R. Gupta, N. Marozkina, B. Gaston, Cleveland, OH, p.A2304**
- P748 Oxygen Effect on Breathing Pattern in Multiple Breath Nitrogen Washout Persists into Preschool Years but Is of Smaller Magnitude than Found in Infants/P. Robinson, A. Lindblad, A. Wong, E. Coward, P. Cooper, D.A. Fitzgerald, C. Pandit, H. Selvadurai, P.M. Gustafsson, Westmead Sydney, Australia, p.A2305**
- P749 Lung Transplantation in Cystic Fibrosis Patients in Italy: A Single Center Experience of 20 Years Follow-Up/D. Savi, S. Quattrucci, M. Mordenti, E. Bonci, P. Troiani, V. D'Alù, S. Bertasi, G. Cimino, P. Palange, Rome, Italy, p.A2306**
- P750 Imaging Tissue Compliance and Resistance in CF Mouse Models/C.R. Samarage, D. Wenger, C.S. Stahr, C.J. Doshi, A. Fouras, Melbourne, Australia, p.A2307**
- P751 Posture-Dependence of the Lung Clearance Index Varies with Disease State in Cystic Fibrosis/J. Rayment, N. McDonald, N. Kanhere, M. Couch, G. Santyr, F.A. Ratjen, Toronto, Canada, p.A2308**
- P752 Longitudinal Assessment of Chest CT Regions of Low Attenuation Reversibility in Early Cystic Fibrosis Lung Disease/L.C. Mok, E.-R. Andrinopoulou, M. de Bruijne, H. Tiddens, S.M. Stick, T. Rosenow, Subiaco, Australia, p.A2309**
- P753 CFTR Independent Purinergic Receptor Activated Bicarbonate Secretion in Human Native Small Airways/A.K.M. Shamsuddin, P.M. Quinton, La Jolla, CA, p.A2310**
- P754 Lung Macrophage Function in Cystic Fibrosis - Regional Differences Correlating with Severity of Lung Damage/D. Seidler, A. Nymon, J. Czum, D. Dorman, J. Dessaint, A. Ashare, Lebanon, NH, p.A2311**

Facilitator: B. Quon, MD, MBA, Vancouver, Canada

- P755** **A Reducing Agent Impairs Airway Mucociliary Transport In Vivo in Piglets**/M.I. Pino Argumedo, B.M. Hilkin, N.D. Gansemer, M.J. Welsh, M. Abou Alaiwa, Iowa City, IA, p.A2312
- P756** **Hyperpolarised Gas MRI Shows Reversibility of Lung Ventilation Defects at Increased Inspiratory Lung Volumes in Cystic Fibrosis**/L. Smith, P.J. Hughes, H. Marshall, G. Collier, N. West, M. Wildman, A. Horsley, J.M. Wild, Sheffield, United Kingdom, p.A2313
- P757** **Feasibility of Spatial Alignment of Functional CT Scans for Multiparametric Quantitative Analysis of Cystic Fibrosis Lung Disease**/A.B. Fortuna, O. Weinheimer, M. Wielpuetz, T. Robinson, C. Galban, Ann Arbor, MI, p.A2314
- P758** **The Relative Effects of Concentration and pH on Mucus Rheology**/D. Hill, R.F. Long, M.R. Markovetz, W.J. Kissner, I.C. Garbarine, B. Button, Chapel Hill, NC, p.A2315
- P759** **Chronic Refractory Candida Parapsilosis Infecting the Pneumonectomy Stump in a Patient with Cystic Fibrosis**/J. Lamar, M. Gregoire-Bottex, T. Bailey, Kalamazoo, MI, p.A2316
- P760** **The ENaC Inhibitor AZD5634 Provides Efficacious and Resilient Mucociliary Clearance of Sheep Airways**/A. Astrand, M. Hemmerling, W. Lindberg, J.R. Sabater, W.M. Abraham, A. Malmgren, Gothenburg, Sweden, p.A2317
- P761** **Quantitative Assessment of Airway Dynamics and Abnormalities During Restful Breathing in Infants Using MRI**/A. Bates, N.S. Higan, E. Hysinger, R.J. Fleck, A. Hahn, S.B. Fain, P.S. Kingma, R.S. Amin, J.C. Woods, Cincinnati, OH, p.A2318
- P762** **Mapping Lung Microstructural Changes Using Hyperpolarized ¹²⁹Xe Morphometry in a Rat Model of Bronchopulmonary Dysplasia**/A. Lindenmaier, B. Zanette, M. Couch, E. Stirrat, J. Ivanovska, M. Post, R.P. Jankov, G. Santyr, Toronto, Canada, p.A2319
- Facilitator:** J.M. Wild, PhD, Sheffield, United Kingdom
- P763** **Diagnosis of Bronchopulmonary Dysplasia Using Magnetic Resonance Imaging Analysis**/K. Förster, S. Sass, A. Pomschar, H. Ehrhardt, L. Nährlich, A. Schulze, A. Flemmer, C. Huebener, O. Eickelberg, F. Theis, O. Dietrich, B. Ertl-Wagner, A. Hilgendorff, München, Germany, p.A2320
- P764** **Long-Term Effects of Neonatal Hyperoxia Exposure on Lung and Heart Health in a Murine Model: Role of Sex as a Biological Variable**/K. Lingappan, X. Dong, Houston, TX, p.A2321
- P765** **Effect of Variable Oxygen Tensions on Mast Cell Hyperplasia in Neonatal Lung Disease**/A. Savage, B. Summers, S. Worgall, R.B. Silver, New York, NY, p.A2322
- P766** **Newborn Arterial Blood Gas Prediction Minimization Errors**/W. Wajs, P. Kruczek, P.P. Szymanski, M. Bukowczan, P. Wais, Rzeszow, Poland, p.A2323
- P767** **Elevated Lung Volumes in Neonates with Bronchopulmonary Dysplasia Measured Via Free-Breathing MRI**/L. Yoder, N. Higan, A. Schapiro, R. Fleck, E. Hysinger, A. Bates, P. Kingma, S. Merhar, S. Fain, J. Woods, Cincinnati, OH, p.A2324

- P768** **Effects of Very Low Birth Weight and Bronchopulmonary Dysplasia on Adult Pulmonary Function**/J. Yang, R. Kingsford, M. Epton, B. Darlow, J. Horwood, J. Martin, M.P. Swanney, Christchurch, New Zealand, p.A2325
- P769** **Targeting Soluble Guanylate Cyclase for Hyperoxia-Induced Neonatal Airway Dysfunction**/L. Wheeler, R.D. Britt, A. Haak, A.M. Roesler, S.A. Wicher, J. Ravix, T. Green, L.J. Manlove, M.A. Thompson, C.M. Pabelick, D.J. Tschumperlin, Y.S. Prakash, Rochester, MN, p.A2326
- P770** **Baseline Cystic Fibrosis Transmembrane Conductance Regulator Protein Expression Predicts Subject Response to Lumacaftor-Ivacaftor Treatment**/G.S. Gilmartin, C. Cotton, M. Singh, P.E. Bialek, P.-S. Lee, S. Wilson, B. McLaughlin, P.A. Flume, F.A. Ratjen, G.S. Sawicki, Cambridge, MA, p.A7687

THEMATIC POSTER SESSION

A73 DIFFUSE PARENCHYMAL LUNG DISEASE: NOVEL MECHANISMS, BIOMARKERS, AND THERAPEUTICS

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area G (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion

12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: C.A. Singer, PhD, Reno, NV

- P772** **Re-Organization of Air Spaces in the Surfactant Protein C Aging Lung and Lipid Homeostasis**/E. Lopez-Rodriguez, K. Sehmeyer, J. Ruwisch, N. Roldan, J. Perez-gil, T.E. Weaver, M. Ochs, L. Knudsen, Hannover, Germany, p.A2327
- P773** **SET9 Antisense Oligonucleotides Improved Bleomycin Induced Pulmonary Fibrosis in Mice**/M. Zhang, J.R. Crosby, D. Bai, C. Zhao, B.P. Monia, S. Guo, Carlsbad, CA, p.A2328
- P774** **Matters of Mucus: Mucociliary Physiology in a Bleomycin-Induced Pulmonary Fibrosis Ferret**/J.E. Peabody, S.E. Phillips, V. Lin, J.M. Lever, R.-J. Shei, D. Stanford, J.F. Engelhardt, T. Schoebe, C. Hennessy, E. Dobrinskikh, G.J. Tearney, D.A. Schwartz, S.M. Rowe, Birmingham, AL, p.A2329
- P775** **Comparative Study Between Murine and Sheep Models of Bleomycin-Induced Pulmonary Fibrosis**/U.E. Perera, L. Organ, S. Royce, E. Koumoundouros, H.B. Derseh, V.D.S. Nimanthi, A. Stent, K. Snibson, Parkville, Australia, p.A2330
- P776** **Influence of Elastagen on Bleomycin-Induced Pulmonary Fibrosis**/Y. Yuling, Z. Zeng, T. Yang, M. Zhang, Y. Ou, D. Qin, W. Wang, Chengdu, China, p.A2331
- P777** **Pulmonary Alveolar Proteinosis: A Compositional and Biophysical Functional Analysis of Its Effects on Lung Surfactant**/J. Perez-Gil, C. Ballester, M. Echaide, Madrid, Spain, p.A2332

- P778 Establishing the Mouse Pulmonary Fibrosis Model Induced by Bleomycin Via the Microsprayer/Z. Zeng, Y. Yin, T. Yang, Y. Ou, M. Zhang, T. Wang, D. Qin, W. Wang, L. Dai, N. Zeng, Chengdu, China, p.A2333**
- P779 Study of Pathological Features of Lung Lesions in PPFE of Idiopathic or Transplantation Related Cases with Evaluation of the Elastic Fiber Related Conditions Comparing to Those of IPF/UIP/Y. Terasaki, N. Kokuho, M. Terasaki, S. Kunugi, T. Hishima, Y. Aono, Y. Nishioka, T. Kijima, K. Hashimoto, K. Ichikado, A. Shimizu, Tokyo, Japan, p.A2334**
- P780 Assessment of Ventilator Induced Lung Injury in an Animal Model of Pulmonary Fibrosis/C. Ortiz, N. Hoftman, M. Vaillancourt, M. Weksler, N. Cao, T. Le, M. Eghbali, A. Mahajan, S. Umar, Los Angeles, CA, p.A2335**
- P781 Progressive Effect of Pirfenidone on Lung Function in Patients with Idiopathic Pulmonary Fibrosis During the First Year of Treatment/C.J. Llapur, G.C. Tabaj, J.I. Enghelmayer, M.F. Bosio, R.A. Alchapar, C.F. Victorio, S.A. Quadrelli, Buenos Aires, Argentina, p.A2336**
- P782 Evaluation of Idiopathic Pulmonary Fibrosis by 18F-FDG PET-CT Scan: Importance of the Correction for the Density in the Interpretation of the Results/A. Castiaux, G. Van Simaey, S. Goldman, B. Bondue, Brussels, Belgium, p.A2337**
- Facilitator:** S. Dua, MD, New York, NY
- P783 A Rare Missense Variant in TERT Is Associated with Idiopathic Pulmonary Fibrosis in a Chinese Han Family/X. Zhan, C. Zheng, Z. Tong, W. Li, Beijing, China, p.A2338**
- P784 CT Trachea Lumen Volumetry in Patients with Scleroderma: Association with Lung Function Testing/B. Rangel, R. Rodrigues, A.R. Carvalho, A. Guimaraes, V. Vilela, R. Levy, C.H. Costa, R. Rufino, A. Lopes, Rio de Janeiro, Brazil, p.A2339**
- P785 Clinical Utility of Thoracic Computed Tomography Body Composition Measures in Idiopathic Pulmonary Fibrosis/A. Vagaon, S. Shapera, S. Mathur, J.H. Fisher, L.G. Singer, D. Rozenberg, Toronto, Canada, p.A2340**
- P786 Longitudinal Follow Up After 129Xe MRI Scan; Potential to Stratify Idiopathic Pulmonary Fibrosis Disease Progression/R.M. Tighe, L. Rankine, Z. Wang, J. Wang, M. He, C. Rackley, H.P. McAdams, J. Mammarrappallil, B. Driehuys, Durham, NC, p.A2341**
- P787 Quantitative Evaluation of Obstructive Lung Disease in Patients with Scleroderma Lung Disease/A. Oh, K. Sorge, S. Bae, G.H. Kim, J. Goldin, D.P. Tashkin, Los Angeles, CA, p.A2342**
- P788 Abnormal Regulation of Host Defense Peptides in the Pathobiology of Idiopathic Pulmonary Fibrosis/A. Petrovic, J.N. Schneider, M. Wygrecka, O. Pak, E. El Agha, N. Weissmann, S. Bellusci, D. Kosanovic, R.T. Schermuly, Giessen, Germany, p.A2343**
- P789 A Case of Lipoid Pneumonia with Exogenous Source/C. Salmon, R. Abdelfattah, D. Chmielecki, J. Orsini, Brooklyn, NY, p.A2344**
- P790 Does Chest Computed Tomography Body Positioning Change the Cyst Score for Lymphangioleiomyomatosis (LAM)?/E. Hu-Wang, J.L. Schuzer, S. Rollison, V. Gopalakrishnan, T. Machado, A. Jones, P. Julien-Williams, J. Moss, M.Y. Chen, Bethesda, MD, p.A2345**
- P791 The Safety of Transbronchial Lung Cryobiopsy in Patients with Poor Pulmonary Function/C. Massaccesi, S. Colella, F. Fioretti, V. D'Emilio, G. Panella, R. Pela, Ascoli Piceno, Italy, p.A2346**
- Facilitator:** M.L. Dowell, MD, Chicago, IL
- P792 Elevation of Plasma Inflammatory Biomarkers in Sarcoidosis/H. Yogasundaram, S. Hanstock, J. Peters, E. Saad, A.-M.E. Gillson, K. Mulchey, B.D. McNab, T. Hruczkowski, G. Blevins, J.R. Beach, G. Oudit, D.P. Vethanayagam, Edmonton, Canada, p.A2347**
- P793 Hyperpolarized 129Xe MRI Reveals Early Regional Ventilation Deficits in Pediatric Hematopoietic Stem Cell Transplant Recipients/L. Walkup, K. Myers, J. El-Bietar, C. Towe, J.C. Woods, Cincinnati, OH, p.A2348**
- P794 Effect of Model-Based Iterative Reconstruction in Chest Computed Tomography on Lymphangioleiomyomatosis (LAM) Cyst Score Quantification/E. Hu-Wang, J.L. Schuzer, S. Rollison, V. Gopalakrishnan, T. Machado, A. Jones, P. Julien-Williams, J. Moss, M.Y. Chen, Bethesda, MD, p.A2349**
- P795 Synergism Between Glucocorticoids and Prostaglandin E2 Modulate Fibrogenesis Pathways/A.B. Mitke, T. Harris, M. Schuliga, F.G. Jativa, P. Lee, J. Jaffar, G. Westall, A. Stewart, Melbourne, Australia, p.A2350**
- P796 Targeting of TAM Receptors Ameliorates Fibrotic Mechanisms in Idiopathic Pulmonary Fibrosis/M.S. Espindola, D.M. Habel, R. Narayanan, I. Jones, A.L. Coelho, L. Murray, D. Jiang, P.W. Noble, C.M. Hogaboam, Los Angeles, CA, p.A2351**
- P797 ND-L02-s0201 Treatment Leads to Efficacy in Preclinical IPF Models/J. Liu, Y. Liu, J. Zhang, F. Xia, A. Quimbo, J. Yao, J.P. Clamme, S. Zabludoff, W. Ying, San Diego, CA, p.A2352**
- P798 Increased FEF 25-75 Is Associated with Increased Annual Decline in FVC/G. Ishikawa, A. Mathur, S. Dua, M. Salvatore, M. Padilla, New York, NY, p.A2353**
- P799 Frailty Is an Independent Predictor of Mortality in Patients with Fibrotic Interstitial Lung Disease/S.A. Guler, J.M. Kwan, P.G. Wilcox, C.J. Ryerson, Vancouver, Canada, p.A2354**
- P800 Correlations Between Lung Parenchymal Changes on Computed Tomographic Imaging and Both Disease Progression and Response to Sirolimus Therapy in Lymphangioleiomyomatosis/V. Gopalakrishnan, J. Yao, N.A. Avila, A.M. Taveira-DaSilva, M. Stylianou, J. Moss, Chicago, IL, p.A2355**
- P801 Assessment of Alveolar-Airspace Dimensions in a Case of Pediatric Generalized Lymphatic Anomaly/L. Walkup, C. Towe, A. Bdaiwi, A. Merrow, A. Hammill, Z.I. Cleveland, J.C. Woods, Cincinnati, OH, p.A2356**
- Facilitator:** H. Parameswaran, PhD, Boston, MA
- P802 Differential Regulation of Fibrocyte Accumulation by Discrete Components of the SSC-ILD Matrisome/J. Winkler, M. Minasyan, H. Pan, O. Desai, X. Peng, J. Meng, E. Herzog, H. Sun, New Haven, CT, p.A2357**
- P803 The thymomimetic Sobetirome (GC-1) Inhibites Bleomycin Induced Pulmonary Fibrosis in Mice/G. Yu, G. Ibarra, G. Delulisi, T. Scanlan, N. Kaminski, New Haven, CT, p.A2358**

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- P804** **Assessment of Lung Function and Structure Using a Multibreath Hyperpolarized (HP) 129Xe Imaging Technique in a Two-Hit Radiation Induced Lung Injury (RILI) Model/S.** Siddiqui, H. Hamedani, Y. Xin, L. Loza, M. Pourfathi, F. Amzajerdian, S. Chaterjee, H. Profka, I. Duncan, S. Kadlecek, R.R. Rizi, Philadelphia, PA, p.A2359
- P805** **Immunoglobulin A as a Predictor of Disease Severity and Outcomes in Idiopathic Pulmonary Fibrosis Transplant Patients/B.** Webber, T. Umeda, H.J. Kim, S. Jackson, R. Tomic, Minneapolis, MN, p.A2360
- P806** **Assessing Pulmonary Fibrosis Progression in a Model of Surfactant Protein C Mutation with Ultra-Short Echo-Time Magnetic Resonance Imaging/Z.I.** Cleveland, S. Sitaraman, I. Stecker, M.S. Freeman, E.P. Martin, J. Guo, T.E. Weaver, Cincinnati, OH, p.A2361
- P807** **NOX4 Antisense Oligonucleotides Are Effective at Preventing Bleomycin-Induced Pulmonary Fibrosis in Mice/C.** Zhao, J.R. Crosby, D. Bai, M. Zhang, A. Bell, B. Monia, S. Guo, Carlsbad, CA, p.A2362
- P808** **Idiopathic Pulmonary Fibrosis: A Study Using Volumetric Imaging and Functional Data in a Computational Lung Model/Y.** Zhang, A.R. Clark, H. Kumar, D.G. Milne, M.L. Wilsher, B.J. Bartholmai, M.H. Tawhai, Auckland, New Zealand, p.A2363
- P809** **VEGFR1-TK Signaling Attenuates Pulmonary Fibrosis Formation Through SDF-1/CXCR7/CXCR4 Axis/H.** Amano, Y. Mastui, Y. Ito, M. Majima, Sagamihara, Japan, p.A2364
- P810** **Lung Fibrosis Measured by Quantitative High Resolution Computed Tomography (qHRCT) in Idiopathic Pulmonary Fibrosis (IPF) Patients Treated with Pamrevlumab (FG-3019)/E.** Gorina, J. Goldin, K.G. Hyun, M. Zhong, T. Sekayan, P. Yu, E. Kouchakji, San Francisco, CA, p.A7688
- P811** **Assessment of Increased Expiratory Flows as the Earliest Pulmonary Function Test Abnormalities in Patients with Idiopathic Pulmonary Fibrosis and Interstitial Lung Diseases/S.M.** Alyami, O. Moran Mendoza, Kingston, Canada, p.A7689
- P812** **Gastroesophageal Impedance and pH Testing in Pulmonary Aspiration/J.** Gagermeier, R. Mahmood, V. Ananthanarayanan, A. Molefe, M. Venu, Maywood, IL, p.A7690
- Facilitator:** C. Seow, PhD, Vancouver, Canada
- P814** **Interleukin 6 Is Elevated in Andean Highlanders with Chronic Mountain Sickness/E.** Heinrich, C. Anza-Ramirez, J.-L. Macarlupu, N. Corante, G. Vizcardo-Galindo, M. Djokic, F.C. Villafuerte, F.L. Powell, T.S. Simonson, La Jolla, CA, p.A2365
- P815** **Molecular Basis of Hypoxia-Induced Excessive Erythrocytosis of High Altitude/P.** Azad, G.G. Haddad, La Jolla, CA, p.A2366
- P816** **Effect of GBT440, an R-State Stabilizer of Hemoglobin, on Hypoxic Maximal Exercise/G.** Stewart, S. Chase, T. Cross, B. Ziegler, M. Joyner, T. Curry, J. Lehrer, N. Vlahakis, B. Johnson, Rochester, MN, p.A2367
- P817** **Efficacy of GBT440 to Left-Shift the Oxy-Hemoglobin Dissociation Curve in Healthy Individuals and Preserve Arterial Saturation During Submaximal Hypoxic Exercise/G.** Stewart, T. Cross, S. Chase, M. Joyner, T. Curry, J. Isautier, J. Lehrer, N.E. Vlahakis, B.D. Johnson, Rochester, MN, p.A2368
- P818** **Effect of Variation in Ambient Temperature of Circulating Air on Rate of Cooling of Heat Stroke Model/A.H.** Alzeer, E.H. Wissler, Riyadh, Saudi Arabia, p.A2369
- P819** **A Distinct Difference Between Tissue and Air Temperatures in Human Respiratory Tract Detected by Direct Measurement Via Bronchoscopy/M.** Khosravi, R.-L. Lin, A.P. Maskey, S. Pandey, L.-Y. Lee, Lexington, KY, p.A2370
- P820** **N-Tidal C: A Portable, Hand Held Device for Assessing Respiratory Performance and Injury/S.R.** Bate, B. Jugg, S. Rutter, S. Graham, R. Perrott, R. Rendell, J. Altrip, J. Foord, J. Carter, M. Haines, J. Walsh, Salisbury, United Kingdom, p.A2371
- P821** **Improvements in Functional Exercise Performance at Six Months Following Bariatric Surgery, A Prospective Cohort Study/A.** Gorek Dilektasli, E. Dilektasli, F. Coskun, M. Karadag, Bursa, Turkey, p.A2372
- Facilitator:** H. Katsura, MD, Chiba, Japan
- P822** **The Effect of Tiotropium/Olodaterol Versus Tiotropium on Breathlessness During the 3-Minute Constant Speed Shuttle Walking Test in Patients with Chronic Obstructive Pulmonary Disease/F.** Maltais, J.-L. Aumann, A.-M. Kirsten, E. Nadreau, H. Macesic, X. Jin, A.L. Hamilton, D.E. O'Donnell, Québec City, Canada, p.A2373
- P823** **Continuous Positive Airway Pressure (CPAP) Reduces Oxygen Consumption in Moderate-Severe COPD/C.** Dennis, C. Menadue, A.R. Harmer, D.J. Barnes, J.A. Alison, Sydney, Australia, p.A2374
- P824** **Comparing the Six Minute Walk Test and Cardiopulmonary Exercise Testing in Pulmonary Hypertension/N.** Morris, A. Lin, J. Harris, M. Sabaratnam, J.F. Feenstra, H. Seale, Gold Coast, Australia, p.A2375
- P825** **Does Physical Exercise Influence the Morphofunctionality of Diabetic Rat Lung?/W.A.** Zin, M.D. Moreira-Gomes, L.M. Machado, D.S. Serra, T.G. Neves, J.H. Leal-Cardoso, F.S. Cavalcante, Rio de Janeiro, Brazil, p.A2376

THEMATIC POSTER SESSION

A74 RESPIRATORY HEALTH: ALTITUDE, ENVIRONMENTAL EXPOSURES, AND REHABILITATION

9:15 a.m. - 4:15 p.m. **SAN DIEGO CONVENTION CENTER**

Area G (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

- P826 Ultrastructural Alteration of Pulmonary Tissue under High Concentration Oxygen Condition/H. Yano, H. Okada, G. Takemura, K. Suzuki, R. Inagawa, C. Takada, R. Zaikokuji, I. Muraki, Y. Kakino, T. Yoshida, S. Yoshida, H. Ushikoshi, S. Ogura, Gifu, Japan, p.A2377**
- P827 Epigenetic Modifications in Cardiopulmonary Developmental Adaptations to Chronic Hypoxia?/S. Krishnan, F. Fang, A. Beuchlein, B. Stearman, M. Ivan, K. Nephew, T. Lahm, R.S. Tepper, Indianapolis, IN, p.A2378**
- P828 Voluntary Activity Alleviates Obesity-Induced Structural Changes of the Lung/J. Schipke, N. Ahrendt, T. Steingrueber, E. Lopez-Rodriguez, C. Mühlfeld, Hannover, Germany, p.A2379**
- P829 Effect of Hemoglobin on Exercise Capacity and Cardiopulmonary Exercise Test Parameters/A. Sharma, T. Kaiser, D. Datta, Farmington, CT, p.A2380**
- P830 Sonographic Assessment of Pulmonary Edema Using B-Line Scores During Incremental Ascent to Altitude/R. Lim, I. Ma, C. Nysten, T. Brutseart, T. Day, Calgary, Canada, p.A2381**

THEMATIC POSTER SESSION

A75 COPD: TARGETS, MODELS, AND CLINICAL STUDIES

9:15 a.m. - 4:15 p.m. **SAN DIEGO CONVENTION CENTER**
Area E (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: N. Tanabe, MD, PhD, Kyoto, Japan

- P453 Lung Function and BMI Predictive Models to Assess CT Emphysema Extent in COPD/M. Occhipinti, M. Paoletti, F. Bigazzi, J. Sieren, M. Palazzi, G. Camiciottoli, M. Pistolesi, Firenze, Italy, p.A2382**
- P454 Climate-controlled Hospital Patient Rooms Reduce Indoor Heat Stress in Patients with Chronic Obstructive Pulmonary Diseases and Prevent an Increased Cardiorespiratory Coupling/C. Witt, J. Krämer, U. Liebers, M. Drozdek, J. Kurths, N. Wessel, Berlin, Germany, p.A2383**
- P455 In Vivo Imaging Using Micro-CT Demonstrates Airway Remodeling in Ferrets with Cigarette Smoke-Induced COPD and Chronic Bronchitis/D. Stanford, J. LaFontaine, S. Byzek, S. Bodduluri, S.P. Bhatt, S.V. Raju, S.M. Rowe, Birmingham, AL, p.A2384**
- P456 Effects Of Recombinant Alpha1-Antitrypsin IgG1 Fc-fusion Protein (AAT-Fc) In Experimental Emphysema/K. Takeda, S. Kim, I. Petrache, E.W. Gelfand, Denver, CO, p.A2385**
- P457 Lung Function and Patient-Reported Outcomes Response to Indacaterol/Glycopyrrolate (UTIBRON™ Neohaler®) in Chronic Obstructive Pulmonary Disease (COPD) Patients by Reversibility: Pooled Analysis of the FLIGHT1 and FLIGHT2 Studies/S. Sharma, T. Goodin, A. Bowling, B. Price, A. Ozol-Godfrey, S. Sanjar, J. Ohar, Marlborough, MA, p.A2386**

- P458 Tiotropium/Olodaterol Versus Tiotropium in the Prevention of Exacerbations of Chronic Obstructive Pulmonary Disease: Impact of Adjusting for Baseline Characteristics/C. Jenkins, P.M. Calverley, K. Carter, K. Tetzlaff, A. de la Hoz, A. Anzueto, K.F. Rabe, J.A. Wedzicha, Sydney, Australia, p.A2387**
- P459 Impact of Non-Alcoholic Fatty Liver Disease on Late Cardiovascular Events and Death in Chronic Obstructive Pulmonary Disease/D. Viglino, A. Plazanet, M. Benmerad, S. Bailly, I. Jullian-Desayes, R. Tamisier, V. Leroy, J.-P. Zarski, M. Maignan, M. Joyeux-Faure, J.-L. Pepin, Grenoble, France, p.A2388**
- P460 Lung Function and Patient-Reported Outcomes Response to Indacaterol/Glycopyrrolate (UTIBRON™ Neohale®) in Chronic Obstructive Pulmonary Disease (COPD) Patients by Smoking Status: Pooled Analysis of the FLIGHT1 and FLIGHT2 Studies/S. Sanjar, T. Goodin, A. Bowling, B. Price, A. Ozol-Godfrey, S. Sharma, D.P. Tashkin, Marlborough, MA, p.A2389**
- P461 Tiotropium/Olodaterol Improves Symptoms of Chronic Obstructive Pulmonary Disease Compared with Tiotropium: Results from the DYNAGITO Trial/A. Anzueto, P.M. Calverley, K. Carter, K. Tetzlaff, A. de la Hoz, C. Jenkins, K.F. Rabe, J.A. Wedzicha, San Antonio, TX, p.A2390**
- P462 Lung Function and Patient-Reported Outcomes Response to Glycopyrrolate (SEEBRI™ Neohaler®) in Chronic Obstructive Pulmonary Disease (COPD) Patients by Reversibility: Pooled Analysis of the GEM1 and GEM2 Studies/A. Bowling, T. Goodin, B. Price, A. Ozol-Godfrey, S. Sharma, S. Sanjar, J. Ohar, Marlborough, MA, p.A2391**
- P463 The Association Between Right Ventricular Systolic Pressure and Respiratory Morbidity in COPD/A. Balasubramanian, N. Putcha, L.M. Paulin, E. Brigham, S. Raju, C. Lemoine, W. Jennifer, K. Romero, K. Koehler, N.N. Hansel, M.C. McCormack, Baltimore, MD, p.A2392**
- P464 Fibroblast Growth Factor 10 (FGF10) Haploinsufficiency Is Associated with Smaller Airways Lumen: Implications for Chronic Obstructive Pulmonary Disease (COPD) Susceptibility/H. Traboulsi, B.M. Smith, C. Baglolle, Montreal, Canada, p.A2393**
- P465 Acute Response to Umeclidinium 62.5 Mcg and Vilanterol 25 Mcg in Chronic Obstructive Lung Disease/E.P. Oliveira, M.S. Tavares, J. Barbas Filho, C.S.V. Barbas, Sao Paulo, Brazil, p.A2394**
- P466 Characterizing Pathological Changes of the Peripheral Airways in Mild and Moderate COPD/S. Booth, N. Tanabe, A. Hsieh, H.-K. Koo, D.M. Vasilescu, J.C. Hogg, T.-L. Hackett, Vancouver, Canada, p.A2395**
- Facilitator:** Q. Lu, PhD, Boston, MA
- P467 The Expression of Diacetyl/L-xylulose Reductase (DCXR) in Airway Epithelium in Chronic Obstructive Pulmonary Disease (COPD)/M. Jin, A. Tam, M. Obeidat, T.-L. Hackett, D.D. Sin, Vancouver, Canada, p.A2396**

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- P468 Physiological Mechanisms Inducing Delayed Mucociliary Transport in a Ferret Model of COPD/V. Lin, S.E. Birket, S.V. Raju, N. Kaza, L. Tang, S. Byzek, G.J. Tearney, S.M. Rowe, Birmingham, AL, p.A2397**
- P469 Cigarette Smoke Decreases Tristetraprolin Expression Through p38-Mediated Pathway/P. Che, L. Yu, X.-K. Zhao, M. Wang, A. Gaggari, J.E. Blalock, Q. Ding, Birmingham, AL, p.A2398**
- P470 Cigarette Smoke Exposure Alters Prenyltransferase Expression and Activity in the Lung/T.H. Mahood, J.-C. Bérubé, M.H. Ryu, A.D. Desautels, O.O. Ojo, G.L. Stelmack, H. Unruh, Y. Bossé, A.J. Halayko, Winnipeg, Canada, p.A2399**
- P471 Epigenetic Age Acceleration and Lung Function Decline in the Normative Aging Study/J.M. Lee, S.G. Rasmussen, K. Brennan, E. Colicino, A.C. Just, P. Vokonas, X. Lin, L. Hou, A.A. Litonjua, D.L. DeMeo, D. Sparrow, J. Schwartz, A. Baccarelli, New York, NY, p.A2400**
- P472 Alveolar Macrophage Proliferation Is Increased in Chronic Cigarette Smokers/N. Shetty, M.O. Aksoy, M. Barbe, M.R. Wolfson, S.G. Kelsen, Philadelphia, PA, p.A2401**
- P473 Contribution of IL-33 for Protective Effects Against Elastase-Induced and Cigarette Smoke Extract-Induced Emphysema/D. Morichika, N. Miyahara, A. Taniguchi, N. Oda, U. Fujii, S. Senoo, M. Kataoka, T. Okada, M. Hanaoka, T. Yoshimoto, M. Tanimoto, Y. Maeda, K. Kiura, A. Kanehiro, Fukuyama, Japan, p.A2402**
- P474 The Collagen Fiber Orientation in Human Lung Tissue with Emphysema/K. Tomoda, S. Osaki, Kashihara City, Japan, p.A2403**

Facilitator: P. Sharma, PhD, Ultimo, Australia

- P475 A Novel Experimental Model of COPD Exacerbation/S. Mehraban, X. Liu, J. Cantor, Queens, NY, p.A2404**
- P476 Effect of N-Glycosylation of Recombinant Alpha-1 Antitrypsin Therapeutic Protein Structure and Function: A Biophysical and Molecular Dynamic Simulation Study/K. Karuppanan, S. Alkanaimsh, D. Silberstein, A. Bernardi, A. Guerrero, Q. Wang, C.B. Lebrilla, R. Faller, D. Kueltz, J. Eiserich, C.E. Cross, S. Nandi, K.A. McDonald, Davis, CA, p.A2405**
- P477 The Optimal Dose of Elastase from the Aspect of Lung Compliance in Rat Emphysema Model/T. Wada, J.-E.D. Jaw, K. Yamasaki, D.M. Vasilescu, S.V. Lichtenstein, D. Gelbart, S.-F.P. Man, D.D. Sin, Vancouver, Canada, p.A2406**
- P478 Impact of Methionine/Choline Deficient Diet and Cigarette Smoke Exposure on Pulmonary Homeostasis/E. Jubinville, M.-A. Lafrance, J. Routhier, A. Lechasseur, M.-J. Beaulieu, M.-E. Paré, S. Aubin, M.C. Morissette, Quebec, Canada, p.A2407**
- P479 The Effect of the Aerobika® Oscillating PEP (OPEP) Device on Airway Structure, Function and Drug Deposition in Patients with COPD/C. Mussche, C. Van Holsbeke, V. Kushnarev, J. Suggett, J. De Backer, W. De Backer, G. Leemans, New York, NY, p.A2408**
- P480 Abnormalities in the Function of Lung-Derived Mesenchymal Stromal Cells (MSCs) in COPD: Intrinsic Defects or Impaired Interaction with the Matrix?/D. Kruk, H. de Bruin, M. Lodewijk, D. Hof, W. Daamen, T. Van Kuppevelt, M. Rojas, W. Timens, N.H.T. Hacken, I.H. Heijink, Groningen, Netherlands, p.A2409**

- P481 Association Between Acute Respiratory Disease Events and the MUC5B Promoter Polymorphism in Smokers/S. Ash, R. Harmouche, R.K. Putman, J. Ross, F.J. Martinez, A.M.K. Choi, R.P. Bowler, E.A. Regan, J.L. Curtis, M.K. Han, R.C. Boucher, W.K. O'Neal, H. Hatabu, D.A. Lynch, I.O. Rosas, G.M. Hunninghake, R. San Jose Estepar, G.R. Washko, Boston, MA, p.A2410**
- P482 The Effects of Resistive Breathing on Pulmonary Inflammation and Emphysema in Experimental Models of Chronic Obstructive Pulmonary Disease (COPD)/D. Toumpanakis, E. Mizi, V. Vassilakopoulou, A. Chatzianastasiou, I. Vraïla, D. Tsoukalas, V. Karavana, S. Theocharis, T. Vassilakopoulos, Athens, Greece, p.A2411**
- P483 Improving COPD Management with Biomechanical Models/D. Low, K. Hasse, J. Goldin, D.P. Tashkin, A.P. Santhanam, Los Angeles, CA, p.A7691**
- P484 Cromoglycate Inhibits Airway Sensory Nerves Through an Impact on NADPHase: A Novel Understanding of Its Biological Activity?/X. Chen, S.J. Bonvini, E. Dubuis, F. Cheng, M.A. Birrell, M.G. Belvisi, London, United Kingdom, p.A7692**
- P485 Smoking Cessation Reverses Acute Cigarette Smoke Induced Muscle Derangement in Animal Model/S. Ngai, K.-K. Cheung, J.C.W. Mak, S.-Y. Cheung, T.K.H. Fung, B.W.M. Lau, Hong Kong, Hong Kong, p.A7693**

THEMATIC POSTER SESSION

A76 SLEEP DISORDERED BREATHING IN CARDIOPULMONARY AND NEUROENDOCRINE DISORDERS

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area C (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: M. Teodorescu, MD, MS, Madison, WI

- P186 Modulators of Nocturnal Hypoxemia in Patients with Heart Failure and/or COPD - A Multicentre Retrospective Analysis/M. Arzt, W.J. Randerath, J.-L. Pepin, C. Schöbel, M. Tremli, S.-D. Herkenrath, I. Fietze, F. Sert Kuniyoshi, G.W. Lotz, V. Weissmueller, M. Hamerle, T. Penzel, Regensburg, Germany, p.A2412**
- P187 Positive Predictive Value of the SAMSPAP (Sleep Apnea in Multiple Sclerosis Positive Airway Pressure) Trial Eligibility Criteria for Sleep Apnea Diagnosis/S.M. Khadadah, D.A. Trojan, P. Duquette, V. Jobin, Y. Lapierre, A. Benedetti, A. Robinson, E. Roger, A. Bar-Or, M. Kaminska, R.J. Kimoff, Montreal, Canada, p.A2413**
- P188 Sleep and Function in Patients with Multiple Sclerosis/K.L. Arvai, S.E. Vaughan, S. Jouldjian, S.W. Carroll, A. Caruso, N.A. Aljundi, M. Eshraghi, W.H. Ayesha, A. Alquadan, M.N. Mitchell, A. Salloum, A. Sankari, J.L. Martin, M.S. Badr, Detroit, MI, p.A2414**

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

Facilitator: C. Won, MD, New Haven, CT

- P189 Sleep Disorders in Polycystic Ovary Syndrome (PCOS) and Their Metabolic Correlates/S. Saha, S. Sinha, S.K. Sharma, M. Soneja, N. Nischal, R.M. Pandey, New Delhi, India, p.A2415**
- P190 The Effect of COPD on the Anatomic and Non-Anatomic OSA Traits Measured During Sleep/J.E. Orr, P.N. DeYoung, B.A. Edwards, S.A. Sands, R.L. Owens, A. Malhotra, La Jolla, CA, p.A2416**
- P191 Predictors of Sleep Disorder-Breathing in Patients with Steinert Myotonic Dystrophy/G.A. Moreira, C. Fumo dos Santos, R.T. Akamine, L.F. Grossklauss, M.L. Pradella-Hallinan, S. Tufik, Sao Paulo, Brazil, p.A2417**

Facilitator: E.D. Moloney, MD, Dublin, Ireland

- P192 Sleep Patterns and Disorders in Patients with Chronic Obstructive Pulmonary Disease (COPD) in Nepal/P. Koirala, R.H. Ghimire, D. Mishra, B. Bista, B. Shah, N. Bhatta, Dharan, Nepal, p.A2418**
- P193 Toll-Like Receptor-4 Deficiency Alleviates Chronic Intermittent Hypoxia Induced Renal Injury, Inflammation and Fibrosis/Y. Zhang, F. Zhou, C. Hu, X. Su, Changsha, China, p.A2419**
- P194 Changes in the Prevalence of Airflow Limitation in Community-Dwelling Japanese Subjects: The Hisayama Study/H. Ogata, Y. Hirakawa, K. Matsumoto, S. Fukuyama, H. Inoue, T. Kitazono, T. Ninomiya, Y. Nakanishi, Fukuoka, Japan, p.A2420**

THEMATIC POSTER SESSION

A77 EFFECT OF SLEEP DISORDERED BREATHING ON CARDIOMETABOLIC AND NEUROCOGNITIVE OUTCOMES

9:15 a.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER
Area C (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: W.T. McNicholas, MD, MBBS, Dublin, Ireland
C.W. Atwood, MD, Pittsburgh, PA

- P196 Obstructive Sleep Apnea and Pain Intensity Among Veterans of Recent Wars/M. Card, A. Charokopos, C. Steffens, K.M. Akgun, C. Gunderson, J. Goulet, E. Derycke, C. Brandt, L. Bastian, West Haven, CT, p.A2421**
- P197 Is the Mechanical Load Induced by Rostral Fluid Shift on the Upper Airways Compensated by a Cortical Activity During Wakefulness?/C. Launois, T. Similowski, I. Arnulf, E. Perger, S. Redolfi, Paris, France, p.A2422**
- P198 Nonlinear Processes of Fluid Redistribution in the Head and Neck Region Caused by Body Posture Changes in Severe Obstructive Sleep Apnea Patients/Y. Huang, H. Zhang, C. Wang, H. Lin, S. Wang, H. Xu, Beijing, China, p.A2423**

- P199 The Effect of CPAP Treatment on Excessive Daytime Sleepiness and Serum Substance P Levels in OSAS Patients/O. Aydin Guclu, A. Ursavas, F. Kasapoglu, Y. Ozarda, C. Bozyigit, G. Ocakoglu, M. Karadag, Bursa, Turkey, p.A2424**
- P200 Predictors of Excessive Daytime Sleepiness in African American Patients: A Retrospective Study/P.B. Datar, S. Pandey, B. Bhattarai, A. Lixon, O. Abdulfattah, F.M. Schmidt, D. Enriquez, J. Quist, Brooklyn, NY, p.A2425**
- P201 Postoperative Atrial Fibrillation After Elective Coronary Artery Bypass Grafting Surgery in Patients with Sleep-Disordered Breathing/M. Tafelmeier, M. Schmidt, M. Knapp, S. Bauer, B. Floerchinger, D. Camboni, Y. Zausig, S. Wittmann, C. Schmid, L.S. Maier, S. Wagner, M. Arzt, Regensburg, Germany, p.A2426**
- P202 Baseline Description of Patients with Obstructive Sleep Apnea Who Have Suffered a Coronary Syndrome: Save and ISAACC Studies/S. Bertran, A. Sánchez-de-la-Torre, K. Löffler, J. Abad, J. Duran-Cantolla, V. Cabriada, O. Mediano, M.J. Masdeu, J. Teran, J.F. Masa, M. de la Peña, M. Mayos, R. Coloma, J.M. Montserrat, E. Chiner, S. Perello, G. Rubinos, D. Martinez, C. Anderson, M. Sanchez-de-la-Torre, F. Barbe, R.D. McEvoy, Lleida, Spain, p.A2427**

Facilitators: K. Chin, MD, Kyoto, Japan
I. Gurubhagavatula, MD, MPH, Philadelphia, PA

- P203 Independent Association Between Obstructive Sleep Apnea Severity and Liver Stiffness in Adults with Metabolic Syndrome/W. Trzepizur, J. Bourier, M. Le Vaillant, P.-H. Ducluzeau, S. Dubois, S. Henni, P. Calès, F. Gagnadoux, Angers, France, p.A2428**
- P204 Adaptive Servo-Ventilator Use for Central Sleep Apnea in Patients with Heart Failure with Reduced Ejection Fraction: Mortality Evaluated in a Longitudinal Retrospective Review/M. Gilani, A. Alabaster, G.L. Garrett, C. Tyler, San Francisco, CA, p.A2429**
- P205 Patient with Obstructive Sleep Apnea Are Not at an Increased Risk of Complications When Undergoing Carotid Endarterectomy/V. Kraskovsky, P. Fay, R. Metta, M. J. Mador, Buffalo, NY, p.A2430**
- P206 Should Patients with 'Out of Proportion Nocturnal Desaturation' on Home Sleep Testing for Obstructive Sleep Apnea Be Screened for Cardiopulmonary Disease?/S. Palasamudram Shekar, A. Gandhi, R. Alfara, A. Hadeh, Weston, FL, p.A2431**
- P207 Association Between Sleep Apnea and Syntax Score/S. Ishiwata, Y. Tomita, T. Kasai, H. Daida, K. Narui, Tokyo, Japan, p.A2432**
- P208 The Effect of Nocturnal Oxygen Desaturations on Plasma Levels of Nf- κ B-Controlled Gene Products in Patients with Obstructive Sleep Apnea/A.P. Noriega Aldave, K.A. Oursler, T. Pelleg, D.C. Smith, R.D. Mantilla, M. Thomas, M. Macrea, Roanoke, VA, p.A2433**

Facilitator: R.J. Schwab, MD, Philadelphia, PA

- P209 Assessment of Carotid Wall Thickness in Patients with Sleep Apnea Before and After CPAP Using Magnetic Resonance Imaging (MRI)/V. Kundel, A. Sahota, V. Mani, Z. Fayad, N.A. Shah, New York, NY, p.A2434**

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- P210 Differential Influence of Obstructive Sleep Apnea on Sinoatrial and Atrioventricular Nodal Function in Humans/P. Reddy, E. Valladares, A. Nukala, K. Patel, C. Clemesha, M. Orban, V. Konecny, R. Doshi, T.C. Hammond, T. Konecny, Los Angeles, CA, p.A2435**
- P211 Obstructive Sleep Apnea Increases the Risk of Diastolic Heart Failure: Results of a Large Population Study/A. Zinchuk, K. Yaggi, Z. Wenlan, J.M. Siner, A. Shojaee, New Haven, CT, p.A7694**
- P212 Positive Airway Pressure Therapy in Patient Admitted for Acute Heart Failure with Pulmonary Hypertension and Obstructive Sleep Apnea Significantly Reduces Pulmonary Pressures/S. Sharma, Philadelphia, PA, p.A7695**
- P213 Long-Term Continuous Positive Airway Pressure Treatment for Obstructive Sleep Apnea Reduces Incident Diabetes Risk in a Chinese Cohort/P. Xu, C.K. Hui, M.M. Lui, D.C. Lam, D.Y. Fong, M.S. Ip, Pokfulam, Hong Kong, p.A7696**
- P214 The Role of Beta Blocker Therapy to Reduce the Risk of Cardiovascular Events in Patients with Obstructive Sleep Apnea: Retrospective Cohort Study/R. Shah, V. Badami, P. Kietrsunthorn, K. Patel, P. Farjo, R.C. Stansbury, S. Schmidt, Morgantown, WV, p.A7697**



11:45 a.m. - 1:15 p.m.

ATS DIVERSITY FORUM

MANCHESTER GRAND HYATT SAN DIEGO
Grand Hall B (Lobby Level)

The annual ATS Diversity Forum focuses on diversity within the fields of pulmonary, critical care, and sleep medicine and research. At this forum we will hear from **Kirsten Bibbins-Domingo, PhD, MD, MAS**, Inaugural Vice Dean for Population Health and Health Diversity, and Professor, Epidemiology & Biostatistics, at the University of California, San Francisco School of Medicine, who will address career and diversity issues followed by a question and answer period.

The Minority Trainee Development Scholarships (MTDS), which recognize trainees who are members of underrepresented minority groups, will also be presented at this forum to 40 individuals. MTDS recipients are selected for the quality of the science in their submitted abstract, among other criteria.

All conference attendees, including past MTDS recipients, are invited to attend this forum which provides an opportunity for discussion and networking among attendees. Attendees will find inspiration and valuable career insights.

The Diversity Forum is organized and presented by the ATS Membership Committee and will be hosted by its chair **Janet Lee, MD**. The Minority Trainee Development Scholarships are supported by the American Thoracic Society. Join us to hear from our speaker and to recognize the Scholarship recipients!

Conference badges are required for admission.

Space is limited and admittance is on a first-come, first-served basis. There is no additional fee. A plated lunch will be served.

CLINICAL • TRANSLATIONAL

WORKSHOP

CME Credits Available: 1.5

WS1 **DIAGNOSING PRIMARY CILIARY DYSKINESIA IN ADULTS AND CHILDREN**

R Registration Fee: \$75 (includes box lunch)
Attendance is limited. Pre-registration is required.

Assemblies on Pediatrics; Clinical Problems

11:45 a.m. - 1:15 p.m.

SAN DIEGO CONVENTION CENTER

Room 9 (Upper Level)

Target Audience

Providers of lung health to neonates, children and adults; scientists interested in translational advances in motile ciliopathies

Objectives

At the conclusion of this session, the participant will be able to:

- recognize which symptoms warrant a diagnostic work up for primary ciliary dyskinesia in neonates, children and adults;
- diagnose primary ciliary dyskinesia using currently available clinical tests;
- more appropriately refer patients with suspected primary ciliary dyskinesia to specialized diagnostic and management centers.

This session will provide the learner with an evidence based approach to diagnosing primary ciliary dyskinesia (PCD). The reference standard diagnostic test for PCD for the past 50 plus years has been ciliary ultrastructural abnormalities detected with a transmission electron microscope. We now know that this reference standard is flawed with significant false positive and false negative results. This workshop will educate attendees about a recently completed ATS guidelines project on the diagnosis of PCD, which evaluates evidence from the explosion of genetic and molecular scientific discovery on ciliopathies that has taken place in the past decade. Topics covered will include the utility of genetics, videomicroscopy, and nasal nitric oxide testing for the diagnosis of PCD.

Chairing: A.J. Shapiro, MD, Montreal, Canada
S.D. Dell, MD, Toronto, Canada

11:45 Case Presentations

D. Polineni, MPH, MD, Kansas City, KS

11:55 Overview of PCD Pathophysiology and Utility of Clinical Symptoms for Diagnosis

S.D. Dell, MD, Toronto, Canada

12:15 High Speed Video Microscopy and Nasal Nitric Oxide for Diagnosing PCD

A.J. Shapiro, MD, Montreal, Canada

12:35 Utility of Genetic Testing in Diagnosing PCD

D. Polineni, MPH, MD, Kansas City, KS

12:50 Summary of Recommendations for the Diagnosis of PCD

A.J. Shapiro, MD, Montreal, Canada

1:00 Question and Answer Period

S.D. Dell, MD, Toronto, Canada

CLINICAL

WORKSHOP

CME Credits Available: 1.5

WS2 **BRONCHOSCOPIC CRYOBIOPSY IN INTERSTITIAL LUNG DISEASE: EVIDENCE AND TECHNIQUE**

R Registration Fee: \$75 (includes box lunch)
Attendance is limited. Pre-registration is required.

Assemblies on Clinical Problems; Allergy, Immunology and Inflammation; Thoracic Oncology

11:45 a.m. - 1:15 p.m.

SAN DIEGO CONVENTION CENTER

Room 10 (Upper Level)

Target Audience

Broad audience appeal to providers including: general pulmonary physicians, advance bronchoscopists, interventional pulmonologists, thoracic surgeons, and trainees

Objectives

At the conclusion of this session, the participant will be able to:

- learn evidence of transbronchial cryobiopsy use in diffused parenchymal lung disease;
- diagnose interstitial lung disease with transbronchial cryobiopsies;
- apply different approaches in performing a standardized transbronchial cryobiopsy.

Transbronchial cryobiopsy (TBCB) is a technique where a cryotherapy probe is advanced to the lung parenchyma via the working channel of a standard bronchoscope following which cold temperatures (0° C) are generated at the tip of the probe leading to lung tissue adhesion. The probe and bronchoscope are then removed from the patient retrieving significantly larger pieces of lung tissue than those obtained via traditional transbronchial forceps biopsy (TBBX). TBCB compared to TBBX in patients with diffuse lung disease showed significantly larger biopsy pieces, more alveolar tissue, and less parenchymal damage/crush artifact. TBCB has recently become more popular for numerous diagnostic indications, with several recent studies suggesting the validity of TBCB for the diagnosis of diffuse parenchymal lung disease. However, the risk of procedural complications such as pneumothorax and moderate to severe bleeding needs to be considered when planning for this procedure.

Chairing: G.Z. Cheng, MD, PhD, Durham, NC
M.M. Wahidi, MBA, MD, Durham, NC

11:45 Evidence of Cryobiopsy in Interstitial Lung Disease

L.B. Yarmus, DO, Baltimore, MD

12:05 Technique in Transbronchial Cryobiopsy: American Perspective

M.M. Wahidi, MBA, MD, Durham, NC

12:25 Technique in Transbronchial Cryobiopsy: European Perspective

F.J. Herth, MD, Heidelberg, Germany

12:45 Interactive Session: Learning from the Experts

G.Z. Cheng, MD, PhD, Durham, NC
L.B. Yarmus, DO, Baltimore, MD
M.M. Wahidi, MBA, MD, Durham, NC
F.J. Herth, MD, Heidelberg, Germany

CLINICAL

ADULT CLINICAL CORE CURRICULUM

CME Credits Available: 1.5

MOC Points Available: 1.5

CC1 SLEEP MEDICINE CLINICAL CORE CURRICULUM I

11:45 a.m. - 1:15 p.m.

SAN DIEGO CONVENTION CENTER

Hall H (Ground Level)

Target Audience

Practicing internists, subspecialists, registered nurses and advanced practice nurses in pulmonary, critical care, and sleep medicine who work in a clinical setting and are currently engaged in maintenance of certification

Objectives

At the conclusion of this session, the participant will be able to:

- remain current with medical knowledge relevant to their practice in pulmonary, critical care, and sleep medicine;
- evaluate their understanding of key skills and content areas in pulmonary, critical care and sleep medicine, as well as receive feedback on their comprehension of a result of a pre-test/post-test comparison;
- support clinicians who are engaged in maintenance of certification activities by providing updates on subjects included in recertification requirements.

The ATS Clinical Core Curriculum Symposia focus on a 3-year content cycle of key medical content in the areas of Pulmonary, Critical Care, and Sleep Medicine. The topics are also aligned with corresponding MOC Medical Knowledge modules. This symposium is intended to assist clinicians with staying current with the growth of information relevant to their medical practice, as well as provide an opportunity to evaluate individual knowledge and skills while earning MOC Medical Knowledge points.

Chairing: S.M. Jamil, MD, La Jolla, CA
T.S. Wang, MD, Los Angeles, CA
W.D. Conwell, MD, Aurora, CA

11:45 Etiology and Assessment of Hypersomnia

J. Cooksey, MD, Chicago, IL

12:15 Narcolepsy: Pathophysiology and Treatment

M. Cao, DO, Redwood City, CA

12:45 Non-Narcoleptic Hypersomnias: Pathophysiology and Treatment

L.A. Panossian, MD, Martinez, CA

CENTERS FOR DISEASE CONTROL AND PREVENTION

L1 UPDATE FROM CDC'S TB TRIALS CONSORTIUM AND TB EPI STUDIES CONSORTIUM

12:15 p.m. - 1:15 p.m.

SAN DIEGO CONVENTION CENTER

Room 14 A-B (Mezzanine Level)

Target Audience

Clinicians and other health professionals involved in clinical and public health aspects of TB prevention, clinical care and control

Objectives

At the conclusion of this session, the participant will be able to:

- better utilize the new diagnostics for LTBI and improve the management of LTBI testing in children;
- describe the PK and tolerability of high dose levofloxacin in the treatment of MDR TB;
- describe new findings about use of high dose rifamycins.

CDC's two TB research consortia are engaged in clinical trials and epidemiologic studies relevant to the clinical and public health management, and prevention of, tuberculosis. This session provides updates from both groups.

Chairing: P. Nahid, MD, MPH, San Francisco, CA
J.E. Stout, MD, Durham, NC

12:15 Latent Class Analysis Assessing Test Characteristics of QFT, TSPOT, TST

J.E. Stout, MD, Durham, NC

12:30 Predictive Value of Latent TB Testing in Children, IGRAs vs. TST

A. Ahmed, MD, Charlotte, NC

12:45 Pharmacokinetics and Tolerability of High Dose Levofloxacin in MDR-TB

C.R. Horsburgh, MD, Boston, MA

1:00 High Dose Rifamycins for TB: Update on TBTC Study 31/ACTG A5349, and Related Work

P. Nahid, MD, MPH, San Francisco, CA

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

L2 USING NASA'S SATELLITE REMOTE SENSORS FOR THE STUDY OF THE ENVIRONMENT AND RESPIRATORY RELATED DISEASES

12:15 p.m. - 1:15 p.m.

SAN DIEGO CONVENTION CENTER

Room 3 (Upper Level)

Target Audience

This session provides pulmonary health researchers environmental data to understand the geographic, environmental, and meteorological differences in pulmonary diseases. The clinicians and researcher will hear from an public health researchers.

Objectives

At the conclusion of this session, the participant will be able to:

- Inform clinicians and researchers about ongoing NASA projects related to lung and cardiac diseases.
- Provide a synopsis of a project using observations of earth's environment and public health applications that are of interest to pulmonary clinicians and researchers.
- Provide an overview of the NASA Health and Air Quality Program relating to public health applications that are of interest to pulmonary clinicians and researchers.

Satellite earth observations present a unique vantage point of the earth's environment from space which offers a wealth of health applications for researchers. The session shows results of the remote sensing observations of earth and health applications. This session will detail on-going projects within NASA and specifically related to incorporating satellite remote sensing for studying PM2.5 and other Air Quality issues and their relationship to diseases such as asthma, and other environmentally-induced lung and cardiac diseases. There will also be an introduction the Health and NASA Air Quality Team of Researchers that work to assist health researchers in the study of causes of environmental diseases.

Chairing: S. Estes, M.S., Huntsville, AL
J. Haynes, MS, Washington, DC

12:15 NASA's Public Health and Studying Respiratory Diseases
J. Haynes, MS, Washington, DC

12:27 Linking Satellite Data with Respiratory Health: The NASA Health and Air Quality Applied Sciences Team (HAQAST)
T. Holloway, PhD, Madison, WI

12:39 High Resolution Particulate Matter Data for Improved Satellite-Based Assessments of Community Health
P.L. Kinney, ScD, Boston, MA

12:51 Association of Wildfire Smoke with Pharmaceutical, Inpatient, and Outpatient claims for Cardiopulmonary Disease: Oregon 2012
S. Magzamen, PhD, Fort Collins, CO

1:03 Retrospective Daily Fine Particulate Matter Time-Series Generation at Fine-Scale Using Near-Real Time Satellite and Dispersion Modeling Techniques
F. Freedman, PhD, San Jose, CA

NATIONAL INSTITUTE OF ALLERGY AND INFECTIOUS DISEASES, NIH

L3 ASTHMA AND ALLERGIC DISEASES COOPERATIVE RESEARCH CENTERS: ADVANCES IN ASTHMA

12:15 p.m. - 1:15 p.m. SAN DIEGO CONVENTION CENTER
Room 1 A-B (Upper Level)

Target Audience

Providers of care for people with asthma and researchers with an interest in asthma

Objectives

At the conclusion of this session, the participant will be able to:

- learn about the role that surfactant protein A may play in the innate immune response in asthma;
- understand and learn the role that epithelial cells play in asthma pathogenesis;
- learn how the genes on 17q21 influence airway remodeling in asthma.

This session will highlight new research on innate immunity and cellular responses within the lung that contribute to asthma pathogenesis.

Chairing: M. Kraft, MD, Tucson, AZ

12:15 Epithelial Cytokines and Airway Inflammation
S.F. Ziegler, PhD, Seattle, WA

12:29 Airway Epithelial Reprogramming in Asthma
D.J. Erle, MD, San Francisco, CA

12:43 Chromosome 17q21 Genes and Airway Remodeling in Asthma
D.H. Broide, MBChB, La Jolla, CA

12:57 Surfactant Protein A: An Innate Immune Modulator in Asthma?
M. Kraft, MD, Tucson, AZ

U.S. DEPARTMENTS OF LABOR & HEALTH AND HUMAN SERVICES

L4 THIS SESSION HAS BEEN CANCELED
CHALLENGES AND OPPORTUNITIES OF CARING FOR MINERS

NATIONAL INSTITUTE OF NURSING RESEARCH/NIH

L5 CAREGIVING AND SELF-MANAGEMENT: A SCIENTIFIC UPDATE FROM ATS AND NINR

12:15 p.m. - 1:15 p.m. SAN DIEGO CONVENTION CENTER
Room 16 A-B (Mezzanine Level)

Target Audience

Early career professionals; those with research interests in caregiving and self management research funding; health professionals who care for patients and their families with pulmonary and sleep disorders as well as those with needs requiring critical care.

Objectives

At the conclusion of this session, the participant will be able to:

- learn new strategies involving interventions to reduce burden on caregivers;
- improve medical/nursing adherence for young children with cystic fibrosis and their families/caregivers;
- learn all about the current and future caregiving research focus within NINR and Funding Opportunity Announcements (FOAs).

Clinicians and funding agencies recognize that the effects of acute and/or chronic illness extend beyond the patient and family members/caregivers are profoundly affected. Caring for such patients by necessity involves caregivers. The session will focus on caregiving and the needs of patients and their caregivers. Innovative approaches and new tools are needed to understand and improve health outcomes of patients with sleep disorders, chronic lung conditions and those whose family members are critically ill. Additionally, this session will address the future of caregiver research from an NINR perspective. NINR's targeted interests and future research focus will be addressed.

Chairing: E.G. Collins, PhD, Chicago, IL
J. Tate, PhD, RN, Columbus, OH
K. Huss, PhD, Bethesda, MD

12:15 Technology Applications for Family Caregivers
S. Czaja, PhD, Miami, FL

12:35 Caregiving for Children and Young Adults with Cystic fibrosis
A. Quittner, PhD, Miami, FL

12:55 Caregiving Science: National Institute of Nursing Research (NINR) Perspective
K. Huss, PhD, Bethesda, MD

DIVISION OF LUNG DISEASES/NHLBI, NIH

L6 RESEARCH BREAKTHROUGHS FROM NHLBI'S CENTERS FOR ADVANCED DIAGNOSTIC AND EXPERIMENTAL THERAPEUTICS PROGRAM

12:15 p.m. - 1:15 p.m. SAN DIEGO CONVENTION CENTER
Room 32 A-B (Upper Level)

Target Audience

Scientists interested in therapeutic product development

Objectives

At the conclusion of this session, the participant will be able to:

- understand disease biology informs therapeutic product development;
- recognize the importance of defining patient groups who may benefit most from specific therapeutics.

The translation of scientific evidence into therapeutic products to treat respiratory diseases and sleep is an exciting yet challenging process. Investigators funded through the Centers for Advanced Diagnostic and Experimental Therapeutics (CADET II) program supported by NHLBI will share their experience in translating their own scientific discoveries into therapeutic products for lung diseases. They will describe the biologic basis for their selected therapeutic targets and their approach to identifying candidate drugs to modify the target, as well as the process of selecting a therapeutic candidate to advance.

Chairing: J.P. Kiley, MS, PhD, Bethesda, MD

12:15 Product Development for Pulmonary Hypertension
R.A. Johns, MD, Baltimore, MD

12:30 A Novel Therapeutic Candidate for Idiopathic Pulmonary Fibrosis
N. Kaminski, MD, New Haven, CT

12:45 A Targeted Approach to Asthma Management G.L. Chupp, MD, New Haven, CT

1:00 Panel Discussion/Questions

DIVISION OF LUNG DISEASES/NHLBI, NIH

L7 PREVENTION AND EARLY TREATMENT OF ACUTE LUNG INJURY (PETAL) CLINICAL TRIALS NETWORK

12:15 p.m. - 1:15 p.m. SAN DIEGO CONVENTION CENTER
Room 30 A-B (Upper Level)

Target Audience

Practicing critical care and emergency medicine clinicians and clinical researchers, fellows, students, nurses, and other medical professionals

Objectives

At the conclusion of this session, the participant will be able to:

- understand the goals and structure of the PETAL network;
- understand the questions being addressed in PETAL and the design/conducts of the trials;
- learn new findings and results of PETAL trials.

This session will provide an update on the NHLBI Prevention and Early Treatment of Acute Lung Injury (PETAL) clinical trials network. The session will describe the structure and goals of the PETAL network and an overview of progress in ongoing trials and results to date.

Chairing: R.G. Brower, MD, Baltimore, MD
L.A. Reineck, MD, Bethesda, MD

12:15 PETAL Overview/Update
R.G. Brower, MD, Baltimore, MD

12:25 Update on the Neuromuscular Blockade in Severe ARDS (ROSE) Trial
D.T. Huang, MD, MPH, Pittsburgh, PA

12:37 Update on the Vitamin D (VIOLET) Trial
A. Ginde, MD, MPH, Aurora, CO

12:49 Update on the Clovers Trial
I.S. Douglas, FRCP, MD, Denver, CO

1:05 Questions and Answers

DIVISION OF LUNG DISEASES/NHLBI, NIH

L8 NEW RESULTS FROM THE PHENOTYPING IN THE SUBPOPULATIONS AND INTERMEDIATE OUTCOME MEASURES IN COPD (SPIROMICS) STUDY

12:15 p.m. - 1:15 p.m. SAN DIEGO CONVENTION CENTER
Room 33 A-C (Upper Level)

Target Audience

Researchers, medical trainees, those with an interest in COPD pathogenesis

Objectives

At the conclusion of this session, the participant will be able to:

- learn about imaging phenotyping of COPD;
- learn about molecular phenotyping of COPD;
- learn about clinical phenotyping of COPD.

SPIROMICS is an NHLBI-sponsored study that supports the prospective collection and analysis of phenotypic, biomarker, genetic, genomic, and clinical data from subjects with COPD for the purpose of identifying subpopulations and intermediate outcome measures. Participants in this session will learn about the progress of the SPIROMICS study, specifically the study design, and progress in general enrollment, genomics, biomarkers, and radiology.

Chairing: L. Postow, PhD, Bethesda, MD
P. Woodruff, MD, MPH, San Francisco, CA

12:15 The SPIROMICS II Study
P. Woodruff, MD, MPH, San Francisco, CA

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- 12:27 Sputum and Blood Eosinophils in COPD**
A.T. Hastie, PhD, Winston Salem, NC
- 12:39 Clinical Implications of Bronchodilator Responsiveness in SPIROMICS**
I. Barjaktarevic, MD, Los Angeles, CA
- 12:51 The SPIROMICS Air Study**
N.N. Hansel, MD, MPH, Baltimore, MD
- 1:03 Debility in COPD**
C.M. Freeman, PhD, Ann Arbor, MI

DIVISION OF LUNG DISEASES/NHLBI, NIH

L9 INITIAL FINDINGS FROM THE NHLBI PVDOMICS PROGRAM: DEEP PHENOTYPING OF PATIENTS WITH PULMONARY HYPERTENSION

12:15 p.m. - 1:15 p.m. SAN DIEGO CONVENTION CENTER

Room 29 A-D (Upper Level)

Target Audience

Health providers, trainees, and researchers

Objectives

At the conclusion of this session, the participant will be able to:

- learn about metabolomic characterization in PH;
- learn new exercise (CPET, RHC) findings in PH;
- learn and understand new imaging (Echo, MRI) findings in PH.

Pulmonary hypertension (PH) currently has no cure, thus PH research remains a high priority for NHLBI. In 2014, NHLBI launched a major multi-center clinical study of PH named: Redefining Pulmonary Hypertension through Pulmonary Vascular Disease Phenomics (PVDOMICS). This program includes one Data Coordinating Center (DCC) and six U.S. clinical centers that are conducting an observational study in patients with all types of PH. The overall goal of the PVDOMICS network is to perform comprehensive phenotyping across WHO groups as well as intermediate phenotypes in order to reconstruct the traditional classification and define new meaningful subclassifications. Currently, since the start of enrollment in 2017, there have been over 235 participants with a goal of 1500 by March 2019. This session will describe initial results from the study in approximately the first 700 subjects.

Chairing: L. Xiao, MD, PhD, Bethesda, MD
N.S. Hill, MD, Boston, MA
S.C. Erzurum, MD, Cleveland, OH
G. Beck, PhD, Cleveland, OH

- 12:15 Overall Summary of PVDOMICS Participants**
E. Horn, MD, New York, NY
- 12:30 PVDOMICS Exercise (CPET, RHC) Finding**
F.P. Rischard, MD, Tucson, AZ
- 12:45 PVDOMICS Imaging (Echo, MRI) Findings**
R.P. Frantz, MD, Rochester, MN
- 1:00 PVDOMICS Metabolomic Characterization**
J. Leopold, MD, Boston, MA

MEET THE PROFESSOR SEMINARS

CME Credits Available: 1

R Registration Fee: \$70.00 (includes box lunch.)
Attendance is limited. Pre-registration is required.

12:15 p.m. - 1:15 p.m. MARRIOTT MARQUIS SAN DIEGO MARINA

- MP401 UPDATE IN ASTHMA: FROM GUIDELINES TO IMPLEMENTATION**
R. Nusrat, MD, Princeton, NJ
Grand Ballroom 1 (North Tower, Lobby Level)
- MP402 TEACHING CURIOSITY: THE ROLE OF SKEPTICISM AND INQUISITIVENESS IN MEDICAL EDUCATION**
J.B. Richards, MD, MA, Boston, MA
D.H. Roberts, MD, Boston, MA
Grand Ballroom 2 (North Tower, Lobby Level)
- MP403 UPDATES IN INTERNAL MEDICINE FOR THE PULMONOLOGIST FROM THE ANNALS OF INTERNAL MEDICINE**
D.B. Taichman, MD, PhD, Philadelphia, PA
Grand Ballroom 3 (North Tower, Lobby Level)
- MP404 LUNG TRANSPLANTATION FOR IPF: WHO, WHEN, AND HOW**
N. Patel, MD, Philadelphia, PA
Grand Ballroom 4 (North Tower, Lobby Level)
- MP405 NEW FLEISCHNER SOCIETY GUIDELINES FOR PULMONARY NODULES**
A.C. Mehta, MBBS, Cleveland, OH
Presidio 1 (North Tower, Lobby Level)
- MP406 CONNECTIVE TISSUE DISEASE AND THE LUNG: LESSONS LEARNED FROM DIFFICULT CASES**
M. Kreider, MD, Philadelphia, PA
Presidio 2 (North Tower, Lobby Level)
- MP407 TRUTHS, MYTHS AND UNANSWERED QUESTIONS IN CHRONIC BRONCHITIS**
V. Kim, MD, Philadelphia, PA
Temecula 1-2 (North Tower, First Floor)
- MP408 NEUROLOGICAL DISASTERS IN THE ICU**
T.P. Bleck, MD, Chicago, IL
Temecula 3-4 (North Tower, First Floor)
- MP409 CONTROVERSIES ON MANAGEMENT OF COMMUNITY-ACQUIRED PNEUMONIA AND PLEURAL INFECTIONS**
Y.C.G. Lee, MBChB, PhD, Perth, Australia
G.W. Waterer, MBBS, MBA, PhD, Perth, Australia
Leucadia (South Tower, First Floor)
- MP410 DIAGNOSIS AND TREATMENT OF SLEEP DISORDERED BREATHING IN THE COMPLEX PEDIATRIC PATIENT**
S. Bhargava, MD, Palo Alto, CA
Point Loma (South Tower, First Floor)
- MP411 TIPS FOR LEADING A PULMONARY DIVISION, A DEPARTMENT OF MEDICINE AND BEYOND**
S. Idell, MD, PhD, Tyler, TX
Solana (South Tower, First Floor)

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

MP412 INVESTIGATING COLLAGEN AND ELASTIN STRUCTURE IN THE DISEASED LUNG USING NON-LINEAR OPTICAL MICROSCOPY

T.-L. Hackett, PhD, Vancouver, Canada
Balboa (South Tower, Third Floor)

MP413 THE ROLE OF POLYSOMNOGRAPHY ON DECANNULATION PROCESS IN CHILDREN

N. Gurbani, DO, Cincinnati, OH
 N. Simakajornboon, MD, Cincinnati, OH
Mission Hills (South Tower, Third Floor)

MP414 WHAT PULMONOLOGISTS NEED TO KNOW ABOUT CANCER IMMUNOTHERAPY

T. Peikert, MD, Rochester, MN
Cardiff (South Tower, Third Floor)

MP415 TELEMEDICINE FOR PULMONARY, CRITICAL CARE AND SLEEP MEDICINE

J. Singh, MD, MHS, MHA, Charlotte, NC
Del Mar (South Tower, Third Floor)

MEDICAL EDUCATION SEMINAR

CME Credits Available: 1

ME1 ASSESSING YOUR LEARNERS: AVOIDING PITFALLS AND MAKING IT MEANINGFUL

R Registration Fee: \$70 (includes box lunch)
 Attendance is limited. Pre-registration is required.

12:15 p.m. - 1:15 p.m. SAN DIEGO CONVENTION CENTER
Room 2 (Upper Level)

Target Audience

This session is targeted at anyone who develops or uses assessment tools for evaluation. The content of the session is relevant to all types of assessment tools including MCQs, checklists, global rating scales, questionnaires and surveys.

Objectives

At the conclusion of this session, the participant will be able to:

- describe validity evidence for assessment tools
- evaluate the worth/completeness of validity evidence for an assessment tool
- develop assessment tools with reasonable validity evidence

We will critically appraise the validity of a variety of existing assessment tools. Participants will review problems commonly encountered during assessment tool development and strategies to minimize these challenges. The session will be interactive and participants are encouraged to bring assessment tools they are currently developing or using, so that they can receive feedback on how to improve these tools. Participants will leave with relevant, practical skills.

Speakers: R. Adamson, MBBS, Seattle, WA
 D. Nelson, MD, Rochester, MN
 K. De Boer, MD, Ottawa, Canada
 J. McSparron, MD, Ann Arbor, MI

CLINICAL

THEMATIC SEMINAR SERIES

TSS1 NEUROMUSCULAR RESPIRATORY FAILURE

R Registration Fee: \$140 for full series (includes box lunch)
 Attendance is limited. Pre-registration is required.

This is a 3-part series. Those registering for this seminar series will be registered for all 3 parts on Sunday, Monday and Tuesday. The topics and schedule for each part are listed below.

Sunday 12:15 p.m. - 1:15 p.m. MARRIOTT MARQUIS SAN DIEGO MARINA
Palomar (South Tower, Third Floor)

Identification and Treatment Options by Disease Stage

D. McKim, MD, Ottawa, Canada

Transitioning Care From Pediatric to Adult Treatment Modalities

D.W. Sheehan, MD, PhD, Buffalo, NY

Monday 12:15 p.m. - 1:15 p.m. MARRIOTT MARQUIS SAN DIEGO MARINA
Palomar (South Tower, Third Floor)

Update on the Management of Respiratory Failure in DMD

R. Shell, MD, Columbus, OH

Extubation Protocols for the "Unweanable"

L. Wolfe, MD, Chicago, IL

Tuesday 12:15 p.m. - 1:15 p.m. MARRIOTT MARQUIS SAN DIEGO MARINA
Palomar (South Tower, Third Floor)

Management of Respiratory Failure in ALS: The VA as a Model in Team Based Approach to Care

K.A. Provost, DO, PhD, Buffalo, NY

Advance Disease Management and Transitioning to Hospice

J.O. Benditt, MD, Seattle, WA



ATS 2018

Where today's science meets tomorrow's care™

International Conference

San Diego, CA

Sunday Afternoon, May 20

1:15 p.m. - 2:15 p.m.

VISIT THE EXHIBIT HALL

Take this opportunity between sessions to visit the Exhibit Hall to gain practical knowledge to advance care and research. Exhibitors will be on hand to provide information on pharmaceutical products, medical equipment, publications and research services.

BASIC • CLINICAL • TRANSLATIONAL

YEAR IN REVIEW

CME Credits Available: 2

MOC Points Available: 2

A81 PEDIATRIC YEAR IN REVIEW

Assembly on Pediatrics

2:15 p.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Room 6 B (Upper Level)

Target Audience

Pediatricians; pediatric assembly members; attendees interested in pediatric care

Objectives

At the conclusion of this session, the participant will be able to:

- improve the treatment of children with severe asthma;
- learn new findings about the respiratory microbiome, with application to pediatric pulmonary medicine;
- apply scientific advances to the management of children with neuromuscular diseases.

Pediatric Year in Review focuses on 4 topics in Pediatrics where there have been significant advances over the past year. Topics are chosen which have broad interest to the Assembly. The discussants will use recent publications to provide an update and perspective on scientific developments that have clinical relevance in Pediatrics.

Chairing: P.E. Moore, MD, Nashville, TN
S.D. Dell, MD, Toronto, Canada

2:15 Update on Management of Severe Asthma in Children
C.L. Yang, MD, MSc, Vancouver, Canada

2:45 Enhancing Innate Immune Function to Counter Multidrug-Resistant Superbugs in Pneumonia and Cystic Fibrosis
V. Nizet, MD, La Jolla, CA

3:15 What to Expect When You're Expecting: Update on the Pediatric Respiratory Microbiome
L.R. Hoffman, MD, PhD, Seattle, WA

3:45 Update on Treatment of Neuromuscular Diseases in Children
R. Amin, MD, Toronto, Canada

This session and the International Conference are supported by educational grants from GlaxoSmithKline, Sanofi Genzyme and Regeneron Pharmaceuticals, Vertex Pharmaceuticals Inc.

All CME sessions have been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) and are free of the control of commercial interests.

CLINICAL

CLINICAL TOPICS IN PULMONARY MEDICINE

CME Credits Available: 2

A82 REACHING FOR THE GOLD: ADDRESSING GAPS IN THE CURRENT GOLD GUIDELINES

Assembly on Clinical Problems

2:15 p.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Ballroom 20 B-C (Upper Level)

Target Audience

Physicians; nurses; advanced practice practitioners (APRNs and PAs); and allied health (respiratory care) providers who are involved in the management of patients with chronic obstructive lung disease.

Objectives

At the conclusion of this session, the participant will be able to:

- integrate updates to the current GOLD guidelines into the management of their COPD patients;
- recognize research gaps in the management of COPD patients;
- learn new findings about topic areas not adequately addressed in the current GOLD guidelines and begin integrating this evidence into the management of COPD patients.

This session will provide a brief introduction summarizing major changes in the Global Initiative for Chronic Obstructive Lung Disease (GOLD) current guidelines and will then focus on areas of COPD management that are either not addressed or not adequately addressed by the current guidelines. The session will conclude with a panel discussion focused on the future direction of the GOLD guidelines as it relates to the topics discussed.

Chairing: B.R. Celli, MD, Boston, MA
J.A. Wedzicha, MD, PhD, London, United Kingdom
S.P. Bhatt, MD, Birmingham, AL

2:15 GOLD Guidelines 2018: Where are We Going and Where Have We Been?
A. Agustí, MD, Barcelona, Spain

2:25 The Forgotten Phenotypes: Symptomatic Smokers and Chronic Bronchitis
V. Kim, MD, Philadelphia, PA

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- 2:40 Exercise Testing and Physical Activity Assessment: Who, When and Why?**
R. Casaburi, MD, PhD, Torrance, CA
- 2:55 Beyond the Lung: Addressing Comorbidity Screening and Treatment**
J.M. Bon, MD, MS, Pittsburgh, PA
- 3:10 Not Just Smoking Cessation: Addressing Non-Tobacco Smoke COPD Risk Factors**
N.N. Hansel, MD, MPH, Baltimore, MD
- 3:25 Treatment in stable COPD: Navigating the LABA/LAMA/ICS Road Map**
J.A. Wedzicha, MD, PhD, London, United Kingdom
- 3:40 Treatment in Stable and Unstable COPD: Non-Invasive Ventilation**
N. Hart, MD, London, United Kingdom
- 3:55 Panel Discussion**
B.R. Celli, MD, Boston, MA

This session and the International Conference are supported by educational grants from AstraZeneca LP, GlaxoSmithKline, Sunovion Pharmaceuticals Inc.

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CLINICAL

CLINICAL TOPICS IN PULMONARY MEDICINE

CME Credits Available: 2

A83 GREAT CASES: CLINICAL, RADIOLOGIC, AND PATHOLOGIC CORRELATIONS BY MASTER PHYSICIANS

Council of Chapter Representatives

2:15 p.m. - 4:15 p.m. **SAN DIEGO CONVENTION CENTER**
Ballroom 20 D (Upper Level)

Target Audience

Clinicians in the fields of pulmonary and critical care medicine, pediatric pulmonology, sleep medicine, thoracic surgery, and infectious disease

Objectives

At the conclusion of this session, the participant will be able to:

- integrate the clinical presentation, radiologic and pathologic findings for 7 challenging cases;
- understand the clinical reasoning used to determine differential diagnosis by Master clinicians using a multidisciplinary approach;
- describe the associated pathology and radiology of the cases.

Learners will have the opportunity to observe master clinicians approach challenging clinical problems by working through 7 unknown cases selected from the abstract pool. Collaboration with a master radiologist reviewing the films and a master pathologist reviewing pathology slides will demonstrate the multidisciplinary approach to difficult cases. The audience will participate through interactive questions that are tallied electronically. Additional discussion by presenters and master panelists will enhance the educational experience.

Chairing: A.C. Wang, MD, La Jolla, CA
S.P. Kantrow, MD, New Orleans, LA

- 2:15 A Persistent Narrowing**
L. Riley, MD, Gainesville, FL
- 2:25 Homeless in LA**
S.C. Guo, MD, Los Angeles, CA
- 2:35 Looking Past the Heartache**
K.I. Aronson, MD, New York, NY
- 2:45 Casting a Wide Diagnostic Net in Pediatric Respiratory Failure**
J. Levin, MD, Boston, MA
- 2:55 Things That Go Bump in the Airway**
J. Ng, MD, Boston, MA
- 3:05 A Mosaic Mystery**
B.L. Icard, DO, Roanoke, VA
- 3:15 The Lungs as "The Punisher"**
M. Scoulos-Hanson, DO, Pittsburgh, PA
- 3:25 Radiologic Findings**
A.G. Wilcox, Los Angeles, CA
- 3:37 Pathologic Findings**
J.L. Myers, MD, Ann Arbor, MI
- 3:50 Master Clinicians**
S.I. Rounds, MD, Providence, RI
M.I. Schwarz, MD, Aurora, CO
P.C. Stillwell, MD, Aurora, CO

BASIC • CLINICAL

CRITICAL CARE TRACK

CME Credits Available: 2

A84 THE NEW ENGLAND JOURNAL OF MEDICINE AND JAMA. DISCUSSION ON THE EDGE: REPORTS OF RECENTLY PUBLISHED CRITICAL CARE RESEARCH

2:15 p.m. - 4:15 p.m. **SAN DIEGO CONVENTION CENTER**
Room 29 A-D (Upper Level)

This session will provide a forum for attendees to interact with the authors and editors about papers published in JAMA and the New England Journal of Medicine. Papers presented will be recent publications, selected by the editors, to be of significant importance to the field of critical care medicine. Attendees will have the opportunity to hear presentations directly from the author and address questions to both the authors and editors. The discussion is intended to provide a unique insight into these papers, the selection process, and how the research applies directly to the field of critical care medicine.

Chairing: H. Bauchner, MD, Editor in Chief, JAMA, The JAMA Network
P.A. Kritek, MD, EDM, Associate Editor, NEJM Journal Watch

Speakers And Talks To Be Announced

BASIC • CLINICAL • TRANSLATIONAL

BASIC SCIENCE CORE

CME Credits Available: 2

A85 MITOCHONDRIAL DYSFUNCTION AND REPROGRAMMING IN LUNG AGING AND DISEASE

Assemblies on Allergy, Immunology and Inflammation; Respiratory Cell and Molecular Biology; Respiratory Structure Function

**2:15 p.m. - 4:15 p.m. MARRIOTT MARQUIS SAN DIEGO MARINA
Pacific Ballroom 21 (North Tower, First Floor)****Target Audience**

Basic scientists, physiologists, allergists, pulmonologists, translational researchers, fellows and residents, and graduate trainees interested in lung pathophysiology

Objectives

At the conclusion of this session, the participant will be able to:

- understand how aging can contribute to mitochondrial dysfunction in disease pathogenesis;
- describe potential options for mitochondrial reprogramming as a therapeutic approach;
- aware of how new findings are being positioned to promote research direction and therapeutic strategies that focus on mitochondria.

Chronic lung diseases are diseases of the elderly and mechanisms that link aging with the pathogenesis of lung disease have recently been discovered. In particular, over the last decade, accumulating evidence has suggested a causative link between mitochondrial dysfunction and major phenotypes associated with aging, such as inflammation, tissue remodeling, and aberrant wound repair. Thus mitochondrial dysfunction has become a focus for our understanding of lung aging and disease mechanisms and the potential of reprogramming mitochondria function for the development of new therapies is emerging. This integrated symposium highlights emerging understanding of the breadth and integrated pathobiological responses of mitochondria during aging and disease, how these may contribute to lung tissue destruction, and potential for this knowledge to inform development of mitochondria-reprogramming therapies.

Chairing: S.M. Cloonan, PhD, New York, NY
A.L. Mora, MD, Pittsburgh, PA**2:15 Aging, Mitochondria and Cellular Senescence: Implications for Chronic Lung Disease**

J. Campisi, PhD, Novato, CA

2:39 Targeting Mitochondrial Dysfunction in Pulmonary Fibrosis to Drive Development of Novel Therapeutics

N. Kaminski, MD, New Haven, CT

3:03 Mitochondria and Telomere Dysfunction During Lung Aging and Disease

J. Passos, PhD, Newcastle upon Tyne, United Kingdom

3:27 Propagation of Deleterious Mitochondrial Genomes is a Consequence of Prolonged Stress Response Signaling

C. Haynes, PhD, Worcester, MA

3:51 Mitochondrial Adaptation and Homeostasis in Tumorigenesis

E.P. Henske, MD, Boston, MA

BASIC • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

A86 ATS MYTHBUSTERS: BIOENGINEERING APPROACHES WILL REVOLUTIONIZE RESPIRATORY MEDICINE IN THE NEXT TEN YEARS

Assemblies on Respiratory Cell and Molecular Biology; Allergy, Immunology and Inflammation; Environmental, Occupational and Population Health; Respiratory Structure and Function

**2:15 p.m. - 4:15 p.m. MARRIOTT MARQUIS SAN DIEGO MARINA
Pacific Ballroom 18-19 (North Tower, First Floor)****Target Audience**

Clinicians, basic researchers, and other lung health care professionals looking to learn about state of the art ex vivo approaches to the rapidly developing field of personalized lung regenerative medicine using acellular scaffolds and iPS cells

Objectives

At the conclusion of this session, the participant will be able to:

- understand the current bioengineering approaches for generating new lung tissue - ex vivo or endogenously;
- understand the current advances and limitations of each of the different bioengineering approaches being explored;
- learn new findings about our understanding between extracellular matrix components and stem and progenitor cell interactions.

This session will summarize the recent advances in iPS cell differentiation and their use as potential therapies as well as ex vivo lung tissue bioengineering approaches for lung disease and transplantation. The mythbusters session will debate whether or not exogenous cells are needed to induce regeneration or if iPS cells, in the absence of a transplantable matrix, will be sufficient for exogenous approaches to regeneration; whether or not acellular human scaffolds are needed for ex vivo regeneration of lung tissue for transplantation or if xenogeneic scaffolds can be used.

Chairing: D.E. Wagner, PhD, Munich, Germany
M. Koenigshoff, MD, PhD, Aurora, CO
J.R. Rock, PhD, Boston, MA**2:15 The Matrix is Not Needed for Ex Vivo Regeneration of Lung Tissue Using iPS Cells**

A.L. Firth, PhD, Los Angeles, CA

2:40 Exogenous Cells Are Not Needed to Induce Regeneration

S.F. Badylak, MD, PhD, DVM, Pittsburgh, PA

3:05 Mythbuster #1

M.R. Kolb, MD, PhD, Hamilton, Canada

3:10 Mythbuster #2

D.N. Kotton, MD, Boston, MA

3:15 Acellular Human Scaffolds Will Be Used for Regenerating Transplantable Lungs

S.E. Gilpin, PhD, Boston, MA

3:40 Acellular Xenogeneic Scaffolds Will Be Used of Lung Bioengineering Approaches

D.J. Weiss, MD, PhD, Burlington, VT

4:05 Mythbuster #3
B.B. Moore, PhD, Ann Arbor, MI

4:10 Mythbuster #4
A. Panoskaltis-Mortari, PhD, Minneapolis, MN

TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

A87 MECHANISMS OF PERSISTENT ORGAN DYSFUNCTION AFTER CRITICAL ILLNESS

Assemblies on Critical Care; Allergy, Immunology and Inflammation; Clinical Problems; Respiratory Cell and Molecular Biology; Respiratory Structure and Function

2:15 p.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER

Ballroom 20 A (Upper Level)

Target Audience

Fellows, physician-scientists, translational scientists. Those interested in the clinical epidemiology of and health services delivery to patients with persistent critical illness and post-intensive care syndrome.

Objectives

At the conclusion of this session, the participant will be able to:

- understanding fundamental mechanisms of persistent organ dysfunction in survivors of critical illness
- contextualizing the development and emergence of new pharmacological and non-pharmacological interventions to limit, treat and prevent persistent organ dysfunction in survivors of critical illness
- understand how the basic science in the field of persistent organ injury can be translated to the bedside, how it impacts our management now and implications for the future

Patients who survive the acute phase of sepsis frequently acquire new organ dysfunction and enter a state of persistent critical illness, or fail to recover from their acute injuries and experience post-intensive care syndrome. Current attempts to mitigate these effects have focused on reducing harms done in the ICU and maximizing rehabilitation. Can specific pathways be leveraged to ameliorate the morbidity and mortality experienced by critical illness survivors? This session will describe the emerging understanding of the mechanisms that set the stage for persistent organ dysfunction in survivors of acute critical illness.

Chairing: C.C. Dos Santos, MD, Toronto, Canada
B. Singer, MD, PhD, Ann Arbor, MI
S.J. Denstaedt, MD, Ann Arbor, MI

2:15 Of Mitochondria and Muscle in Mice and Men
D.C. Files, MD, Winston-Salem, NC

2:35 After the Fire of Sepsis, Smoldering Neuroinflammation
B. Singer, MD, PhD, Ann Arbor, MI

2:55 Acceleration of Cardiovascular Disease After Sepsis
A. Murat Kaynar, MD, MPH, Pittsburgh, PA

3:15 Sepsis: Earthquake in the Genomic Landscape?
E. Davenport, DPhil, Cambridge, MA

3:35 Immune Reprogramming and Cardiovascular Disease
S. Bekkering, PhD, Nijmegen, Netherlands

3:55 Innocence and Experience: Training of Innate Immunity
J. Cheng, PhD, Hsinchu City, Taiwan

BASIC • BEHAVIORAL • CLINICAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

A88 CPAP AND WEIGHT GAIN: MECHANISMS AND BEYOND

Assembly on Sleep and Respiratory Neurobiology

2:15 p.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER

Room 7 A-B (Upper Level)

Target Audience

Pulmonologists, respiratory therapists, clinical and basic researchers, primary care practitioners, and other health professionals who are interested in treating patients with sleep apnea and obesity

Objectives

At the conclusion of this session, the participant will be able to:

- recognize the role of CPAP in weight gain and understand its clinical significance;
- understand the mechanisms whereby CPAP use may lead to weight gain with respect to components of energy balance (i.e. dietary intake, physical activity, energy expenditure);
- learn about novel mobile health interventions used to improve efforts at weight loss that can be incorporated into management of patients with OSA.

Based on recent analyses of randomized trials suggesting that continuous positive airway pressure (CPAP) treatment of obstructive sleep apnea (OSA) is associated with weight gain, this multidisciplinary symposium brings together experts from obesity, behavioral, pulmonary and sleep medicine fields to address essential questions: What could be the underlying mechanisms for weight gain after CPAP, including its impact on energy expenditure, food intake, and physical activity? What is the clinical significance of the weight gain after CPAP? How does CPAP affect body composition? What are novel, technology-based weight loss interventions to mitigate weight gain in OSA management?

Chairing: E. Tasali, MD, Chicago, IL
M.T. Naughton, MD, Prahran, Australia
C.P. O'Donnell, PhD, Pittsburgh, PA
N. Ayas, MPH, MD, Vancouver, Canada

2:15 CPAP and Weight Gain: Up to Date Evidence From Randomized Clinical Trials
L.F. Drager, MD, Sao Paulo, Brazil

2:35 CPAP and Weight Gain: What do We Know About the Mechanisms?
S. Pamidi, MD, Montreal, Canada

3:00 Is the Weight Gain After CPAP Clinically Meaningful?
D. Schoeller, PhD, Madison, WI

- 3:25 CPAP and Weight Gain: Good or Bad?**
C.M. Hoyos, BSc(Hons), MPH, PhD, Glebe, Australia
- 3:50 Future in OSA Management: New Technology-Based Weight Loss Interventions**
B. Spring, PhD, Chicago, IL

CLINICAL**SCIENTIFIC SYMPOSIUM**

CME Credits Available: 2

MOC Points Available: 2

A89 EMERGING CONCEPTS IN CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION

Assemblies on Pulmonary Circulation; Clinical Problems

2:15 p.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Room 15 A-B (Mezzanine Level)

Target Audience

Translational and clinical researchers interested in chronic thromboembolic disease. Clinicians and trainees who care for patients after acute pulmonary embolism, and patients with pulmonary hypertension

Objectives

At the conclusion of this session, the participant will be able to:

- describe the epidemiology of CTEPH and appropriate screening strategies for acute PE survivors;
- understand how the pathology of CTEPH affects the rationale for management strategies;
- describe the different surgical, interventional and medical treatment options and appropriate patient selection.

This session will focus on novel and emerging concepts in chronic thromboembolic pulmonary hypertension (CTEPH). The evolution of acute pulmonary embolism (PE) to chronic disease and the epidemiology of CTEPH are poorly defined. Similarly, little is known about the pathologic and pathogenic underpinnings of this disease. Time-tested diagnostic and therapeutic strategies are being challenged by advances in imaging, interventional procedures and medical therapy. This session will address these knowledge gaps by providing novel evidence describing the incidence of CTEPH after acute PE and the importance of collateral circulation in the pathology of CTEPH. Advances in surgical techniques will be reviewed, as well as the emergence of balloon pulmonary angioplasty as a treatment option.

Chairing: G.A. Heresi, MD, MS, Cleveland, OH
W.R. Auger, MD, La Jolla, CA

- 2:15 From Acute PE to CTEPH: Epidemiology and Detection - Can We Do Better?**
F.E.A. Klok, MD, PhD, Leiden, Netherlands
- 2:35 CTEPH Pathogenesis and Pathology: A New Understanding**
P. Dorfmuller, PhD, MD, Le Plessis Robinson, France
- 2:55 Diagnosis and Surgical Treatment: Time Tested Strategies and Recent Advances**
W.R. Auger, MD, La Jolla, CA

- 3:15 Chronic Thromboembolic Disease Without Pulmonary Hypertension: A New Frontier?**
G.A. Heresi, MD, MS, Cleveland, OH
- 3:35 Balloon Pulmonary Angioplasty: The "Not So New" Kid on the Block**
D.S. Poch, MD, La Jolla, CA
- 3:55 Medical Therapy and Future Perspectives in CTEPH**
N.H. Kim, MD, La Jolla, CA

BASIC • CLINICAL • TRANSLATIONAL**SCIENTIFIC SYMPOSIUM**

CME Credits Available: 2

A90 CRACKING THE VACCINE CODE IN TB: INNATE IMMUNITY

Assemblies on Pulmonary Infections and Tuberculosis; Allergy, Immunology and Inflammation

2:15 p.m. - 4:15 p.m.

MARRIOTT MARQUIS SAN DIEGO MARINA

Grand Ballroom 8-9 (North Tower, Lobby Level)

Target Audience

Clinicians; fellows; basic scientists; epidemiologists

Objectives

At the conclusion of this session, the participant will be able to:

- identify distinctive "failure" aspects of the current vaccine in TB (T cell mediated immunity)
- identify distinctive "novel" aspects of the future vaccine in TB (Innate Immunity, Epigenetic reprogramming of Stem Cells)

Historically, vaccines have been designed to generate antigen-specific memory B and T cell responses that act rapidly upon antigen reencounter. Although control of TB requires T cells to prevent disease progression, multiple clinical trials, including the latest MVA85A using T cell targeted vaccine approaches have failed to provide protection against Mycobacterium tuberculosis (Mtb) infection. In addition, hyper-conserved Mtb genes involved in the production of immunodominant T cell epitopes have recently been described indicating that Mtb may paradoxically benefit from recognition by T cells. These results suggest that the concept of vaccines aimed at generating robust memory T cell responses for protection against TB needs to be profoundly revisited.

Chairing: M. Divangahi, PhD, Montreal, Canada
J.M. Keane, MD, Dublin, Ireland
D.M. Lewinsohn, MD, PhD, Portland, OR

- 2:15 Conventional T Cells in Vaccines Against TB**
J.D. Ernst, MD, New York, NY
- 2:35 Interferon-Gamma and Vaccines Against TB**
S. Behar, MD, PhD, Worcester, MA
- 2:55 Unconventional T Cells in TB Vaccine Development**
D.M. Lewinsohn, MD, PhD, Portland, OR
- 3:15 The Impact of Diabetes on Immunity Against TB**
H. Kornfeld, MD, Worcester, MA

3:35 Targeting Metabolism in Vaccines Against TB
J.M. Keane, MD, Dublin, Ireland

3:55 Stem Cells in TB Vaccine Development
M. Divangahi, PhD, Montreal, Canada

CLINICAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

MOC Points Available: 2

A91 REDUCING DISPARITIES IN ENVIRONMENTAL LUNG DISEASE: EMERGING METHODS IN EXPOSURE MITIGATION

Assemblies on Environmental, Occupational and Population Health; Pediatrics

2:15 p.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Room 30 A-B (Upper Level)

Target Audience

Individuals involved in care of patients with environmentally-mediated lung disease (i.e. asthma, COPD, occupational lung disease); basic, clinical, and translational researchers focused on environmental/occupational exposures and respiratory health

Objectives

At the conclusion of this session, the participant will be able to:

- identify populations disproportionately affected by respiratory morbidity and mortality attributable to disparities in environmental exposure to air pollution;
- describe emerging methods for personal exposure mitigation, including the evidence supporting these methods and remaining knowledge gaps;
- apply appropriate techniques to mitigate environmental exposures in unique patient populations.

Populations disproportionately affected by environmental pollution demonstrate a higher prevalence of lung disease and associated health effects. While the social and economic factors underlying these disparities are complex, personal exposure modification provides a means to target susceptible populations and achieve meaningful reductions in pollutant exposure. This session will provide insight into emerging methods of exposure mitigation that may be used to reduce disparities in environmentally-mediated lung disease.

Chairing: J.C. Celedon, DrPH, MD, Pittsburgh, PA
E. Brigham, MD, MHS, Baltimore, MD
F.D. Gilliland, MD, PhD, Los Angeles, CA
B.J. Sheares, MD, MS, New York, NY

2:15 Disparities in Environmental Exposures and Lung Health
J.R. Balmes, MD, San Francisco, CA

2:40 Home Air Purifier Implementation
S. Bose, MD, MPH, Baltimore, MD

3:00 Reducing Exposures Through Patient Advocacy: Legal Partnerships
D. Harris, MD, New Haven, CT

3:20 A Patient's Perspective
M. Brisuela, Chicago, IL

3:30 Interventions to Reduce Occupational Exposure Disparities
D. Heederik, PhD, Utrecht, Netherlands

3:50 Clean Cook Stove Interventions
C.C. Hooper Miele, MD, Baltimore, MD

4:10 Questions and Answers

CLINICAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

A92 FROM PRINCIPLES TO PRACTICE: EXPLORING MECHANISTIC KNOWLEDGE TO ADVANCE CLINICAL CARE

2:15 p.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Room 33 A-C (Upper Level)

Target Audience

Clinicians, basic and translational researchers and trainees interested in successes delivered from basic research in COPD, cystic fibrosis and lung transplantation access and morbidity. The session will show how primary discovery research can address daunting clinical challenges in these pulmonary disease arenas.

Objectives

At the conclusion of this session, the participant will be able to:

- improve understanding of lung and systemic type 2 inflammation and eosinophilia in COPD;
- learn new strategies to manage the care of cystic fibrosis;
- understand the roles of Extracorporeal Membrane Oxygenation and Ex Vivo Lung Perfusion to optimize outcomes for selected lung transplant candidates.

Basic research conducted by several laboratories has led to major advances in the management of COPD, Cystic Fibrosis and other airway disorders. Since lung transplantation is effective for severe COPD and CF, technologies to expand availability of donor lungs can be transformative for patients. This session will present the basic findings which underscore the use of mepolizumab for eosinophilic COPD, CFTR potentiators for cystic fibrosis and ex vivo lung perfusion and ECMO to rescue nonideal donor lungs for transplantation and avail tolerance for long wait list times. The clinical utility of these findings, complementing basic narratives, will show how primary discovery propels clinical advances for airway disorders.

Chairing: E.R. Neptune, MD, Baltimore, MD
J.L. Koff, MD, New Haven, CT
J.M. Pilewski, MD, Pittsburgh, PA

2:15 Paradigmatic Breakthroughs for COPD, CF and Lung Transplantation
E.R. Neptune, MD, Baltimore, MD

2:20 Defining Eosinophilic and Type 2 Inflammation in COPD
S. Christenson, MD, San Francisco, CA

2:35 Therapeutic Interventions for COPD with Eosinophilic Inflammation
J.M. Wells, MD, Birmingham, AL

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- 2:50 Questions and Answers**
- 2:58 Improving the Quality of Life in Patients with CF Through CFTR Modulation**
J.L. Taylor-Cousar, MD, Denver, CO
- 3:13 Multi-Drug CFTR Modulator Therapy Targeting the F508del CFTR Mutation**
S.M. Rowe, MD, Birmingham, AL
- 3:28 Questions and Answers**
- 3:36 Advances in Extracorporeal Membrane Oxygenation (ECMO) as a Bridge to Transplantation**
J.M. Reynolds, MD, Durham, NC
- 3:51 Emergence of Ex Vivo Lung Perfusion (EVLP) to Assess and Optimize Donor Lungs**
J. D'Cunha, MD, PhD, Pittsburgh, PA
- 4:06 Questions and Answers**
- This session and the International Conference are supported by educational grants from AstraZeneca LP, GlaxoSmithKline, Sunovion Pharmaceuticals Inc., Vertex Pharmaceuticals Inc.*
- All CME sessions have been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) and are free of the control of commercial interests.*

MINI SYMPOSIUM

A93 **ILD: CLINICAL TRIALS**2:15 p.m. - 4:15 p.m. **SAN DIEGO CONVENTION CENTER**

Room 6 A (Upper Level)

Chairing: L.H. Lancaster, MD, Nashville, TN
K.F. Gibson, MD, Pittsburgh, PA
M. Wijsenbeek, MD, PhD, Rotterdam, Netherlands

2:15 The Design of IPF Clinical Trials: The Coming Decade!
K.K. Brown, MD, Denver, CO

Oral Presentations

- 2:30 A Phase 2 Randomized, Controlled Trial of Laparoscopic Anti-Reflux Surgery for the Treatment of Idiopathic Pulmonary Fibrosis/G. Raghu, C. Pellegrini, E.S. Yow, K.R. Flaherty, K.C. Meyer, I. Noth, M.B. Scholand, J. Cello, L.A. Ho, J.S. Lee, J. Lin, J.P. Maloney, F.J. Martinez, E. Morrow, M. Patti, S. Rogers, P.J. Wolters, R. Yates, K. Anstrom, H.R. Collard, Seattle, WA, p.A7698**
- 2:45 A Randomized, Placebo-Controlled, Double Blind Phase I/II Clinical Trial to Assess the Safety, Tolerability, Pharmacokinetics and Pharmacodynamics of 12 Weeks of Treatment of an Autotaxin Inhibitor (GLPG1690) in Individuals with Idiopathic Pulmonary Fibrosis/T.M. Maher, E. van der Aar, O. Van de Steen, L. Allamassey, J. Desrivot, S. Dupont, L. Fagard, F. Ann, W. Wuyts, London, United Kingdom, p.A2436**
- 3:00 High-Flow Nasal Cannula Oxygen Therapy on Exercise Capacity for Fibrosing Interstitial Lung Disease: A Proof-of-Concept Randomized Controlled Trial/A. Suzuki, M. Ando, T. Kimura, K. Kataoka, T. Yokoyama, E. Shiroshita, Y. Kondoh, Seto, Japan, p.A2437**

- 3:15 Experiences of Supplemental Ambulatory Oxygen for Patients with Fibrotic Lung Disease: Qualitative Evidence from the Mixed Method AmbOx Trial/S. Fleming, A. Firouzi, M. Farquhar, V. Tsipouri, D. Visca, L. Mori, S. Canu, C.R. Hogben, M. Kokosi, V. Kouranos, G. Margaritopoulos, F.J. Chua, A.-M.M. Russell, G. Peter, P.L. Molyneaux, T.M. Maher, A.U. Wells, P. Sestini, E.A. Renzoni, London, United K, p.A2438**
- 3:30 Evaluation of the Effect of PBI-4050 Alone or in Combination with Pirfenidone or Nintedanib on Blood Biomarkers Linked to the Fibrotic Process in IPF Patients/L. Gagnon, B. Grouix, A. Laverdure, L. Foulkes, R. Sawtell, A. Hagerimana, P. Laurin, M.R.J. Kolb, J. Moran, J. Parker, Laval, Canada, p.A2439**
- 3:45 Efficacy and Safety of Recombinant Human Pentraxin-2 in Patients with Idiopathic Pulmonary Fibrosis/G. Raghu, B. Van Den Blink, M.J. Hamblin, A.W. Brown, J.A. Golden, L.A. Ho, M. Wijsenbeek, M. Vasakova, A. Pesci, D.E. Antin-Ozerkis, K. Meyer, M. Kreuter, H. Santin-Janin, G.J. Mulder, R. Gupta, L. Richeldi, Seattle, WA, p.A2440**
- 4:00 Safety and Efficacy of SAR156597 in Idiopathic Pulmonary Fibrosis (IPF): A Phase 2, Randomized, Double-Blind, Placebo-Controlled Study/G. Raghu, L. Richeldi, B. Crestani, P. Wung, R. Bejuit, C. Esperet, C. Soubrane, Seattle, WA, p.A2441**

MINI SYMPOSIUM

A94 **BRAVE NEW WORLD: THE CUTTING EDGE OF PH RESEARCH**2:15 p.m. - 4:15 p.m. **SAN DIEGO CONVENTION CENTER**

Room 14 A-B (Mezzanine Level)

Chairing: A. Hemnes, MD, Nashville, TN
F. De Man, PhD, Amsterdam, Netherlands
M. Aldred, PhD, Indianapolis, IN

Oral Presentations

- 2:15 Role of Skeletal Muscle SIRT3 in PH-HFpEF/Y.C. Lai, K. Noda, J. Baust, T. Bachman, D. Goncharov, E.A. Goncharova, A.L. Mora, M.T. Gladwin, Pittsburgh, PA, p.A2442**
- 2:30 Skeletal Muscle Mitochondrial Oxidative Phosphorylation Function in Idiopathic Pulmonary Arterial Hypertension - In Vivo and In Vitro Study/S. Sithampanathan, M.C. Rocha, J.D. Parikh, K.A. Rygiel, G. Falkous, J. Grady, K.G. Hollingsworth, M.I. Trenell, R.W. Taylor, D.M. Turnbull, G.S. Gorman, P. Corris, Newcastle upon Tyne, United Kingdom, p.A2443**
- 2:45 Differential Effects of Three Distinct Exercise Training Approaches on Right Ventricular Function and Mortality in a Sugen-Hypoxia Rat Model of Severe Pulmonary Arterial Hypertension (PAH)/M.B. Brown, A.L. Frump, G.M. Long, A. Troutman, A. Fisher, R.G. Presson, T. Lahm, Indianapolis, IN, p.A2444**
- 3:00 Leptin and Leptin Receptor in PAH and the Right Ventricle/M. Talati, A. Trammell, E. Brittain, N. Fortune, Y.R. Su, J.D. West, A. Hemnes, Nashville, TN, p.A2445**

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- 3:15 Critical Role of Drp1 Binding Partners (MiD49 and MiD51) Mediated Mitotic Fission in Pulmonary Arterial Hypertension: Mechanistic Implications/A. Das Gupta, K.-H. Chen, J. Lin, F. Potus, S. Bonnet, J. Iremonger, J. Fu, J. Mewburn, D. Wu, K. Dunham-Snary, A.L. Theilmann, Z.-C. Jing, C. Hindmarch, M.L. Ormiston, A. Lawrie, S.L. Archer, Kingston, Canada, p.A2446**
- 3:30 Fibroblast-Mediated Glycolytic Reprogramming of Macrophages Through IL6, Lactate and PKM2 Is a Critical Intercellular Pathway in Pulmonary Hypertension/K. El Kasmi, S. Riddle, K.E. Rawlinson, J.M. Poczobutt, M.J. Ostaff, H. Zhang, A. Flockton, M. Li, M.G. Frid, S. Kumar, B.A. McKeon, C. Mickael, R. Kumar, R. Moldovan, A. D'alessandro, B.B. Graham, K.R. Stenmark, Aurora, CO, p.A2447**
- 3:45 Spontaneous Mutation in Pituitary Tumor Transforming Gene-1 Contributes to Increased Susceptibility to Severe Pulmonary Arterial Hypertension Induced by SU5416 in Rats/K.R. Chaudhary, Y. Deng, A. Yang, K. Rowe, E. Cuppen, D.J. Stewart, Ottawa, Canada, p.A2448**
- 4:00 Bone Morphogenetic Protein Receptor 2 Expression Is Reduced in Blood Across Pulmonary Arterial Hypertension Subtypes but Does Not Reflect Disease Severity/A. Sweatt, R.E. Wells, N. Purington, H. Hedlin, D. Sudheendra, A. Hsi, R.T. Zamanian, E.F. Spiekeroetter, Stanford, CA, p.A2449**

MINI SYMPOSIUM

A95 LATEST ADVANCES IN PULMONARY REHABILITATION, COPD, AND IPF

**2:15 p.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER
Room 16 A-B (Mezzanine Level)**

Chairing: B.W. Carlin, MD, Sewickley, PA
A.E. Holland, PhD, Melbourne, Australia

Oral Presentations

- 2:15 A New Bronchodilator Response Grading Strategy Based on Distribution of FEV1 Increase Identifies Clinically Distinct Patient Groups in the COPD Gene Cohort/A. Gorek Dilektasli, J. Porszasz, W.W. Stringer, Y. Pak, H.B. Rossiter, R. Casaburi, J.E. Hansen, Bursa, Turkey, p.A2450**
- 2:30 Cachexia, Precachexia and Mortality in Chronic Obstructive Pulmonary Disease (COPD)/H.Y. Kwan, M. Maddocks, C.M. Nolan, S.E. Jones, S. Patel, R. Barker, S. Kon, W.D.-C. Man, Harefield, United Kingdom, p.A2451**
- 2:45 Improving Physical Activity to Obtain Sustainable Benefits in Extra-Pulmonary Consequences of COPD After Pulmonary Rehabilitation: A Randomized Controlled Trial/M. Loeckx, F. Rodrigues, H. Demeyer, W. Janssens, T. Troosters, Leuven, Belgium, p.A2452**
- 3:00 Short-Term Effects of Non-Invasive Ventilation During Exercise in Hypercapnic Patients with Very Severe COPD - A Randomized Controlled Cross-Over Trial/T. Schneeberger, R. Gloeckl, A. Stegemann, U. Schonheit-Kenn, J. Oversohl, V. Andrianopoulos, K. Kenn, A.R. Koczulla, Schoenau am Koenigssee, Germany, p.A2453**

- 3:15 Sinusoidal High Intensity Exercise Training in Patients with COPD and Healthy Controls/H. van der Vaart, A. Adami, M. Barsingerhorn, A. Gorek-Dilektasli, B. Oenema, R. Cao, R.A. Calmelat, H.B. Rossiter, D.T. Cannon, R. Casaburi, J. Porszasz, Groningen, Netherlands, p.A2454**
- 3:30 Gait Speed and Mortality Following Hospitalization for Acute Exacerbations of Chronic Obstructive Pulmonary Disease: A Prospective Cohort Study/R. Barker, S. Kon, S.E. Jones, M. Maddocks, W. Gao, C.M. Nolan, S. Patel, H.Y. Kwan, S.F. Clarke, M.I. Polkey, P. Cullinan, W.D.-C. Man, Harefield, United Kingdom, p.A2455**
- 3:45 Improvement in Gait Speed with Pulmonary Rehabilitation Is Associated with Increased Survival in Idiopathic Pulmonary Fibrosis/C.M. Nolan, M. Maddocks, T.M. Maher, S. Patel, R.E. Barker, S.E. Jones, H.Y. Kwan, B. Mehta, L. Hogg, R. Tuffnell, P.M. George, P. Cullinan, W.D.-C. Man, Harefield, United Kingdom, p.A2456**
- 4:00 Five-Repetition Sit-to-Stand Test in Idiopathic Pulmonary Fibrosis/S.E. Jones, C.M. Nolan, S. Patel, R.E. Barker, H.Y. Kwan, M. Maddocks, T.M. Maher, P. Cullinan, W.D.-C. Man, Harefield, United Kingdom, p.A2457**

MINI SYMPOSIUM

A96 THE STEM AND PROGENITOR CELL NICHES AS THERAPEUTIC TARGETS

**2:15 p.m. - 4:15 p.m. MARRIOTT MARQUIS SAN DIEGO MARINA
Grand Ballroom 5-6 (North Tower, Lobby Level)**

Chairing: C.M. Magin, PhD, Aurora, CO
M.I. Ramirez, PhD, Philadelphia, PA
K.K. Kim, MD, Ann Arbor, MI

Oral Presentations

- 2:15 Single Cell RNAseq of Lymphangioliomyomatosis (LAM) Lungs Reveals Unique Populations Consistent with LAM Cells and Lymphatic Endothelial Cells/A.-K.T. Perl, M. Adam, J. Green, S. Sherman, J.J. Yu, E.J.-A. Kopras, S. Potter, F.X. McCormack, Cincinnati, OH, p.A7699**
- 2:30 Distal Differentiation of Basal Epithelial Stem Cells by Notch Pathway Inhibition Is Enhanced by Ex Vivo Lung Scaffold and Endothelial Cell Co-Culture/S.E. Gilpin, D.E. Gorman, T. Wu, H.C. Ott, Boston, MA, p.A2458**
- 2:45 Integrated Analysis of Alveolar Epithelial Progenitor Cells Identifies Extensive Occult Diversity During Alveolar Regeneration/W. Zacharias, M. Morley, J. Zepp, E. Cantu, E.E. Morrissey, Philadelphia, PA, p.A2459**
- 3:00 Correction of Type 2 Alveolar Epithelial Cell Dysfunction by Gene Editing Patient-Specific Induced Pluripotent Stem Cells/K.-D. Alysandratos, A. Jacob, S.H. Guttentag, M.F. Beers, D.N. Kotton, Boston, MA, p.A2460**
- 3:15 Effect of IL-22 on Lung Progenitor Cells/K. Hebert, N. McLaughlin, D.A. Pociask, New Orleans, LA, p.A2461**

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- 3:30 GM-CSF Drives Alveolar Regeneration from Distal Lung Stem Cell Pools After Influenza Virus Infection/A.I. Vazquez, M. Heiner, E. El Agha, S. Bellusci, T. Hain, W. Seeger, S. Herold, Giessen, Germany, p.A2462**
- 3:45 Induced Pluripotent Stem Cell-Derived Bronchospheres as a Novel Platform for Personalized Cystic Fibrosis Drug Prediction/A. Berical, K.B. McCauley, D.C. Thomas, S.H. Randell, D.N. Kotton, F. Hawkins, Boston, MA, p.A2463**
- 4:00 Clonal Analysis of Airway Stem Cell Heterogeneity in Cystic Fibrosis/S. Niroula, W. Rao, K. Goller, R. Mahalingam, S. Wang, J. Xie, M. Duleba, M.L. Metersky, J.F. Engelhardt, K.R. Parekh, F. McKeon, W. Xian, Houston, TX, p.A2464**

MINI SYMPOSIUM

A97 RE-DEFINING ALI PATHOGENESIS

2:15 p.m. - 4:15 p.m. MARRIOTT MARQUIS SAN DIEGO MARINA

Pacific Ballroom 22 (North Tower, First Floor)

Chairing: C.M. Shaver, MD, PhD, Nashville, TN
N. Meyer, MD, MS, Philadelphia, PA
C.J. Britto-Leon, MD, New Haven, CT

Featured Speaker

2:15 ARDS: How to Reduce Heterogeneity to Facilitate Patient Selection for Clinical Trials/M.A. Matthay, MD, San Francisco, CA

Oral Presentations

- 2:30 Real-Time Optical Imaging of MRSA-Induced Alveolar Injury Mechanisms/J.L. Hook, J. Bhattacharya, New York, NY, p.A2465**
- 2:45 -Role of Microtubule-Associated Signaling in Staphylococcus Aureus-Induced Lung Injury/P. Karki, Y. Tian, Y. Ke, N. Sarich, A. Birukova, Baltimore, MD, p.A2466**
- 3:00 Epithelial Membrane Protein 2 Regulates Transepithelial Migration of Neutrophils into the Inflamed Airspace/W.-C. Lin, K.M. Gowdy, J.H. Madenspacher, M. Lyons-Cohen, H. Nakano, D.N. Cook, R.L. Zemans, J.P. Mizgerd, C.J. Williams, M.B. Fessler, Research Triangle Park, NC, p.A2467**
- 3:15 Epithelial β 1 Integrin Regulates Alveolar Macrophage Accumulation in the Homeostatic Lung/E. Plosa, L.R. Young, T.S. Blackwell, R. Zent, Nashville, TN, p.A2468**
- 3:30 The Circadian Clock in Myeloid Cells Regulates the Severity of Ventilator-Induced Lung Injury in Mice/M. Felten, L.G. Teixeira-Alves, E. Letsiou, C. Chaput, H.C. Muller-Redetzky, N.W. Suttrop, A. Kramer, B. Maier, M. Witzernath, Berlin, Germany, p.A2469**
- 3:45 Endogenous Circulating BMP9 Protects Lung Endothelial Barrier Function and Is Down-Regulated During LPS-Induced Inflammation/W. Li, L. Long, X. Yang, R. King, M. Southwood, H. Jiang, E.R. Chilvers, S. Nourshargh, N. Morrell, Cambridge, United Kingdom, p.A2470**
- 4:00 Cigarette Smoke Exposure Induces Loss of Lung WWOX Expression Which Is Associated with Increased Vascular Leak During ARDS/S. Singla, Z. Shakir, M.T. Gomes, N.M. Jones, V. Natarajan, R.F. Machado, Chicago, IL, p.A2471**

MINI SYMPOSIUM

A98 CLINICAL STRATEGIES TO IMPROVE LUNG CANCER EARLY DETECTION: WHO IS AT RISK HERE?

2:15 p.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Room 6 C/F (Upper Level)

Chairing: M.B. Schabath, PhD, Tampa, FL
N.T. Tanner, MD, MSCR, Charleston, SC
J. Iaccarino, MD, MSc, Boston, MA

Oral Presentations

- 2:15 Determination of the Eligibility Criteria for Cancer Care Ontario's Lung Cancer Screening Pilot for People at High Risk/M. Tammemagi, B. Miller, M. Yurcan, T. Patel, H. Schmidt, G. Darling, St. Catharines, Canada, p.A2472**
- 2:30 Racial Differences in Baseline Low-Dose CT Screenings Among Patients Enrolled in a Lung Cancer Screening Program/M. Lake, H.-S. Juon, J. Kim, R. McIntire, J. Barta, Philadelphia, PA, p.A2473**
- 2:45 Stratification of Screening Participants in the National Lung Screening Trial According to COPD Status and Outcomes in the NLST-ACRIN Sub-Study (N=10,054)/R.J. Hopkins, F. Duan, C. Chiles, G.D. Gamble, D. Aberle, R.P. Young, Auckland, New Zealand, p.A2474**
- 3:00 Genetic Risk Score from 12 SNP Panel Predicts Lung Cancer Lethality in the National Lung Screening Trial (NLST) - A Validation Study in the NLST-ACRIN (N=10,054)/R.P. Young, R.J. Hopkins, F. Duan, C. Chiles, D. Aberle, G.D. Gamble, Auckland, New Zealand, p.A2475**
- 3:15 Subsolid Nodules in Lung Cancer Screening/R.L. Myers, S. Atkar-Khattra, J. Mayo, J. English, S. Lam, Vancouver, Canada, p.A2476**
- 3:30 Providence VA Lung Cancer Screening Program: Performance: Comparison of Local False Positive and Invasive Procedure Rates to Published Trial Data/E.J. Gartman, M.D. Jankowich, J. Baptiste, L. Nici, Providence, RI, p.A2477**
- 3:45 Stratifying Lung Cancer Risk After Negative Baseline Screening Test: Assessing the Role of Emphysema/P. Yong, K.M. Sigel, M.S. Kale, G. Mhango, J.J. Zulueta, J.P. de Torres, C.Y. Kong, J.P. Wisnivesky, New York, NY, p.A2478**

Featured Speaker

4:00 Screening for Lung Cancer: A Good Beginning but Still a Long Way to Go!/J.R. Jett, MD, Denver, CO

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

A101 MECHANISMS AND CLINICAL FEATURES OF SEVERE ASTHMA

2:15 p.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER

Room 11 A-B (Upper Level)

Abstract Summaries 2:15-2:45

Viewing/Discussion 2:45-4:15

Chairing: M. Kraft, MD, Tucson, AZ

F. Holguin, MD, MPH, Aurora, CO

L.E. Crotty Alexander, MD, San Diego, CA

401 CXCL9/10 Elevation in Severe Asthma Is Refractory to Corticosteroid Therapy/M. Gauthier, M.L. Fajt, A. Ray, S.E. Wenzel, Pittsburgh, PA, p.A2479

402 Goblet Cell Metaplasia and Loss of Ciliated Cells in the Epithelium of Severe Asthma - Results from the Severe Asthma Research Program (SARP)/J. Boomer, C. Goss, L.B. Bacharier, A.M. Coverstone, R. Weaver, K. Schechtman, R. Schutz, T. Sangoi, G. Sajol, H. Yin-Declue, S.L. Brody, E. Israel, B.D. Levy, W. Phipatanakul, N.N. Jarjour, S.E. Wenzel, J.V. Fahy, W.G. Teague, B.M. Gaston, S.C. Erzurum, W.C. Moore, E.R. Bleeker, B. Phillips, A.M. Fitzpatrick, D. Mauger, M. Castro, St. Louis, MO, p.A2480

403 Diesel Exhaust Particles (DEP) Induced Epithelium-Derived Cytokines Expression in Severe Allergic Asthma Through Aryl Hydrocarbon Receptor (AhR) Activation/C.-M. Weng, C.-H. Wang, M.-J. Lee, H.-P. Kuo, Taoyuan, Taiwan, p.A2481

404 The Effect of Oral Corticosteroids on Circulating Type-2 Cytokine Producing Cells in Patients with Severe Eosinophilic Asthma/G. Hynes, S. Go, J. Luo, R. Shrimanker, C. Borg, C. Connolly, L. Xue, I.D. Pavord, Oxford, United Kingdom, p.A2482

405 Hyaluronan Synthase 2 (HAS2) Dysfunction Induce Severe Eosinophilic Airway Inflammation via Inflammatory Cytokines and Chemokines/T. Kiwamoto, Y. Tsunoda, M. Sherpa, H. Sakurai, S.-Y. Lin, M. Matsuyama, Y. Matsuno, Y. Morishima, Y. Ishii, N. Hizawa, Tsukuba, Japan, p.A2483

406 Regulation of the Cyclic AMP Signaling Axis in Monocytic Cells by Inflammatory Polarizing Cytokines: Implications for Severe Asthma/N.M. Weathington, H. Wong, B. Modena, S.E. Wenzel, Pittsburgh, PA, p.A2484

407 MBD2 Promotes Th17 Differentiation in Severe Asthma Via Modulating SOCS3 Expression/W. Sun, X. Xiang, Changsha, China, p.A2485

408 Validation of the Six-Gene Sputum Signature for Inflammatory Phenotyping Severe Asthma/M. Christensen, K.J. Baines, P.G. Gibson, V. Backer, A. Sverrild, A.V. Bülow, C. Porsbjerg, Copenhagen, Denmark, p.A2486

409 Distinct Profile of Inflammatory and Remodeling Biomarkers in Sputum of Severe Asthmatic Patients with or Without Persistent Airway Obstruction/S. Cianchetti, S. Brighindi, E. Bacci, C. Cardini, F.L. Dente, M. Latorre, I. Puxeddu, P. Paggiaro, Pisa, Italy, p.A2487

- 410 Benralizumab Improves Morning Peak Expiratory Flow While Reducing Oral Corticosteroid Dosages for Patients with Severe, Uncontrolled Asthma in the ZONDA Phase III Trial/N. Lugogo, J.N. Kline, I. Hirsch, M. Goldman, J.G. Zangrilli, F. Trudo, Ann Arbor, MI, p.A2488**
- 411 Demographics, Clinical Characteristics, and Response to Benralizumab Treatment for Patients with Severe, Eosinophilic Asthma and Fixed Airflow Obstruction/B.E. Chipps, I. Hirsch, F. Trudo, M. Alacqua, J.G. Zangrilli, Sacramento, CA, p.A2489**
- 412 Impact of Body Mass Index on Efficacy of Benralizumab in Patients with Severe, Uncontrolled Eosinophilic Asthma: Pooled Analysis of the SIROCCO and CALIMA Trials/F. Trudo, I. Hirsch, G. Gopalan, U. Martin, Wilmington, DE, p.A2490**
- 413 Eicosapentaenoic Acid (EPA)-Enriched Fish Oil Intervention in Severe Asthmatics with Low-Risk Versus High-Risk 5-Lipoxygenase (ALOX5) Gene Polymorphisms/A.A. Zeki, G.U. Schuster, M. Rabowsky, M. Cedeno, C. Kivler, L. Mu, H. Allayee, L. Qi, C.B. Stephensen, N.J. Kenyon, Davis, CA, p.A2491**
- 414 Microbial Profiles of Severe Asthma Exacerbations Requiring Admission to Intensive Care/A. Ershadi, J.L. Gomez, Derby, CT, p.A2492**
- 415 The Identify Project: Do We Know the Most Prevalent Allergens in Severe Asthma?/J. Schreiber, C. Mailaender, Magdeburg, Germany, p.A2493**
- 416 A Prospective Cohort Study of Severe Asthma and Its Determinants in an African Population: The African Severe Asthma Program/B. Kirenga, W. Muttamba, L. Mugenyi, W. Katagira, G. Nyale, N. Lugogo, A.B. Bindegdie, T. Haile, W.O. Worodria, H.T. Aanyu, C. De Jong, M. Joloba, F. Mukumbi, G. Yimer, T. Van Der Molen, J. Chakaya, Kampala, Uganda, p.A2494**
- 417 Longitudinal Analysis of Airway Type-2 Biomarkers in the Severe Asthma Research Program/M.C. Peters, B. Phillips, D. Mauger, A.T. Hastie, N.N. Jarjour, L.C. Denlinger, B.D. Levy, E. Israel, M. Castro, S.C. Erzurum, S.E. Wenzel, J.V. Fahy, San Francisco, CA, p.A2495**
- 418 Longitudinal Evaluation of Airway Remodeling in Asthma Over Time by Airway Biopsy/S. Sood, G. Sajol, C. Goss, A. Sheshadri, S.A. Comhair, S.C. Erzurum, C. Hall, R. Weaver, R. Schutz, J. Kozlowski, M. Castro, St. Louis, MO, p.A2496**
- 419 Upregulation of Paroxonase 1 (PON1) in Severe Asthma/ F. Holguin, C. Liu, S.A. Comhair, S. Hazen, E.R. Bleeker, W.W. Busse, W.J. Calhoun, M. Castro, A.M. Fitzpatrick, B.M. Gaston, B.M. Gaston, N.N. Jarjour, E. Israel, K.F. Chung, S.C. Erzurum, S.E. Wenzel, W.G. Teague, S. Sharma, K. Kechris, D.E. Winnica, L.G. Que, Aurora, CO, p.A2497**
- 420 Whole-Genome Admixture Mapping Reveals Novel Loci for Bronchodilator Response in African Americans from the Severe Asthma Research Program/M. Daya, V.E. Ortega, E. Ampleford, J.G. Zein, N. Rafaels, M. Castro, S.C. Erzurum, J.V. Fahy, A.M. Fitzpatrick, E. Israel, N.N. Jarjour, B.D. Levy, S.E. Wenzel, G.A. Hawkins, W.C. Moore, S.P. Peters, K. Barnes, D.A. Meyers, E.R. Bleeker, Aurora, CO, p.A2498**

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- 421 **A Randomized, Controlled Phase 3 Study, LIBERTY ASTHMA QUEST, Evaluating the Efficacy and Safety of Dupilumab in Uncontrolled Moderate-to-Severe Asthma**/M. Castro, J. Corren, I.D. Pavord, J.F. Maspero, S.E. Wenzel, K.F. Rabe, W.W. Busse, L.B. Ford, L. Sher, J.M. FitzGerald, C. Katelaris, Y. Tohda, B. Zhang, H. Staudinger, G. Pirozzi, N. Amin, M. Ruddy, B. Akinlade, A. Khan, J. Chao, R. Martincova, N. M. Graham, A. Teper, St. Louis, MO, p.A7700
- 422 **Efficacy and Safety of Tralokinumab in Two Phase III Trials of Severe, Uncontrolled Asthma**/R. Panettieri, U. Sjobring, A. Péterffy, P. Wessman, K. Bowen, E. Piper, G. Colice, C.E. Brightling, New Brunswick, NJ, p.A7701
- 423 **Small Molecule Mimetics of a-Helical Domain of IRAK2 Attenuate the Pro-Inflammatory Effects of IL-33 in an Asthma-Like Mouse Model**/J. Li, K. Saruta, J. Dumouchel, J. Magat, J. Thomas, D. Ajami, M. Rebek, J. Rebek, La Jolla, CA, p.A7702
- 424 **Influence of Key Clinical Baseline Factors on Benralizumab Efficacy for Patients with Severe, Uncontrolled Asthma**/E.R. Bleecker, M.E. Wechsler, J.M. Fitzgerald, A. Menzies-Gow, Y. Wu, I. Hirsch, M. Goldman, P. Newbold, J.G. Zangrilli, Tucson, AZ, p.A7703
- 425 **IgA-Seq of the Airway Microbiota in Severe Asthma**/J.L. Gomez, P. Bielecki, Q. Liu, A. Bielecka, N. Palm, R. Flavell, G.L. Chupp, New Haven, CT, p.A7704
- 504 **Medication Adherence and Persistence in Chronic Obstructive Pulmonary Disease (COPD) Patients on Triple Therapy in a US Commercially-Insured Population**/M. Bogart, F. Laliberté, M.S. Duh, J.W. Wu, G. Germain, R.H. Stanford, Research Triangle Park, NC, p.A2502
- 505 **Impact of Antibiotic Utilization in Acute Exacerbations of Chronic Obstructive Pulmonary Disease in Hospitalized Patients with Normal Procalcitonin Levels**/K. Ma, H. Bean, D. Bremmer, M. Moffa, C. Watson, T. Walsh, Pittsburgh, PA, p.A2503
- 506 **Reassessment of the Need for Oxygen Supplementation Varies by Hospital System and Remains Low in Patients with Chronic Obstructive Pulmonary Disease (COPD)**/L. Spece, E. Epler, M. Griffith, L.M. Donovan, D.H. Au, L.C. Feemster, Seattle, WA, p.A2504
- 507 **Emergency Department Management of Acute Exacerbations of Chronic Obstructive Pulmonary Disease (AECOPD): Factors Predicting Readmission**/S.F. Van Eeden, W. Bartels, S.L. Adamson, L. Leung, D.D. Sin, Vancouver, Canada, p.A2505
- 508 **Importance of Multidisciplinary Collaboration to Reduce COPD Readmissions in VA**/S. Rinne, K. Resnick, R. Elwy, A.C. Melzer, V. Prieto-Centurion, B.E. Jones, C.G. Slatore, R.S. Wiener, Bedford, MA, p.A2506
- 509 **Time-Varying Reasons for Readmission During 30 Days After Hospitalization for COPD Exacerbation**/T. Goto, M. Faridi, C.A. Camargo, K. Hasegawa, Boston, MA, p.A2507
- 510 **Impact of a Respiratory Therapist Driven COPD Clinical Pathway on COPD Readmission Rates**/N. Pozzessere, J. Wirth, E. Bates, Portland, ME, p.A2508
- 511 **Healthcare Costs in a Bundle Payment for Care Improvement Model for Asthma and COPD Hospitalizations: A Pilot Study of Patient Engagement**/A.S. Iyer, K.N. Bridges, L.Z. Hoyle, D.P. Kirkpatrick, C.C. Blackburn, L.T. Leach, T. Parekh, J.F. Detelich, S.P. Bhatt, J.M. Wells, Birmingham, AL, p.A2509
- 512 **The Effects of Social Support on Patients with COPD**/L. Turnier, M. Eakin, M.T. Dransfield, T. Parekh, J. Woo, L.M. Paulin, S.P. Peters, J.A. Krishnan, R.E. Kanner, M.B. Drummond, E.R. Bleecker, R.P. Bowler, A.P. Comellas, C.B. Cooper, D. Couper, R. Paine, P. Woodruff, R.A. Wise, M.K. Han, F.D. Martinez, F.J. Martinez, R.G. Barr, N. Putcha, N.N. Hansel, Baltimore, MD, p.A2510
- 513 **Healthcare and Research Priorities of Adults with Mild-to-Very Severe COPD**/E. Michalovic, D. Jensen, E.G. Bishop, R.J. Dandurand, N. Saad, N. Ezer, G. Moullec, B.M. Smith, J. Bourbeau, C. Theriault, A. Schram, F. Nico, S.N. Sweet, Montreal, Canada, p.A2511
- 514 **Feasibility of Converting Patients to Participants in a Practice-Based Study to Promote Home-Based Physical Activity After a Hospitalization for COPD**/V. Prieto-Centurion, D.B. Coultas, J.J. Luo, J. Ma, C.S. Rand, A.-Y.M. Tan, J.A. Krishnan, Chicago, IL, p.A2512
- 515 **Barriers for Delivering Care to COPD Patients: A Physician Survey**/A. Bocharnikov, Y.-C.T. Huang, Durham, NC, p.A2513

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

A102 DETERMINANTS OF OUTCOMES AND HIGH-VALUE CARE IN COPD

2:15 p.m. - 4:15 p.m. **SAN DIEGO CONVENTION CENTER**

Room 28 C-E (Upper Level)

Abstract Summaries 2:15-2:45
Viewing/Discussion 2:45-4:15

Chairing: V.G. Press, MD, MPH, Chicago, IL
 V. Prieto-Centurion, MD, Chicago, IL
 L.C. Feemster, MSc, MD, Seattle, WA

- 501 **Trends of Inhaled Medication Use and Costs in Chronic Obstructive Pulmonary Disease: A 18-Year Population-Based Study**/M. Sadatsafavi, J.M. FitzGerald, D.D. Sin, T. Kendzerska, A.S. Gershon, H. Tavakoli, Vancouver, Canada, p.A2499
- 502 **Impact of Guideline Changes on Indications for Inhaled Corticosteroids Among Veterans with COPD**/S. Rinne, R.S. Wiener, Y. Chen, P. Rise, E. Udris, R. Plumley, C. Lea, L.C. Feemster, D.H. Au, Bedford, MA, p.A2500
- 503 **Poor Metered-Dose-Inhaler (MDI) Technique as a Predictor of Inhaled Corticosteroid (ICS) Overuse in Chronic Obstructive Pulmonary Disease (COPD)**/M. Griffith, L.C. Feemster, L.M. Donovan, L. Spece, J.A. Krishnan, P.K. Lindenauer, M.A. McBurnie, R.A. Mularski, D.H. Au, Seattle, WA, p.A2501

SUNDAY AFTERNOON

- 516 Validation of a Scalable Efficient Interoperable Linkage Process for Patient-Level EMR Data to Patient-Reported Registration Data Within the COPD Foundation Patient Powered Research Network: Building on Common PCORnet Data Networks Toward a Comprehensive** /R.A. Mularski, B. Clark, C. Pasquale, S.E. Gillespie, P. Crawford, E. Malanga, V. Malanga, B.P. Yawn, M.A. McBurnie, K.J. Davis, Portland, OR, p.A2514
- 517 Risks of Long-Term Benzodiazepine Use Among Patients with Chronic Obstructive Pulmonary Disease and Posttraumatic Stress Disorder**/L.M. Donovan, C.A. Malte, L.J. Spece, M.F. Griffith, L.C. Feemster, R.A. Engelberg, D.H. Au, E.J. Hawkins, Seattle, WA, p.A2515
- 518 COPD Diagnosis Incidence Rates and Utilization in Medicare and Commercially Insured Patients**/M.A. McBurnie, R.A. Mularski, P. Crawford, S. Gillespie, M.S. Stefan, P.K. Lindenauer, S.S. Carson, E.T. Naureckas, L.C. Feemster, Portland, OR, p.A2516
- 519 Cost-Effectiveness of Home Oxygen Therapy-Home Mechanical Ventilation (HOT-HMV) for the Treatment of Chronic Obstructive Pulmonary Disease (COPD) with Chronic Hypercapnic Respiratory Failure Following an Acute Exacerbation of COPD in the United Kingdom (U/P.B. Murphy, B. Brueggenjuergen, T. Reinhold, L. Fufeld, Q. Gu, T. Goss, N. Hart, London, United Kingdom, p.A2517**
- 520 Cost-Effectiveness of Home Oxygen Therapy-Home Mechanical Ventilation (HOT-HMV) for Treatment of Chronic Obstructive Pulmonary Disease (COPD) with Chronic Hypercapnic Respiratory Failure Following an Acute Exacerbation of COPD in the United States (US)**/G.J. Criner, Q. Gu, P.B. Murphy, L. Fufeld, B. Brueggenjuergen, T. Goss, N. Hart, Philadelphia, PA, p.A2518
- 521 Do Pulmonary Function Tests Provided Through Non-VA Coordinated Care Provide Timely and More Efficient Patient Care?**/O. Abdul-Kafi, M.J. Joo, T. Pham, Chicago, IL, p.A2519
- 202 Evaluating Disease Severity and Location of Death on Palliative Care Referral in Patients with Idiopathic Pulmonary Fibrosis**/R. Zou, S.M. Nouraie, M. Saul, X. Chen, K.F. Gibson, D. Kass, K.O. Lindell, Pittsburgh, PA, p.A2521
- 203 Workplace Productivity in Patients with Fibrotic Interstitial Lung Disease**/M. Algamdi, M. Sadatsafavi, J.H. Fisher, J. Morisset, K.A.M. Johannson, C.D. Fell, M. Kolb, H. Manganas, G. Cox, A.S. Gershon, A.J. Halayko, N. Hambly, S. Shapera, T. To, N. Khalil, P.G. Wilcox, C.J. Ryerson, Vancouver, Canada, p.A2522
- 204 Long-Term Outcome of Metallic Stenting for Airway Involvement in Relapsing Polychondritis**/X. Wu, Shanghai, China, p.A2523
- 205 Identifying Imaging Markers for Disease Progression in Longitudinal CTs of Patients with Idiopathic Pulmonary Fibrosis**/H. Prosch, J. Pan, J. Hofmanninger, N. Sverzellati, V. Poletti, F. Paryer, M. Holzer, G. Langs, Vienna, Austria, p.A2524
- 206 Presentation, Survival and Factors of Survival in Respiratory Tract Amyloidosis: A French Consecutive Case Series of 72 Patients**/J.S. Rech, B. Arnulf, C. De Margerie Mellon, M. Malphettes, M. Vignon, D. Lavergne, M. Kambouchner, V. Meignin, A. Bergeron, P.-Y. Brillet, H. Nunes, A. Jaccard, D. Valeyre, Y. Uzunhan, Bobigny, France, p.A2525
- 207 Treatment Outcomes of Lung Cancer in Idiopathic Pulmonary Fibrosis**/H. Yoo, B.-H. Jeong, O.J. Kwon, M.P. Chung, Seoul, Korea, Republic of, p.A2526
- 208 The Role of Gastroesophageal Reflux Disease in the Progression of Combined Pulmonary Fibrosis and Emphysema and Idiopathic Pulmonary Fibrosis**/J. Chen, Y. Dotan, N. Gaeckle, M.R. Jacobs, N. Marchetti, G.J. Criner, Guangzhou, China, p.A2527
- 209 Workplace Productivity in Patients with Connective Tissue Disease Associated Interstitial Lung Disease**/M. Algamdi, M. Sadatsafavi, J.H. Fisher, J. Morisset, K.A.M. Johannson, C.D. Fell, M. Kolb, H. Manganas, P. Wilcox, N. Khalil, S. Shapera, N. Hambly, T. To, A. Halayko, A.S. Gershon, G. Cox, C.J. Ryerson, Vancouver, Canada, p.A2528
- 210 Variability in FEV1 in Comparison to Forced Vital Capacity in Patients with Idiopathic Pulmonary Fibrosis**/S. Ashraf, K.A. Wong, P. Agarwala, S.H. Salzman, Mineola, NY, p.A2529
- 211 Predicting Mortality in Idiopathic Pulmonary Fibrosis (IPF) Patients Treated with Nintedanib**/W. Tang, S. Menjoge, S. Stowasser, J. Korell, Ridgefield, CT, p.A2530
- 212 Relationship Between GAP Index or Stage, Quantitative Lung Fibrosis Scores and Disease Progression as Measured by Percent Predicted Forced Vital Capacity in Idiopathic Pulmonary Fibrosis**/P. Belloni, D.S. Cheung, T. Burgess, A. Oduyungbo, J.L. Stauffer, G.H. Kim, M. Brown, J. Goldin, A.F. Coimbra, South San Francisco, CA, p.A2531
- 213 Association Between Impaired Fasting Glucose, Insulin Resistance, and Lung Health from Young Adulthood to Middle Age: The CARDIA Lung Study**/L. Sivarajan, L. Colangelo, C. Pickens, B. Thyagarajan, C. Iribarren, D. Jacobs, L.J. Smith, C.E. Lewis, M.J. Cuttica, M.R. Carnethon, G.R. Washko, R. Kalhan, Chicago, IL, p.A2532

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

A103 ILD: OUTCOMES

2:15 p.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Room 6 D (Upper Level)

Abstract Summaries 2:15-2:45
Viewing/Discussion 2:45-4:15

Chairing: S.K. Danoff, MD, PhD, Baltimore, MD
J.H. Fisher, MD, Toronto, Canada
D.J. Lederer, MD, MS, New York, NY

201 Survival Distinction in Interstitial Pneumonia with Autoimmune Features (IPAF) Patients: Results from a 5-Year Historical Cohort in an Interstitial Lung Diseases (ILD) Population/D.A. Pereira, B.G. Baldi, C.S.F. Chulam, F.E. Arimura, C.R.R. Carvalho, R.A. Kairalla, Sao Paulo, Brazil, p.A2520

- 214 Measuring Cough and Its Impact on Quality of Life in Fibrotic Lung Disease/P.** Saunders, P. Czyzyk, S. Sen, K. Holt, P.L. Molyneaux, J.A. Smith, M.G. Belvisi, T. Maher, London, United Kingdom, p.A2533
- 215 Predicted Versus Observed Mortality in Clinical Trials of Nintedanib in Idiopathic Pulmonary Fibrosis (IPF)/C.J.** Ryerson, M. Wijsenbeek, F. Bonella, P. Spagnolo, W. Stansen, S. Stowasser, L. Richeldi, Vancouver, Canada, p.A2534
- 216 A Score Without DLCO for Estimating Survival in Idiopathic Pulmonary Fibrosis/C.Y.** Fukuda, M.R. Soares, C.A.D.C. Pereira, Sao Paulo, Brazil, p.A2535
- 217 CT Honeycombing Fibrosis Is Prevalent and Associated with Mortality Across Diverse Interstitial Lung Diseases/A.O.** Adegunsoye, J.H. Chung, S.K. Bellam, J. Oldham, S. Montner, M.M. Churpek, I. Noth, R. Vij, M.E. Strek, Chicago, IL, p.A2536
- 218 The White Blood Cell Count as a Prognostic Indicator in Idiopathic Pulmonary Fibrosis/J.M.** Cheng, F.S.N. Soares, B. Cannon, A.W.W. Brown, S.D. Nathan, Charlottesville, VA, p.A2537
- 219 Acute Exacerbations of Fibrosing Interstitial Lung Diseases: Incidence, Risk Factors, and Outcome/A.** Suzuki, Y. Kondoh, K.K. Brown, T. Kimura, K. Kataoka, T. Matsuda, T. Yokoyama, M. Ando, N. Hashimoto, K. Sakamoto, Y. Hasegawa, Seto, Japan, p.A2538
- 220 Survival in Patients with Idiopathic Pulmonary Fibrosis (IPF): Data from the IPF-PRO Registry/S.M.** Palmer, L. Snyder, M.L. Neely, E. Yow, S. Bender, D.A. Culver, J. de Andrade, M. Gulati, R.J. Kaner, T. Leonard, E. O'Brien, N. Pushlar, C.S. Conoscenti, Durham, NC, p.A2539
- 221 Impact of sarcoidosis on participants from the Sarcoidosis Advance Registry for Cures (SARC)/A.** Gerke, L. Harper, R.P. Baughman, M.A. Judson, L. Serchuck, L.A. Maier, M. Drent, G. Spitzer, N. Singh, M. Li, X. Wang, D.A. Culver, Iowa City, IA, p.A2540
- 222 Combination of High-Resolution Computed Tomography Pattern and the Changes of Serum Marker Levels Can Predict Survival of Acute Exacerbation in Idiopathic Interstitial Pneumonias/T.** Arai, C. Sugimoto, K. Tachibana, Y. Inoue, M. Akira, T. Okuma, S. Tokura, T. Kasai, M. Kitaichi, S. Hayashi, Y. Inoue, Sakai, Osaka, Japan, p.A2541
- 223 The Relationship Between the Prognosis of Sarcoidosis and Th17 /Treg Imbalance/D.** Weng, M. Zhao, L. Huiping, Shanghai, China, p.A2542
- 224 Clinical Features and Outcomes Associated with Telomere Pathway Mutations in Familial Interstitial Pneumonia/J.** Kropski, J.C. Hewlett, G. Ding, C. Markin, D.B. Mitchell, S. Reiss, L. Rives, W.R. Mason, M.I. Schwarz, D.A. Schwartz, L.H. Lancaster, W.E. Lawson, L.R. Young, J.E. Loyd, J.A. Phillips, J.D. Cogan, T.S. Blackwell, Nashville, TN, p.A2543

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

A104 CRITICAL CARE: INVASIVE, NON-INVASIVE, CONVENTIONAL, AND NON-CONVENTIONAL VENTILATION IN ACUTE RESPIRATORY FAILURE

2:15 p.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Room 31 A-C (Upper Level)

Abstract Summaries

2:15-2:45

Viewing/Discussion

2:45-4:15

Chairing: N.S. Hill, MD, Boston, MA
B.K. Patel, MD, Chicago, IL
R.S. Stephens, MD, Baltimore, MD

- 701 High Velocity Nasal Insufflation in Hypercapneic Respiratory Failure: Secondary Analysis of Randomized Clinical Trial/D.** Dodge, J.S. Whittle, M.B. Bublewicz, J. Kearney, T. Ashe, M. Harsch, G. Dungan, T.L. Miller, P. Doshi, Houston, TX, p.A2544
- 702 Can High-Flow Nasal Cannula Reduce the Rate of Reintubation in Adult Patients After Extubation? A Meta-Analysis/T.** Wang, Y. Ni, B. Liang, Z. Liang, Chengdu, China, p.A2545
- 703 Predicting Factors for the Failure of High Flow Nasal Cannula Therapy in Patients with Acute Respiratory Failure/S.K.** Kim, Y.M. Ko, S.Y. Kim, S.H. Song, C.H. Kim, Suwon, Korea, Republic of, p.A2546
- 704 Diaphragmatic Ultrasound to Assess Respiratory Workload During High Flow Nasal Oxygenotherapy, Standard Oxygenotherapy, and Bilevel Positive Airway Pressure in Acute Respiratory Failure/F.** Laverdure, T. Genty, S. Rezaiguia Delclaux, P. Herve, F. Stephan, Le Plessis Robinson, France, p.A2547
- 705 Outcomes Associated with Prolonged Non-Invasive Positive Pressure Ventilation for Patients with Acute Respiratory Failure in the Emergency Department/N.N.** Goel, G. Schneider, C. Owyang, S. Ranginwala, G.T. Loo, K.S. Mathews, New York, NY, p.A2548
- 706 Risk Factors and Clinical Outcomes of Noninvasive Positive Pressure Ventilation Failure After Extubation in Critically Ill Adult Patients/Y.-F.** Chen, Y.-Y. Chen, I.-H. Wang, C.-Y. Chen, J.-Y. Chien, J.-S. Jerng, C.-J. Yu, Yun-Lin, Taiwan, p.A2549
- 707 Comparison of the Metabolic Load in Patient Ventilated with Pressure Support Ventilation and Adaptive Support Ventilation Mode with the Same Minute Ventilation/H.W.** Hsu, Y.H. Chen, H.F. Hsiao, K.C. Kao, L.C. Chiu, C.C. Huang, Taoyuan City, Taiwan, p.A2550
- 708 Neurally Adjusted Ventilatory Assist Versus Pressure Support In Prolonged Mechanical Ventilation: A Randomised Feasibility Study/D.** Hadfield, P.A. Hopkins, N. Hart, F. Reid, C. Finney, B. Penhaligon, J. Molai, G.F. Rafferty, London, United Kingdom, p.A2551

- 709 Use of Coaxial Endotracheal Tube and Moderately High Respiratory Rates to Achieve Ultra-Protective Ventilation/N.** Carvalho, C.C.A. Morais, A. Beda, M.A.M. Nakamura, S. Gomes, M.S. Volpe, O. Stenqvist, M.B.P. Amato, Sao Paulo, Brazil, p.A2552
- 710 Prone Positioning Decreases Unstable Inflation and Lung Injury Progression After Acid Aspiration/Y.** Xin, M. Cereda, H. Hamedani, M. Pourfathi, S. Na, S. Siddiqui, F. Amzajerdian, N. Meeder, I. Duncan, L. Loza, R. Baron, A. Roberts, J. Ehrich, H. Profka, S. Kadlecsek, N. Tustison, J. Gee, B.P. Kavanagh, R.R. Rizzi, Philadelphia, PA, p.A2553
- 711 The Effect of the Prone Position on Mechanical Power in ARDS/T.** J.K. Vossler, S.A. Nonas, Portland, OR, p.A2554
- 712 Regional Distribution of Ventilation Measured by Electrical Impedance Tomography (EIT) in Mechanically Ventilated Children/H.** Inany, J. Rettig, C. Smallwood, B.K. Walsh, Boston, MA, p.A2555
- 713 Ventilatory Efficiency as a Non-Invasive Continuous Dead Space Marker in Mechanically Ventilated Children/A.** K. Bhalla, C.J. Newth, R.G. Khemani, Los Angeles, CA, p.A2556
- 714 A Clinical Score to Predict Duration of Weaning from Readiness to Extubation/M.** Dres, E.C. Goligher, A. Kiss, A. Amaral, E. Fan, L.J. Brochard, Toronto, Canada, p.A2557
- 715 The Value of Neutrophil-to-Lymphocyte Ratio in Predicting Weaning Failure: A Prospective, Observational Cohort Study/Z.** Luo, Y. Zheng, L. Yang, S. Liu, J. Zhu, N. Zhao, B. Pang, Z. Cao, Y. Ma, Beijing, China, p.A2558
- 716 Combination of Diaphragm Thickening Fraction and Rapid Shallow Breathing Index Improves Prediction of Weaning Success from Mechanical Ventilator/P.** Pirompanich, S. Romsaiyut, Pathumthani, Thailand, p.A2559
- 717 MitoTEMPOL Prevents Sepsis Induced Reductions in Diaphragm Strength and Endurance/G.** S. Supinski, L. Wang, E.A. Schroder, L.A.P. Callahan, Lexington, KY, p.A2560
- 718 The Effects of Recruitment Maneuvers on Mucus Displacement in a Model of P.aeruginosa Severe Bilateral Pneumonia/G.** Li Bassi, T. Comaru, D. Marti, E. Aguilera, C. Chiurazzi, C. Traverso, O.T. Ranzani, R. Amaro, G. Frigola, C. Fuster, M. Saco, A. Zanella, M. Rigol, J. Ramirez, A. Torres, Barcelona, Spain, p.A2561
- 719 Fiberoptic Bronchoscope Guided Versus Mini-Surgical Technique for Percutaneous Dilatational Tracheostomy in Intensive Care Unit/P.** Bhadoria, A. Kumar, N. Kachru, S. Wadhawan, A. Kohli, P.K. Rathore, D.P. Bhadoria, New Delhi, India, p.A2562
- 720 Right Ventricular Function in Patients with Severe Respiratory Failure Supported with Venovenous Extracorporeal Membrane Oxygenation/M.** Pichette, T. Pettenuzzo, G. Douflé, A. Luk, M. Meineri, E. Fan, Toronto, Canada, p.A2563
- 721 Understanding Clinical Evolution of Severe Acute Respiratory Distress Syndrome (ARDS) on Extracorporeal Membrane Oxygenation (ECMO): Role of Physiology/E.** Spinelli, T. Mauri, S. Crotti, N. Bottino, S. Caminada, D. Tubiolo, N. Rossi, P. Tagliabue, E. Carlesso, G. Grasselli, A. Pesenti, Milano, Italy, p.A2564
- 722 Influence of Extracorporeal Co2 Removal on Respiratory Drive, Effort and Driving Transpulmonary Pressure in Early Severe ARDS/T.** Mauri, M. Albanese, A. Zanella, T. Langer, E. Spinelli, D. Tubiolo, N. Corcione, A. Pesenti, G. Grasselli, Milan, Italy, p.A2565
- 723 Alveolar Dead Space Fraction and Respiratory System Compliance Predict the Effect of Extracorporeal CO2 Removal on Driving Pressure: Foundation for a Precision Medicine Strategy/E.** C. Goligher, A. Combes, D. Brodie, M.B.P. Amato, V. Fanelli, T. Pham, V.M. Ranieri, A.S. Slutsky, Toronto, Canada, p.A2566
- 724 Blood Transfusion Thresholds and Outcomes in Patients Requiring Venovenous Extracorporeal Membrane Oxygenation for Acute Respiratory Failure/N.** Moulton, L.J. Emerson, C. Thurman, B.A. Blough, D. Bonadonna, C. Rackley, Durham, NC, p.A2567
- 725 Morbidity and Mortality in the Extremely Obese Patients with Acute Respiratory Distress Syndrome Receiving Extracorporeal Membrane Oxygenation/D.** Rudym, T. Pham, A. Dzierba, A. Serra, C. Agerstrand, D. Abrams, M.R. Baldwin, M.D. Bacchetta, D. Brodie, New York, NY, p.A2568

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

A105 DUST AND PARTICULATE MATTER EXPOSURE

2:15 p.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Room 6 E (Upper Level)

Abstract Summaries

2:15-2:45

Viewing/Discussion

2:45-4:15

Chairing: T.D. LeVan, PhD, Omaha, NE
D.C. Christiani, MD, MPH, MS, Boston, MA
L.A. Maier, MSPH, MD, Denver, CO

301 Organic Dust Induced Lung Injury and Repair: Bi-Directional Regulation by TNF Alpha and IL-10/D. Chandra, M. Nemecek, J.M. DeVasure, D.J. Romberger, J.A. Poole, T.A. Wyatt, Omaha, NE, p.A2569

302 Organic Dust Extract Induces Nucleocytoplasmic Translocation of High Mobility Group Box 1 (HMGB1) in Human Airway Epithelial Cell Lines/S. Mahadev Bhat, N. Massey, L.A. Karriker, B. Singh, C. Charavaryamath, Ames, IA, p.A2570

303 Dietary Exosomes Amplify the Inflammatory Effects of Agricultural Dust Exposure in Mice/D. J. Romberger, J. Zemleni, A.J. Heires, T.M. Nordgren, Omaha, NE, p.A2571

304 Associations of Cross-Shift Changes in Pulmonary Function and Endotoxin Exposure Among Dairy Workers/S. Magzamen, J.W. Schaeffer, J.A. Poole, A. VanDyke, K. Anderson, M. Bradford, J. Morse, J. Volckens, S. Reynolds, Fort Collins, CO, p.A2572

305 Endotoxin and Glucan Exposure in Iowa Farmers/N. Metwali, P.S. Thorne, E. Stapleton, S.J. Locke, P. Josse, R. Altmaier, J.N. Hofmann, L.E. Beane-Freeman, M.C. Friesen, Iowa City, IA, p.A2573

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- 306** **Effects of a High Docosaheptaenoic Acid Diet on Inflammation Resolution and Recovery Following Repetitive Dust Exposure in Mice**/T.M. Nordgren, A.J. Heires, J. Pavlik, M. Baack, T. Larsen, E. Berry, J.H. Sisson, D.J. Romberger, Riverside, CA, p.A2574
- 307** **House Dust Microbiome in Relation to Adult Asthma and Atopy in a U.S. Farming Population**/M.K. Lee, M.U. Carnes, S.J. London, Research Triangle Park, NC, p.A2575
- 308** **Insufficient Zinc Intake Enhances Lung Inflammation in Response to Agricultural Organic Dust Exposure**/D. Knoell, D. Smith, M. Sapkota, A.J. Heires, C. Hanson, B. Swanson, J.A. Poole, T.A. Wyatt, D.J. Romberger, Omaha, NE, p.A2576
- 309** **Dust Exposome in Southeastern Shore of the Salton Sea, CA**/N. Metwali, B.R. Steins, A. Adamcakova-dodd, S.F. Farzan, J. Johnston, F.D. Gilliland, E. Avol, P.S. Thorne, Iowa City, IA, p.A2577
- 310** **Progressive Massive Fibrosis in a Worker Outside the Coal Industry in New Mexico**/L. Casaus, A. Sood, Albuquerque, NM, p.A2578
- 311** **Occupational Exposure to Coal and Silica Dust and Risk of Rheumatoid Arthritis in Appalachia**/P.D. Blanc, L. Trupin, E.H. Yelin, G. Schmajuk, San Francisco, CA, p.A2579
- 312** **Reanalysis of Archived Lung Digestion Filters from Two Reported Series of Mesothelioma in Cases with Brake Dust Exposure and Cases with Low Asbestos Burdens Calls Reported Conclusions into Question**/J.L. Abraham, S. Sanyal, B.R. Burnett, J.A. Crawford, Syracuse, NY, p.A2580
- 313** **Acute Pneumonitis Secondary to Inhaled Powder-Coated Steel Dust**/R. Griffith, M. Al-Sarie, F. Safi, J.R. Hammersley, Toledo, OH, p.A2581
- 314** **Non-Malignant Respiratory Disease Among Rubber Workers**/N. Thapa, S.E. Tomasi, J.M. Cox-Ganser, R.J. Nett, Morgantown, WV, p.A2582
- 315** **Impact of Inhaled Corticosteroid Treatment on Forced Expiratory Volume (FEV1) Trajectory: A 16-Year Longitudinal Evaluation of World Trade Center-Exposed Fire Department of the City of New York Rescue and Recovery Workers**/A. Singh, R. Zeig-Owens, C.B. Hall, T. Schwartz, M.P. Webber, B. Putman, H.W. Cohen, D.J. Prezant, M.D. Weiden, Brooklyn, NY, p.A2583
- 316** **Validation of Metabolic Syndrome Biomarkers of Particulate Induced Lung Injury in World Trade Center Exposed Firefighters: A 15 Year Longitudinal Cohort Study**/S. Kwon, S.H. Haider, E. Caraher, R. Lam, G. Crowley, D.J. Prezant, A. Nolan, New York, NY, p.A2584
- 317** **Pulmonary Fibrosis Among World Trade Center Rescue and Recovery Workers: Results from the World Trade Center Health Registry**/J. Li, J. Cone, M. Farfel, J. Yung, R. Brackbill, New York, NY, p.A2585
- 318** **Association of Early Eosinophil Concentration and HDL/Cholesterol Ratio with Subsequent Asthma-COPD Overlap Syndrome in WTC-Exposed Firefighters**/C.L. Liu, D.J. Prezant, M.D. Weiden, New York, NY, p.A2586
- 319** **Advanced Glycation End-Products Receptor: Mediator of Persistent Airway Reactivity After Particulate Matter Exposure**/S.H. Haider, E. Caraher, G. Crowley, M. Sunseri, R. Lam, S. Kwon, D.J. Prezant, L.-C. Chen, A.M. Schmidt, A. Nolan, New York, NY, p.A2587
- 320** **Metabolite and Biomarker Predictors of World Trade Center-Lung Injury: An Integrated Multiplatform Machine Learning Approach**/G. Crowley, S. Kwon, S.H. Haider, E.J. Caraher, R. Lam, M. Liu, D.J. Prezant, A. Nolan, New York, NY, p.A2588

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

A106 NTM CLINICAL AND TRANSLATIONAL SCIENCE

2:15 p.m. - 4:15 p.m. MARRIOTT MARQUIS SAN DIEGO MARINA
Grand Ballroom 11-13 (North Tower, Lobby Level)

Abstract Summaries 2:15-2:45

Viewing/Discussion 2:45-4:15

Chairing: D.E. Griffith, MD, Tyler, TX
S.H. Kasperbauer, MD, Denver, CO
E. Henkle, PhD, MPH, Portland, OR

- 801** **The Mycobacteriome: A Nested Approach to Identify Non-Tuberculous Mycobacterium**/I. Sulaiman, B. Wu, B.D. Scaglione, J. Wang, A. Basavaraj, Y. Li, A.S. Scott, S. Chang, K. Bantis, J. Clemente, J.L. Bessich, S. Rafeq, G.C. Michaud, J.S. Donington, C. Naidoo, G. Theron, R. Condos, D. Kamelhar, D.J. Addrizzo-Harris, L.N. Segal, New York,, p.A2589
- 802** **Lung Microbiome in Patients with Pulmonary Mycobacterial Diseases**/C. Nishio, K. Oh, H. Konishi, H. Tomioka, Kobe, Japan, p.A2590
- 803** **Validation of the NTM-DR Line Probe Assay Employing Nontuberculous Mycobacterial Whole Genomic Sequence Data as Reference Standard**/E. Epperson, R.M. Davidson, S. Kammlade, N.A. Hasan, S.E. Nick, I.M.P. Machado, V.H. Rodriguez, A. Appleman, N.K. Helstrom, M. Strong, M. Salfinger, Denver, CO, p.A2591
- 804** **Analysis of erm(41) and rrl in Mycobacterium Abscessus Complex Isolated in Yokohama**/A. Mase, F. Yamaguchi, T. Funaki, S. Shimizu, H. Cho, A. Fujishima, Y. Osakabe, D. Inoue, Y. Kakiuchi, Y. Yamazaki, H. Tateno, E. Kato, A. Wakabayashi, M. Hayashi, Y. Watanabe, T. Yokoe, S. Matsukura, Y. Shikama, H. Sagara, K. Fukuchi, Yokohama, Japan, p.A2592
- 805** **Antibiotic Susceptibility of Mycobacterium Abscessus Patients with Long Term Antibiotic Treatment**/S. Daniel-Wayman, S. Shallom, N. Azeem, K.N. Olivier, A. Zelazny, D.R. Prevots, Bethesda, MD, p.A2593
- 806** **QuantIFERON-TB Gold® Is Useful Tool for Estimation of Neutralizing Anti- IFN-γ Autoantibodies Among Patients with Disseminated Nontuberculous Mycobacterial Disease**/K. Yoshizawa, T. Sakagami, A. Aoki, K. Shima, N. Aoki, T. Koya, T. Hasegawa, T. Kikuchi, Niigata, Japan, p.A2594

- 807 **Analysis of Adverse Drug Events in Pulmonary Mycobacterium Avium Complex Disease Using the Japanese Adverse Drug Event Report (JADER) Database/H. Namkoong, Y. Takahashi, M. Ishii, T. Asakura, S. Suzuki, H. Kamata, K. Yagi, T. Betsuyaku, K. Matsumoto, J. Kizu, N. Hasegawa, Tokyo, Japan, p.A2595**
- 808 **Adverse Effects and Tolerability of Azithromycin-Based Multi-Drug Therapy for Pulmonary Mycobacterium Avium Complex Disease/G.P. Ranches, E. Henkle, K.L. Winthrop, Portland, OR, p.A2596**
- 809 **Investigation of Risk Factors for Relapse of Mycobacterium Avium Complex Lung Disease After Treatment in Accordance with the Guidelines/K. Shinfuku, H. Matsui, K. Takeda, S. Akashi, O. Narumoto, H. Tashimo, K. Ohta, Kiyose-shi, Japan, p.A2597**
- 810 **Quantitative Assessment of Erector Spinae Muscles in Patients with Mycobacterium Avium Complex Lung Disease: Relationship of Disease Severity and Prognosis/T. Asakura, S. Suzuki, S. Okamori, T. Kusumoto, H. Namkoong, K. Yagi, H. Kamata, Y. Funatsu, M. Ishii, T. Betsuyaku, N. Hasegawa, Tokyo, Japan, p.A2598**
- 811 **Risk Factors of Radiographic Progression and Outcome of Patients with Mycobacterium Kansaii Pulmonary Infection/C.J. Liu, H.L. Huang, M.-H. Cheng, P.L. Lu, C.-C. Shu, J.-Y. Wang, I.-W. Chong, Taipei, Taiwan, p.A2599**
- 812 **Prevalence of NTM Infection in Subjects with and Without Normal Alpha-1 Antitrypsin Genotypes/L.V. Luna Diaz, A.M. Guerrero, I. Iupe, M. Mirsaedi, G.E. Holt, R. Calderon-Candelario, M.A. Campos, Miami, FL, p.A2600**
- 813 **MAC Attack: Clinical Correlates of MAC Infection Among Patients with and Without Cancer/K. Gupta, H. Patail, D.A. Goldman, M.B. Feinstein, D.E. Stover, New York, NY, p.A2601**
- 814 **Nontuberculous Mycobacterial Lung Diseases Caused by Mixed Infection with Mycobacterium Avium Complex and Mycobacterium Abscessus Complex/S.H. Shin, B.W. Jhun, J. Choe, H.Y. Park, K. Jeon, O.J. Kwon, H.J. Huh, C.-S. Ki, N.Y. Lee, S.J. Shin, C.L. Daley, W.-J. Koh, Seoul, Korea, Republic of, p.A2602**
- 815 **Causative Species of Nontuberculous Mycobacterial Lung Disease and Comparative Investigation on Clinical Features of Mycobacterium Abscessus Complex Disease: A Retrospective Analysis for Two Major Hospitals in a Subtropical Region of Japan/H. Nagano, T. Kinjou, J. Fujita, T. Kishaba, Uruma City, Japan, p.A2603**
- 816 **Municipal Drinking Water Treatment Practices and Risk of Nontuberculous Mycobacterial Infection/L. Caverly, N. Kotlarz, M. Zimbric, J. Erickson, L. Raskin, J.J. LiPuma, Ann Arbor, MI, p.A2604**
- 817 **Epidemiology of Extrapulmonary Nontuberculous Mycobacterial Infections Among Hospitalized Patients in the United States/J. Adjemian, E. Lai, E. Ricotta, D.R. Prevots, Bethesda, MD, p.A2605**
- 818 **Nontuberculous Mycobacterial Pulmonary Infections in Men: The Lord Windermere Syndrome?/M. Holt, S.H. Kasperbauer, A. Levin, W. Drummond, G.A. Huijt, C.L. Daley, Denver, CO, p.A2606**
- 819 **Nontuberculosis Mycobacteria Related Deaths in COPD Veterans/P. Baghaeishiva, B.T. Choudhry, M.D. Schweitzer, G. Urdaneta, M.A. Campos, A.A. Quartin, M. Mirsaedi, Miami, FL, p.A2607**
- 820 **Long-Term Natural History of Non-Cavitary Nodular Bronchiectatic Nontuberculous Mycobacterial Lung Disease/S.M. Moon, B.W. Jhun, S.-Y. Baek, S. Kim, H.Y. Park, K. Jeon, O.J. Kwon, H.J. Huh, C.-S. Ki, N.Y. Lee, M.J. Chung, K.S. Lee, S.J. Shin, C.L. Daley, Seoul, Korea, Republic of, p.A2608**
- 821 **Nontuberculous Mycobacterial Pulmonary Isolates and Bronchiectasis Among Persons Hospitalized with Rheumatoid Arthritis, 2009-2014, United States/D.R. Prevots, J. Adjemian, Y.L. Lai, K.L. Winthrop, K.N. Olivier, Bethesda, MD, p.A2609**
- 822 **A Statewide Analysis of Rhode Island Pulmonary Mycobacterium Avium Complex Cultures with Clinical Correlation/D. Gutman, T. Bennett, K. Chapin, E. King, M.L. Stanchina, E.J. Carter, Providence, RI, p.A2610**
- 823 **The Genotype and Phenotype of Mycobacterium Xenopi in Ontario, Canada/T. Hirma, A. Marchand-Austin, J. Ma, D. Alexander, S. Brode, T.K. Marras, F. Jamieson, Toronto, Canada, p.A2611**
- 824 **Video-Assisted Thoracoscopic Surgery (VATS) for Nontuberculous Mycobacterial Lung Disease in the Setting of Structural Lung Disease/S. Siegel, J. Watson, J. Philley, F. Thakkar, M.S. Devine, J. Caccitolo, J.H. Ku, R.J. Wallace, D.E. Griffith, L.C. Strnad, P. Schipper, K.L. Winthrop, Portland, OR, p.A2612**
- 825 **Prevalence of Drug Resistance Mutations in Clinical and Environmental Nontuberculous Mycobacteria Isolates in the US/R. Davidson, S. Kammlade, S.E. Nick, R.R. Rodger, E. Epperson, N.A. Hasan, C.L. Daley, J.A. Nick, M. Strong, J.R. Honda, M. Salfinger, Denver, CO, p.A7705**

POSTER DISCUSSION SESSION

A107 CLINICAL AND TRANSLATIONAL INVESTIGATIONS INTO ACUTE RESPIRATORY INFECTIONS

2:15 p.m. - 4:15 p.m. **MARRIOTT MARQUIS SAN DIEGO MARINA**
Pacific Ballroom 24-26 (North Tower, First Floor)

Poster Viewing 2:15-3:00

Discussion 3:00-4:15

Chairing: C. Feldman, MD, PhD, DSc, Johannesburg, South Africa
R.G. Wunderink, MD, Chicago, IL
C. Dela Cruz, MD, PhD, New Haven, CT

1001 **In Vitro Activity of Cefiderocol Against Gram-Negative Clinical Isolates from Respiratory Specimens: SIDERO-WT-2014/Y. Yamano, M. Tsuji, R. Echols, M. Hackel, D. Sahm, Osaka, Japan, p.A2613**

1002 **Beyond the PSI: Enhancing Pneumonia Severity Assessment for Computerized Clinical Decision Support/B.E. Jones, J. Ying, C. Haroldsen, T. Greene, M. Samore, Salt Lake City, UT, p.A2614**

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- 1003 Identifying Respiratory Pathogens with Hand-Held, Real-Time Metagenomics: An Optimized Protocol/K. Ho, M.R. Thau, J. Erb-Downward, N.R. Falkowski, G.B. Huffnagle, R.P. Dickson, Ann Arbor, MI, p.A2615**
- 1004 Rapid In Vitro Diagnostic of Bacterial Species by MCC-IMS/C. Steppert, T. Dick, I. Steppert, G. Becher, T. Bollinger, Bayreuth, Germany, p.A2616**
- 1005 Clinical Evaluation and Potential Impact of a Semi-Quantitative Multiplex Molecular Assay for the Identification of Pathogenic Bacteria and Viruses in Lower Respiratory Specimens/B. Buchan, S. Windham, M. Faron, J.-M. Balada-Llasat, R. Relich, R. Humphries, S. Miller, A. Harrington, C. Murphy, A. Leber, J. Dien Bard, C. Zimmerman, S. Kerr, C. Graue, N. Ledebauer, A. Huang, Milwaukee, WI, p.A2617**
- 1006 Association of Atypical Antipsychotics and Mortality for Patients Hospitalized with Pneumonia/E.M. Mortensen, Z. Boivin, M.F. Perez, N. Atuegwu, M.L. Metersky, Farmington, CT, p.A2618**
- 1007 Antibigram Directed Treatment for Hospital-Acquired Pneumonia Across All Veterans Affairs Medical Centers/A. Bostwick, M. Jones, M. Goetz, M. Samore, R. Paine, B.E. Jones, Salt Lake City, UT, p.A2619**
- 1008 Lymphocyte Subpopulations in Community-Acquired Pneumonia: Role of Cell-Mediated Immunity/R. Mendez, I. Amara-Elori, L. Feced, P. Ramirez, J.F. Bermejo-Martin, A. Sempere, C. Cilloniz Campos, A. Torres, R. Menendez, Valencia, Spain, p.A2620**
- 1009 Predicting the Diagnosis of Bacterial Pneumonia in Mechanically Ventilated Patients: A Comparison of Bronchoalveolar Lavage Cell Counts and a Transcriptomic Classifier/J.M. Walter, T. Yacoub, R.D. Shah, P.A. Reyfman, N. Joshi, K.R. Anekella, A.C. Mc Quattie-Pimentel, C.-I. Chen, Z. Ren, R. Verma, P. Hountras, H. Abdala-Valencia, M. Chi, F.J. Gonzalez, S. Soberanes, S. Watanabe, K. Williams, H. Donnelly, M. Breganio, N. Borkowski, R.G. Wunderink, A. Misharin, G.S. Budinger, Chicago, IL, p.A2621**
- 1010 Antimicrobial Treatment of CAP. Is There a Higher Benefit of β -Lactam Plus Macrolides Combination in Patients with CAP According to Specific Aetiology?/A. Ceccato, C. Cilloniz, G. Li Bassi, O.T. Ranzani, A. Gabarrus, L. Bueno, M. Ferrer Monreal, A. Torres, Palomar, Argentina, p.A2622**
- 1011 Tissue Plasminogen Activator and Dornase Alpha in the Treatment of Complicated Parapneumonic Effusions: An Institutional Retrospective Investigation/W.M. Pruett, M.W. Trump, H. Smith, R. Flood, G. Wall, Des Moines, IA, p.A2623**
- 1012 Association of Atrial Fibrillation in Pneumonia and Their Outcomes/M.H. Gul, Z.M. Htun, M. Imran, H. Aye, A. Lwin, Chicago, IL, p.A2624**
- 1013 Antibiotic-Resistant Pathogens in Community-Acquired Pneumonia: Who at Risk for Severe Disease?/A.S. Sadigov, R. Baylarov, K. Abasaliyeva, Baku, Azerbaijan, p.A2625**
- 1014 Picking Up a Bug by Picking Your Nose. Hand to Nose Transmission of Streptococcus Pneumoniae In Healthy Participants a Pilot Study/IV. Connor, R. Robinson, E. German, C. Hales, A. Hyder-Wright, A. Hugh, S.R. Zaidi, C. Lowe, H. Hill, E. Nikolaou, S. Pojar, E. Mitsi, J. Reine, C. Solorzano, B. Carniel, J. Rylance, H. Burhan, D. Ferreira, Liverpool, United Kingdom, p.A2626**
- 1015 Prospective Observational Study for Impact of Plasma Levels of Colistin in Patients with Carbapenem Resistant Acinetobacter Baumannii Infection/Y. Jeong, N. Gu, W. Kwack, Y. Kang, S. Park, J. Oh, Y. Yoon, Go-yang City, Korea, Republic of, p.A2627**
- 1016 Impact of Viral Respiratory Panel Testing on Antibiotic Therapy and Outcomes/L.A. Marinari, M.A. Danny, Bryn Mawr, PA, p.A2628**
- 1017 Biomarkers for Inflammation Are Associated with COPD and Reduced DLCO in a Cohort of People Living with HIV/M. Sommers, J. Moore, D. Moisi, J. Kashima, M. McGing, E. Lewis, M. Hartman-Filson, E.G. Chang, A. Jan, J.L. Davis, P. Hunt, K.A. Crothers, M. Lederman, L. Huang, San Francisco, CA, p.A2629**
- 1018 Effect of Opioid Abuse and Dependence on Outcomes of Patients Hospitalized with Pneumonia: A 5-Year Propensity Score Matched Analysis/F. Vazquez de Lara, F. Bolivar, D. Pan, V. Santibanez, J.P. Mathew, New York, NY, p.A2630**
- 1019 Readmission with Empyema After Hospitalization for Pneumonia/A. Singh, N. Pakzad, J. Aponte, A. Espinosa Hernandez, J. Salonia, V. Santibanez, R.A. Jean, R. Jean, New York, NY, p.A2631**
- 1020 Novel Electronically Calculable Tool Produces Excellent Mortality Prediction in Patients with Pneumonia/I. Mecham, B.D. Horne, R. McCubrey, A.R. Jephson, N.C. Dean, Salt Lake City, UT, p.A2632**
- 1021 Genetic Homology Between Bacteria in Pulmonary Abscess or Pyothorax and in the Oral Cavity/R. Katsuda, J. Inubushi, T. Eguchi, K. Terada, R. Kagami, Y. Fukuda, Y. Onishi, K. Hanaoka, K. Miyake, Y. Mizumori, H. Tsukamoto, S. Sasaki, T. Kawamura, Y. Nakahara, Himeji, Japan, p.A2633**
- 1022 Procalcitonin-Guided Antibiotic Prescription for Suspected Lower Respiratory Tract Infection; A Randomized Clinical Trial/D.T. Huang, D.M. Yealy, M.R. Filbin, A.M. Brown, C.-C.H. Chang, Y. Doi, M.W. Donnino, J.M. Fine, M.J. Fine, M.A. Fischer, J.M. Holst, P.C. Hou, J.A. Kellum, F. Khan, M.C. Kurz, S. Lotfipour, F. LoVecchio, O.M. Peck-Palmer, F. Pike, H. Prunty, R.L. Sherwin, L. Southerland, T. Terndrup, L.A. Weissfeld, J. Yabes, D.C. Angus, Pittsburgh, PA, p.A7706**

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

A108 EVALUATION OF SYMPTOMS AND NOVEL STRATEGIES IN PATIENT AND FAMILY CARE

2:15 p.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Room 30 C-E (Upper Level)

Abstract Summaries

2:15-2:45

Viewing/Discussion

2:45-4:15

- Chairing:** J.P. Seaman, PhD, RN, Pittsburgh, PA
N.E. Bracken, ACNPC, MSN, Chicago, IL
B.D. Hetland, PhD, Omaha, NE
- 601 Gender Differences and Quality of Life in Older Adults with Asthma/B.J. Polivka, A. Jorayeva, J. Myers, R.J. Folz, Louisville, KY, p.A2634**
- 602 Severity of Sleep Apnea Does Not Predict Self-Reported Sleepiness in Snoring Adolescents/M.A. Carno, A. Jungels, H.V. Connolly, Rochester, NY, p.A2635**
- 603 Unmasked: Description of Symptoms Experienced by Intensive Care Unit Patients While Receiving Non-Invasive Ventilation/L.L. Chlan, P. Peterson, L. Striegel, J. Johnson, Rochester, MN, p.A2636**
- 604 Developing Multivariable Prediction Models of Asthma Control Components Using Fitness Tracker Sleep Patterns in Women/J. Castner, C. Jungquist, M.J. Mammen, J.J. Pender, O. Licata, G.E. Wilding, S. Sethi, Buffalo, NY, p.A2637**
- 605 Exploratory Evaluation of Palliative Care Quality Indicators in Patients with Chronic Lung Disease Requiring an ICU Admission/L. Catanzarite, K.O. Lindell, M.O. Rosenzweig, B.J. McVerry, S.M. Nouraie, J. Guttendorf, Pittsburgh, PA, p.A2638**
- 606 Fractional Exhaled Nitric Oxide Permits Nurse Led Weaning of Maintenance Prednisolone in Difficult Asthma/C. Roxas, G. d'Ancona, L. Green, M. Fernandes, M. Bolton, L. Osman, B.D. Kent, D.J. Jackson, London, United Kingdom, p.A2639**
- 607 Reliability and Construct Validity of the Patient-Reported Outcomes Measurement Information System (PROMIS r) Instruments in Women with Pulmonary Arterial Hypertension/K. Boyle, J.D. Fargo, J.S. Fritz, K.A. Smith, J.A. Mazurek, D. Pinder, C.L. Archer-Chicko, H.I. Palevsky, A.I. Pack, M.S. Sommers, S.M. Kawut, L.A. Matura, Philadelphia, PA, p.A2640**
- 608 Contact-Free Detection of Central Apnea and Respiratory Depression/Z. Shinar, M.L. Yizraeli Davidovich, Ramat-Gan, Israel, p.A2641**
- 609 Characteristics of COPD Patients Who Agree to Participate in a Pragmatic Trial of Physical Activity Coaching Compared to Non-Participants/J.S. Lee, A.I. Liu, D. Pounds, F. Mahmud, C. Flores, S.A. Desai, V.S. Fan, M.K. Gould, M. Moy, H.Q. Nguyen, Pasadena, CA, p.A2642**
- 610 Delivering a Home Exercise Intervention to Lung Transplant Recipients Using a Telerehabilitation Platform - A Feasibility Study/J. Choi, L. Burke, J. Sebastian, M.R. Morrell, L.A. Hoffman, A. DeVito Dabbs, Pittsburgh, PA, p.A2643**
- 611 Relationship of Sleep-Related Variables, Dyspnea and Physical Performance in Chronic Obstructive Pulmonary Disease/M.C. Kapella, S. Vispute, A. Steffen, B. Prasad, F. Laghi, G. Kemner, T. Peters, C. Teixeira, D. Carley, Chicago, IL, p.A2644**
- 612 A Delphi Process to Engage Nurse, Patients and Caregivers Globally: Results of the Dissemination and Implementation Plan for the ATS Nursing Assembly Project to Update Research Priorities/M.R. George, C. Hernandez, M.A. Carno, New York, NY, p.A2645**
- 613 Feasibility and Acceptability of an Early Palliative Care Intervention in Patients with Idiopathic Pulmonary Fibrosis and Their Caregivers/K.O. Lindell, S.M. Nouraie, J.R. Curtis, M.J. Klesen, S. Klein, K.F. Gibson, D.J. Kass, M.Q. Rosenzweig, Pittsburgh, PA, p.A2646**
- 614 Qualitative Analysis of Nursing Experience with Family Care Rituals (FCR) Intervention: Comparing the American to the Italian Nursing Experience of a Novel Bedside Family-Centered Intervention/T. Amass, G. Villa, I. Lanini, T. Walsh, A. Palmisciano, R. De Gaudio, J.R. Curtis, M.M. Levy, Providence, RI, p.A2647**
- 615 Exploring Positive Aspects of Caregiving in Family Caregivers of ICU Patients from ICU to Four Months Post-ICU Discharge/J. Choi, J. Tate, M.P. Donahoe, L.A. Hoffman, Pittsburgh, PA, p.A2648**
- 616 Development and Initial Evaluation of a Comprehensive Respiratory Care Clinic (CRCC) for Homeless and Low Income Adults Living with Lung Conditions/L.C. Cicutto, K. Crews, J.D. McCarl, M. Carillo, B. Lee, E. Johnson, L. Spitzinger, K. Newlon, K. Chacon, K.K. Brown, Denver, CO, p.A2649**
- 617 A Latent Class Analysis of Prolonged Mechanical Ventilation Patients at a Long-Term Acute Care Hospital: Subtype Differences in Outcomes/H. Dunn, F. Laghi, L. Quinn, S. Corbridge, K. Eldeirawi, M. Kapella, A. Steffen, E.G. Collins, Chicago, IL, p.A2650**
- 618 Effect of a Pulmonary Rehabilitation Program on Cognitive Function/K.E. Ellstrom, S.B. Thapamagar, A.M. Mayo, Loma Linda, CA, p.A2651**
- 619 Emotional Experiences of Family Members of ICU Patients: A Qualitative Study/T.S. Valley, J. Miller, D.K. Costa, E. Chen, K. Lipman, T.J. Iwashyna, A. Fagerlin, Ann Arbor, MI, p.A2652**
- 620 Family Member Perspectives and Coping Strategies to Manage Anxiety, Depression, and Acute Stress in the Medical Intensive Care Unit: A Qualitative Study/N. Held, M. Mealer, B.J. Clark, M. Moss, P.D. Sottile, Aurora, CO, p.A2653**
- 621 Preliminary Testing of the Idiopathic Pulmonary Fibrosis Patient Reported Outcome Measure (IPF PROm)/A.-M. Russell, M. Wickremasinghe, L.A. Saketkoo, Z. Borril, S. Fletcher, H.I. Adamali, A.U. Wells, T.M. Maher, E.A. Renzoni, S. Fleming, P. Cullinan, London, United Kingdom, p.A7707**

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

A109 NOVEL EXPERIMENTAL MODELS AND APPROACHES IN LUNG BIOLOGY

2:15 p.m. - 4:15 p.m. MARRIOTT MARQUIS SAN DIEGO MARINA
Pacific Ballroom 15-17 (North Tower, First Floor)

Abstract Summaries 2:15-2:45

Viewing/Discussion 2:45-4:15

Chairing: A. Haczku, MD, PhD, Davis, CA
F.E. Lee, MD, Atlanta, GA
B.D. Southern, MD, Cleveland, OH

- 901 Loss of Autophagic Homeostasis Regulates the Invasive Capacity of Vimentin Rich Fibroblasts in 3D Lung Pulmospheres from Patients with Idiopathic Pulmonary Fibrosis/R. Suroliya, F. Li, H. Li, Z. Wang, H. Kim, V.J. Thannickal, V.B. Antony, Birmingham, AL, p.A2654**
- 902 Interleukin-13 Affects Type 2 Alveolar Cell Growth and Differentiation/K. Glisinski, S. Paramore, C. Barkauskas, Durham, NC, p.A2655**
- 903 Dose-Response Curve Analysis of Progenitor Cell Transplantation in Bleomycin Injured Mouse Model/E. Ararat, C. Kim, Boston, MA, p.A2656**
- 904 Involvement of Activated Leukocyte Cell Adhesion Molecule (ALCAM/CD166) in Bleomycin-Induced Pulmonary Fibrosis/M.N. Kim, J.Y. Hong, K.W. Kim, Y.J. Lee, J.M. Lee, M.H. Sohn, Seoul, Korea, Republic of, p.A2657**
- 905 Potential Serum Biomarkers in Lymphangioleiomyomatosis/H. Wu, N.M. Nikolaidis, F.X. McCormack, Cincinnati, OH, p.A2658**
- 906 Myofibroblast Differentiation Depends on the Plasma Membrane Translocation of TRPV4/PI3Kg Complexes/L. Grove, M. Mohan, S. Abraham, R.G. Scheraga, B.D. Southern, J.F. Crish, S.V. Naga Prasad, M.A. Olman, Cleveland, OH, p.A2659**
- 907 Redistribution of Extracellular Superoxide Dismutase (SOD3) Due to the R213G SNP Alters RNA-seq Profile of Recruited Alveolar Macrophages in Response to Bleomycin/A. Allawzi, K. Nguyen, L. Banimostafa, K. Riemondy, R. Gaurav, J. Hesselberth, A. Garcia, K.C. El Kasmi, K.R. Stenmark, C. Sucharov, W.J. Janssen, R.P. Bowler, E.N. Grayck, Aurora, CO, p.A2660**
- 908 Radiation-Induced Pulmonary Gene Expression Changes Are Attenuated by the CTGF Antibody Pamrevlumab/K.E. Lipson, M.D. Sternlicht, U. Wirkner, S. Bickelhaupt, R. Lopez Perez, A. Teitz, T.W. Seeley, P.E. Huber, San Francisco, CA, p.A2661**
- 909 Production of Reactive Persulfide Species and Their Effects in the Lungs of Patients with COPD/T. Numakura, H. Sugiura, T. Akaike, M. Yamada, T. Ichikawa, S. Yanagisawa, A. Koarai, M. Ichinose, Sendai, Japan, p.A2662**
- 910 Plasminogen Reduces Lung Fibrosis in the Bleomycin-Induced Lung Fibrosis Model/L. Gagnon, M. Tremblay, B. Groulx, W. Gagnon, A. Felton, P. Laurin, Laval, Canada, p.A2663**
- 911 Novel Multi-Tyrosine Kinase Inhibitor TAS-115 Attenuates Bleomycin-Induced Pulmonary Fibrosis in Mice/K. Koyama, K. Kagawa, H. Nishimura, H. Kawano, Y. Toyoda, H. Goto, H. Ogawa, H. Uehara, Y. Nishioka, Tokushima, Japan, p.A2664**
- 912 Mechano-Activation of Desmoplakin (DSP) Gene Is Mediated by Ten-Eleven Translocation 1 Oxygenase- and Thymine DNA Glycosylase-Dependent Active DNA Demethylation/J. Qu, Z. Zhou, H. Chen, S. Liu, T. Kulkarni, V.J. Thannickal, Y. Zhou, Birmingham, AL, p.A2665**
- 913 Enhancing Regenerated Tissue Maturation and Graft Function Through Ex Vivo Biomimetic Culture in Automated Multi-Channel Rat Lung Bioreactor/D. Gorman, T. Wu, H.C. Ott, S.E. Gilpin, Boston, MA, p.A2666**
- 914 Osteogenesis and Osteolysis in Pulmonary Alveolar Microlithiasis/Y. Uehara, N.M. Nikolaidis, L.B. Pitstick, J.C. Woods, C. Towe, T.C. Lewis, G. Altinisik, E.J.-A. Kopras, W.D. Haffey, K.D. Greis, F.X. McCormack, Cincinnati, OH, p.A2667**
- 915 The Human Lung Cell Atlas: A Comprehensive Reference Map for All Cell Types in the Healthy Human Lung/M.C. Nawijn, J. Rajagopal, G.H. Koppelman, M. Van Den Berge, M.J. Rose-Zerilli, J.W. Holloway, J.L. Schultze, P. Barbry, S.A. Teichmann, S. Prabhakar, F. Theis, H.B. Schiller, Groningen, Netherlands, p.A2668**
- 916 Pharmacologically Enhanced Mitochondrial DNA Repair Improves Performance of Ex Vivo Perfused Lungs from Brain-Dead Pigs/D. Hall, T.N. Machuca, D.C. Holden, J.M. Pickering, Y.B. Tan, J.D. Simmons, V.M. Pastukh, O.M. Gorodnya, M.N. Gillespie, Gainesville, FL, p.A2669**
- 917 Mechanisms of Microlith Clearance Induced by Dietary Phosphate Restriction in Pulmonary Alveolar Microlithiasis/Y. Uehara, N.M. Nikolaidis, Y. Hasegawa, A. Saito, L.B. Pitstick, H. Wu, K. LaSance, J.C. Woods, J. Guo, F.X. McCormack, Cincinnati, OH, p.A2670**
- 918 De- and Recellularization of Avian Lungs: Exploring New Frontiers for Lung Bioengineering/J.J. Uriarte, H.-E. Park, F.E. Uhl, S.M. Wrenn, E.D. Griswold, J. Dearborn, B.A. Ahlers, B. Deng, Y.W. Lam, D.R. Huston, P.C. Lee, D.E. Wagner, D.J. Weiss, Burlington, VT, p.A2671**
- 919 Bioengineered Hydrogels to Improve Three-Dimensional (3D) Models of Lung Regeneration in Chronic Obstructive Pulmonary Disease (COPD)/K.E. Bailey, T.J. D'Ovidio, G.T. Campbell, V.M. Nguyen, N. Manning, M. Koenigshoff, C.M. Magin, Aurora, CO, p.A2672**
- 920 Glycoproteins in Decellularized Lung Tissues - Novel Insights into Their Role for Bioengineering of Transplantable Organs/F.E. Uhl, R.A. Pouliot, J.J. Uriarte, F. Zhang, R. Linhardt, D.J. Weiss, Burlington, VT, p.A2673**
- 921 Three-Dimensional (3D) Bioengineered Hydrogel Microenvironments as Reductionist Models of Idiopathic Pulmonary Fibrosis (IPF)/T.J. D'Ovidio, V.M. Nguyen, C.M. Magin, Aurora, CO, p.A2674**
- 922 Isolation and Characterization of Structure Specific Extracellular Matrix from Decellularized Human Lungs/R.A. Pouliot, A. Bhattacharyya, F.E. Uhl, J.J. Uriarte, D.J. Weiss, Burlington, VT, p.A2675**
- 923 Pulmonary Vascular Engineering Using Induced Endothelial Progenitor-Like Cells/T. Suzuki, T. Waddell, G. Karoubi, Sendai, Japan, p.A2676**
- 924 Potential of Adipose-Derived Stem/Stromal Cells for Lung Transplantation and Lung Tissue Engineering/T. Tsuchiya, R. Doi, H. Watanabe, K. Matsumoto, T. Miyazaki, R. Kamohara, G. Hatachi, K. Tomoshige, N. Yamasaki, T. Nagayasu, Nagasaki, Japan, p.A2677**
- 925 Efficient Revascularization of Decellularized Lung Scaffolds by Co-Delivery of Induced Pluripotent Stem Cell (iPSC)-Derived Endothelial and Smooth Muscle Cells/M. Ho, K.R. Chaudhary, D.J. Stewart, Ottawa, Canada, p.A2678**

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

A110 NOVEL MECHANISMS AND TARGETS IN LUNG CANCER PROGRESSION

2:15 p.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER

Room 5 A-B (Upper Level)

Abstract Summaries 2:15-2:45

Viewing/Discussion 2:45-4:15

Chairing: Z.G. Fridlender, MD, Jerusalem, Israel
C. Bai, MD, PhD, Shanghai, China
A.M. Houghton, MD, Seattle, WA

- 101 DNA Repair Protein Xeroderma Pigmentation Group C (XPC) Protects Against Carcinogen-Induced Lung Cancer Development Through Oxidative DNA Damage Repair and Preserved DNA Damage Response/C.R. Sears, H. Zhou, G.E. Sandusky, Indianapolis, IN, p.A2679**
- 102 PAI-1 Influences the Effectiveness of Chemotherapy Through Its Association with Apoptosis in Cancer-Associated Myofibroblasts/T. Masuda, T. Nakashima, M. Namba, K. Yamaguchi, S. Sakamoto, Y. Horimasu, S. Miyamoto, H. Iwamoto, K. Fujitaka, H. Hamada, N. Hattori, Hiroshima, Japan, p.A2680**
- 103 Serum Exosomes from Epidermal Growth Factor Receptor (EGFR) Mutated Adenocarcinoma Patients Induce Epithelial to Mesenchymal Transition (EMT)/P. Nadarajan, S.G. Chong, M. O'Callaghan, R. Kane, G. Cooke, A. Fabre, M.P. Keane, Dublin, Ireland, p.A2681**
- 104 Strategies to Overcome Endotoxin Induced Radiotherapy Resistance in Non-Small Cell Lung Cancer Cells In Vitro/M. Gökyıldırım, F. Subtil, U. Grandel, F. Grimminger, R. Engenhardt-Cabillic, W. Seeger, U. Sibelius, K. Hattar, Giessen, Germany, p.A2682**
- 105 In Vivo Function of an EGFR Ligand in Lung Cancer/Y. Maeda, K. Tomoshige, M. Guo, I. Fink-Baldauf, Cincinnati, OH, p.A2683**
- 106 Macrophage and Cancer Cell Crosstalk Regulated MicroRNA 147b Plays a Crucial Role in Lung Cancer Progression/K. Turkowski, T. Haselbauer, S. Kaduthanam, H. Sülthmann, F. Grimminger, W. Seeger, R. Savai, Bad Nauheim, Germany, p.A2684**
- 107 $\gamma\delta$ T17 Cells in Malignant Pleural Effusion/X.-B. Pei, H.-Z. Shi, Beijing, China, p.A2685**
- 108 Analysis of ASCL1-Positive Subgroup of Non-Small Cell Lung Cancer/N. Miyashita, M. Horie, A. Saito, T. Nagase, Tokyo, Japan, p.A2686**
- 109 Interferon Regulatory Factor 9 Mediated Regulation of Lung Cancer Progression and Metastasis/D. Brunn, F. Grimminger, W. Seeger, R. Savai, Bad Nauheim, Germany, p.A2687**
- 110 NLRP3 Inflammasome Activation Involves in LPS and Coal Tar Pitch Extract-Induced Malignant Transformation of Human Bronchial Epithelial Cells/F. Feng, S. Duan, N. Wang, L. Huang, H. Shao, Zhengzhou, China, p.A2688**

- 111 Treatment of Malignant Mesothelioma Using Novel Potent Radiosensitizer Sulfoquinovosylacylpropandiol/E. Inamasu, Nagasaki, Japan, p.A2689**
- 112 Salinomycin Overcomes Pemetrexed Resistance in Non-Small Cell Lung Cancer Cells by Inhibiting Epithelial-Mesenchymal Transition/K. Hwang, S. Oh, H. Kim, E. Jeong, Iksan, Korea, Republic of, p.A2690**
- 113 Mouse Model of Immune Response Modulation in Malignant Pleural Effusion/C. Merrick, T.P. Sherrill, I. Psallidas, T.S. Blackwell, F. Maldonado, Nashville, TN, p.A2691**
- 114 Urokinase Plasminogen Activator Expression Is Regulated by p53 Harboring the Lung Cancer-Specific Mutation V157F/J. Barta, S. McMahon, Philadelphia, PA, p.A2692**
- 115 Myokines as Anti-Proliferative Agents in Lung Adenocarcinoma: An In Vitro Study into Exercise and Lung Cancer/M. Zhang, M. Dela Cruz, S. Chowdhury, H. Roy, Boston, MA, p.A2693**
- 116 Small Molecule Activators of PP2A for Treatment of Small Cell Lung Cancer Expressing N-myc/M.A. Shatat, R.A. Avelar, G. Narla, Cleveland, OH, p.A2694**
- 117 Platelet Activation Induced Tyrosin Kinase Inhibitor (TKI) Resistance in Mutant Lung Adenocarcinoma/M.-J. Lee, C.-M. Weng, Y.-F. Fang, F.-T. Chung, H.-P. Kuo, Taoyuan, Taiwan, p.A2695**
- 118 Prostacyclin Attenuates Changes to the miRNA Profile in a Murine Model of Lung Adenocarcinoma/M. New, M. Tennis, L.D. Nield, D. McArthur, R.L. Keith, Aurora, CO, p.A2696**
- 119 The Role of Histone Deacetylase in the Maintenance of Gefitinib-Resistant Lung Cancer Stem Cells with Epidermal Growth Factor Receptor Mutation/F. Nurwidya, F. Takahashi, M. Hidayat, A. Wirawan, H. Baskoro, M. Kato, K. Tajima, N. Shimada, S.L. Andarini, F. Yunus, K. Takahashi, Jakarta, Indonesia, p.A2697**
- 120 Role of LUZP2 Gene in Chronic Obstructive Pulmonary Disease Progressing to Lung Cancer/L. Zhao, M.D. Andrade, J. Na, J.A. Wampfler, M. Zhang, A.H. Limper, P. Yang, Shanghai, China, p.A2698**
- 121 Deep Sequencing Reveals High Allelic Frequencies of Tumor Mutations in the High Risk Airway Epithelium/T. Atwater, S.J. Rahman, M. Diehn, P.P. Massion, Nashville, TN, p.A2699**

4:30 p.m. - 5:45 p.m.

**RESPIRATORY HEALTH AWARDS PRESENTATION OF
THE AMBERSON LECTURE, TRUDEAU MEDAL AND DISTINGUISHED ACHIEVEMENT AWARDS**

SAN DIEGO CONVENTION CENTER
Hall H (Ground Level)

Amberson Lecture

The Amberson Lecturer is an individual with a career of major lifetime contributions to clinical or basic pulmonary research and/or clinical practice. The Lecture is given in honor of James Burns Amberson, an international authority on chest disease and tuberculosis.

Lecturer: Scott T. Weiss MD, MS, Boston, MA

Lecture Title: Network Methods to Prevent Asthma

Trudeau Medal

The Trudeau Medalist is an individual with lifelong major contributions to prevention, diagnosis and treatment of lung disease through leadership in research, education, or clinical care. This award was established in 1926 and is given in honor of Edward Livingston Trudeau, a founder and the first president of the American Lung Association.

Awardee: Jeffrey A. Whitsett, MD, Cincinnati, OH

Distinguished Achievement Award

The Distinguished Achievement Award is given to individuals who have made outstanding contributions to fighting respiratory disease through research, education, patient care, or advocacy.

Awardees: Qutayba Hamid, MBChB, PhD, Quebec, Canada
Monica Kraft, MD, Tuscon, AZ

ASSEMBLY MEMBERSHIP MEETINGS

The fourteen Assemblies are the primary groups of the American Thoracic Society. Each Assembly holds an annual Membership Meeting at the International Conference. All Assembly members and other interested individuals are invited to attend. The Assembly Membership Meetings will be held on Monday, May 21st, 4:30 p.m. -7:00 p.m., with the exception of the Assemblies on Behavioral Science and Health Services Research and Pediatrics (see below.)

The Assembly Membership Meetings provide an update on the Assembly's activities via the Assembly's Leadership and provide Assembly members the chance to have input on future directions, information on how to get involved and networking opportunities. Voting results for the Assembly's future leaders will also be announced.

5:00 p.m. - 7:00 p.m.

PEDIATRICS

MANCHESTER GRAND HYATT SAN DIEGO
Harbor Ballroom A-C (Second Level, Harbor Tower)

Chairing: Stephanie D. Davis, MD, Indianapolis, IN

6:00 p.m. - 8:00 p.m.

BEHAVIORAL SCIENCE AND HEALTH SERVICES RESEARCH

MANCHESTER GRAND HYATT SAN DIEGO
Seaport Ballroom F (Second Level, Seaport Tower)

Chairing: Christopher H. Goss, MD, MSc, Seattle, WA

6:00 p.m. - 8:00 p.m.

SECTION ON GENETICS AND GENOMICS MEMBERSHIP MEETING

MANCHESTER GRAND HYATT SAN DIEGO
Seaport Ballroom C (Second Level, Seaport Tower)

The Section meetings are open to all ATS members and other interested individuals. Items to be discussed include the Sections' current projects and future directions.


Chairing: Blanca E. Himes, PhD, Philadelphia, PA
 Michael H. Cho, MPH, MD, Cambridge, MA

7:00 p.m.-10:00 p.m.

ASSEMBLY ON PEDIATRICS DINNER

MANCHESTER GRAND HYATT SAN DIEGO
Seaport Ballroom A-B (Second Level, Seaport Tower)

The Pediatric Assembly will hold a dinner immediately following the Assembly Membership Meeting. Assembly members and non-members, students and fellows are invited to join us for an evening of networking, great company, and camaraderie. This is a wonderful opportunity to introduce young members and trainees to Assembly leaders, to connect with old friends and to set up new interactions and collaborations.

 Pre-registration and an additional fee are required. Seating is limited.

\$86.00 Fellow
 \$106.00 Member
 \$116.00 Non-Member

7:00 p.m. – 9:00 p.m.

STRATEGIES FOR TB CONTROL: POSTER SESSION

Sponsored by:
 U.S. CENTERS FOR DISEASE CONTROL AND PREVENTION
 STOP TB USA

MARRIOTT MARQUIS SAN DIEGO MARINA
Grand Ballroom 11-13 (North Tower, Lobby Level)

This public health poster forum will focus on innovative techniques, which are helping to meet the challenges of TB control, prevention, and elimination in the United States.

Target Audience:

National, state and local TB program staff, public health professionals (nurses, physicians, epidemiologists), pulmonary specialists, infectious disease specialists, TB and HIV clinicians, epidemiologists, TB consultants, laboratory scientists, and microbiologists.

Chairing: N. Shah, MD, Richmond, CA
 S. Bamrah Morris, MD, MBA, Atlanta, GA

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).



ATS 2018

Where today's science meets tomorrow's care™

International Conference

San Diego, CA

Monday Morning, May 21

CLINICAL

PEDIATRIC CLINICAL CORE CURRICULUM

CME Credits Available: 1

MOC Points Available: 1

PCC2 PEDIATRIC CLINICAL CORE CURRICULUM

7:00 a.m. - 8:00 a.m.

SAN DIEGO CONVENTION CENTER

Room 1 A-B (Upper Level)

Target Audience

Pediatric pulmonary and critical care physicians who work in a clinical setting and are currently engaged in maintenance of certification

Objectives

At the conclusion of this session, the participant will be able to:

- remain current with medical knowledge relevant to their practice in pediatric pulmonology;
- evaluate their understanding of key skills and content areas in pediatric pulmonology as well as receive feedback on their comprehension of a result of a pre-test/post-test comparison;
- support clinicians who are engaged in maintenance of certification activities by providing updates on subjects included in recertification requirements.

The Pediatric Core Curriculum symposia promote lifelong learning and the enhancement of the clinical judgment and skills essential for practicing pediatrician. The symposia will address topics that have been identified by an ATS pediatric working group, which is comprised of members of the ATS Education Committee and the International Conference Committee, who have identified important areas within pediatric medicine (including severe asthma, ILD, BPD, pulmonary hypertension and pulmonary manifestations of pulmonary disease). Attendees will increase their medical knowledge as a result of attending this symposium, and this will be measured by a comparison of pre-test vs. post-test results on the corresponding maintenance of certification module. The ATS Pediatric Core Curriculum will focus on a 3-year content cycle of key medical content in the area of pediatric medicine.

Chairing: P.E. Moore, MD, Nashville, TN

7:00 Neuromuscular Disorders in Children

O.H. Mayer, MD, Philadelphia, PA

7:30 Update on Management of Children with SMA and DMD

R. Shell, MD, Columbus, OH

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

SUNRISE SEMINARS

CME Credits Available: 1

R Registration Fee: \$50.00 (includes continental breakfast.)
Attendance is limited. Pre-registration is required.

7:00 a.m. - 8:00 a.m.

MARRIOTT MARQUIS SAN DIEGO MARINA

- SS101 SEVERE ASTHMA FOR THE CLINICIAN**
M. Gauthier, MD, Pittsburgh, PA
Grand Ballroom 1 (North Tower, Lobby Level)
- SS102 DESIGNING BEHAVIOR CHANGE INTERVENTIONS ONE BARRIER AT A TIME**
I. Riley, MD, MPH, Durham, NC
V. Prieto-Centurion, MD, Chicago, IL
Grand Ballroom 2 (North Tower, Lobby Level)
- SS103 COPD AND BRONCHIECTASIS OVERLAP SYNDROME**
M. Prickett, MD, Chicago, IL
Grand Ballroom 3 (North Tower, Lobby Level)
- SS104 LUNG TRANSPLANT FOR CONNECTIVE TISSUE ASSOCIATED ILD**
R. Jablonski, MD, Chicago, IL
Grand Ballroom 4 (North Tower, Lobby Level)
- SS105 NAVIGATING THE DIAGNOSIS AND MANAGEMENT OF MYOSITIS-ASSOCIATED INTERSTITIAL LUNG DISEASE**
D. Assayag, MD, CM, Montreal, Canada
Presidio 1 (North Tower, Lobby Level)
- SS106 PULMONARY MANIFESTATIONS OF VASCULITIS**
L. Fussner, MD, Columbus, OH
Presidio 2 (North Tower, Lobby Level)
- SS107 DIAGNOSIS AND MANAGEMENT OF NEUROLOGIC AND CARDIAC SARCOIDOSIS: A GUIDE FOR PULMONOLOGISTS**
M.L. Ribeiro Neto, MD, Cleveland, OH
Temecula 1-2 (North Tower, First Floor)
- SS108 NEUROMUSCULAR RESPIRATORY FAILURE: IMPROVING QUALITY OF LIFE AND SURVIVAL WITH NIPPV**
K. Provost, DO, PhD, Buffalo, NY
Temecula 3-4 (North Tower, First Floor)
- SS109 CHRONIC HYPERSENSITIVITY PNEUMONITIS: DIAGNOSTIC AND TREATMENT DILEMMAS**
D.M. Perlman, MD, Minneapolis, MN
Leucadia (South Tower, First Floor)
- SS110 DEFINING AND ADDRESSING SOCIAL DETERMINANTS OF HEALTH: IMPLICATIONS FOR PULMONARY DISEASE**
T. Parekh, DO, Birmingham, AL
Point Loma (South Tower, First Floor)
- SS111 A PRACTICAL TOOLKIT FOR IMPROVING PATIENT AND FAMILY ENGAGEMENT IN THE ICU**
S. Beesley, MD, Murray, UT
Solana (South Tower, First Floor)
- SS112 BRONCHOALVEOLAR LAVAGE IN THE IMMUNOCOMPROMISED HOST: MOVING BEYOND TRADITIONAL DIAGNOSTIC METHODS FOR FUNGAL INFECTION**
O. Epelbaum, MD, Valhalla, NY
Balboa (South Tower, Third Floor)

SS113 WHAT'S ALL THE VUS ABOUT GENETIC TESTING FOR PEDIATRIC LUNG DISEASE?

J.A. Wambach, MD, St. Louis, MO
L.M. Noguee, MD, Baltimore, MD

Mission Hills (South Tower, Third Floor)

SS114 PULMONARY HYPERTENSION: DIFFERENT GROUPS, DIFFERENT TREATMENT

N. Al-Naamani, MD, MS, Philadelphia, PA

Cardiff (South Tower, Third Floor)

SS115 THE MITOCHONDRIAL BIOLOGIST'S TOOLBOX: ALL YOU NEED TO STUDY MITOCHONDRIA IN THE LUNG

S.M. Cloonan, PhD, New York, NY

Del Mar (South Tower, Third Floor)

SS116 REDUCING UNCERTAINTY IN ORAL DEVICE THERAPY FOR AIRWAY MANAGEMENT

S.W. Carstensen, DDS, Bellevue, WA

Miramar (South Tower, Third Floor)

SS117 TIPS AND TRICKS IN READING AND CRITIQUING CLINICAL TRIALS IN SLEEP MEDICINE

C.M. Hoyos, BSc(Hons), MPH, PhD, Glebe, Australia

Palomar (South Tower, Third Floor)

SS118 PULMONARY NODULE EVALUATION: MANAGING UNCERTAINTY

J. Iaccarino, MD, Boston, MA

La Costa (South Tower, Fourth Floor)

FACULTY DEVELOPMENT SEMINAR

FD1 SHOULD I STAY OR SHOULD I GO? HOW TO APPROACH FELLOW-TO-FACULTY AND EARLY CAREER FACULTY TRANSITIONS

Conference badges are required for admission.

Space is limited and admittance is on a first-come, first-served basis.

There is no additional fee.

7:00 a.m. - 8:00 a.m. SAN DIEGO CONVENTION CENTER

Room 2 (Upper Level)

Target Audience

Early and mid-career clinical and/or research faculty, clinical & postdoctoral fellows, medical and graduate students, residents, nurses, and allied health professionals involved in or seeking careers in academic pulmonary, critical care and/or sleep medicine

Objectives

At the conclusion of this session, the participant will be able to:

- describe the importance of weighing career opportunities available at their home institution against potential opportunities and risks of changing institutions;
- compare and contrast the potential impact of changing institutions on research productivity, clinical responsibilities, educational opportunities and financial incentives;
- develop a rational individual career development plan based with regard to staying at or moving on from their training institution.

Regardless of anticipated career path, graduating clinical fellows, post-doctoral fellows, and early career faculty members are frequently presented with options of remaining at their "home" institution versus seeking new opportunities through a change in location. However, trainees and early career faculty may not be equipped to weigh advantages and disadvantages of these competing options. Moreover, it can be difficult to obtain objective guidance on these decisions, as mentors, current and potential future employers may be inherently conflicted. This session will identify and discuss the opportunities, risks and potential benefits of different options, and address strategies to navigate the decision making process.

Chairing: J.C. Horowitz, MD, Ann Arbor, MI
N.S. Sharma, MD, Birmingham, AL

Speakers: R. Paine, MD, Salt Lake City, UT
J. Richards, MD, MA, Boston, MA
Y. Huang, MD, Ann Arbor, MI

BASIC • CLINICAL • TRANSLATIONAL

ATS KEYNOTE SERIES

CME Credits Available: .75

The Keynote Series provides state of the art lectures on selected topics in an unopposed format showcasing timely and diverse topics which relate to pulmonary, critical care and sleep medicine.

*Two sessions are presented each morning during the conference.
Below are the topics for the Monday, May 21st*

K3 NATURE AND NURTURE OF TISSUE RESIDENT MACROPHAGES IN HEALTH AND DISEASE

8:15 a.m. - 9:00 a.m. SAN DIEGO CONVENTION CENTER
Room 6 B (Upper Level)

Speaker: Christopher K. Glass, MD, PhD, La Jolla, CA

K4 REDUCING BURNOUT AND PROMOTING ENGAGEMENT: INDIVIDUAL AND ORGANIZATIONAL APPROACHES TO PHYSICIAN WELL-BEING

8:15 a.m. - 9:00 a.m. SAN DIEGO CONVENTION CENTER
Room 6 C/F (Upper Level)

Speaker: Tait D. Shanafelt, MD, Stanford, CA

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

CLINICAL
YEAR IN REVIEW
CME Credits Available: 2
MOC Points Available: 2

B1 CLINICAL YEAR IN REVIEW 2**9:15 a.m. - 11:15 a.m. SAN DIEGO CONVENTION CENTER**

Hall H (Ground Level)

Target Audience

Providers including physicians, nurses, respiratory therapists, nurse practitioners, physician assistants; trainees including residents and fellows; clinical researchers

Objectives

At the conclusion of this session, the participant will be able to:

- apply new clinical research knowledge to clinical practice;
- learn new findings about key conditions in pulmonary, critical care and sleep;
- gain new strategies to manage the care of common conditions in pulmonary, critical care, and sleep.

The annual Clinical Year in Review symposia provides concise summaries of the most impactful clinical research publications related to specific clinical topics. Speakers will highlight 5 of the most important and influential publications on their topic in written format and during their talks.

Chairing: D.W. Ford, MD, Charleston, SC
V.E. Ortega, MD, PhD, Winston Salem, NC
J.S. Lee, MD, Aurora, CO

9:15 COPD
M. Drummond, MHS, MD, Chapel Hill, NC

9:45 Asthma
L.C. Denlinger, MD, PhD, Madison, WI

10:15 Lung Cancer
R.S. Wiener, MD, MPH, Boston, MA

10:45 Management in Pleural Disease
V.C. Broaddus, MD, San Francisco, CA

This session and the International Conference are supported by educational grants from AstraZeneca LP, GlaxoSmithKline,

Sanofi Genzyme and Regeneron Pharmaceuticals, Sunovion Pharmaceuticals Inc. All CME sessions have been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) and are free of the control of commercial interests.

BEHAVIORAL • CLINICAL • TRANSLATIONAL
CLINICAL TOPICS IN PULMONARY MEDICINE
CME Credits Available: 2
Nursing Contact Hours Available: 2.4

B2 INTERSTITIAL LUNG DISEASE (ILD), IDIOPATHIC INTERSTITIAL PNEUMONIA (IIP) AND HYPERSENSITIVITY PNEUMONITIS (HP): CONTROVERSIES IN MANAGEMENT. A PRO/CON DEBATE**Assemblies on Clinical Problems; Allergy, Immunology and****Inflammation; Behavioral Science and Health Services Research; Environmental, Occupational and Population Health; Nursing****9:15 a.m. - 11:15 a.m.****SAN DIEGO CONVENTION CENTER****Ballroom 20 B-C (Upper Level)****Target Audience**

Clinicians, registered nurses, advance practice nurses, other allied health staff, researchers, investigators in basic and clinic science pertinent to interstitial lung disease, and sponsors for research

Objectives

At the conclusion of this session, the participant will be able to:

- describe genetic screening for patients with IIP and IPF and discuss implications of this with patients;
- discuss the potential role of cryobiopsy in diagnosis of IIP and HP and how this can be used in clinical practice;
- compare and contrast predictive models and the potential role of such models in diagnosis of IIP and HP.

This session will consist of 4 Pro/Con debates on challenging aspects of diagnosing and treating Idiopathic Interstitial Pneumonia (IIP) and Hypersensitivity Pneumonitis (HP). The first debate will center on whether circulating serum biomarkers are useful in guiding diagnosis and management for patients with IIP. The second will focus on the role of cryobiopsy versus surgical and transbronchial lung biopsies in diagnosis of IIP and HP. The third debate will address the role of predictive models in diagnosis of IIP and HP. The fourth will be centered on whether genetic screening should routinely be performed among patients with IIP.

Chairing: G. Raghu, MD, Seattle, WA
B. Collins, MD, Seattle, WA

9:15 Introduction and Opening Remarks
G. Raghu, MD, Seattle, WA

9:19 Case Presentation
B. Collins, MD, Seattle, WA

9:23 Serum Biomarkers are Useful in the Guiding Diagnosis and Treatment of Idiopathic Interstitial Pneumonia and Hypersensitivity Pneumonitis
B. Crestani, MD, Paris, France

9:33 Serum Biomarkers are Not Useful in the Guiding Diagnosis and Treatment of Idiopathic Interstitial Pneumonia and Hypersensitivity Pneumonitis
N. Kaminski, MD, New Haven, CT

9:43 Rebuttal: Comments and Discussion
B. Collins, MD, Seattle, WA

9:47 Case Presentation
G. Raghu, MD, Seattle, WA

9:51 Cryobiopsy is the Procedure of Choice for Obtaining Lung Tissue for Diagnosis of IIP/HP
V. Poletti, MD, PhD, Forli, Italy

10:01 Cryobiopsy is Not the Procedure of Choice for Obtaining Lung Tissue for Diagnosis of IIP/HP
A.C. Mehta, MBBS, Cleveland, OH

10:11 Rebuttal: Comments and Discussion
G. Raghu, MD, Seattle, WA

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- 10:15 Case Presentation**
B. Collins, MD, Seattle, WA
- 10:19 Predictive Models Are Useful in Diagnosis of HP and IIP**
K.A. Johannson, MD, MPH, Calgary, Canada
- 10:29 Predictive Models Are Not Useful in Diagnosis of HP and IIP**
C.J. Ryerson, MD, Vancouver, Canada
- 10:39 Rebuttal: Comments and Discussion**
B. Collins, MD, Seattle, WA
- 10:43 Case Presentation**
G. Raghu, MD, Seattle, WA
- 10:48 Genetic Screening Should be Routinely Done for Patients with Interstitial Pneumonia of Unknown Etiology**
D.A. Schwartz, MD, Aurora, CO
- 10:58 Genetic Screening Should Not be Routinely Done for Patients with Interstitial Pneumonia of Unknown Etiology**
M. Armanios, MD, Baltimore, MD
- 11:08 Rebuttal: Comments and Discussion**
G. Raghu, MD, Seattle, WA
- 11:12 Closing Remarks**
G. Raghu, MD, Seattle, WA

CLINICAL

CLINICAL TOPICS IN PULMONARY MEDICINE

CME Credits Available: 2

B3 THE REVOLUTION OF LUNG IMAGING: FROM PIXELS TO PATIENTS

Assemblies on Clinical Problems; Respiratory Structure and Function

9:15 a.m. - 11:15 a.m. SAN DIEGO CONVENTION CENTER

Ballroom 20 D (Upper Level)

Target Audience

Pulmonary physicians, radiologists, clinical researchers, clinician-investigators in training

Objectives

At the conclusion of this session, the participant will be able to:

- learn new developments of lung imaging techniques and its clinical applications in several chronic lung diseases
- understand the role of imaging in disease detection, stratification and prognostication
- understand the advantages, limitations, and potential solutions to use lung imaging in clinical trials

Recent years have brought exciting progress in static and functional lung imaging across multiple pulmonary conditions such as COPD, asthma, bronchiectasis, interstitial lung disease, and pulmonary vascular disease. These advances included the use of hyperpolarized noble gas MRI to enable visualization of ventilation and lung perfusion as well as inspiratory/expiratory CT matching techniques to detect and quantify functional small airways disease. These advances have improved our understanding of the pathophysiology of chronic lung disease and offered tools that have the potential to be used for patient stratification and the assessment of intermediate therapeutic endpoints in clinical investigation.

Chairing: A. Diaz, MD, Boston, MA
M. Kirby, PhD, Vancouver, Canada
F.C. Scirba, MD, Pittsburgh, PA

- 9:15 Measuring COPD with Inspiratory and Expiratory Images**
M.K. Han, MD, MS, Ann Arbor, MI
- 9:35 MRI for Airway Diseases: Seeing is Believing**
G. Parraga, PhD, London, Canada
- 9:55 Imaging in Bronchiectasis: New Insights for an Old Problem**
A. Diaz, MD, Boston, MA
- 10:15 Measuring the Fibrotic Lung Beyond the Naked Eye**
D.J. Lederer, MD, MS, New York, NY
- 10:35 No Cath! Assessing Pulmonary Vascular Disease with Non-Contrast CT**
G.R. Washko, MD, Boston, MA
- 10:55 Is Lung Imaging an End-Point Ready for Trials?**
D.G. Parr, MA, MBBS, MD, Coventry, United Kingdom

BEHAVIORAL • CLINICAL • TRANSLATIONAL

CRITICAL CARE TRACK

CME Credits Available: 2

Nursing Contact Hours Available: 2.4

B4 TARGETS FOR IMPROVED SEPSIS CARE: WHAT, WHEN, AND HOW

Assemblies on Critical Care; Behavioral Science and Health Services Research; Clinical Problems; Pulmonary Infections and Tuberculosis; Nursing

9:15 a.m. - 11:15 a.m.

SAN DIEGO CONVENTION CENTER

Ballroom 20 A (Upper Level)

Target Audience

Pulmonary and critical care, emergency room, and hospitalist physicians and trainees as well as researchers, administrators, registered nurses and advanced practice nurses interested in learning how to apply diagnostic and therapeutic targets for the care of patients with sepsis.

Objectives

At the conclusion of this session, the participant will be able to:

- discuss the importance of early antibiotic therapy for patients with sepsis;
- analyze the potential benefits and harms of early, aggressive fluid therapy for patients with sepsis;
- describe the potential role for metabolic resuscitation with vitamin C for patients with sepsis.

The results from the ProCESS, ProMISe, and ARISE clinical trials in sepsis have generated significant uncertainty regarding the optimal therapy for patients with sepsis. Recent studies investigating early fluid therapy and metabolic resuscitation with vitamin C have only added to this confusion. This symposium will provide an opportunity to discuss both cornerstone and novel therapies for patients with sepsis and will end with a talk by an expert in the field regarding how they treat patients in light of current evidence. This symposium will provide guidance to both clinicians and scientists regarding the state of the art in sepsis care and how to use this evidence to improve patient outcomes.

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- Chairing:** M.M. Churpek, MD, MPH, PhD, Chicago, IL
V. Liu, MD, MS, Oakland, CA
H.C. Prescott, MD, MSc, Ann Arbor, MI
- 9:15 Targeting Earlier Identification: From qSOFA to Big Data**
M.M. Churpek, MD, MPH, PhD, Chicago, IL
- 9:32 Aiming for Early Antibiotics: Should we Move the Needle to the Pre-Hospital Setting?**
C.W. Seymour, MD, MSc, Pittsburgh, PA
- 9:49 Should We be Clearing Lactate for All our Patients?**
V. Liu, MD, MS, Oakland, CA
- 10:06 Fever Control as a Therapeutic Target in Sepsis: Is it Cool to Be Hot or Hot to Be Cold?**
P. Young, MBChB, Wellington, New Zealand
- 10:23 Intravenous Vitamin C: An Evolving Role in Sepsis and Acute Lung Injury**
A.A. Fowler, MD, Richmond, VA
- 10:40 Restoring the Microbiome to Improve Recovery**
H.C. Prescott, MD, MSc, Ann Arbor, MI
- 10:57 How I Treat Patients with Sepsis in 2018**
L.E. Evans, MD, MSc, New York, NY

BASIC • TRANSLATIONAL

BASIC SCIENCE CORE

CME Credits Available: 2

B5 MITOCHONDRIA AND NUCLEAR-DERIVED DANGER-ASSOCIATED MOLECULAR PATTERNS (DAMPs) IN PULMONARY DISEASES

Assemblies on Respiratory Cell and Molecular Biology; Allergy, Immunology and Inflammation

9:15 a.m. - 11:15 a.m. MARRIOTT MARQUIS SAN DIEGO MARINA
Pacific Ballroom 21 (North Tower, First Floor)

Target Audience

Basic and translational scientists working on lung diseases; lung health researchers, students, fellows, residents on both clinical and basic research scientists

Objectives

At the conclusion of this session, the participant will be able to:

- learn about the scope of DAMPs and what the mitochondrial and nuclear-derived DAMPs are, and their potential roles in pulmonary health;
- understand the cellular and molecular mechanisms underlying how DAMPs affect immune responses in pulmonary diseases;

Emerging evidence sheds light on the role of danger or damage associated molecular patterns (DAMPs), the host-derived endogenous signals, in many inflammatory lung diseases. Both mitochondrial and nuclear components, such as mitochondrial DNA and high-mobility group box 1 (HMGB1), when released into the extracellular milieu, can induce both innate and adaptive immune responses. These DAMPs can alter the resistance of host defense in both plants and animals to pathogens, causing cellular injury and lung diseases. The goal of this symposium is to highlight the recent advances in mitochondria and

nuclear-derived DAMPs, particularly in their cell signaling, redox status, and the therapeutic potential of targeting these DAMPs in pulmonary diseases (acute lung injury, pulmonary infections, and COPD).

- Chairing:** T. Dolinay, MD, PhD, Philadelphia, PA
I. Rahman, PhD, Rochester, NY
P. Lee, MD, New Haven, CT
S. Grazioli, MD, Geneva, Switzerland
- 9:15 A Patient's Perspective**
K. Erickson, Thousand Oaks, CA
- 9:20 Pathogen Recognition Receptors in the Generation of Protective Innate Immune Responses of the Lung**
T.J. Standiford, MD, Ann Arbor, MI
- 9:39 Mitochondrial DAMPs and Regulation of Abnormal Inflammation in COPD**
I.H. Heijink, PhD, Groningen, Netherlands
- 9:58 Mitochondrial Danger Signals in Acute and Chronic Lung Disease**
A.M. Choi, MD, New York, NY
- 10:17 HMGB1 in Innate Immunity Against Pulmonary Infections in CF and VAP**
L. Mantell, MD, PhD, East Meadow, NY
- 10:36 Mitochondrial DNA in Asthma and Chronic Bronchitis**
Y. Tesfaigzi, PhD, Albuquerque, NM
- 10:55 Mitochondrial DAMPs in Aging and Lung Fibrosis**
A.L. Mora, MD, Pittsburgh, PA

BASIC • BEHAVIORAL • CLINICAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

B6 PRINCIPLES TO PRACTICE IN PULMONARY REHABILITATION: A PRO/CON DEBATE

Assemblies on Pulmonary Rehabilitation; Behavioral Science and Health Services Research; Clinical Problems; Environmental, Occupational and Population Health; Pulmonary Circulation; Respiratory Structure and Function

9:15 a.m. - 11:15 a.m. SAN DIEGO CONVENTION CENTER
Room 16 A-B (Mezzanine Level)

Target Audience

Pulmonologists. Academics. Nurses. Respiratory therapists. Physical therapists. Exercise physiologists. Those with clinical and research interests in pulmonary rehabilitation. Trainees and Fellows.

Objectives

At the conclusion of this session, the participant will be able to:

- understand the molecular basis by which physical fitness and physical activity imparts health benefit in cardiopulmonary diseases
- learn new finding about the mechanisms underlying skeletal muscle dysfunction in cardiopulmonary diseases
- identify the effective features of exercise training as part of an integrated pulmonary rehabilitation program

Exercise training forms the key component of pulmonary rehabilitation (PR). Speakers will draw on current advances in basic science to debate outstanding issues in PR, and how they relate to cardiopulmonary diseases. While PR is the most effective therapy for COPD and other cardiopulmonary diseases, the basic mechanisms underlying this benefit are not well known. Debates will center on the mechanisms of skeletal muscle dysfunction and whether PR addresses these deficiencies. Pro and con positions in each of 4 topics will be presented over 12 minutes, with 1 minute for rebuttal and 5 minutes discussion with the audience.

Chairing: R. Casaburi, MD, PhD, Torrance, CA
M. Steiner, MBBS, MD, Leicester, United Kingdom

- 9:15 Introduction**
R. Casaburi, MD, PhD, Torrance, CA
- 9:17 Increasing Physical Fitness Should Be the Primary Goal of Pulmonary Rehabilitation**
H.B. Rossiter, PhD, Torrance, CA
- 9:31 Increasing Physical Activity Should Be the Primary Goal of Pulmonary Rehabilitation**
T. Troosters, PT, PhD, Leuven, Belgium
- 9:45 Muscle Fiber Atrophy in COPD Starts with Loss of Integrity in the Neuromuscular Junction**
R. Hepple, PhD, Gainesville, FL
- 10:00 Muscle Fiber Atrophy in COPD Starts with Inflammatory-Mediated Ubiquitin Proteasome Activation**
E. Barreiro, MD, PhD, Barcelona, Spain
- 10:15 Ventilatory Limitation is the Major Etiology of Exercise Intolerance in COPD**
D.E. O'Donnell, MD, Kingston, Canada
- 10:30 Skeletal Muscle Oxygen Delivery and Utilization Limitations are the Major Etiologies of Exercise Intolerance in COPD**
R. Casaburi, MD, PhD, Torrance, CA
- 10:45 Exercise Training Reverses Muscle Dysfunction in COPD**
P.D. Wagner, MD, La Jolla, CA
- 11:00 Exercise Training Does Not Reverse Muscle Dysfunction in COPD**
F. Maltais, MD, Quebec, Canada

BASIC • CLINICAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

B7 GENETICS, EPIGENETICS, AND GENOMICS OF CHILDHOOD LUNG DISEASES

Assemblies on Pediatrics; Allergy, Immunology and Inflammation; Pulmonary Circulation; Respiratory Cell and Molecular Biology; Genetics and Genomics Section

9:15 a.m. - 11:15 a.m. SAN DIEGO CONVENTION CENTER

Room 1 A-B (Upper Level)

Target Audience

Pediatricians, primary care providers, and pulmonary specialists taking care of children with chronic lung disorders. Scientists whose main research focus is on the mechanisms and pathophysiology of pediatric lung disease.

Objectives

At the conclusion of this session, the participant will be able to:

- learn new findings on the genetic and genomic basis of important pediatric lung diseases such as asthma, cystic fibrosis, pulmonary hypertension, and bronchopulmonary dysplasia.
- discuss the impact that these findings have in the prognosis and management of patients with these diseases.
- explore future directions for research aimed at understanding the genetic underpinning of these and other pediatric lung diseases.

Our understanding of the genetic basis of pediatric lung disease has advanced exponentially over the past several years. Beyond single-point mutations, research on the determinants of pediatric lung disease has incrementally focused on epigenetic regulation, gene-by-environment interactions, transcriptomic profiling, and other complex mechanisms. In this session, we will discuss the latest developments in the genetics and genomics of childhood asthma, cystic fibrosis, pulmonary hypertension, and bronchopulmonary dysplasia. We will also discuss the clinical implications of these recent findings.

Chairing: E. Forno, MD, MPH, Pittsburgh, PA
E.D. Austin, MD, Nashville, TN

- 9:15 Introduction**
E. Forno, MD, MPH, Pittsburgh, PA
- 9:20 Recent Advances in the Genetics and Epigenetics of Childhood Asthma**
E. Forno, MD, MPH, Pittsburgh, PA
- 9:40 Questions and Answers**
E. Forno, MD, MPH, Pittsburgh, PA
- 9:43 The Role of the Transcriptome in Asthma and Glucocorticoid Response**
B.E. Himes, PhD, Philadelphia, PA
- 10:03 Questions and Answers**
B.E. Himes, PhD, Philadelphia, PA
- 10:06 CFTR Regulation, Disease Modifiers, and Their Interactions**
L. Strug, PhD, Toronto, Canada
- 10:26 Questions and Answers**
L. Strug, PhD, Toronto, Canada
- 10:29 Genomic Regulation in Pulmonary Hypertension**
E.D. Austin, MD, Nashville, TN
- 10:49 Questions and Answers**
E.D. Austin, MD, Nashville, TN
- 10:52 Genetics and Epigenetics of Bronchopulmonary Dysplasia**
N. Ambalavanan, MD, Birmingham, AL
- 11:12 Questions and Answers**
N. Ambalavanan, MD, Birmingham, AL

This session and the International Conference are supported by an educational grant from Vertex Pharmaceuticals Inc.

All CME sessions have been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) and are free of the control of commercial interests.

CLINICAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

B8 NONTUBERCULOUS MYCOBACTERIA INFECTION: CURRENT KNOWLEDGE AND RECENT ADVANCES

Assembly on Pulmonary Infections and Tuberculosis

9:15 a.m. - 11:15 a.m. **MARRIOTT MARQUIS SAN DIEGO MARINA**

Grand Ballroom 8-9 (North Tower, Lobby Level)

Target Audience

Nurses, respiratory therapists, pulmonologists, post graduate trainees, inclusive/ advanced practitioners.

Objectives

At the conclusion of this session, the participant will be able to:

- identify sources of NTM in the environment and trends in NTM epidemiology
- gain new or better strategies to diagnose NTM infections
- gain appropriate strategies to treat NTM infections

Nontuberculous mycobacteria (NTM) are present in the environment, and cause pulmonary disease that is increasingly common. Diagnosis and treatment of nontuberculous mycobacteria (NTM) remains substantially complex. The 2007 treatment guidelines for NTM (including *Mycobacterium avium* complex), based primarily on expert opinion, have been updated and will be published prior to the ATS 2018 meeting. The session will review our current knowledge of NTM epidemiology, diagnosis, and treatment and present the latest global research updates.

Chairing: K.L. Winthrop, MD, MPH, Portland, OR
S.H. Kasperbauer, MD, Denver, CO
K.N. Olivier, MD, MPH, Bethesda, MD

9:15 A Patient's Perspective
M. O'Bryan, Palm Desert, CA

9:20 NTM Epidemiology
E. Henkle, PhD, MPH, Portland, OR

9:35 Environmental NTM
R. Thomson, MBBS, PhD, Greenslopes, Australia

9:55 Molecular Epidemiology
J. van Ingen, PhD, Nijmegen, Netherlands

10:15 Immunology/Pathogenesis
K.N. Olivier, MD, MPH, Bethesda, MD

10:35 Diagnosis of NTM
K. Morimoto, MD, Tokyo, Japan

10:55 Updates in Pulmonary NTM Disease Treatment: At the Start of a Pipeline?
C.L. Daley, MD, Denver, CO

*This session and the International Conference are supported by an educational grant from **Insmid Incorporated**.*

All CME sessions have been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) and are free of the control of commercial interests.

BASIC • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

B9 TH17 CELLS: FRIEND, FOE OR BOTH IN CHRONIC LUNG DISEASES

Assemblies on Allergy, Immunology and Inflammation; Environmental, Occupational and Population Health; Respiratory Cell and Molecular Biology

9:15 a.m. - 11:15 a.m. **MARRIOTT MARQUIS SAN DIEGO MARINA**

Grand Ballroom 5-6 (North Tower, Lobby Level)

Target Audience

All basic, translational and clinical investigators, junior faculty and fellows with an interest in innate and adaptive immune cell development and function during the progression of chronic lung diseases and resultant therapeutic interventions.

Objectives

At the conclusion of this session, the participant will be able to:

- acquire an understanding of how innate or adaptive immune dysfunction contributes to pathophysiology in chronic lung disease.
- understand Th17 plasticity and evolution in chronic lung inflammation.
- identify novel mechanisms that facilitate Th17 pathogenesis

This session will delineate the contribution of Th17 cells in chronic lung disease with a focus on its contribution to pathophysiology or clinical resolution.

Chairing: W.P. Drake, MD, Nashville, TN
A.P. Fontenot, MD, Aurora, CO
P.A. Verhoef, PhD, MD, Chicago, IL

9:15 Metabolic Dependencies of T Cells in Inflammation
J. Rathmell, PhD, Nashville, TN

9:35 IL-17A Drives Infectious and Noninfectious Pulmonary Fibrosis
T. Wynn, PhD, Bethesda, MD

9:55 Significance of Th17 Pathway Signaling in IPF Clinical Outcome
J.D. Herazo-Maya, MD, New Haven, CT

10:15 Recalibrating Severe Asthma: Th1 and Th17 Cells
A. Ray, PhD, Pittsburgh, PA

10:35 Hormonal Control of Th17-Mediated Inflammation in Asthma
D.C. Newcomb, PhD, Nashville, TN

10:55 IL-17 and Lung Epithelial Signaling in Host Defense
J.K. Kolls, MD, New Orleans, LA

*This session and the International Conference are supported by educational grants from **GlaxoSmithKline, Sanofi Genzyme and Regeneron Pharmaceuticals**. All CME sessions have been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) and are free of the control of commercial interests.*

BEHAVIORAL • CLINICAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

MOC Points Available: 2

B10 LUNG CANCER SCREENING: WHO'S IN AND WHO'S OUT? A PRO/CON DEBATE

Assemblies on Thoracic Oncology; Behavioral Science and Health Services Research

9:15 a.m. - 11:15 a.m.

SAN DIEGO CONVENTION CENTER

Room 32 A-B (Upper Level)

Target Audience

Providers of lung health, practitioners who manage lung cancer screening, policy makers, behavioral and clinical scientists, translational scientists with an interest in lung cancer

Objectives

At the conclusion of this session, the participant will be able to:

- understand the risks and benefits of lung cancer screening for patients with severe COPD and incorporate this knowledge into clinical decision-making.
- understand and be able to apply various methods for determining patient eligibility for lung cancer screening
- learn the potential role for biomarkers in determining patient eligibility for lung cancer screening and how this may be integrated into clinical practice.

The NSLT showed a 20% reduction in lung cancer mortality with yearly LDCT screening of high-risk patients. Current USPSTF guidelines recommend yearly screening in patients aged 55-80 with a greater than 30 pack-year smoking history who currently smoke or have quit within 15 years. Using a pro-con debate approach, this session will address key questions about patient selection for LDCT screening such as: what is the role for screening in patients with severe COPD, should patient selection for screening be based on guideline criteria or individual risk factors, and should biomarkers be used in determining which patients should undergo screening.

Chairing: J. Iaccarino, MD, Boston, MA
M.P. Rivera, MD, Chapel Hill, NC
L.T. Tanoue, MD, New Haven, CT
C.R. Sears, MD, Indianapolis, IN

9:15 Patients with Moderate to Severe COPD Should Undergo LDCT Screening for Lung Cancer
J.J. Zulueta, MD, Navarra, Spain

9:35 Patients with Moderate to Severe COPD Should Not Undergo LDCT Screening for Lung Cancer
J. Iaccarino, MD, Boston, MA

9:55 LDCT Screening Patient Selection Should Be Based on USPSTF Guideline Criteria
C.G. Slatore, MD, Portland, OR

10:15 LDCT Screening Patient Selection Should Be Based on Personalized Lung Cancer Risk Prediction Models
M.C. Tammemagi, PhD, Toronto, Canada

10:35 Biomarkers Should Be Utilized in Determining Patient Selection for Lung Cancer Screening
R.P. Young, MBChB, MD, PhD, Auckland, New Zealand

10:55 Biomarkers Should Not Be Utilized in Determining Patient Selection in Lung Cancer Screening
C.R. Sears, MD, Indianapolis, IN

BASIC • BEHAVIORAL • CLINICAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

B11 FROM E-CIGARETTES TO MARIJUANA: ADDICTION IN PULMONARY AND CRITICAL CARE MEDICINE

Assemblies on Behavioral Science and Health Services Research; Respiratory Cell and Molecular Biology

9:15 a.m. - 11:15 a.m.

SAN DIEGO CONVENTION CENTER

Room 14 A-B (Mezzanine Level)

Target Audience

All physicians and nurses. Researchers with an interest in marijuana, electronic cigarettes, smoking, and alcohol misuse.

Objectives

At the conclusion of this session, the participant will be able to:

- integrate translational, clinical, and epidemiological research into discussions with patients about the risks of electronic cigarettes and combustible marijuana
- combine translational and clinical research findings to inform discussions with patients about emerging therapies for COPD and tailored options for smoking cessation
- gain new findings about how to modify impaired immunity in the alcoholic lung and the barriers to intervention in survivors of critical illness with alcohol misuse

The emergence of electronic cigarettes and the legalization of recreational and medical marijuana combined with the high prevalence of cigarette smoking and alcohol misuse bring addiction issues to the forefront of many clinical encounters in pulmonary and critical care medicine. This scientific symposium will focus on areas in which addiction medicine intersects with pulmonary and critical care medicine. The session will bring together outstanding investigators to highlight cutting-edge basic, translational, and clinical investigation and discuss research in a way that can inform bedside conversations in the pulmonary clinic and the intensive care unit.

Chairing: B.J. Clark, MD, MS, Aurora, CO
W.J. Janssen, MD, Denver, CO
A.C. Melzer, MD, MS, Minneapolis, MN

9:15 What Does Translational Research Teach Us About the Toxicities of Electronic Cigarettes?
L.E. Crotty Alexander, MD, San Diego, CA

9:30 Are Electronic Cigarettes an Emerging Public Health Problem?
Speaker To Be Announced

9:45 What Does Translational Research Teach Us About the Toxicities of Inhaled Marijuana?
D.P. Tashkin, MD, Los Angeles, CA

10:00 Marijuana and Lung Health in 2018: What Do We Know and Where Should We Go?
E.L. Burnham, MD, Denver, CO

10:15 Emerging Therapies to Alter the Natural History of COPD
P.J. Barnes, MD, DSc, London, United Kingdom

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- 10:30 Personalizing Financial Incentives for Smoking Cessation**
S.D. Halpern, MD, PhD, Philadelphia, PA
- 10:45 Modifying Impaired Immunity in the Alcoholic Lung Through PPAR-Gamma**
S.M. Yeligar, PhD, MS, Decatur, GA
- 11:00 Are ICU Teams Missing an Opportunity to Intervene in Alcohol Misuse?**
M. Afshar, MSCR, MD, Maywood, IL

CLINICAL
SCIENTIFIC SYMPOSIUM
CME Credits Available: 2
Nursing Contact Hours Available: 2.4
MOC Points Available: 2

B12 GLOBAL CARE FOR SLEEP DISORDERS: TOWARDS UNIVERSAL ACCESS

Assemblies on Behavioral Science and Health Services Research; Clinical Problems; Nursing; Pediatrics; Sleep and Respiratory Neurobiology; International Health Committee

9:15 a.m. - 11:15 a.m. SAN DIEGO CONVENTION CENTER
Room 7 A-B (Upper Level)

Target Audience

Physicians, health services and outcomes researchers, registered nurses, advanced practice nurses, quality and comparative effectiveness researchers, pediatric and adult residents and trainees

Objectives

At the conclusion of this session, the participant will be able to:

- discuss the global burden of sleep problems, sleep apnea and the current gap in healthservices;
- compare the innovative models of care that rely on technology to improve access, efficiency and quality of care;
- apply lessons from diverse health systems around the world to develop, test and implement novel models of care that aim to provide quality accessible care for all.

To discuss diverse models of care for Sleep Apnea (SA) and other sleep disorders across different geographical /socioeconomic regions, throughout the world, and how we can extend the reach of sleep health service provision to under-resourced areas. Innovative models of care from diverse countries and health systems will be discussed with a focus on quality and cost-effectiveness tools employed in each unique setting.

Chairing: M. Teodorescu, MD, MS, Madison, WI
A.S. Buist, MD, Portland, OR
C. Chai-Coetzer, MBBS, PhD, Adelaide, Australia
B. Prasad, MD, Chicago, IL

9:15 Introduction: Burden of Sleep Disorders Around the World
A. Malhotra, MD, La Jolla, CA

9:33 Primary Care Physician and Specialist Nurse Led Models of Care for OSA: Data from Down Under
C. Chai-Coetzer, MBBS, PhD, Adelaide, Australia

- 9:51 In-Laboratory Versus Ambulatory Management of SA: Can We Do More for Less?**
N. Ayas, MPH, MD, Vancouver, Canada
- 10:09 Telemedicine and Wearable Technologies to Enhance the Reach of Sleep Services**
A.V. Shelgikar, MD, Ann Arbor, MI
- 10:27 Models of Care for SA From Around the World: Lessons From Diverse Economies. Part I: Germany**
G. Nilius, MD, Hagen, Germany
- 10:35 Models of Care for SA From Around the World: Lessons From Diverse Economies. Part II: Spain.**
M. Sanchez De La Torre, PhD, Lleida, Spain
- 10:43 Models of Care for SA From Around the World: Lessons From Diverse Economies. Part III: Turkey**
Y. Peker, MD, PhD, Istanbul, Turkey
- 10:51 Models of Care for SA From Around the World: Lessons From Diverse Economies. Part IV: Romania**
O.C. Deleanu, MD, Bucharest, Romania
- 10:59 Models of Care for SA From Around the World: Lessons From Diverse Economies. Part V: Brazil**
G.A. Moreira, MD, Sao Paulo, Brazil
- 11:07 Models of Care for SA From Around the World: Lessons From Diverse Economies. Part VI: India**
S. Sinha, MD, New Delhi, India

BEHAVIORAL
ATS PRESIDENT'S SYMPOSIUM
CME Credits Available: 2

B13 METACOGNITION IN MEDICINE: UNDERSTANDING HOW THE MIND WORKS TO IMPROVE TEACHING, LEARNING, AND PATIENT CARE

9:15 a.m. - 11:15 a.m. SAN DIEGO CONVENTION CENTER
Room 3 (Upper Level)

Target Audience

Physicians and nurses, respiratory therapists and pharmacists who provide patient or medical education and clinical care would benefit from this session. Medical trainees, including students, residents, and fellows would also value this session.

Objectives

At the conclusion of this session, the participant will be able to:

- describe core cognitive process in critical thinking and clinical decision making;
- discuss how to apply core concepts in thinking and decision making to effective, efficient, and evidence-based teaching strategies in a variety of clinical classroom settings;
- describe the patient's perspective in teaching and learning, and identify effective strategies for teaching patients and families with the goal of optimizing patient understanding and clinical outcomes.

MONDAY MORNING

Education is a core skill of an effective health care provider. From teaching patients and families about clinical issues, to training the next generation of physicians and other health care providers, effective and efficient educational skills are critical for all health care providers. This Symposium will review the foundational processes of how humans think and how to leverage those concepts for effective teaching in a variety of settings. Educating patients will be specifically emphasized, including considerations for teaching adherence and active participation in one's own medical care, with the goal of improving patient outcomes.

Chairing: R. Adamson, MBBS, Seattle, WA
G.W. Garrison, MD, Burlington, VT
J.B. Richards, MD, MA, Boston, MA

- 9:15 Introduction**
J.B. Richards, MD, MA, Boston, MA
- 9:20 Diagnostic Reasoning in Medicine: How Doctors Think**
G. Norman, MD, Hamilton, Canada
- 9:40 How to Make it Stick: Secrets From the Science of Learning**
W.G.G. Carlos, MD, MSCR, Indianapolis, IN
- 9:55 Thinking Critically About Critical Thinking: Teaching Better Thinking**
R.M. Schwartzstein, MD, Boston, MA
- 10:15 Interprofessional Education: Learning Together to Improve Outcomes**
P.A. Kritek, MD, Seattle, WA
- 10:35 Educating Patients and Families to Improve Outcomes**
F. Blackstock, PhD, Penrith, Australia
- 10:55 The Patient Perspective: What You Taught vs. What I Learned**
A.S. Clay, MD, Durham, NC
- 11:10 Summary**
R. Adamson, MBBS, Seattle, WA
G.W. Garrison, MD, Burlington, VT

LATE BREAKING MINI SYMPOSIUM

B14 LATE BREAKING CLINICAL TRIALS AND FIRST REPORTS IN ASTHMA AND COPD SAN DIEGO CONVENTION CENTER

9:15 a.m. - 11:15 a.m. **SAN DIEGO CONVENTION CENTER**
Room 33 A-C (Upper Level)

Chairing: D.D. Sin, MD, Vancouver, Canada
P.J. Dubin, MD, Memphis, TN
N. Lugogo, MD, Ann Arbor, MI

Oral Presentations

- 9:15 A Phase 2a Randomized, Double-Blind, Placebo-Controlled Trial of AZD8871, a Novel Dual-Acting Bronchodilator in COPD Patients/I. Psallidas, D. Singh, C. Astbury, L. Jimenez, U. Wahlby Hamren, B. Seoane, M.-P. Malice, V. Balaguer, A. Lei, A. Aggarwal, Gothenburg, Sweden, p.A7708**

- 9:30 Use of 'Low-Dose' Theophylline to Reduce Exacerbations of COPD: A Pragmatic Multicentre Randomised Placebo Controlled Trial/D.B. Price, S. Cotton, S. Fielding, N. McMeekin, P. Barnes, A. Briggs, G. Burns, R. Chaudhuri, H. Chrystyn, L. Davies, A. De Soyza, S. Gompertz, J. Haughney, A. Lee, A. Morice, J. Norrie, A. Sullivan, A. Wilson, G. Devereux, Aberdeen, United Kingdom, p.A7709**

- 9:45 Effectiveness of Acumapimod Oral P38 Inhibitor in the Treatment of Acute Severe Exacerbations of COPD: Results of the AETHER Phase II Trial/J.A. Wedzicha, A. MacKinnon, J.M. Parkin, London, United Kingdom, p.A7710**

- 10:00 Effects of Acclidinium Bromide on Major Adverse Cardiovascular Events and COPD Exacerbations in Patients with COPD and Cardiovascular Risk Factors/R.A. Wise, B.M. Scirica, D.A. Schoenfeld, S.Z. Daoud, J. Roman, C. Reisner, E. Garcia Gil, K.R. Chapman, Baltimore, MD, p.A7711**

- 10:15 Dupilumab in Patients with Corticosteroid-Dependent Severe Asthma: Efficacy and Safety Results from the Randomized, Double-Blind, Placebo-Controlled Phase 3 LIBERTY ASTHMA VENTURE Study/K.F. Rabe, P.K. Nair, G.G. Brusselle, J.F. Maspero, M. Castro, H. Zhu, H. Staudinger, G. Pirozzi, C. Antoni, N. Amin, M. Ruddy, B. Akinlade, A. Khan, J. Chao, N.M.H. Graham, A. Teper, Kiel, Germany, p.A7712**

- 10:30 Are Mexican Americans with Asthma Less Responsive to ICS Treatment? A Meta-Analysis of Three CARE Trials/J.K. Gerald, B. Hallmark, D. Billheimer, F.D. Martinez, L.B. Gerald, Tucson, AZ, p.A7713**

- 10:45 Effect of Tralokinumab Upon Eosinophilic Airway Inflammation in Participants with Moderate to Severe, Uncontrolled Asthma (MESOS)/R.J. Russell, J.M. Fitzgerald, V. Backer, M. Wang, M. Braddock, L.H. Nordenmark, D. Cohen, H. Parikh, G. Colice, C.E. Brightling, Leicester, United Kingdom, p.A7714**

- 11:00 Safety and Efficacy of Oral RV521 in a Human Respiratory Syncytial Virus (RSV) Phase 2a Challenge Study/J. DeVincenzo, D. Tait, O. Oluwayi, J. Mori, E. Thomas, N. Mathews, R. Harland, S. Cockerill, K. Powell, E. Littler, Memphis, TN, p.A7715**

MINI SYMPOSIUM

B15 IMMUNE PATHWAYS IN LUNG INJURY AND REPAIR

9:15 a.m. - 11:15 a.m. **MARRIOTT MARQUIS SAN DIEGO MARINA**
Pacific Ballroom 22 (North Tower, First Floor)

Chairing: M.M. Wurfel, MD, PhD, Seattle, WA
A. Rogers, MPH, MD, Stanford, CA

Oral Presentations

- 9:15 Platelets Shed Extracellular Vesicles to Promote IL-18 Dependent Lung Vaso-Occlusion in Sickle Cell Disease/P. Sundd, M. Jimenez, M. Bennewitz, T. Brzoska, M.T. Gladwin, Pittsburgh, PA, p.A2700**

- 9:30** **Neutrophil-Derived Exosomes Purified from COPD Patient Bronchoalveolar Fluid Cause a COPD Like Phenotype in a Mouse Model Via a Neutrophil Elastase Dependent Mechanism/D. Russell, K.R. Genschmer, T. Szul, B. Noerager, X. Xu, L. Viera, T. Abdalla, C.M. McNicholas, J.M. Wells, M.T. Dransfield, A. Gaggar, J.E. Blalock, Birmingham, AL, p.A2701**
- 9:45** **Macrophage Transient Receptor Potential Vanilloid 4 (TRPV4) Mediates the Host Defense Response to Bacterial Pneumonia in an Inflammasome-Independent Manner/R.G. Scheraga, S. Abraham, L. Grove, B.D. Southern, J.F. Crish, T. Hamilton, C. McDonald, M.A. Olman, Cleveland, OH, p.A2702**
- 10:00** **Extracorporeal Photophoresis Promotes Alveolar Macrophage Production of TGF-β Inhibitor and Prevents Airway Obliteration in a Mouse Lung Allograft Model/Z. Liu, F. Liao, Y. Furuya, J. Hsiao, M. Ibrahim, D. Kreisel, H.J. Huang, R.R. Hachem, A.E. Gelman, St. Louis, MO, p.A2703**
- 10:15** **IL-5 Signaling Protects Mice Against Mortality from Acute Lung Injury/C.L. Hrusch, K.A.M. Mills, P.A. Krishack, D.M. Decker, K.M. Blaine, A.I. Sperling, Chicago, IL, p.A2704**
- 10:30** **IL-22 Reduces Influenza Pneumonia by Promoting Thymic Integrity and T Regulatory Cell Maturation/N. McLaughlin, Metairie, LA, p.A2705**
- 10:45** **Aging Mesenchymal Stem Cells Have Diminished Effects in Modulating Macrophages and Producing Extracellular Vesicles/R. Huang, J. Wang, G. Zheng, G. Qiu, H. Tao, Y. Hu, M. Ge, Q. Shu, J. Xu, Hangzhou, China, p.A2706**
- 11:00** **Genomic Assessment Reveals Marked Differences in the Inflammatory Response of Lung Mononuclear Phagocytes/E. Sajji, O. Zhengyu, N. Spann, L. Prince, C. Glass, San Diego, CA, p.A2707**

MINI SYMPOSIUM

B16 STATE OF THE ART INTERVENTIONS FOR ASTHMA SELF-MANAGEMENT ACROSS THE AGE SPECTRUM: RESULTS FROM CLINICAL TRIALS

9:15 a.m. - 11:15 a.m. SAN DIEGO CONVENTION CENTER
Room 6 A (Upper Level)

Chairing: K. Riekert, PhD, Baltimore, MD
 I. Riley, MD, MPH, Durham, NC
 A.J. Apter, MA, MD, MSc, Philadelphia, PA

Oral Presentations

- 9:15** **Effectiveness of A Multi-Level Intervention to Improve Asthma Control Among Head Start Preschool Children/M. Eakin, T. Eckmann, E. Ruvalcaba, C.S. Rand, K.A. Riekert, Baltimore, MD, p.A2708**
- 9:30** **School Nurse-Centered Asthma Program Reduces School Absenteeism/T. Simoneau, C.R. Langton, C.-L. Kuo, M.M. Cloutier, J.P. Hollenbach, Hartford, CT, p.A2709**
- 9:45** **Controller Medication Prescribing and Adherence Among Medicaid Insured Children Enrolled in the Supervised Asthma Medicine in Schools Study/J.K. Gerald, J. Fisher, D. Billheimer, M.A. Brown, C.J. Clemens, M.A. Moore, L.B. Gerald, Tucson, AZ, p.A2710**

- 10:00** **Reaching Under Served and Resourced Rural Children and Youth with Asthma Through School Based Programs/L.C. Cicutto, M. McCullough, K. Crews, Denver, CO, p.A2711**
- 10:15** **The Preliminary Impact of a Web-Based Intervention for Adolescents with Uncontrolled Asthma: Results from a Randomized Pilot Trial/J.-M. Bruzzese, M.R. George, J. Liu, M.C. Whatley, J.M. Thomas, D. Evans, New York, NY, p.A2712**
- 10:30** **Using IT to Improve Access, Communication, and Asthma Outcomes in African American and Puerto Rican Adults/A.J. Apter, T. Bryant-Stephens, K.H. Morales, X. Han, L. Perez, J.T. Howell, A. Nardi, M. Canales, N. Lampkin, M. Rogers, H. Klusaritz, A.R. Localio, Philadelphia, PA, p.A2713**
- 10:45** **A Comprehensive Self-Management Support Program Improves Asthma Control and Quality of Life Among Older Adults: Results of a Randomized Controlled Trial/A. Federman, R. O’Conor, I. Mindlis, D. Hauser, J. Hoy-Rosas, R. Lopez, J. Lurio, M.S. Wolf, J.P. Wisnivesky, New York, NY, p.A2714**
- 11:00** **Home-Based Exercise Intervention Versus Remote Asthma Care Guidance Via Telephone/Text Message in Obese Asthmatics: A Pilot Randomized Controlled Trial/A.A. Lowe, D.O. Garcia, D.A. Stern, L.B. Gerald, C. Bime, Tucson, AZ, p.A2715**

MINI SYMPOSIUM

B17 CRITICAL CARE: BURDEN OF SURVIVAL - OUTCOMES AFTER CRITICAL ILLNESS IN ADULTS AND CHILDREN

9:15 a.m. - 11:15 a.m. SAN DIEGO CONVENTION CENTER
Room 29 A-D (Upper Level)

Chairing: A.A. Hope, MD, Bronx, NY
 I.M. Cheifetz, MD, Durham, NC
 S. Beesley, MD, Salt Lake City, UT

Oral Presentations

- 9:15** **Paths into Sepsis: Trajectories of Pre-Sepsis Healthcare Use/H.C. Prescott, A. Carmichael, K.M. Langa, R. Gonzalez, T.J. Iwashyna, Ann Arbor, MI, p.A2716**
- 9:30** **Functional Recovery After Mechanical Ventilation in Children/A.B. Maddux, K. Ziegler, Y. Sierra, M. Wilkes, K.J. Ralston, M. Sontag, P.M. Mourani, Aurora, CO, p.A2717**
- 9:45** **Incidence, Risk Factors, and Outcomes of Acute Respiratory Distress Syndrome Among Critically Injured Children/E. Killien, B. Mills, R.S. Watson, M.S. Vavilala, F.P. Rivara, Seattle, WA, p.A2718**
- 10:00** **Thirty-Day Readmissions and Mortality Following Hospitalization with Mechanical Ventilation/I. Konstantinidis, R. Ferrandino, A. Saha, P. Poojary, K. Chauhan, K.S. Mathews, G. Nadkarni, New York, NY, p.A2719**
- 10:15** **The Relative Burden of Disability After an ICU Versus Non-ICU Hospitalization Among Older Adults: A Matched Cohort Study/L.E. Ferrante, M.A. Pisani, T.E. Murphy, L.S. Leo-Summers, E.A. Gahbauer, T.M. Gill, New Haven, CT, p.A2720**

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- 10:30** **The AMPAC Physical Therapy Assessment at Hospital Discharge Predicts Death and Recovery in Older Survivors of Acute Respiratory Failure**/S. Norris, W.C. Gonzalez, J.S. Pfeffer, M.R. Baldwin, New York, NY, p.A2721
- 10:45** **Validation of a New Diagnostic Tool for Post-Intensive Care Syndrome**/S. Wang, D. Allen, A. Perkins, P. Monahan, S.H. Khan, S. Lasiter, M. Boustani, B.A. Khan, Indianapolis, IN, p.A2722
- 11:00** **Impact of Frailty and Duration of Mechanical Ventilation on Post-Intensive Care Unit Functional Status of Cardiac Critically Ill Patients**/L. Amado-Rodríguez, I. López-Alonso, C. Huidobro, J. Blázquez-Prieto, C. del Busto, L. Iglesias, D. Parra-Ruiz, M.A. Alonso-Cuervo, G.M. Albaiceta, Oviedo, Spain, p.A2723

MINI SYMPOSIUM

B18 PATIENT AND FAMILY ENGAGEMENT IN RESPIRATORY AND CRITICAL CARE

9:15 a.m. - 11:15 a.m. SAN DIEGO CONVENTION CENTER

Room 30 A-B (Upper Level)

Chairing: J. Yorke, BN, PhD, Manchester, United Kingdom
J.B. Seaman, PhD, RN, Pittsburgh, PA

Oral Presentations

- 9:15** **Effect of Music on Six-Minute Walking Distance in Patients with COPD**/A.K. Hernandez, S. O'Connell, C. Jelinek, J. Butler, F. Laghi, E.G. Collins, Chicago, IL, p.A2724
- 9:30** **Individualized Sleep Promotion for Hospitalized Patients: Identification and Mitigating Factors that Disturb Sleep**/L. Ye, R.L. Owens, P. Dykes, Boston, MA, p.A2725
- 9:45** **Developing a Brief Tailored Shared Decision-Making Intervention for African American Adults with Asthma: Results of a Qualitative Study to Identify Desired Intervention Features**/M.R. George, A. Chung, J.-M. Bruzzese, New York, NY, p.A2726
- 10:00** **Intense Interventions for Treating Tobacco Use and Dependence**/P.A. Folan, C. Fardellone, A. Spatarella, R. Abramova, N. Kohn, Great Neck, NY, p.A2727
- 10:15** **Real-World Implementation of a Physical Activity Coaching Program**/F. Mahmud, F. Valmonte, E.J. Medina, D. Pounds, H.Q. Nguyen, Pasadena, CA, p.A2728
- 10:30** **Acceptability and Feasibility of an Electronic Tablet-Delivered Music Intervention in the Medical Intensive Care Unit**/K. Knudson, N.S. Redeker, A. Heiderscheid, M.A. Pisani, M.P. Knauert, L.L. Chlan, Orange, CT, p.A2730
- 10:45** **Survey of Barriers, Facilitators, and Care Practices Related to the Conduct of Interdisciplinary Family Meetings in the ICU**/J.B. Seaman, R.M. Arnold, P. Buddadhumaruk, C.J. Pidroc, T.R. Cohen, J. Yang, M. Pyankov, A.-M. Shields, A. Argenas, D.B. White, Pittsburgh, PA, p.A7716

MINI SYMPOSIUM

B19 SURF'S UP: RIDING THE WAVE OF CLINICAL RESEARCH IN PULMONARY HYPERTENSION

9:15 a.m. - 11:15 a.m. MARRIOTT MARQUIS SAN DIEGO MARINA

Pacific Ballroom 18-19 (North Tower, First Floor)

Chairing: M. Humbert, MD, PhD, Bicetre, France
E.S. Klings, MD, Boston, MA
R.F. Machado, MD, Indianapolis, IN

Oral Presentations

- 9:15** **Low-Grade Albuminuria is Linked to Inflammation and is Associated with Poor Outcome in Pulmonary Arterial Hypertension**/N. Nickel, E.D. Austin, V. De Jesus Perez, R.T. Zamanian, J.D. West, M. de Caestecker, H. Yang, Stanford, CA, p.A2731
- 9:30** **Novel Causative Genes for Heritable Pulmonary Arterial Hypertension**/S. Graf, M. Haimel, M. Bleda, C. Hadinnapola, N.W. Morrell, Cambridge, United Kingdom, p.A2732
- 9:45** **Hospital Readmission Rate and Associated Survival for Patients with Pulmonary Arterial Hypertension at a Tertiary Academic Medical Center**/C. Kholdani, J. Lee, H. Hedlin, A. Hsi, A. Sweatt, K. Kudelko, Y.K. Sung, V. De Jesus Perez, E.F. Spiekerkoetter, J.C. Liu, R.T. Zamanian, Stanford, CA, p.A2733
- 10:00** **2015 ERS/ESC Pulmonary Arterial Hypertension Risk Assessment Model is also Applicable for Patients with Chronic Thromboembolic Pulmonary Hypertension**/M. Delcroix, G. Staehler, H.A. Ghofrani, E. Gruenig, M. Held, M. Halank, H. Klose, A. Vonk Noordegraaf, S. Rosenkranz, D. Huscher, D. Pittrow, M. Hoeper, Leuven, Belgium, p.A2734
- 10:15** **Changes in Vascular Morphology After Pulmonary Endarterectomy (PEA) and Balloon Pulmonary Angioplasty (BPA) Assessed by Computed Tomography Pulmonary Angiography (CTPA)**/N.J. Braams, D. Ruigrok, R.J. Lely, N. van Royen, M.A. van Leeuwen, E.J. Nossent, A. Vonk Noordegraaf, H.J. Bogaard, P. Symersky, L.J. Meijboom, Amsterdam, Netherlands, p.A2735
- 10:30** **Right Ventricular Dysfunction in Pulmonary Hypertension Due to Chronic Lung Disease: Male Gender is Associated with RV-PA Uncoupling**/L. Rose, K.W. Prins, S.L. Archer, M. Pritzker, E.K. Weir, T. Thenappan, Minneapolis, MN, p.A2736
- 10:45** **Cardiac Sympathetic Dysfunction in Pulmonary Arterial Hypertension: Lesson from Left Sided Heart Failure**/V. Mercurio, T. Pellegrino, P. Parrella, V. Piscopo, G. Campi, G. Bosso, C.G. Tocchetti, M. Petretta, P.M. Hassoun, A. Cuocolo, D. Bonaduce, Baltimore, MD, p.A2737
- 11:00** **Short-Term Cardiovascular Effects of Low Dose Carvedilol in Pulmonary Hypertension**/S.Y. Farha, H.I. Cheong, M.M. Park, D. Saygin, S.A.A. Comhair, J.K. Sharp, K.B. Highland, W.H.W. Tang, S.C. Erzurum, Cleveland, OH, p.A2738

MINI SYMPOSIUM

B20 ASTHMA: NEW FINDINGS IN AIRWAY SMOOTH MUSCLE PATHOPHYSIOLOGY AND POTENTIAL THERAPY

9:15 a.m. - 11:15 a.m. SAN DIEGO CONVENTION CENTER
Room 15 A-B (Mezzanine Level)

Chairing: Y. Bosse, PhD, Québec, Canada
J.E. Bourke, PhD, Clayton, Australia
J.H. Bates, PhD, DSc, Burlington, VT

Oral Presentations

- 9:15 Intrapulmonary Human Airway Smooth Muscle Tissues Are Hyperreactive and Hyposensitive in Asthma/G. Ijpma, L. Kachmar, A.L. Panariti, O.S. Matusovsky, A.-M. Lauzon, Montreal, Canada, p.A2739**
- 9:30 Distensibility of Human Small Airways Is Reduced by Intrinsic Smooth Muscle Tone/F. Sanai, A. Cairncross, J.G. Elliot, P.B. Noble, A.L. James, G.G. King, B.E. McParland, Sydney, Australia, p.A2740**
- 9:45 Protein Kinase C, L-Type Voltage-Gated Calcium Channels and Non-Muscle Myosin II Are Involved in 'Force Adaptation'/M. Gazzola, A. Lee-Gosselin, L. Auger, K. Lortie, Y. Bosse, Quebec, Canada, p.A2741**
- 10:00 Unique Mechanisms of Connective Tissue Growth Factor Regulation in Airway Smooth Muscle in Asthma: Relationship with Airway Remodelling/J.K. Burgess, J. Wang, A. Faiz, Q. Ge, C.J. Vermeulen, K. Snibson, B.G.G. Oliver, W. Timens, N.H.T. Hacken, M. Van Den Berge, A.L. James, J. Elliot, L. Dong, A.W. Ashton, Groningen, Netherlands, p.A2742**
- 10:15 Rho Kinase (ROCK) Regulates Airway Smooth Muscle Contraction by Activating the Pak-GIT1-BPIX Complex to Catalyze Actin Dynamics/W. Zhang, B.P. Bhetwal, S.J. Gunst, Indianapolis, IN, p.A2743**
- 10:30 Targeting Cholecystokinin (CCK) and Its Receptor CCKAR in the Airway Smooth Muscle for New Asthma Therapy/R.A.M. Panganiban, M. Sun, C.-Y. Park, D.I. Kasahara, B.E. Himes, E. Israel, S.T. Weiss, J.J. Fredberg, K.G. Tantisira, S.A. Shore, Q. Lu, Boston, MA, p.A2744**
- 10:45 Image-Guided Bronchoscopy of Regional Ventilation Heterogeneity in Asthma as a Means of Assessing Localized Inflammatory Response: Preliminary Results/D. Mummy, S. Kehoe, S.W. Aesif, R.L. Sorkness, N.N. Jarjour, M. Schiebler, M. Evans, L.C. Denlinger, S.B. Fain, Madison, WI, p.A2745**
- 11:00 Improvements in Functional Image Impedance Modelling of Asthmatic Lungs Using K-Means Clustering/C. Church, H. Young, G. Parraga, G.N. Maksym, Halifax, Canada, p.A2746**

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

B21 EXACERBATIONS AND READMISSION ISSUES IN COPD

9:15 a.m. - 11:15 a.m. SAN DIEGO CONVENTION CENTER
Room 30 C-E (Upper Level)

Abstract Summaries 9:15-9:45
Viewing/Discussion 9:45-11:15

Chairing: M.T. Dransfield, MD, Birmingham, AL
J.A. Ohar, MD, Winston Salem, NC

- 601 Blood Biomarker Algorithms as an Aide to Describe Exacerbations Activity in Symptomatic Smokers and Early Staged COPD Patients/B. Masters, M.K. Han, F.J. Martinez, P. Woodruff, G.J. Criner, S.P. Peters, N.N. Hansel, A.P. Comellas, J.L. Curtis, R. Paine, W.K. O'Neal, J.E. Herrera, M. Miller, K. Copeland, Billerica, MA, p.A2747**
- 602 Forest Algorithms Based Upon Blood Biomarkers as an Aide in Phenotyping the COPD Frequent Severe Exacerbator/B. Masters, M.A. Campos, G. Urdaneta, I.A. Vital, K.C. Balestrini, M. Miller, J.E. Herrera, D. Haney, Billerica, MA, p.A2748**
- 603 Phenotyping COPD Exacerbations Using Molecular Pathogen Detection Methods/N.M. Alotaibi, V. Chen, Z. Hollander, C. Hague, J. Leipsic, D. Murphy, M. Demarco, M. Fitzgerald, B. McManus, R. Ng, D.D. Sin, Vancouver, Canada, p.A2749**
- 604 Allergen Sensitization and Exposure Is Associated with Exacerbations in COPD/N. Putcha, A. Fawzy, E. Matsui, R.P. Bowler, P. Woodruff, W.K. O'Neal, A.P. Comellas, M.K. Han, M.T. Dransfield, N. Lugogo, E.A. Hoffman, C.B. Cooper, C.P. Hersh, L.M. Paulin, M.B. Drummond, R.A. Wise, G.B. Diette, N.N. Hansel, Baltimore, MD, p.A2750**
- 605 Effects of BMI on COPD Exacerbation and Daily Symptoms/J.Y. So, K. Rybicki, A.J. Criner, G.J. Criner, Philadelphia, PA, p.A2751**
- 606 Effect of Ambient Air Quality on Exacerbation of COPD in Patients and Its Potential Mechanism/Y. Peng, X. Kun, X. Lixin, Beijing, China, p.A2752**
- 607 Impact of Prior and Concurrent Medication on Exacerbation Risk with Long-Acting Bronchodilators in Chronic Obstructive Pulmonary Disease: A Post Hoc Analysis/I. Naya, D.A. Lipson, I. Boucot, L. Gakava, C. Compton, Uxbridge, United Kingdom, p.A2753**
- 608 The Relationship Between Oral Health and COPD Exacerbations/A.K. Baldomero, A. Petersen, J. Connett, K.M. Kunisaki, C.H. Wendt, Minneapolis, MN, p.A2754**
- 609 Risk Factors for Exacerbations and Pneumonia in Patients with Chronic Obstructive Pulmonary Disease (COPD)/N. Barnes, S. Lettis, C. Compton, A. Papi, P. Jones, B. Hartley, Brentford, United Kingdom, p.A2755**
- 610 Dyspnea Sensory, Affective Distress, and Impact Domains Predict COPD Exacerbations/A. Norweg, A. Steffen, S. Grady, M. Moy, E. Garshick, New York, NY, p.A2756**

- 611 **Respiratory Symptoms and Health Status in Patients with Chronic Obstructive Pulmonary Disease (COPD): Results from the Acute Exacerbation and Respiratory InfectionS (AERIS) Study**/R. Sung, S.D. Collier, J.-M. Devaster, N.K. Leidy, K. Ostridge, K.J. Staples, N. Locantore, T. Wilkinson, R. Tal-Singer, B. Miller, King of Prussia, PA, p.A2757
- 612 **Assessment of Respiratory Outcomes in Exacerbating COPD Patients from Italy: The MISTRAL Study**/P. Schino, C. Franco, B. Canino, P. Maestrelli, P. Candoli, M. Bartezaghi, P. Morini, P.A. Porpiglia, Acquaviva delle Fonti, Italy, p.A2758
- 613 **Features of the Common Cold that Would Lead to an Exacerbation of Chronic Obstructive Pulmonary Disease**/H. Xu, L. Finney, J. Wedzicha, G. Donaldson, London, United Kingdom, p.A2759
- 614 **A Study of Infective Etiology in Patients with Acute Exacerbation of COPD**/A. Mangla, A.D. Shah, S. Francis, K. Shah, Vadodara, India, p.A2760
- 615 **Associations Between STOP-Bang Scores and COPD Exacerbations**/K. Ma, K. Patel, J. Gordon, D.A. Shade, T.J. Cheema, A. Singh, Pittsburgh, PA, p.A2761
- 616 **Novel COPD Risk Groups and COPD Exacerbation Risk**/D.P. Blagev, D.S. Collingridge, S. Rea, S. Zeng, M. Arjomandi, Murray, UT, p.A2762
- 617 **Outcomes Following Hypercarbic Versus Non-Hypercarbic Respiratory Failure During Acute Exacerbation of COPD**/A. Chen, P.F. Simonelli, B.M. Walsh, Danville, PA, p.A2763
- 618 **Compliance with Appropriate Treatment on Discharge in Patients with COPD Exacerbation: A Retrospective Quality Improvement Project**/A. Karki, C.A. Thurm, J. Morante, A. Karki, N. Sawaged, A. Khan, Gainesville, FL, p.A2764
- 619 **Transitional Care Management for COPD: The University of Michigan Experience**/J. Taylor, C. Martinez, M. Sjoding, W.W. Labaki, A. Kurili, M.K. Han, C.A. Meldrum, Ann Arbor, MI, p.A2765
- 620 **Efficacy of a Home Discharge Care Bundle After Acute Exacerbation of Chronic Obstructive Pulmonary Disease**/S. Cousse, M. Salaun, L. Thiberville, A. Cuvelier, M. Patout, Rouen, France, p.A2766
- 621 **A Simple Test to Predict Re-Hospitalisation After an Exacerbation of Chronic Obstructive Pulmonary Disease**/B. Cushen, G. Greene, L. Tompkins, E. Mac Hale, C. Carpenter, P. Mac Hale, M.C. Mokoka, F. Boland, R.W. Costello, Dublin, Ireland, p.A2767
- 622 **Acute Exacerbation of Chronic Obstructive Pulmonary Disease: Factors Influencing Length of Hospital Stay in a Community Hospital**/O. Abdulfattah, S. Dahal, Z. Alnafoosi, A. Lixon, P.B. Datar, B. Bhattarai, E.U. Rahman, O. Alhafidh, D. Enriquez, M.F. Schmidt, Brooklyn, NY, p.A2768
- 623 **Optimization of COPD Management Among Inpatients with Acute Exacerbations of COPD**/I. Wirth, E.D. Penz, D.D. Marciniuk, Saskatoon, Canada, p.A2769
- 624 **Concordance Between Health Care Utilization and Symptom-Defined Exacerbations in Patients with COPD: Results from the Acute Exacerbation and Respiratory InfectionS (AERIS) Study**/R. Sung, S. Collier, J.-M. Devaster, N.K. Leidy, K. Ostridge, K.J. Staples, N. Locantore, T. Wilkinson, R. Tal-Singer, B.E. Miller, King of Prussia, PA, p.A2770

- 625 **Gender Differences in Veterans Admitted to the Hospital for COPD Exacerbation**/B. Bade, E. DeRycke, M. Skanderson, K.A. Crothers, L. Bastian, K.M. Akgun, New Haven, CT, p.A2771

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

B22 CRITICAL CARE: MICROBIOME, GENETICS, AND OTHER BIOMARKERS IN ACUTE CRITICAL ILLNESS

9:15 a.m. - 11:15 a.m.

SAN DIEGO CONVENTION CENTER

Room 31 A-C (Upper Level)

- Abstract Summaries** 9:15-9:45
- Viewing/Discussion** 9:45-11:15
- Chairing:** C.C. Dos Santos, MD, Toronto, Canada
C.S. Calfee, MD, San Francisco, CA
B. Singer, MD, PhD, Ann Arbor, MI
- 701 **Oxygen-Induced Lung Injury Is Mediated by the Lung Microbiome**/S.L. Ashley, N.R. Falkowski, M.W. Sjoding, M. Dieterle, G.B. Huffnagle, R.P. Dickson, Ann Arbor, MI, p.A2772
- 702 **Altered Cellular Metabolism Links the Respiratory Microbiome to Mortality in Critically Ill Patients**/D. Jones, C. Molnar, Z. Ma, K. Nakahira, I.I. Siempos, L. Schultz, J. Broach, A.M.K. Choi, J.A. Howrylak, New York, NY, p.A2773
- 703 **Extrapulmonary Expression of Surfactant Protein D and Modulation of the Gut Microbiome**/A. Arciniegas, J.A. Englert, R.M. Baron, Boston, MA, p.A2774
- 704 **The Gut Microbiota Promotes Intravascular Immunity Against Bacterial Dissemination During Sepsis**/B. McDonald, C. Jenne, Calgary, Canada, p.A2775
- 705 **Transient Receptor Potential Vanilloid 4 (TRPV4) Channels as Trigger Mechanisms of Ventilator Induced Brain Injury (VIBI)**/A. Gonzalez-Lopez, P. Pickerodt, I. Lopez-Alonso, C. von Haefen, M.A. Prado, H.M. Reimann, G. Albaiceta, R. Francis, C. Spies, Berlin, Germany, p.A2776
- 706 **Gut Microbiome Dysbiosis and Delirium in Mechanically Ventilated Adult Patients: A Prospective Cohort Study**/G. Kitsios, K. Fair, M. Xie, F. Shah, A. Fitch, S. Rapport, J. Huwe, S. Alexander, A. Morris, T.D. Girard, B.J. McVerry, Pittsburgh, PA, p.A2777
- 707 **Heparan Sulfate Fragments Released During Sepsis Initiate Persistent Neurocognitive Dysfunction Through Sequestration of Hippocampal Brain-Derived Neurotrophic Factor**/J.A. Hippensteel, J.E. Orfila, J.A. Ford, G. Su, F. Zhang, X. Liu, X. Han, J. Liu, R.J. Linhardt, P. Herson, E.P. Schmidt, Aurora, CO, p.A2778
- 708 **Neuroinflammation in Survivors of Murine Pneumosepsis**/B. Singer, S.J. Denstaedt, A. Zhao, M. Newstead, T.J. Standiford, Ann Arbor, MI, p.A2779
- 709 **Glial Fibrillary Acidic Protein (GFAP) Is an Early Marker of Cognitive Impairment in Sepsis Survivors**/B.J. Anderson, J.P. Reilly, C.A.G. Ittner, E. Johansson, T.G. Dunn, M. McCarthy, J. Wilson, H. Drebin, T.K. Jones, M.G.S. Shashaty, D.L. Kolson, N. Meyer, J.D. Christie, Philadelphia, PA, p.A2780

- 710 **Circulating Concentrations of N-Sulfated Heparan Sulfate Fragments Associate with Cognitive Impairment in Sepsis Survivors**/B.J. Anderson, J.A. Hippensteel, J.P. Reilly, M.G.S. Shashaty, C.A.G. Ittner, T. Dunn, F. Zhang, R. Linhardt, J.D. Christie, N. Meyer, P. Herson, E.P. Schmidt, Philadelphia, PA, p.A2781
- 711 **Utilizing Bioengineered Microvessels to Study Von Willebrand Factor Interactions in Thrombotic Microangiopathies**/S.G. Rayner, C. Gunnarsson, J. Chen, D. Chung, J. López, Y. Zheng, Seattle, WA, p.A2782
- 712 **Long-Term Priming of Innate Immune Responses in Survivors of Murine Sepsis**/S.J. Denstaedt, M.W. Newstead, X. Zeng, A. Zhao, T.J. Standiford, B.H. Singer, Ann Arbor, MI, p.A2783
- 713 **The ACT (Age, Cirrhosis and sTNFR-1) Model Predicts a Doubling of Serum Creatinine 72 Hours After ICU Admission in Two Independent Critically Ill Cohorts**/P. Bhatraju, L.R. Zelnick, C. Mikacenic, S. Harju-Baker, W.O. Hahn, V. Dmyterko, R. Katz, B. Kestenbaum, D.C. Christiani, J. Himmelfarb, C.W. Liles, M.M. Wurfel, Seattle, WA, p.A2784
- 714 **Plasma sTNFR1 and IL-8 as Prognostic Enrichment Factors for Sepsis Trials**/B.J. Anderson, J.P. Reilly, T.K. Jones, C.A.G. Ittner, T. Dunn, J. Abbott, K.D. Liu, K.N. Kangelaris, A. Jauregui, T.J. Deiss, K. Vessel, A. Belzar, H. Zhuo, A.L. Lazaar, A.I. Bayliffe, R. Gallop, M.G.S. Shashaty, M.A. Matthay, J.D. Christie, C.S. Calfee, N. Meyer, Philadelphia, PA, p.A2785
- 715 **Prognostic Implication of Sequential C-Reactive Protein Measurement in Critically Ill Patients with Pneumonia**/C.-M. Chen, S.-F. Huang, C.-Y. Kuo, Y.-C. Tsai, J.-R. Tsai, M.-J. Tsai, W.-A. Chang, C.-C. Sheu, Kaohsiung, Taiwan, p.A2786
- 716 **Low-Level Enteral Dextrose Infusion Induces Increases in the Incretin Glucose-Dependent Insulinotropic Peptide and Maintains Euglycemia in a Murine Klebsiella Pneumoniae Model of Sepsis**/F. Shah, B. Chuan, B. Cooper, L. Guo, K.M. Robinson, G. Kitsios, M.S. Landau, J. Lee, B. Wice, C.P. O'Donnell, B.J. McVerry, Pittsburgh, PA, p.A2787
- 717 **Reduced Alternative Complement Activity Is Associated with Impaired Serum Control of Carbapenemase-Producing Klebsiella Pneumoniae in a Cohort of Critically Ill Patients**/W. Bain, T.F. Olonisakin, H.-H. Li, Z. Xiong, S.M. Nouraie, G. Kitsios, A.M. Morris, Y. Zhang, B.J. McVerry, Y. Doi, J. Lee, Pittsburgh, PA, p.A2788
- 718 **The SEP-SEQ Trial - Clinical Validation of the Karius Plasma Next-Generation Sequencing Test for Pathogen Detection in Sepsis**/S. Thair, R. Aquino, H. Seng, D. Hollman, D. Hong, T.A. Blauwkamp, M. Kertesz, C. Ho, R. Mann, J. Quinn, S. Yang, Stanford, CA, p.A2789
- 719 **Overexpression of IL-10 in Human Umbilical Cord Mesenchymal Stromal/Stem Cells Enhances Efficacy in Rodent E Coli Pneumonia**/M. Jerkic, S. Gagnon, L. Ormesher, S. Goyal, R. Rabani, G.F. Curley, J.G. Laffey, Toronto, Canada, p.A2790
- 720 **Proprotein Convertase Subtilisin/Kexin Type 9 Loss-of-Function Genotype Is Beneficial to Septic Shock Outcome While HMG-CoA Reductase Loss-of-Function Genotype Is Not**/H. Kong, J.H. Boyd, J.A. Russell, K.R. Walley, Vancouver, Canada, p.A2791

- 721 **Shedding of VE-Cadherin Is Associated with Hepatic and Renal Failure, but Not Circulatory Failure, in Patients with Severe Sepsis**/W.K. Yu, N. Wickersham, B. McNeil, L. Murphy, N.D. Putz, C.M. Shaver, J.A. Bastarache, L.B. Ware, Nashville, TN, p.A2792
- 722 **Utility of Group II Secretory Phospholipase A2 (sPLA2-IIA) as a Biomarker for Infection in Patients Admitted to the Intensive Care Unit**/B. Shaller, T. Asuni, M.B. Marmor, D. Zweitzig, J. Torres, K. Cichonski, D. Ryan, A. Rogers, Stanford, CA, p.A2793
- 723 **Missense Genetic Variants in SERPINA5 Associate with Sepsis-Associated Acute Kidney Injury**/H.E. Faust, J.P. Reilly, C.A.G. Ittner, R. Feng, B.J. Anderson, T.K. Jones, T. Dunn, E. Johansson, T. Riley, J.D. Christie, M.G.S. Shashaty, N. Meyer, Philadelphia, PA, p.A2794
- 724 **Neutrophil-to-Lymphocyte Ratio as a Prognostic Marker in Acute Respiratory Distress Syndrome Patients: A Retrospective Study**/Y. Wang, D. Zhang, Y. Song, Shanghai, China, p.A2795

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

B23 ENVIRONMENTAL EPIDEMIOLOGICAL INVESTIGATIONS IN ASTHMA

9:15 a.m. - 11:15 a.m. SAN DIEGO CONVENTION CENTER
Room 5 A-B (Upper Level)

Abstract Summaries 9:15-9:45
Viewing/Discussion 9:45-11:15

Chairing: S. London, MD, DrPH, Research Triangle Park, NC
A.A. Litonjua, MD, Rochester, NY
E. Brigham, MD, MHS, Baltimore, MD

- 101 **Healthy Diet as Primary and Secondary Prevention for Asthma**/R. Andrianasolo, E. Kesse-Guyot, M. Adjibade, S. Hercberg, P. Galan, R. Varraso, Bobigny, France, p.A2796
- 102 **Dietary Intake of Anthocyanin Flavonoids and Ten Year Lung Function Decline in Adults from the European Community Respiratory Health Survey (ECRHS)**/V. Garcia Larsen, R. Villegas, E.R. Omenaas, C. Svanes, J. Garcia-Aymerich, P.G.J. Burney, D. Jarvis, Batimore, MD, p.A2797
- 103 **The Relationship between Dietary Intake of Saturated Fatty Acids and Lung Function in the National Health and Nutrition Examination Surveys**/C. Hanson, K. Cornell, M. Alam, E. Lyden, L.G. Wood, Omaha, NE, p.A2798
- 104 **Obesity Trends Among Asthma Patients in the United States: A Population-based Study**/M. Lurbet, B. Rojano, S.-A.E. Whittaker, P.J. Busse, F. Holguin, A. Federman, J.P. Wisnivesky, Ciudad Autonoma de Buenos Aires, Argentina, p.A2799
- 105 **The Role of Environmental Exposures in Explaining the Difference in Prevalence Ratios for Asthma Between Hispanic Heritage Groups: Results from the Hispanic Community Health Study/Study of Latinos (HCHS/SOL)**/J.C. Fernandez Castillo, M. Afshar, R. Durazo Arvizu, D. Wu, D. Rastogi, S.M. Nyenhuis, V. Persky, K.M. Perreira, V. Persky, M. Camacho-Rivera, M.L. Daviglius, Maywood, IL, p.A2800

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- 106 The Canadian Healthy Infant Longitudinal Development (child Birth Cohort: Aeroallergens, Air Pollution and Risk of Atopy and Wheeze)/C. Sierra-Heredia, R. Allen, S.B. Henderson, F.A. Coates, J. Brubacher, H. Sbihi, M. Brauer, M.R. Sears, J. Brook, J. Scott, D. Lefebvre, P. Subbarao, A.B. Becker, P. Mandhane, S. Turvey, T.K. Takaro, Burnaby, Canada, p.A2801**
- 107 Advanced Data-driven Approaches To Identify Susceptibility Windows During Gestation For The Effects Of Ambient Air Pollution Upon Child Respiratory Outcomes./S. Bose, B.A. Coull, A. Wilson, Y.-H.M. Chiu, H.-H.L. Hsu, I. Kloog, Q. Di, A.G. Lee, M.J. Rosa, J. Schwartz, S. Cohen, W.J. Morgan, R.O. Wright, R.J. Wright, New York, NY, p.A2802**
- 108 The Air They Breathe; Where Children Are Exposed To Air Pollution/A. Whitehouse, J.M. Grigg, London, United Kingdom, p.A2803**
- 109 Personal Exposure to Multiple Air Pollutants and Asthma Severity in an Urban Pediatric Asthma Panel/A.M. Schiltz, K.L. Freeman, K.L. Hamlington, C.M. Dutmer, J.L. Crooks, S.-H.H. Cho, R.T. Chartier, J.W. Thornburg, L.C. Cicutto, N. Rabinovitch, I.V. Yang, S.J. Szeffler, T.E. Fingerlin, D.A. Schwartz, A.H. Liu, Aurora, CO, p.A2804**
- 110 Reducing Exposure Of Asthmatic Children To Black Carbon Particle Matter Air Pollution/L.C. Koh, S. Cunningham, J. Grigg, London, United Kingdom, p.A2805**
- 111 Residential Proximity to Traffic is Associated with Lifetime Rhinitis and Seasonal Allergy Symptoms among Urban Mexican American Children/K. Eldeirawi, C. Kunzweiler, V. Persky, Chicago, IL, p.A2806**
- 112 Air Pollution Influences Asthma Control in an Urban Adult Asthma Population/J. Jomi, U. Mehta, S. Melly, J.F. Most, Philadelphia, PA, p.A2807**
- 113 Periodicity of Drought and Asthma in the United States of America/G. Viegi, S. Bonomo, N. Pelosi, A. Provenzale, F. Lirer, S. La Grutta, Pisa, Italy, p.A2808**
- 114 Urinary Hydroxy-Metabolites of Polycyclic Aromatic Hydrocarbons and Allergic Sensitization in the National Health and Nutrition Examination Survey (NHANES) 2005-2006/F.J. Rosser, Y.-Y. Han, E. Forno, J.C. Celedon, Pittsburgh, PA, p.A2809**
- 115 Household Cleaning Product Use and Respiratory Health in Early Life: An Analysis from the Canadian Healthy Infant Longitudinal Development (CHILD) Study/T.K. Takaro, J.P. Parks, M.R. Sears, D. Lefebvre, L. McCandless, J.R. Brook, J. Scott, S.E. Turvey, P. Mandhane, A.B. Becker, P. Subbarao, A.L. Kozyrskyj, Burnaby, Canada, p.A2810**
- 116 Allergy Tests in Patients with Severe Asthma/H. Cao, B. Ortiz, E. Stanek, Q. Huang, L. Wang, D. Wertz, A. Kavati, East Hanover, NJ, p.A2811**
- 117 Gaps in Health Insurance Coverage And Emergency Department Use Among Children With Asthma/C.A. Gushue, R. Miller, S.I. Sheikh, E.D. Allen, J.D. Tobias, D. Hayes, Jr., D. Tumin, Columbus, OH, p.A2812**
- 118 Gene-Environment Interaction Between an IL4R Variant and School Endotoxin Exposure Contributes to Asthma Symptoms in Inner-City Children/P.S. Lai, A.H. Massoud, M. Xia, C.M. Petty, A. Cunningham, T.A. Chatila, W. Phipatanakul, Boston, MA, p.A2813**

- 119 The Heterogeneous Distribution of Ozone-Related Emergency Room Visits for Asthma Exacerbations in New England/N. Nassikas, K. Spangler, G. Wellenius, Providence, RI, p.A2814**

POSTER DISCUSSION SESSION

B24 AN UPDATE ON INDOOR AND OUTDOOR AIR POLLUTION

9:15 a.m. - 11:15 a.m.

SAN DIEGO CONVENTION CENTER

Room 28 C-E (Upper Level)

Poster Viewing 9:15-10:00
Discussion 10:00-11:15

Chairing: P.K. Henneberger, ScD, Morgantown, WV
K. Cromar, PhD, New York, NY
L.M. Paulin, MD, Baltimore, MD

- 501 Short-Term Sentinel Air Events in Relation to Health Care Utilization for Specific Health Conditions in Reno, Nevada/ C. Rowan, W.J. Metcalf, G. Elhanan, A.N. Joros, J.J. Grzymiski, Reno, NV, p.A2815**
- 502 Emergency Presentations and Hospital Admissions Following Exposure to Smoke from a Coal Mine Fire/M.J. Abramson, M. Dennekamp, L. Straney, C. Dimitriadis, C. Gao, Y. Guo, Melbourne, Australia, p.A2816**
- 503 Burden of Cardiopulmonary Diseases and Lung Cancer Due to PM2.5 Exposure in 11 Polish Agglomerations in 2006-2015/A. Badyda, P. Dabrowiecki, Warsaw, Poland, p.A2817**
- 504 Hospital and Primary Health Care Admissions Due to Respiratory Diseases in Warsaw (Poland) During the Smog Episode in January 2017 in Comparison to January 2016/ P. Dabrowiecki, P.O. Czechowski, T. Owczarek, A. Badyda, Warsaw, Poland, p.A2818**
- 505 Prenatal Fine Particulate Exposure Associated with Reduced Childhood Lung Function and Nasal Epithelia GSTP1 Hypermethylation: Sex-Specific Effects/A. Lee, B. LeGrand, H.-H. Hsu, Y.-H.M. Chiu, K. Brennan, S. Bose, M.J. Rosa, I. Kloog, A. Wilson, J. Schwartz, W.J. Morgan, B. Coull, R.O. Wright, A. Baccarelli, R.J. Wright, New York, NY, p.A2819**
- 506 Effects of PM2.5 on the Transcriptome and DNA Methylation Machinery of Human Bronchial Epithelial Cells/P. Tripathi, L. Koneva, F. Deng, Y. Chen, S.K. Huang, Ann Arbor, MI, p.A2820**
- 507 Particulate Matter Exposure Promotes a Profibrotic Phenotype in Pulmonary Fibroblasts/N. Craig, P. Tripathi, A. Scruggs, S.K. Huang, Ann Arbor, MI, p.A2821**
- 508 Antiinflammatory Effects of Exercise Training in Animals Exposed to Diesel Exhausted Particles/C. Olivo, T. Castro, A. Riane, T. Regonha, D. Riviero, L. Delesposte, R.D.P. Vieira, B. Saraiva-Romanholo, F. Lopes, M. Martins, C. Prado, Sao Paulo, Brazil, p.A2822**

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- 509 Ambient Pollution-Related Reprogramming of the Human Small Airway Epithelial Transcriptome/S.L. O'Beirne, S.A. Shenoy, J. Salit, R.J. Kaner, H. Hilton, H. Bitter, C. Stevenson, G. Wolff, S. Visvanathan, J.S. Fine, J.G. Mezey, R.G. Crystal, New York, NY, p.A2823**
- 510 The Small Molecule Antipsychotic Aripiprazole Potentiates Ozone-Induced Inflammation in Airway Epithelium/J. Hoffman, A.M. Speen, H.-Y. Kim, M.E. Rebuli, N.A. Porter, I. Jaspers, Chapel Hill, NC, p.A2824**
- 511 Ozone-Derived Oxysterols Form Adducts with NLRP2, Potentially Contributing to Inflammation in Airway Epithelial Cells/A. Speen, J. Hoffman, P.W. Clapp, H.-Y. Kim, N. Porter, I. Jaspers, Chapel Hill, NC, p.A2825**
- 512 Residential Proximity to Agricultural Use of Sulfur and Fumigants and Respiratory Health in 7-Year Old Children/R. Gunier, A. Bradman, K.G. Harley, J.R. Balmes, R. Ranaan, B. Eskenazi, Berkeley, CA, p.A2826**
- 513 Biomass Smoke-Associated Interstitial Lung Disease/M.L. McCutcheon, J. Gamache, K. Fogelfeld, A. Knapp-Wachsner, C. Jude, N. Kamangar, Los Angeles, CA, p.A2827**
- 514 Home Indoor Air Pollution Linked to Worsened Autonomic Function in Former Smokers with Chronic Obstructive Pulmonary Disease (COPD)/S. Raju, E. Brigham, K. Kirsten, C. Gummerson, C. Lemoine Soto, A. Fawzy, A. Balasubramanian, L.M. Paulin, N. Putcha, N.N. Hansel, M.C. McCormack, Baltimore, MD, p.A2828**
- 515 Reductions in Indoor Air Pollutants with Use of Portable Indoor Air Cleaners: Demonstration of Effectiveness in an Urban Environment/H.M. Kipen, Q. Meng, K. Black, R.J. Laumbach, S. Alimokhtari, Piscataway, NJ, p.A2829**
- 516 Consistent Use of a Household Air Pollution Clean Cookstove Intervention Is Associated with Better Lung Function in Adult Women/C. Oberg, S. Kaali, D. Jack, K. Asayah, S. Chillrud, M. Mujtaba, A. Quinn, E. Adeniji, P.L. Kinney, E. Boamah Kaali, K. Burkart, S. Gyaase, R. Delimini, J. Opoku-Manu, A. Lee, K. Poku Asante, New York, NY, p.A2830**
- 517 Effect of a Clean Cooking Fuel Intervention on Adult Olfactory Function in Ibadan, Nigeria/I. Pan, A. Dutta, T. Ibigbami, S. Adekunle, J. Olamijulo, D. Adepoju, B. Adedokun, G.O. Arinola, J. Pinto, C.O. Olopade, Chicago, IL, p.A2831**
- 518 Association Between Cookstove Replacement, Blood Pressure, and Cardiac Structure and Function: Results from the Kenya HAP Echo Study/G. Wellenius, K. Kirwa, A. Agarwal, R. Lumsden, F. Alenezi, E. Velazquez, D. Menya, S. Mitter, R. Vedanthan, G. Bloomfield, Providence, RI, p.A2832**
- 519 Diesel Exhaust Time-Dependently Modulates DNA Methylation in Peripheral Blood Mononuclear Cells from Exposed Volunteers: Results from a Controlled Human Crossover Study/C.F. Rider, L.M. McEwan, M.J. Jones, R.L. Clifford, M.S. Kobor, C. Carlsten, Vancouver, Canada, p.A7717**
- 520 Air Pollution, Mediterranean Diet, and Cause-Specific Mortality Risk in the NIH-AARP Diet and Health Study/C.C. Lim, R. Hayes, J. Ahn, Y. Shao, G.D. Thurston, New York, NY, p.A7718**

- 521 Associations Between Ambient Air Pollution Exposure, Lung Function and COPD: Results from the UK Biobank Cohort/A. Hansell, D. Doiron, N. Probst-Hensch, K. de Hoogh, London, United Kingdom, p.A7719**

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

B25 CHRONIC SUPPURATIVE LUNG DISEASE IN CHILDREN

9:15 a.m. - 11:15 a.m.

SAN DIEGO CONVENTION CENTER

Room 6 D (Upper Level)

Abstract Summaries 9:15-9:45

Viewing/Discussion 9:45-11:15

Chairing: M. Rosenfeld, MD, Seattle, WA
A.J. Shapiro, MD, Montreal, Canada
M.G. O'Connor, MD, Nashville, TN

- 201 Airway Resistance Estimated Using Computational Fluid Dynamics Is Increased in Infants with Cystic Fibrosis/E.M. DeBoer, J.S. Kimbell, M. Kroehl, T.W. Ferkol, J.E. Hatch, F. Ramanauskas, S.C. Ranganathan, S.D. Davis, Aurora, CO, p.A2833**
- 202 Exposure to Air Pollution Worsens Pseudomonas Infection in Cystic Fibrosis Mice/W.Y. Guo, S. Wang, X. Wang, J. Ye, M. Tilak, P. Duchesneau, T.K. Waddell, J.A. Scott, A.W.H. Chan, C.-W. Chow, Toronto, Canada, p.A2834**
- 203 Reduced Caveolin 1 Compromises Cystic Fibrosis Bronchial Epithelial Cell Barrier Function/C. Sendon, C. Barone, H. Oez, C. Di Pietro, P.-X. Zhang, R. Pierce, M.E. Egan, E.M. Bruscia, New Haven, CT, p.A2835**
- 204 Exposure to Bile Salts Modulates Pseudomonas Aeruginosa Growth, Association with Respiratory Epithelium, Biofilm Formation, and Response to Antibiotics/K.S. Gipson, B.B. Lanter, R.M. Hibbler, A.D. Eaton, H. Mou, E. Drenkard, C.S. Faherty, L.M. Yonker, B.P. Hurley, Boston, MA, p.A2836**
- 205 Multi-Omics Profiling of Lumacaftor/Ivacaftor Response in Cystic Fibrosis/B.T. Kopp, J.R. Fitch, S. Zhang, C.L. Shrestha, F.W. Woodley, D. Hayes, P. White, Columbus, OH, p.A2837**
- 206 Identification of an Uncommon CFTR Mutation that Responds to Correctors/C. Cotton, M. Rezaee, M. Wilson, A. Parsons, J. Chmiel, Cleveland, OH, p.A2838**
- 207 Effect of the Novel Inhaled Neutrophil Elastase Inhibitor CHF6333 on Neutrophil Elastase Activity in Cystic Fibrosis and Non-CF Bronchiectasis Airway Secretions/O.J. McElvaney, D. Miglietta, M.A. Calderazzo, F. Mariotti, E.P. Reeves, N.G. McElvaney, Dublin, Ireland, p.A2839**
- 208 Beta-Lactam Antibiotic Pharmacokinetics Are Associated with Differing Changes within the Cystic Fibrosis Airway Microbiome/A. Hahn, H. Fanous, H.R. Chaney, I.R. Sami-Zakhari, G. Perez, A.C. Koumbourlis, S. Louie, J.E. Bost, J.N. van den Anker, R.J. Freishtat, K.A. Crandall, Washington, DC, p.A2840**

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

B26 PEDIATRIC VIRAL AIRWAYS DISEASE: MECHANISMS AND CLINICAL IMPACT

9:15 a.m. - 11:15 a.m.

SAN DIEGO CONVENTION CENTER

Room 6 E (Upper Level)

- | | |
|---------------------------|-------------------|
| Abstract Summaries | 9:15-9:45 |
| Viewing/Discussion | 9:45-11:15 |
- Chairing:** M.B. Hershenson, MD, Ann Arbor, MI
C. Rosas-Salazar, MD, MPH, Brentwood, TN
T.J. Moraes, MD, Toronto, Canada
- 301 Non-Canonical Regulation of Beta2 Adrenergic Receptor in Response to RSV Infection in Human Primary Airway Smooth Muscle Cells/T.J. Harford, V. Bokun, M.K. Gupta, S.V. Naga Prasad, F. Rezaee, G. Piedimonte, Cleveland, OH, p.A2854**
- 302 Respiratory Syncytial Virus Infects Placental Cells and Villus Explants In Vitro/V. Bokun, T.J. Harford, F. Rezaee, F. Esper, B. Yen-Lieberman, J.J. Moore, G. Piedimonte, Cleveland, OH, p.A2855**
- 303 Glucocorticoid Receptor Dysfunction in Response to Respiratory Syncytial Virus Infection in Primary Human Airway Smooth Muscle Cells/T.J. Harford, V. Bokun, F. Rezaee, G. Piedimonte, Cleveland, OH, p.A2856**
- 304 Hyaluronan Dependent Leukocyte Adhesion Is Enhanced by Viral Infection, but Not by Aeroallergen Exposure in Human Lung Fibroblasts/S.R. Reeves, I. Kang, K.A. Barrow, M.P. White, T.N. Wight, J.S. Debley, Seattle, WA, p.A2857**
- 305 Predictors of Treatment Failure Among Infants with Acute Lower Respiratory Infection Due to Respiratory Syncytial Virus in Botswana/S. Patel, L. Spees, M. Smieja, K. Luinstra, D.M. Goldfarb, A.P. Steenhoff, C.K. Cunningham, T. Arscott-Mills, S.S. Shah, K.A. Feemster, M.S. Kelly, Durham, NC, p.A2858**
- 306 Endocytosis of Tight Junction Proteins Following RSV Infection Leads to Airway Epithelial Barrier Dysfunction/D. Linfield, A.I. Ivanov, G. Piedimonte, F. Rezaee, Cleveland, OH, p.A2859**
- 307 Alveolar-Like Macrophages Can Limit Respiratory Syncytial Virus Infection in Mice/T.J. Moraes, S. Cen, M.L. Litvack, M. Post, Toronto, Canada, p.A2860**
- 308 Redefining Bronchiolitis: Respiratory Phenotyping of Viral Lower Respiratory Tract Infections Identifies Subsets with Distinct Acute Severity and Recurrence of Respiratory Illnesses During Early Life/M.A. Arroyo Morra, K. Salka, G. Perez, J.H. Jackson, D.K. Pillai, C.E. Rodriguez-Martinez, G.R. Nino, Washington, DC, p.A2861**
- 309 Adaptive Immune Response in RSV and RV Infants Hospitalized for Bronchiolitis/A. Frassanito, R. Nenna, L. Petrarca, G. Di Mattia, A. Pierangeli, C. Scagnolari, I. Schiavoni, G. Fedele, F. Midulla, Rome, Italy, p.A2862**
- 310 Bronchiolitis Diagnosis Relies on Patient's Age/L. Petrarca, R. Nenna, A. Frassanito, A. Pierangeli, G. Di Mattia, C. Scagnolari, C. Bitossi, A. Viscido, C. Urbano, M. Di Martino, F. Midulla, Rome, Italy, p.A2863**

- 209 Azithromycin Attenuates Release of Bile Acid-Mediated Neutrophilic and Remodeling Factors in Bronchiectasis Airway Epithelial Cells/M.J. McDonnell, C. Ward, R.M. Rutherford, B. Verdon, J.P. Pearson, A. Aldahrani, J. Lordan, A. De Soyza, J.G. Laffey, D. O Toole, Galway, Ireland, p.A2841**
- 210 Does Improved Lung Health Change the Incidence of Cystic Fibrosis-Related Diabetes?/L. Perrem, S. Stanojevic, M. Solomon, E. Horton, S. Carpenter, F.A. Ratjen, Toronto, Canada, p.A2842**
- 211 Frequency of CFTR Mutations in Individuals Evaluated for Primary Ciliary Dyskinesia/W. Hannah, V. Gonzales, G. Kithcart, K. Nykamp, K. Ouyang, R. Truty, M. Zeman, N. Marozkina, L. Smith, E. Roesch, C. Li, M. Drumm, B. Gaston, Cleveland, OH, p.A2843**
- 212 NIOX VERO® Nasal Measurement Mode Differentiates Individuals with PCD from Healthy Individuals with Two Breathing Methods/M. MacDonald-Berko, K. Rickard, Morrisville, NC, p.A2844**
- 213 Rapid Nasal Nitric Oxide Sampling Differentiates PCD from Healthy/M.G. Holgersen, J.K. Marthin, K.G. Nielsen, Copenhagen, Denmark, p.A2845**
- 214 Where Is the NO in Primary Ciliary Dyskinesia (PCD)? Somatic Cell Heme Oxidizes NO in Ciliated Human Epithelial Cells Homozygous for the PCD Mutation, DNAH5/N. Marozkina, L. Smith, B.M. Gaston, Cleveland, OH, p.A2846**
- 215 Neonatal Chest X-Ray Findings in Patients with Primary Ciliary Dyskinesia/T.J. Vece, E.S. Takoushian, M.B.A. Zariwala, K.M. Sullivan, M.R. Knowles, M.W. Leigh, Chapel Hill, NC, p.A2847**
- 216 Investigation of "Read-Through" of Nonsense Mutations as a Treatment for Primary Ciliary Dyskinesia/L.E. Ostrowski, A.J. Smith, N. Fregien, Chapel Hill, NC, p.A2848**
- 217 Airways Mucus Proteome Reveals Unique and Common Pathways in Non-CF Bronchiectasis and Primary Ciliary Dyskinesia/G. Radicioni, K.A. Ramsey, M. McGuckin, M.R. Knowles, R.C. Boucher, M. Kesimer, Chapel Hill, NC, p.A2849**
- 218 Association of Bacterial Infection and Obstructive Lung Disease in Young Children with Recurrent Wheezing/W.S. Stoudemire, C.R. Esther, Chapel Hill, NC, p.A2850**
- 219 Correlation Between Nasopharyngeal Swab and Bronchoalveolar Lavage Cultures in Children Less than 5 Years with Persistent Bacterial Bronchitis/A.M. Asseri, N. Khattab, C. Daines, W. Morgan, Tucson, AZ, p.A2851**
- 220 Is Wet or Productive Cough a Valid Symptom in Older Children? Correlation of Parent and Physician Perceived Cough Quality with the Bronchoscopic Findings/S. Gopalakaje, I.B. Masters, A. Isles, A.B. Chang, South Brisbane, Queensland, Australia, p.A2852**
- 221 Characteristics of Alaska Native Children with Chronic Suppurative Lung Disease: A Prospective 10-Year Study/B. Kinghorn, R. Singleton, G.B. McCallum, A.B. Chang, G.J. Redding, Seattle, WA, p.A2853**
- 222 Biochemical and Biophysical Analysis of Direct Bronchial Mucus from Preschool Aged Patients with CF/D. Hill, K.A. Ramsey, M. Markovetz, I.C. Garbarine, M. Kesimer, R.C. Boucher, S.M. Stick, A. Schultz, Chapel Hill, NC, p.A7720**

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- 311** **Increased Use of Non-Invasive Positive Pressure Associated with Decreased Use of Other Invasive Devices in Children with Bronchiolitis/S.** Soshnick, C.L. Carroll, A.S. Cowl, Hartford, CT, p.A2864
- 312** **RSV Bronchiolitis in Infants Hospitalized During the Epidemic Peak and Non-Peak Months: Different Th1/Th2 Response/R.** Nenna, A. Frassanito, L. Petrarca, G. Di Mattia, A. Pierangeli, C. Scagnolari, G. Fedele, I. Schiavoni, F. Midulla, Rome, Italy, p.A2865
- 313** **Modulation of TRPV1 in Bronchial Epithelium of Children by Asthma Predisposition and Respiratory Syncytial Virus Infection/T.**J. Harford, F. Rezaee, R.G. Scheraga, M.A. Olman, G. Piedimonte, Cleveland, OH, p.A2866
- 314** **Urine Levels of γ -Aminobutyric Acid Are Associated with the Severity of Respiratory Syncytial Virus Infection in Infancy/C.** Rosas-Salazar, C.D. Sloan, T. Gebretsadik, E.K. Miller, K.N. Carroll, T.V. Hartert, Nashville, TN, p.A2867
- 315** **Genetic Variants in Human Respiratory Virus Receptors Were Associated with Infection, Recovery and Recurrence of Wheezing Exacerbations in Children/L.** Harris, R. Allcock, N. Kresoje, P.N. Le Souef, I.A. Laing, Perth, Australia, p.A2868
- 316** **Hyaluronan Production by Human Lung Fibroblasts Co-Cultured with Asthmatic Bronchial Epithelial Cells Is Enhanced by Epithelial Infection with Respiratory Syncytial Virus/S.**R. Reeves, C.K. Chan, K.A. Barrow, I. Kang, M.P. White, T.N. Wight, J.S. Debley, Seattle, WA, p.A2869
- 317** **Respiratory Tract Infection Related Healthcare Utilisation in UK Children with Down's Syndrome/L.** Manikam, M. Cupp, A. Schilder, A. Hayward, P. Littlejohns, E. Alexander, M. Lakhanpaul, London, United Kingdom, p.A2870
- 318** **Effects of Antibiotics in Preventing Hospitalisations Due to Respiratory Tract Infections in Children with Down's Syndrome/L.** Manikam, M. Cupp, A. Schilder, A. Hayward, P. Littlejohns, E. Alexander, M. Lakhanpaul, London, United Kingdom, p.A2871
- 319** **Reducing Antibiotic for Child Upper Respiratory Infections in Rural China: An RCT, Process Evaluation and Cost-Effectiveness Analysis/X.** Wei, Z. Zhang, J. Walley, J. Hicks, B. Dawkins, J. Zeng, M. Lin, Toronto, Canada, p.A2872
- 320** **Differential Transcriptome Responses in Infant and Adult Airway Epithelium Following H1N1 Influenza Infection/M.**G. dela Pena-Ponce, D. Dugger, V. Kohli, H. Ji, C. Chaplin, J. Ngo, L.A. Miller, Davis, CA, p.A7721
- Chairing:** V. De Jesus Perez, MD, Palo Alto, CA
J.P. Fessel, MD, PhD, Nashville, TN
N.W. Morrell, MD, Cambridge, United Kingdom
- 801** **NKX2.5 Is Associated to Endothelial-to-Mesenchymal Transition in Pulmonary Arterial Hypertension/J.** Santos Cade, I. Papaioannou, C. Denton, D. Abraham, M. Ponticos, London, United Kingdom, p.A2873
- 802** **ETV2/PPAR γ Axis Regulates Endothelial-to-Mesenchymal Transition in Pulmonary Hypertension/B.-Y.** Kang, D. Lee, J. Kim, S.S. Chang, J. Ma, R.L. Sutliff, C.M. Hart, C. Park, B.-Y. Kang, Decatur, GA, p.A2874
- 803** **Lung EC NAMPT Promoter Activity Is Induced by PAH-Relevant Stimuli and Promotes EC-to-Mesenchymal Transition/X.** Sun, H. Tang, A. Sun, P. Awuah, S.M. Black, J.X.J. Yuan, J.G.N. Garcia, Tucson, AZ, p.A2875
- 804** **Altered Glucose Metabolism Regulates Sprouting Angiogenesis Through Sp1 and VEGF in Pulmonary Arterial Hypertension/L.** Tian, J.W. Barnes, S. Krick, N. Mellor, S.A.A. Comhair, R.A. Dweik, Cleveland, OH, p.A2876
- 805** **Unfolded Protein Response and Mitochondria Crosstalk Drives PINK1 Downregulation and Mitochondrial Dysfunction in Pulmonary Endothelial Cells/L.** Tu, M. Bueno, L. Voltz, A.L. Mora, Pittsburgh, PA, p.A2877
- 806** **Contrasting Effects of CD117+ Endothelial Cell Injection in Chronic Hypoxic- and Lung Fibrosis-Associated Pulmonary Hypertension/D.** Farkas, S. Hultman, A.R. Bhagwani, C. Cool, M. Valentine, M.R.J. Kolb, R.L. Heise, M.C. Yoder, M. Clauss, R.J. Freislat, L. Farkas, Richmond, VA, p.A2878
- 807** **Pericyte Fate Mapping in Mice with Hypoxia-Induced PAH/K.** Yuan, E. Shamskhov, M. Orcholski, K. Red-Horse, V. De Jesus Perez, Palo Alto, CA, p.A2879
- 808** **Vascular Endothelial Cell-Specific Connective Tissue Growth Factor (CTGF) Is Necessary for Development of Chronic Hypoxia-Induced Pulmonary Hypertension/A.**J. Bryant, L. Pi, C. Fu, Y. Lu, J. Zhou, K. Lipson, E.W. Scott, Gainesville, FL, p.A2880
- 809** **Sub-Haploinsufficiency of BMPR2 Causes a Shift in the Endothelial Proliferative and Metabolic Response to BMP9/A.**L. Theilmann, L.G. Hawke, L.R. Hilton, J.L. Mackeill, K.J. Dunham-Snary, P.D. James, D.H. Maurice, S.L. Archer, M.L. Ormiston, Kingston, Canada, p.A2881
- 810** **Tet2 Deletion In Hematopoietic Cells Contributes To Pulmonary Arterial Hypertension Development./F.** Potus, E.K. Cook, L. Tian, M. Rauh, S.L. Archer, Kingston, Canada, p.A2882
- 811** **Inhibition of Purine Nucleoside Phosphorylase Retards the Progression of Angioproliferative Pulmonary Hypertension in Female Rats/S.**P. Tofovic, J. Hu, J. Milosevic, E.K. Jackson, Pittsburgh, PA, p.A2883
- 812** **17 β -Estradiol And Its Receptor ER α Protect Against Right Ventricular Vascular Loss In Experimental Pulmonary Hypertension/A.**L. Frump, M. Albrecht, B. Yakubov, T. Lahm, Indianapolis, IN, p.A2884

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

B27 THE EVIL THAT ENDOTHELIAL CELLS DO: IMPLICATIONS FOR PULMONARY VASCULAR DISEASE

9:15 a.m. - 11:15 a.m. **MARRIOTT MARQUIS SAN DIEGO MARINA**

Grand Ballroom 11-13 (North Tower, Lobby Level)

Abstract Summaries 9:15-9:45

Viewing/Discussion 9:45-11:15

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- 813 **Endostatin-ID1-Thrombospondin-1 Signaling Alters Endothelial Cell Survival and Is Associated with Poor Clinical Outcomes in Pulmonary Arterial Hypertension/A.M. Goyanes, L. Wang, L. Varela, L. Johnston, G. Peloquin, A. Berger, C. Cheadle, T.M. Kolb, S.C. Mathai, P.M. Hassoun, R.L. Damico, Baltimore, MD, p.A2885**
- 814 **Eps-15 Homology Domains: Role In The Pathogenesis Of Pulmonary Arterial Hypertension/S.A. Predescu, S. Qin, C. Bardita, D.N. Predescu, Chicago, IL, p.A2886**
- 815 **The Mitochondrial Uncoupling Protein-2 Determines Lung Endothelial Barrier Properties/R.F. Hough, G.A. Gusarova, M.N. Islam, J. Bhattacharya, New York, NY, p.A2887**
- 816 **Hemin causes Endothelial Barrier Dysfunction via Disruption of Tight Junctions/A. Srivastava, C. Eccles, R. Rafikov, Tucson, AZ, p.A2888**
- 817 **Quantification Of Putative Precapillary Remodeling In The Pulmonary Vasculature Using Harvest Of Pulmonary Artery Endothelial Cells Following Right Heart Catheterization/M. Passineau, P. Gallo, R.L. Benza, Pittsburgh, PA, p.A2889**
- 818 **Caspase-1 Downregulates Circulating Amyloid-related Danger Molecules in Critically Ill Patients/Y. Eslaamizaad, E. Sutherland, J. Bell, L. Ayers, P. Renema, M. Jackson, J. Audia, B.W. Fouty, D.F. Alvarez, Mobile, AL, p.A2890**
- 819 **Red Blood Cells Attenuate while Its Supernatant Aggravates Inflammatory Response of Pulmonary Artery Endothelial Cells/J. Kim, T. Nguyen, M.A. Mazzeffi, K.A. Tanaka, A. Birukova, K.G. Birukov, Baltimore, MD, p.A2891**
- 820 **DPP4 Inhibition Attenuates LPS-Induced Lung Injury in Mice/T. Kawasaki, W. Chen, K. Tatsumi, S.M. Dudek, Chicago, IL, p.A2892**
- 821 **Particulate Matter-induced Microtubule Destabilization and Lung Endothelial Dysfunction/P. Karki, A.Y. Meliton, Y. Tian, T. Ohmura, G.M. Mutlu, A. Birukova, Baltimore, MD, p.A2893**
- 822 **Cortactin Deficiency Alters Lung Mechanics During Inflammatory Injury/P.G. Belvitch, H. Wang, N. Desai, R. Demeritte, J.G.N. Garcia, S.M. Dudek, Chicago, IL, p.A2894**
- 823 **Group V phospholipase A2 (gVPLA2) mediates responses to methicillin-resistant Staph aureus (MRSA) in lung endothelium/Y.M. Htwe, L. Meliton, T. Kawasaki, S.M. Dudek, Chicago, IL, p.A2895**
- 901 **Niches of Wnt/Beta-Catenin Signaling in Distal Adult Human and Mouse Lung During Homeostasis and Injury/A. Lam, A. Misharin, A. Flozak, C. Chung, G.S. Budinger, C.J. Gottardi, Chicago, IL, p.A2896**
- 902 **HIV-Nef Induces Endothelial EMAPII Surface Expression to Induce Vascular Permeability and Apoptosis/M. Clauss, S. Chelvanambi, H.L. Twigg, N.V. Bogatcheva, N.V. Bogatcheva, Indianapolis, IN, p.A2897**
- 903 **The Role of Retinoid and Hedgehog Signaling in the Derivation of Lung Specific Mesenchymal Progenitors from iPS Cells/H.A. Marquez, W. Shi, D.N. Kotton, Boston, MA, p.A2898**
- 904 **Rare Pulmonary Connective Tissue Type Mast Cells Regulate Endothelial Cell Angiogenesis/Y. Ren, Y. Lyu, J.A. Mereness, J. Pang, G.S. Pryhuber, T.J. Mariani, Rochester, NY, p.A2899**
- 905 **Exosome Mediated Signaling of Fibroblast Invasion Is Dependent on Surface Expression of Fibronectin/D. Chanda, K.P. Hough, E. Otoupalova, M.L. Locy, J. Deshane, R.D. Sanderson, V.J. Thannickal, Birmingham, AL, p.A2900**
- 906 **Lymphangioliomyomatosis-Derived Smooth Muscle Cells (LAM-SMCs) Destabilize Endothelial Cell (EC) Networks While ECs Promote Growth of LAM-SMCs/M. Ho, M. Ho, L.M. Julian, W. Stanford, D.J. Stewart, Ottawa, Canada, p.A2901**
- 907 **Single Cell Transcriptomics Identifies Key Cellular Players in an Animal Model of Pulmonary Fibrosis/N. Joshi, R. Verma, R.B. Jablonski, P. Cheresch, A. Cristina McQuattie-Pimentel, C.-I. Chen, S. Watanabe, D.W. Kamp, G.S. Budinger, A.V. Misharin, Chicago, IL, p.A2902**
- 908 **Endothelial Cell Barrier Enhancement Results in Differences in ITGB4 Variant Expression and Localization/G. Kelly, J. Gard, J.G.N. Garcia, A. Cress, T. Wang, Phoenix, AZ, p.A2903**
- 909 **Collagen 6 Deficiency Results in Parenchymal and Airway Abnormalities in the Mouse Lung/J.A. Mereness, S. Bhattacharya, Y. Ren, Q. Wang, C.S. Anderson, K. Donlon, A. Angelin, P. Bonaldo, T.J. Mariani, Rochester, NY, p.A2904**
- 910 **Association of Basal Mitochondrial Function Assessments and Mitochondrial DNA Sequence, Heteroplasmy, and Copy Number in Mice/H. Vellers, S.R. Kleeberger, Research Triangle Park, NC, p.A2905**
- 911 **Variability in Stretch Amplitude Partially Restores Age Related Decline in Cytoskeletal Structure in Lung Fibroblasts/E. Bartolak-Suki, B. Suki, Boston, MA, p.A2906**
- 912 **Designing Perfusate for Prolonged Normothermic Ex Vivo Lung Perfusion to Investigate Diseased Lungs/J. Sembrat, K. Noda, M. Rojas, J. D' Cunha, Pittsburgh, PA, p.A2907**
- 913 **Changes in Biomarkers of Collagen Synthesis and Degradation Correlate with Disease Progression and Mortality in Idiopathic Pulmonary Fibrosis/L. Organ, G. Saini, P.L. Molyneaux, R. Braybrooke, R. Marshall, W. Fahy, A.-M. Duggan, A. Kang'ombe, J. Simpson, M. Karsdal, D.J. Leeming, R.G. Jenkins, T.M. Maher, Nottingham, United Kingdom, p.A2908**
- 914 **Down-Regulation of Cleavage Factor Im 25 (CFIM25) Promotes Pulmonary Fibrosis Through Alternative Polyadenylation/T.W. Mills, J. Ko, N. Chen, J. Molina, S. Collum, H. Karmouty-Quintana, J.L. Davies, E. Wanger, M.R. Blackburn, Houston, TX, p.A2909**

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

B28 CELL AND MATRIX MICROENVIRONMENTS MODULATE LUNG DISEASE

9:15 a.m. - 11:15 a.m. **MARRIOTT MARQUIS SAN DIEGO MARINA**

Pacific Ballroom 15-17 (North Tower, First Floor)

Abstract Summaries 9:15-9:45

Viewing/Discussion 9:45-11:15

Chairing: F.E. Lee, MD, Atlanta, GA
C.E. Barkauskas, MD, Durham, NC
D.J. Tschumperlin, PhD, Rochester, MN

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- 915 **Loss of PGC1a Leads to Mitochondrial Dysfunction and Contributes to Lung Fibroblast Activation**/N. Caporarello, J.A. Meridew, D.L. Jones, Q. Tan, A.J. Haak, L.J. Manlove, Y.S. Prakash, D.J. Tschumperlin, G. Ligresti, Rochester, MN, p.A2910
- 916 **Importance of the Large Conductance Potassium Ion Channel Subunit KCNMB1 in the Differentiation of Fibroblasts to Myofibroblasts**/A. Scruggs, S.K. Huang, Ann Arbor, MI, p.A2911
- 917 **MicroRNA Sequencing of Peripheral Blood Mononuclear Cells and Disease Staging and Severity in Sarcoidosis**/N. Emeagwali, M. Vukmirovic, X. Yan, K.F. Gibson, M. Gulati, G. Delullis, T. Adams, B. Hu, X. Li, A. Mihaljinec, S. O'Neal, M. Becich, H. Hochheiser, E. Herzog, E.S. Chen, A.M. Morris, J.K. Leader, Y. Zhang, J.G.N. Garcia, S.R. Wisniewski, P.V. Benos, L.A. Maier, D.R. Moller, K. Patterson, W.P. Drake, L. Koth, N. Kaminski, New Haven, CT, p.A2912
- 918 **4E-BP1/eIF4E Cap Dependent Translational Signaling and Regulation in Lung Mesenchymal Cells**/N.N. Lama, N.M. Walker, Ann Arbor, MI, p.A2913
- 919 **Macrophage Migration Inhibitory Factor (MIF)-Thyroxine (T4) Interactions in Pulmonary Arterial Hypertension (PAH)**/E.J. Miller, A. Iftikhar, S. Verma, K. Lin, K. Ochani, A. Talwar, Manhasset, NY, p.A2914
- 920 **The Fibrotic Extracellular Matrix Induces Exosomal Pro-Fibrotic miRNA Production of Fibrocytes**/S. Sato, C.B. Upagupta, T. Yanagihara, M.R.J. Kolb, Hamilton, Canada, p.A2915
- 921 **Fibrotic Lung Matrix Directs Changes in Extracellular Matrix Production by Lung Fibroblasts Which Is Countered by Adipose Tissue-Derived Stromal Cell Conditioned Media**/L. van Os, M.R. Jonker, T.L. van den Toorn, P. Jellema, H. Moorlag, M.C. Harmsen, E.S. White, I.H. Heijink, J.K. Burgess, Groningen, Netherlands, p.A2916
- 922 **The Pathological Effects of Decellularized Fibrotic Extracellular Matrix from IPF Patients**/R. Nho, J. Im, Minneapolis, MN, p.A2917
- 923 **Matrix Structure, Stiffness and Composition Regulate the Contractile Phenotype of Vascular Smooth Muscle Cells**/M. Floren, Y. Ding, X. Xu, S. Sharma, S. Bryant, C. Neu, K. Stenmark, W. Tan, Aurora, CO, p.A2918
- 924 **Alveolar Macrophages Contribute to the Type 2 Alveolar Epithelial Stem Cell Niche**/J.B. Smith, R.M. Tighe, C. Barkauskas, Durham, NC, p.A2919
- 925 **Macrophage-Epithelial Crosstalk Regulates Mucin Expression in Human Bronchial Epithelial Cells**/M. Goransson, Z. Rojnik, K. Thorn, K. Ost, S. Delaney, Gothenburg, Sweden, p.A2920

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

B29 LUNG ECM ENVIRONMENT: NOVEL FINDINGS AND MODELS IN FIBROSIS

9:15 a.m. - 11:15 a.m. MARRIOTT MARQUIS SAN DIEGO MARINA
 Pacific Ballroom 24-26 (North Tower, First Floor)

Abstract Summaries 9:15-9:45
Viewing/Discussion 9:45-11:15

- Chairing:** A.J. Ammit, PhD, Ultimo, Australia
 J.J. Fredberg, PhD, Boston, MA
 C. Pascoe, PhD, Winnipeg, Canada
- 1001 **Variation in Sensitivity to Pirfenidone Among Fibroblasts Derived from Patients with and Without Idiopathic Pulmonary Fibrosis**/J. Jaffar, L. Organ, K. Symons, I. Glaspole, G.P. Westall, Melbourne, Australia, p.A2921
- 1002 **Mitochondrial Dysfunction Contributes to the Senescent Phenotype of IPF Lung Fibroblasts**/M. Schuliga, D.W. Waters, K. Blokland, J. Jaffar, G.P. Westall, C. Prele, S.E. Mutsaers, J.K. Burgess, C. Grainge, D.A. Knight, Callaghan, Australia, p.A2922
- 1003 **Comparison of Decellularization Between Normal and Silicotic Lungs on Lung Function and Extracellular Matrix Components**/F.F. Cruz, V. Martins, V. Capelozzi, P.L. Silva, P.R.M. Rocco, Rio de Janeiro, Brazil, p.A2923
- 1004 **Effects of Static Magnetic Fields on Natural or Magnetized Mesenchymal Stromal Cells: Repercussions for Magnetic Targeting**/F.F. Cruz, L.H.A. Silva, S.M. Silva, E.C.D. Lima, R.C. Silva, D.J. Weiss, M. Morales, P.R.M. Rocco, Rio de Janeiro, Brazil, p.A2924
- 1005 **Immunoglobulin A Induces Production of Inflammatory Cytokines and Collagen I by Human Lung Fibroblasts**/S. Arakawa, M. Suzukawa, K. Kobayashi, H. Matsui, T. Nagase, K. Ohta, Kiyose, Japan, p.A2925
- 1006 **Decoupling of Biochemical and Biophysical Contributions to Fibrocyte Accumulation, Density and Aspect Ratio in the Scleroderma Lung Microenvironment**/H. Sun, J. Winkler, M. Minasyan, H. Pan, D. Omkar, A. Gonzalez, A. Pellowe, J. Meng, X. Peng, E. Herzog, New Haven, CT, p.A2926
- 1007 **Inflammation- and Mechanotransduction-Driven Airway Remodeling in a Mouse Model of Asthma: An Integrated In Vivo - In Silico Study**/B.S. Brook, M.R. Hill, C.J. Philp, A. Habgood, R.J. Middlewick, A.E. John, K.E. Stephenson, A. Goodwin, C.K. Billington, A.L. Tatler, R.D. O'Dea, S.R. Johnson, Nottingham, United Kingdom, p.A2927
- 1008 **Serological Neo-Epitope Extracellular Matrix Related Markers Reflecting Collagen or Elastin Degradation Are Elevated in a Mouse Model of Allergic Asthma Exacerbation**/S. Ronnow, J.M.B. Sand, M. Wegmann, L. Lunding, J.K. Burgess, T. Bahmer, D.J. Leeming, M.D. Weckmann, Herlev, Denmark, p.A2928
- 1009 **Impact of Different Intratracheal Flows During Lung Decellularization on Matrix Composition and Mechanics**/P.L. Silva, M.A. Bellezza, F.F. Cruz, V. Martins, V.L. Capelozzi, P.R.M. Rocco, Rio de Janeiro, Brazil, p.A2929
- 1010 **Effect of Extracellular Matrix Remodeling on the Mechanical Coupling Between Human Airway Smooth Muscle Cells**/S.R. Polio, N. Schaible, S.E. Stasiak, A. Ehrlicher, K.R. Lutchen, R. Krishnan, H. Parameswaran, Boston, MA, p.A2930
- 1011 **Softening Cellular Microenvironments Augments Glucocorticoid Actions**/A.B. Mitke, T. Harris, S. Langenbach, M. Schuliga, F. Jatava, P. Lee, J. Jaffar, G. Westall, A. Stewart, Melbourne, Australia, p.A2931
- 1012 **Real-Time Imaging of Mechanical Stress-Induced ATP Release in Rat Lungs: from In Vitro to Ex Vivo**/J.J. Tan, F. Boudreault, E. Brochiero, R. Grygorczyk, Montreal, Canada, p.A2932

MONDAY MORNING

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- 1013** **Integrin Alpha2Beta1 Transmits Tension in Smooth Muscle Via Interaction with Collagen and Laminin/S.** Liu, D. Sheppard, A.B. Sundaram, San Francisco, CA, p.A2933
- 1014** **GMFy Coordinates Focal Adhesion and Lamellipodial Dynamics to Regulate Human Airway Smooth Muscle Migration/B.**D. Gerlach, G. Liao, A. Rezey, R. Wang, D.D. Tang, Albany, NY, p.A2934
- 1015** **Anti-Inflammatory Glucocorticoids Paradoxically Increase Airway Smooth Muscle Stiffness and Contraction Through CD151/S.**G.B. Tan, H. Lam, T.B. Saw, M.H.B. Nai, C.T. Lim, S.S. An, T. Tran, Singapore, Singapore, p.A2935
- 1016** **Development of a Stretcher System to Study the Effect of Stretch and Substrate Stiffness on a Multicellular Ensemble of Airway Smooth Muscle Cells/S.** Stasiak, S.R. Polio, N. Schaible, A.J. Ehrlicher, K.R. Lutchen, R. Krishnan, H. Parameswaran, Boston, MA, p.A2936
- 1017** **Assessing the Relative Contributions of Lung Extracellular Matrix Components to Lung Tissue Mechanics: A Combined Experimental-Computational Modeling Approach/K.**S. Burrowes, J. Workman, A. Irvani, Auckland, New Zealand, p.A2937
- 1018** **Elastin Degradation Mediated by Proteinase 3 Is a Novel Biomarker of COPD/J.**M.B. Sand, N.S. Gudmann, T. Manon-Jensen, C. Diefenbach, M.A. Karsdal, D.J. Leeming, Herlev, Denmark, p.A2938
- 1019** **Interleukin-1 Regulation of Fibroblast Repair Phenotype Through Lysyl Oxidase Contributes to Fibrillar Collagen Disorganization in Asthmatic Airways/E.**T. Osei, L. Mostaçõ-Guidolin, M. AL-Fouadi, W. Timens, C.-A.A. Brandsma, I.H. Heijink, T.-L. Hackett, Vancouver, Canada, p.A2939
- 1020** **Engineering Lymphocytes to Block TGFbeta Pathway on Lung Fibroblasts Using Synthetic Notch Receptor/J.**C. Caraballo, N. Frankel, G. Allen, J. Willaims, W. Lim, D. Sheppard, San Francisco, CA, p.A2940
- 1021** **Cyclic Stretching of Precision-Cut Lung Slices with Exposure to Cigarette Smoke Extract/J.**R. Mondonedo, K. Nelson, K. Cao, W.P. Obrochta, S.A.M. Bou Jawde, R. Krishnan, E. Bartolak-Suki, B. Suki, Boston, MA, p.A2941
- 1022** **Serological Biomarkers of Extracellular Matrix Remodeling in the Alliance Asthma Cohort/S.** Ronnow, J.M.B. Sand, D.J. Leeming, J.K. Burgess, K.F. Rabe, T. Bahmer, O. Fuchs, G. Hansen, E. V. Mutius, M. V. Kopp, M.D. Weckmann, Herlev, Denmark, p.A2942
- 1023** **Intrinsic Airway Smooth Muscle Tone in Peripheral Airways Is Determined by the Volume Fraction of Muscle and Extracellular Matrix/P.**B. Noble, A. Cairncross, F. Sanai, B.E. McParland, G.G. King, P.K. McFawn, J.G. Elliot, A.L. James, Perth, Australia, p.A2943
- 1024** **Tracheal Replacement Using a Bio-3D Printed Scaffold-Free Engineered Tissue Based Trachea/K.** Matsumoto, R. Machino, D. Taniguchi, T. Tetsuo, Y. Takeoka, Y. Takeoka, S. Oyama, M. Moriyama, Y. Taura, N. Yamasaki, N. Yamasaki, K. Takagi, T. Tsuchiya, T. Miyazaki, G. Hatachi, K. Tomoshige, K. Nakayama, K. Nakayama, T. Nagayasu, Nagasaki, Japan, p.A7722

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

B30 PREDICTORS AND CLINICAL CORRELATES OF SLEEP DISORDERED BREATHING

9:15 a.m. - 11:15 a.m.

SAN DIEGO CONVENTION CENTER

Room 11 A-B (Upper Level)

Abstract Summaries 9:15-9:45
Viewing/Discussion 9:45-11:15

- Chairing:** R.J. Kimoff, MD, Montreal, Canada
P. Catcheside, PhD, Daw Park, Australia
G.W. Pien, MD, MS, Baltimore, MD
L. Kheirandish-Goza, MD, MSc, Chicago, IL
- 401** **Apnea Hypopnea Duration: Epidemiological and Physiological Correlates/P.**V. Borker, S. Mariani, J. Weng, S.A. Sands, T. Sofer, M.P. Butler, H. Wang, A. Wellman, S.S. Redline, Boston, MA, p.A2944
- 402** **Increased Risk for Cancer in Young Patients with Severe Obstructive Sleep Apnea/G.** Pillar, R. Brenner, T. Etzioni, B. Silverman, L. Keinan-Boker, I. Liphshiz, N. Peled, Haifa, Israel, p.A2945
- 403** **Severe Obstructive Sleep Apnea Is Associated with Changes in Nasal Microbiota/B.** Wu, J. Wang, I. Sulaiman, N. Shen, J. Clemente, Y. Li, R.J. Laumbach, S.-E. Lu, I. Udasin, O. Le-Hoang, A. Perez, A. Horowitz, S. Alimokhtari, K. Black, M. Plietz, A. Twumasi, P. Melacha, B. Kapoor, B.D. Scaglione, C.M. Blazoski, A. Wang, J. Gilani, E.A. Vicente, J.M. Marin, M. Weiden, D.M. Rapoport, J. Sunderram, I.A. Ayappa, L.N. Segal, New York, NY, p.A2946
- 404** **Association Between Obstructive Sleep Apnea and Motor Symptoms in Parkinson's Disease Patients/L.**L. Meng, V.P. Mery, A. Benedetti, A.L. Lafontaine, A. Robinson, P. Gros, R.J. Kimoff, M. Kaminska, Montreal, Canada, p.A2947
- 405** **Association Between Sleep Apnea and Blood Pressure Control Among African-Americans, the Jackson Heart Study/D.**A. Johnson, S.J. Thomas, M. Abdalla, Y. Yano, N. Guo, M. Ruesuchman, R. Tanner, M. Mittleman, J. Wilson, D. Calhoun, S.S. Redline, Boston, MA, p.A2948
- 406** **Interactions Between Diabetes or Hypertension and Sleep Disordered Breathing, Objective Sleep Duration and Obesity: The Nagahama Study/T.** Matsumoto, K. Murase, Y. Tabara, D. Gozal, D. Smith, T. Minami, K. Tanizawa, T. Oga, S. Nagashima, T. Wakamura, T. Hirai, F. Matsuda, K. Chin, Kyoto, Japan, p.A2949
- 407** **Obstructive Sleep Apnea Is Associated with Newly-diagnosed Gestational Diabetes/B.** Izci Balseak, G.W. Pien, A.I. Pack, D. Mastrogiannis, D.W. Carley, B. Prasad, J. Herdegen, T.E. Weaver, Chicago, IL, p.A2950
- 408** **Persistence of Sleep-Disordered Breathing from Pregnancy to the Postpartum Period/A.**M. Al-Dobyany, N. Huynh, L. Lavigne, A. Olha, L. Drouin-Gagné, M. Létourneau, S. Meltzer, N. Garfield, R.J. Kimoff, S. Pamidi, Montreal, Canada, p.A2951

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- 409 Relationship of Sleep Disordered Breathing with Myocardial Scar on Cardiac Magnetic Resonance: Results of the Multi-Ethnic Study of Atherosclerosis (MESA)/N.A. Shah, J. Kizer, J. Weng, R. Shah, R. Kaplan, Z. Fayad, J. Lima, S.S. Redline, New York, NY, p.A2952**
- 410 Association Between Sleep Disordered Breathing and Erythrocytosis Amongst Andean Highlanders and Adaptation to Altitude/J.E. Orr, E. Heinrich, D. Gilbertson, C. Anza-Ramirez, P.N. Deyoung, M. Djokic, N. Corante, G. Vizcardo-Galindo, E. Gaio, F.L. Powell, F.C. Villafuerte, A. Malhotra, T.S. Simonson, La Jolla, CA, p.A2953**
- 411 Effect of Obstructive Sleep Apnea and Its Treatment on Atrial Fibrillation Recurrence after Radiofrequency Catheter Ablation: A Meta-Analysis/S. Congrete, C. Thongprayoon, B. Boonpheng, K. Sharma, R. Chokesuwattanaskul, N. Srivali, T. Tanawuttiwat, W. Cheungpasitporn, Boston, MA, p.A2954**
- 412 Sleep Apnea and Coronary Artery Calcium Density: Results from the Multi-Ethnic Study of Atherosclerosis (MESA)/N.A. Shah, M. Matsuzaki, J.R. Kizer, R. Kaplan, Z. Fayad, S. Shea, M. Allison, M. Criqui, P.L. Lutsey, R. McClelland, S.S. Redline, New York, NY, p.A2955**
- 413 Progression in Chronic Kidney Disease Stage Is Associated with Central Sleep Apnea in Patients with Heart Failure/T. Inami, Y. Seino, A. Shima, N. Kitomi, T. Ikeda, Y. Miyauchi, W. Shimizu, Chiba, Japan, p.A2956**
- 414 Linkage Between Heart Failure Stages and Atrial Fibrillation Were Closely Associated with Central Sleep Apnea in Patients with Chronic Heart Failure/T. Ikeda, T. Inami, A. Shima, N. Kitomi, Y. Miyauchi, Y. Seino, W. Shimizu, Chiba, Japan, p.A2957**
- 415 Episodic Increase in Heart Rate on Overnight Oximetry with Normal Desaturation Index Is an Independent Predictor of Obstructive Sleep Apnea/M. Zuberi, N. Festic, V. Bansal, E. Festic, Jacksonville, FL, p.A2958**
- P851 Dynamic Confocal Imaging Reveals Exogenous Pulmonary Surfactant Critically Enhances Alveolar Anti-Inflammatory Drug Delivery and Inhibits Endotoxin-Induced Inflammatory Responses/A. Hidalgo, M.N. Islam, F. Salis, G. Orellana, A. Cruz, S. Bhattacharya, J. Bhattacharya, J. Perez-Gil, Madrid, Spain, p.A2961**
- P852 CXCL5 Drives Neutrophil Recruitment and Development of Lung Barrier Failure in Acute Lung Injury/G. Nouailles, S. Berger, S.M. Wienhold, C. Goekeri, U. Behrendt, H.C. Muller-Redetzky, K. Dietert, A.D. Gruber, M. Witzernath, Berlin, Germany, p.A2962**
- P853 Characterization and Functional Significance of Lung Extracellular Vesicles in the Presence of Noxious Stimuli/H. Lee, D. Zhang, Y. Jin, Boston, MA, p.A2963**
- P854 Human Umbilical Cord Mesenchymal Stem Cell Delivers Exogenous miR-543 Via Exosome to Attenuate Radiation Induced Lung Injury/S. Xu, C. Liu, Y. Ma, H. Ji, Xinxiang, China, p.A2964**
- P855 Inhibition of Glutamine Metabolism Accelerates Resolution of Acute Lung Injury/C. Vigeland, H.S. Beggs, S. Collins, J. Powell, C.M. Doerschuk, M.R. Horton, Chapel Hill, NC, p.A2965**
- P856 Reparable Roles of VEGFR-3/VEGF-C Signaling on Macrophages in Acute Lung Inflammation/M. Yamashita, Y. Kawasaki, M. Ono, K. Yamauchi, M. Maemondo, Morioka, Japan, p.A2966**
- P857 Role of Dual Oxidase in Airway Neutrophilia in Ventilator-Induced Lung Injury/L. Cagle, A. Linderholm, L. Franzi, R.W. Harper, N.J. Kenyon, Davis, CA, p.A2967**
- P858 Keratinocyte Growth Factor-2 Ameliorates Acute Lung Injury by Activating the PI3K/Akt Survival Signal and Reducing Prevalence of Th17 and Treg Cells Via Inhibition of NF- κ B Signal/J. Bi, L. Wang, C. Bai, J. Zhou, Y. Song, Shanghai, China, p.A2968**
- Facilitator:** P. Chen, MD, Los Angeles, CA
- P859 MAP Kinase p38alpha but Not p38beta Exhibits Temperature-Dependent Conformational and Functional Changes Within the Clinical Temperature Range that Are Relevant to Acute Lung Injury/J.D. Hasday, M. Tulapurkar, D. Deredge, P. Wintrod, P. Shapiro, Baltimore, MD, p.A2969**
- P860 M2 Macrophages Induced Lung Fibrosis Through Expression of IL-34 in Mouse Lung Injured Model/H. Mikuni, M. Yamaguchi, T. Kawahara, R. Manabe, N. Kuwahara, M. Jinno, Y. Miyata, K. Hirai, T. Homma, S. Ota, H. Inoue, S. Kusumoto, F. Yamaguchi, M. Yamamoto, S. Suzuki, A. Tanaka, T. Onishi, H. Sagara, Tokyo, Japan, p.A2970**
- P861 Novel Chemically Modified Curcumin Decreases Lung Matrix Metalloproteinases in a Rat Ventilation Induced Lung Injury + Trauma/Hemorrhagic Shock Model/K. Wilcox, Q. Searles, J. Satalin, S. Baker, H.-M. Lee, H. Aiash, L.A. Gatto, F. Johnson, L. Golub, G.F. Nieman, Syracuse, NY, p.A2971**
- P862 Effect of Low-Level Laser Therapy on Experimental Model of Ventilator-Induced Lung Injury/L.M.F. Lucinda, T.F. Fazza, L.M.C. Fonseca, M.L. Faria, A.M. Meurer, F. Paoli, A.S. Fonseca, B.V. Pinheiro, M.M. Reboredo, Juiz de Fora, Brazil, p.A2972**
- P863 MKK3 Mediates Inflammatory Response Through Modulation of Multiple Signaling Pathways/A. Srivastava, R. Luo, P. Lee, P. Mannam, Tucson, AZ, p.A2973**

THEMATIC POSTER SESSION

B31 ACUTE LUNG INJURY AND ARDS: TRANSLATIONAL AND MECHANISTIC STUDIES**9:15 a.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER****Area H (Hall A-B2, Ground Level)****Viewing:** Posters will be on display for entire session.**Discussion:** 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators**Facilitator:** I.C. Davis, DVM, PhD, Columbus, OH**P849 RAGE Interacts with RIP3 and Mediates Transfusion-Induced DAMP Release/M. Hotz, I. Dombrovsky, D. Qing, P. Zhang, N.S. Mangalmurti, Philadelphia, PA, p.A2959****P850 Intratracheal and Systemic Administration of Mesenchymal Stem Cell-Derived Extracellular Vesicles Are Equally Effective in Ameliorating Acute Lung Injury/J. Wang, R. Huang, G. Zheng, G. Qiu, M. Ge, Q. Xu, Q. Shu, J. Xu, Hangzhou, China, p.A2960***The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).*

- P864 Pulmonary Manifestations of Inhaled Arsenic Trioxide Following an Acute Accidental Exposure/N. Mariappan, I. Zafar, M. Husain, M. Vaid, R. Suroolia, M.P. Kashyap, R. Srivastava, S. Ahmad, A. Agarwal, M. Athar, V.B. Antony, A. Aftab, Birmingham, AL, p.A2974**
- P865 Suppression of Endoplasmic Reticulum Stress Attenuates Hyperoxia-Induced Acute Lung Injury/H.P. Pao, K.L. Huang, S.J. Chu, Taipei City, Taiwan, p.A2975**
- P866 Na-K-2Cl Cotransporter-1 Modulates Functions of Alveolar Macrophage by Cell Volume Regulation/K.-L. Huang, C.-M. Hung, C.-K. Peng, Taipei City, Taiwan, p.A2976**
- P867 iSPAAR: Genome-Wide Pathway Analysis Reveals Hypoxia-Inducible Factor Pathway Is Associated with Acute Respiratory Distress Syndrome Survival/S. Shen, R. Zhang, Y. Wei, Z. Zhu, L. Su, F. Chen, D.C. Christiani, Boston, MA, p.A2977**
- P868 Protein Kinase R-Like Endoplasmic Reticulum Kinase Confers Ca Sensitive Mechanosensory Function in Ventilator-Induced Lung Injury/T. Dolinay, C. Aonbangkhen, A. Stablow, W. Zacharias, B. Plucinsky, G.G. Lawrence, E. Cantu, Y. Suzuki, S. Singhal, D. Chenoweth, E.E. Morrisey, J.D. Christie, S.S. Margulies, Philadelphia, PA, p.A2978**
- P869 Storage Conditions of Mouse High-Fat Chow Alter Diet-Mediated Effects on the Pulmonary Inflammatory Response/M. Kokoszynska, L. Hoyt, J.J. Bivona, A.E. Dixon, M.E. Poynter, B.T. Suratt, Burlington, VT, p.A2979**

Facilitator: R.S. Knipe, MD, Boston, MA

- P870 Cholestenic Acid Is a Biomarker and Anti-Inflammatory Metabolite in Acute Respiratory Distress Syndrome/J. Madenspacher, R.D. Stapleton, B.T. Suratt, A.E. Dixon, F.B. Lih, K.B. Tomer, M.M. Wurfel, S. Garantziotis, M.B. Fessler, Research Triangle Park, NC, p.A2980**
- P871 Circulating Monocyte Responses Are Associated with Development of ARDS/R.-E.E. Abdunour, T. Gunderson, I. Barkas, J.Y. Timmons, C. Barnig, M.N. Gong, D. Kor, O. Gajic, D.S. Talmor, R.E. Carter, B.D. Levy, Boston, MA, p.A2981**
- P872 Both Chronic Hyperglycemia and Chronic Hyperinsulinemia Attenuate Pulmonary Inflammatory Response/J. Bivona, L.R. Hoyt, M. Kokoszynska, S. Ventrone, B.T. Suratt, Burlington, VT, p.A2982**
- P873 A Phagocyte-Targeted Toll-Like Receptor Nano-Inhibitor Protects Mice Against Lipopolysaccharide-Induced Acute Lung Injury/Y. Xiong, H. Yang, Q. Li, Shanghai, China, p.A2983**
- P874 Surfactant Protein-A Nanobody-Conjugated Liposomes Loaded with Methylprednisolone Demonstrate High Lung Targeting and Therapeutic Effect for Acute Lung Injury/D. Weng, L. Huiping, Shanghai, China, p.A2984**
- P875 The Effects of Pregnancy on the Pulmonary Response to Lipopolysaccharide-Induced Acute Lung Injury/R.E. Rieck, L.R. Hoyt, J.J. Bivona, M. Kokoszynska, S. Ventrone, M.J. Porto, E.A. Bonney, B.T. Suratt, Burlington, VT, p.A2985**
- P876 Further Development of a Small Molecule Inhibitor of the Deubiquitinase STAMBP/J.S. Bednash, N.M. Weathington, B. Chen, R.K. Mallampalli, Pittsburgh, PA, p.A2986**
- P877 AIM/CD5L Inhibits Resolution of Acute Lung Injury in Mice Through Efferocytosis Inhibition/H. Kimura, M. Suzuki, S. Konno, T. Nagase, T. Miyazaki, M. Nishimura, Sapporo, Japan, p.A2987**

- P878 Effect of POL6014, a Potent and Selective Inhaled Neutrophil Elastase Inhibitor, in a Rat Model of Lung Neutrophil Activation/O. Sellier Kessler, G. Lemercier, M. Schmitt, S. Weinbrenner, E. Chevalier, Allschwil, Switzerland, p.A2988**
- P879 The Immunological Impact of Lung Ventilation During On-Pump Cardiopulmonary Bypass/W. Funston, M.-H. Ruchaud-Sparagano, J. Scott, D. O'Leary, J. Dark, J. Simpson, Newcastle upon Tyne, United Kingdom, p.A2989**
- P880 Effect of Advanced Glycation End Products Macrophages Under Hyperglycemic Concentrations/A. Linderholm, C. Mendez, E. Ogorodnik, G.-Y. Liu, N.J. Kenyon, Davis, CA, p.A2990**

THEMATIC POSTER SESSION

B32 CLINICAL STUDIES IN AUTOIMMUNE LUNG DISEASE

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area G (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: J.S. Lee, MD, Aurora, CO

- P623 Complete Reversal of Severe Hypoxia Using Plasmapheresis and IVIG in a c-ANCA Associated Vasculitis with Diffuse Alveolar Hemorrhage/K. Scatliffe, L. Mwamuka, M. Mody, S. Yousuf, A. Arjuna, C. Migliore, P. Patel, H. Seethamraju, Newark, NJ, p.A2991**
- P624 An Uncommon Presentation of Cavitory Lesions in Granulomatosis with Polyangiitis/M. Kosters, K. Patel, A. Desai, Syracuse, NY, p.A2992**
- P625 Recognizing the Pattern: Anti- MDA 5 Associated Clinically Amyopathic Dermatomyositis (CADM) with Rapidly Progressive Interstitial Lung Disease (RP-ILD) Presenting as Multi-Focal Pneumonia/A. Abu Homoud, S. Kooragayalu, N. Bhandari, Chicago, IL, p.A2993**
- P626 "I'm Bleeding from My Eyes" - Acute Onset Dacryoadenitis, Later Diagnosed with Granulomatosis with Polyangiitis/K. Kongpakpaisarn, K.N. Cao, Tampa, FL, p.A2994**
- P627 Diffuse Cobblestone Appearance of the Tracheobronchial Tree: A Rare Presentation of Granulomatosis with Polyangiitis/A. Karim, S. Velani, J. Khatib, B.P. Young, Cleveland, OH, p.A2995**
- P628 IgG4 Related Lung Disease Found in a Patient with a Pancreatic Mass/C. Schuring, A. Yankovich, A. Sodhi, Memphis, TN, p.A2996**
- P629 Dysphonia and Dyspnea in Idiopathic Hypereosinophilic Syndrome Treated with Mepolizumab/D. Kay, A. Ataya, D.R. Urbine, Gainesville, FL, p.A2997**

Facilitator: J.J. Swigris, DO, MS, Denver, CO

- P630 Alveolar Hemorrhage in Anti-Basement Membrane Antibody Disease/M. Fadila, R. Schroeder, H. Regunath, Columbia, MO, p.A2998**

- P631 Cultural and Medical Complexity: Pulmonary-Renal Vasculitis with Severe Anemia/A.** Zanoto, K.R. Ham, Minneapolis, MN, p.A2999
- P632 Revealing the Mystery of a Previously Diagnosed Inflammatory Pseudotumor of the Lung/D.** Khateeb, D. Young, Philadelphia, PA, p.A3000
- P633 Atypical Presentation of Immunoglobulin G4-Related Disease as Subglottic Stenosis/T.** Diaz de Teran, D. Iturbe-Fernandez, V.M. Mora-Cuesta, A. Martinez-Meñaca, S. Fernandez-Rozas, R. Mons-Lera, L. Sanchez-Moreno, A. Rubio-Suarez, J. Gomez-Roman, B. Abascal-Bolado, K.Y.S. Lee, D. Ferrer-Pargada, M.A. Gonzalez-Gay, J.M. Cifrian-Martinez, , p.A3001
- P634 Idiopathic Hyper-Eosinophilic Syndrome Presenting with a Cavitory, Eosinophilic Lung Abscess/D.** Cohen, F.F. Little, Boston, MA, p.A3002
- P635 Positive ANCA, Positive Anti-GBM, Nephritis, Eosinophilia and Alveolar Hemorrhage Secondary to Omalizumab/A.** Kumar, A. Das, A. Faisal, M. Bombery, Grand Rapids, MI, p.A3003
- P636 A Rare Case of Polyangiitis Overlap Syndrome: Granulomatosis with Polyangiitis and Eosinophilic Granulomatosis with Polyangiitis/M.** Quan, S.K. Frankel, M. Maleki, L. Tan, Colton, CA, p.A3004
- Facilitator:** J.C. Horowitz, MD, Ann Arbor, MI
- P637 Bloody Lungs and Broken Kidneys Banded in One Blight/C.** Vahdatpour, O. Amoran, Philadelphia, PA, p.A3005
- P638 A Case of Allergic Granulomatosis Induced by Leukotriene Receptor Antagonists/E.** Albaddawi, A. Ammar, R. Khan, W. Nasser, Orlando, FL, p.A3006
- P639 Granulomatosis with Polyangiitis Presenting as Erosive Polyarthritis Mimicking Rheumatoid Arthritis/S.** Lohani, N. Tachamo, S. Nazir, A. Donato, Wyomissing, PA, p.A3007
- P640 A Pulmonary Prodrome of Anti-PL7 Positive Anti-Synthetase Syndrome/D.K.** Zielke, J.E. Howe, Lebanon, NH, p.A3008
- P641 Sometimes It Can Be Lupus: Diffuse Alveolar Hemorrhage (DAH) in SLE/H.** Dharia, D. Markabawi, M. Dogra, D. Savici, Syracuse, NY, p.A3009
- P642 Generation of cDNA Library Encoding GM-CSF Autoantibody Sequences in Autoimmune Pulmonary Alveolar Proteinosis by Next Generation Sequencing/K.** Nakata, Niigata, Japan, p.A3010
- Facilitator:** S.K. Danoff, MD, PhD, Baltimore, MD
- P643 Nocardia Survival and Virulence in Pulmonary Alveolar Proteinosis/C.** McCarthy, M. Crist, J.C. Gardner, D. Black, P.I. Arumugam, M. Wessendarp, T. Suzuki, C. Chalk, B.C. Carey, B.C. Trapnell, Cincinnati, OH, p.A3011
- P644 Eosinophilic Granulomatosis with Polyangiitis Patient Characteristics and Clinical Response to Mepolizumab Compared to Placebo/J.** Steinfeld, S. Mallett, J. Brown, E.S. Bradford, S. Yancey, M. Wechsler, King of Prussia, PA, p.A3012
- P645 Clinical Utility of Serial Measurements of Antineutrophil Cytoplasmic Antibodies Targeting Proteinase 3 by Automated Bead-Based Assay/G.** Thompson, L. Fussner, A.M. Hummel, D.R. Schroeder, F. Silva, M.R. Synder, G.S. Hoffman, C.G.M. Kallenberg, C.A. Langford, P.A. Merkel, P.A. Monach, P. Seo, R.F. Spiera, E.W. St. Clair, J.H. Stone, U. Specks, Rochester, MN, p.A3013
- P646 Myeloperoxidase-Antineutrophil Cytoplasmic Antibody in Patients with Idiopathic Interstitial Pneumonias/H.** Hozumi, H. Yasui, Y. Suzuki, M. Kono, M. Karayama, K. Furuhashi, N. Enomoto, T. Fujisawa, N. Inui, Y. Nakamura, T. Suda, Hamamatsu, Japan, p.A3014
- P647 Multidisciplinary Analysis of Thoracic Lesions in Patients with Systemic Lupus Erythematosus: A Retrospective Multicenter Study/N.** Enomoto, R. Egashira, K. Tabata, M. Hashisako, Y. Waseda, T. Ishizuka, S. Watanabe, K. Kasahara, S. Izumi, A. Shiraki, A. Miyamoto, K. Kishi, T. Kishaba, C. Sugimoto, Y. Inoue, K. Kataoka, Y. Kondoh, Y. Tsuchiya, T. Baba, M. Kitani, H. Sugiura, T. Tanaka, H. Sumikawa, T. Suda, Hamamatsu, Japan, p.A3015
- P648 Small Airway Disease a Potential Feature of Scleroderma Lung Disease/L.** Pourzand, G.H. Kim, F. Abtin, D.P. Tashkin, J. Goldin, Los Angeles, CA, p.A3016
- Facilitator:** V. Cottin, PhD, MD, Lyon, France
- P649 Re-Evaluation of the Parenchymal CT Features of Scleroderma Lung Disease Using Volumetric HRCT/L.** Pourzand, G.H. Kim, F. Abtin, D.P. Tashkin, J. Goldin, Los Angeles, CA, p.A3017
- P650 Serum Cytokine Profiles of Patients with Interstitial Lung Diseases in Amyopathic Dermatomyositis with Anti-MDA-5 Antibody/T.** Takada, K. Yoshizawa, K. Asakawa, T. Sakagami, T. Kikuchi, S. Sato, Niigata, Japan, p.A3018
- P651 Clinical Relevance of Antinuclear Antibodies (ANA) in Patients with Hypersensitivity Pneumonitis (HP): A Single Centre Experience/F.** Bonella, J. Sennekamp, M. Joest, M. Rolke, S. Ohshimo, J. Guzman, C. Taube, U. Costabel, Essen, Germany, p.A3019
- P652 Evaluation of Lung Lesions in LATY136F Mutant Mice/Y.** Waseda, S. Matsui, K. Yamada, K. Mizuguchi, S. Watanabe, K. Ito, M. Zuka, M. Malissen, B. Malissen, M. Kawano, T. Ishizuka, Yoshida-gun, Japan, p.A3020
- P653 Monocyte Count Predicts Survival Across Fibrotic Diseases: A Retrospective Multi-Omic, Multi-Cohort Analysis/M.** Scott, K. Quinn, R. Carroll, S. Chen, J. Denny, N. Shah, P. Khatri, Stanford, CA, p.A7723
- P654 Pulmonary 18F-FDG Up-Take Refines Current Risk Stratification in Non Specific Interstitial Pneumonitis (NSIP)/J.** Porter, T. Win, B. Ganeshan, N. Sreaton, T. Maher, F. Fraioli, R. Endozo, R. Shortman, K. Thielemans, A. Rashidnasba, B. Hutton, P.T. Lukey, A. Groves, London, United Kingdom, p.A7724

THEMATIC POSTER SESSION

B33 COPD: MAINTENANCE THERAPY

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area L (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.**Discussion:** 11:15-12:00: authors will be present for individual discussion

12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: R.C. Balkissoon, MD, Denver, CO

P1325 **Effects of Inhaled Corticosteroids on Distal Airway Inflammation in COPD Patients: The DISARM Study/Y. Cho, K. Yamasaki, F.S.L. Filho, H. Kim, S.W. Ra, D.A. Ngan, S. Tam, S.F.V. Eeden, S. Lam, T. Shaipanich, J.M. Leung, D.D. Sin, Vancouver, Canada, p.A3021**

P1326 **Low Oral Bioavailability of RPL554, a First-in-Class Dual PDE3/4 Inhibitor, Demonstrates that Its Nebulized, Inhaled Formulation Is Appropriate for Delivering Optimal Pulmonary Dose/K.B. Newman, M. Armstrong, B.T. Maurer, J. Ayrton, R. Causon, London, United Kingdom, p.A3022**

P1327 **Assessment of Internal Medicine Residents' Knowledge of Common Inhaler Identification and Operation/D. Chin, J. Kelly, M. Kiazand, A. Perez, Pittsburgh, PA, p.A3023**

P1328 **Inhaler Use Confidence and Treatment Adherence Among Chronic Obstructive Pulmonary Disease Patients Using Neohaler®: Analysis of Physician Perceptions from a US Survey/V. Ganapathy, C. Dembek, M. Small, K. Rajagopalan, Marlborough, MA, p.A3024**

P1329 **Seebri™ Neohaler® (Glycopyrrolate) Versus Placebo in Patients with Moderate to Severe COPD: Analysis of Health-Related Quality of Life (HRQoL) from the GEM1 Study/G. Feldman, C. Dembek, K. Rajagopalan, Spartanburg, SC, p.A3025**

P1330 **Seebri™ Neohaler® (Glycopyrrolate) Versus Placebo in Patients with Moderate to Severe COPD: Analysis of Health-Related Quality of Life (HRQoL) from the GEM2 Study/E.M. Kerwin, C. Dembek, K. Rajagopalan, Medford, OR, p.A3026**

P1331 **Revefenacin, a Long-Acting Muscarinic Antagonist (LAMA), Does Not Prolong QT Interval in Healthy Subjects: Results of a Placebo- and Positive-Controlled Thorough QT Study/M. Borin, C. Barnes, B. Darpo, S. Pendyala, D. Bourdet, South San Francisco, CA, p.A3027**

Facilitator: M.T. Dransfield, MD, Birmingham, AL

P1332 **Impact of Patient Age on the Efficacy and Safety of Inhaled Umeclidinium/Vilanterol in Chronic Obstructive Pulmonary Disease: A Post Hoc Analysis/M.J. Asmus, R. Ray, I. Naya, I. Boucot, C. Compton, Research Triangle Park, NC, p.A3028**

P1333 **Population Pharmacokinetic Analysis of Single Inhaler Triple Therapy (ICS/LAMA/LABA) Versus Dual Therapy (LAMA/LABA and ICS/LABA) in Patients with Symptomatic COPD: Combined Results from Three Phase III Trials/R. Mehta, C. Farrell, S. Kilbride, C.-Q. Zhu, J. Brooks, F. Barnhart, R. Birk, D.A. Lipson, Durham, NC, p.A3029**

P1334 **Risk of Pneumonia and Exacerbations with Single Inhaler Extrafine Triple Therapy Compared to Indacaterol/Glycopyrronium: Post-Hoc Analysis of the TRIBUTE Study/M. Scuri, D. Singh, L.M. Fabbri, A. Guasconi, S. Vezzoli, H. Prunier, A. Muraro, S. Petruzzelli, A. Papi, Parma, Italy, p.A3030**

P1335 **Effectiveness and Safety of Direct Switch to Indacaterol/Glycopyrronium from Previous Treatments in Patients with Moderate-to-Severe COPD: The POWER Study/A. Mclvor, K.R. Chapman, S.M. Anees, I. Mayers, D. Rochdi, M. Djandji, D. Prefontaine, A. Kaplan, Hamilton, Canada, p.A3031**

P1336 **Efficacy of Indacaterol/Glycopyrronium Versus Salmeterol/Fluticasone by Gender in Patients with Moderate-to-Very severe COPD: Analyses from the FLAME Study/J.A. Wedzicha, D. Singh, K. Kostikas, S. Shen, R. Fogel, S. Fucile, P. Goyal, K. Mezzi, London, United Kingdom, p.A3032**

P1337 **Absorption, Distribution, Metabolism, and Excretion of Revefenacin, a Long-Acting Muscarinic Antagonist (LAMA), in Healthy Male Subjects/D. Bourdet, S. Yeola, P.-J. Colson, S. Pendyala, C.N. Barnes, M. Borin, South San Francisco, CA, p.A3033**

P1338 **Device-Specific Suboptimal Peak Inspiratory Flow Rates Are Common in Chronic Obstructive Pulmonary Disease/S. Ghosh, R.A. Pleasants, J.F. Donohue, J.A. Ohar, M.B. Drummond, Chapel Hill, NC, p.A3034**

Facilitator: B.J. Make, MD, Denver, CO

P1339 **Safety of Tiotropium/Olodaterol in Chronic Obstructive Pulmonary Disease: Pooled Analysis of Three Large, 52-Week, Randomized Clinical Trials/G.T. Ferguson, R. Buhl, A. de la Hoz, U. Bothner, F. Voss, A. Anzueto, P.M. Calverley, Farmington Hills, MI, p.A3035**

P1340 **Incidence of Chronic Obstructive Pulmonary Disease Symptom-Defined Exacerbations: Exploratory Analysis from a Long-Term Open-Label Active-Controlled Safety Trial of Nebulized Glycopyrrolate/eFlow® CS/E.M. Kerwin, V. Ganapathy, L. Murray, K. Rajagopalan, Medford, OR, p.A3036**

P1341 **LAMA/LABA Fixed Combinations for COPD Management: A Systematic Comparative Review/P. Rogliani, F. Braido, L. Calzetta, M. Cazzola, E.M. Clini, G. Pelaia, A. Rossi, N.A. Scichilone, F. Di Marco, Roma, Italy, p.A3037**

P1342 **Use of Pulmonary Function Testing to Predict Successful Inhaler Device Technique/B.A. Kelly, A.L. Martitovos, Detroit, MI, p.A3038**

P1343 **Safety Profile of Roflumilast in a Real Life Experience/A. Cilli, H. Dirol, H. Bal, Antalya, Turkey, p.A3039**

P1344 **A Randomized, Double Dummy, Crossover Study Comparing the Bronchodilator Effect of Formoterol Administered by Nebulizer Versus Dry Powder Inhaler in Patients Recovering from Severe Exacerbations of Chronic Obstructive Pulmonary Disease/S. Baveja, B. Akpa, J. Ferris, S. Amin, M. McCormack, E. Heidel, R. Dhand, Knoxville, TN, p.A3040**

P1345 **Single Inhaler Extrafine Triple Therapy Improves Clinical Outcomes in Gold B COPD Patients: Post-Hoc Analysis of the Tribute Study/M. Scuri, D. Singh, L.M. Fabbri, A. Guasconi, S. Vezzoli, H. Prunier, A. Muraro, S. Petruzzelli, A. Papi, Parma, Italy, p.A3041**

Facilitator: J.F. Donohue, MD, Chapel Hill NC

P1346 **Long-Term Consequences of Clinically Important Deterioration in Patients with Chronic Obstructive Pulmonary Disease Treated with Twice-Daily Inhaled Corticosteroid/Long-Acting β_2 -Agonist Therapy: Results from the TORCH Study/I. Naya, M.T. Driessen, V. Paly, N. Gunsoy, N. Risebrough, A. Briggs, A.S. Ismaila, Brentford, United Kingdom, p.A3042**

P1347 **Single Inhaler Extrafine Triple Therapy Vs Indacaterol/Glycopyrronium in COPD Patients Previously Treated with LABA/LAMA: Post-Hoc Analysis of the Tribute Study/M. Scuri, D. Singh, L.M. Fabbri, I. Valente, A. Guasconi, S. Vezzoli, H. Prunier, G. Cohuet, A. Muraro, S. Petruzzelli, A. Papi, Parma, Italy, p.A3043**

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- P1348 Failure of Removal of Inhaled Corticosteroids in Patients with Chronic Obstructive Pulmonary Disease in a Clinical Setting/** F. Pyrali, A.S. Calzadilla, K. Medepalli, M.A. Campos, Miami, FL, p.A3044
- P1349 Efficacy and Safety of Long-Acting β -Agonist/Long-Acting Muscarinic Antagonist Combinations Compare to Long-Acting β -Agonist/ Inhaled Corticosteroid Combinations: A Network Meta-Analysis/**T. Said Ahmed, M. Al-Sarie, K. Srour, S. Rygielski, F. Ye, D.-A. Hernandez, Toledo, OH, p.A3045
- P1350 Reduction in Fatal Events with ICS-containing Medications: Results of Safety Pooled Analysis from the TRILOGY, TRINITY and TRIBUTE Studies/**M. Scuri, L.M. Fabbri, D. Singh, N. Roche, M. Corradi, G. Alessandro, M. Isabella, H. Prunier, G. Cohuet, S. Vezzoli, S. Petruzzelli, A. Papi, Parma, Italy, p.A7725
- P1351 Extrafine Formulation of Beclometasone Dipropionate, Formoterol Fumarate, Glycopyrronium (BDP/FF/G) and Exacerbation Recurrence: Post-Hoc Analysis of the TRINITY Study/**M. Scuri, L.M. Fabbri, D. Singh, J. Vestbo, M. Corradi, A. Guasconi, I. Montagna, G. Cohuet, S. Vezzoli, S. Petruzzelli, A. Papi, Parma, Italy, p.A7726
- P1352 Salmeterol Combined with Fluticasone Reduces Exacerbations More Effectively in Chronic Bronchitis Associated with Chronic Obstructive Pulmonary Disease: A Post-hoc Analysis of the TORCH Trial/**W. Shapiro, H. Zhao, B.R. Celli, G.T. Ferguson, P.W. Jones, J. Yates, V. Kim, Philadelphia, PA, p.A7727
- P661 A Rare Case of Mitral Valve Libman-Sachs Endocarditis Caused by Antiphospholipid Antibody Syndrome Leading to Diffuse Alveolar Hemorrhage/**R. Hyde, M.C. Runnstrom, A. Anderson, G. Graves, H.M. Alnuaimat, A. Ataya, Gainesville, FL, p.A3051
- P662 Diffuse Alveolar Hemorrhage Necessitating Extracorporeal Membrane Oxygenation Rescue Therapy/**E. Beck, L.M. Keenan, Salt Lake City, UT, p.A3052
- P663 Rapidly Progressive Interstitial Lung Disease in Amyopathic Dermatomyositis: When Skin Meets Lung/**S. Baltaji, K. Patel, S. Shah, M.A. Kalani, M.R. Balaan, Pittsburgh, PA, p.A3053
- P664 Mixed Connective Tissue Disease Manifesting as Unilateral Pleural Effusion/**A.F. Chaudhry, M.E. Faquih, U.L. Obih, E. Flenaugh, R. Sachdeva, M.G. Foreman, Atlanta, GA, p.A3054
- P665 A Catastrophic Presentation of Antisynthetase Syndrome with Rapidly Progressing Interstitial Lung Disease and Its Antibodies/**A. Arthur, A. Alaverdian, East Meadow, NY, p.A3055
- P666 Dual Manifestations of Immunoglobulin G4 Related Disease in Thorax/**S. Subramaniam, H. Mahender, S. Mariappan, Thanjavur, India, p.A3056
- P667 A Case of Granulomatosis with Polyangiitis Masquerading as Fungal Pneumonia/**M. Reback, R. Abdul Rahman, C. Donatelli, R.J. Schilz, Cleveland, OH, p.A3057

Facilitator: K. Milger, MD, Munich, Germany

- P668 DAH: A Rare Presentation of Anca-Associated Vasculitis/**O. Sheriff, Philadelphia, PA, p.A3058
- P669 A Co-Occurrence of Good Pastures Disease and Graves Disease/**G. Stevens, N. Khan, D.G. Washburn, Loma Linda, CA, p.A3059
- P670 Lupus Pleuritis Can Present as an Exudative Loculated Pleural Effusion Mimicking Empyema/**M. Berrou, J. Fussell, P. Almalouf, Mobile, AL, p.A3060
- P671 Bronchiolitis Obliterans from Paraneoplastic Pemphigus Associated with Unicentric Castleman Disease/**J. Koenitzer, K. Tsui, R.R. Hachem, P.R. Aguilar, St. Louis, MO, p.A3061
- P672 Pulmonary Nodular Lymphoid Hyperplasia Associated with Multiple Sclerosis/**D. Kay, D.R. Urbine, Gainesville, FL, p.A3062
- P673 Unusual Presentation of IgG4 Related Disease/**K. Patel, B.E. DiSilvio, O.A. Bajwa, Pittsburgh, PA, p.A3063
- P674 Pulmonary Necrobiotic Mass: A Rare Extra-Intestinal Manifestation of Crohn's Disease/**K.B. Patel, S. Palasamudram Shekar, L. Maric, J.M. Dolan, F. Hernandez, P. Bejarano, N. Martinez, Weston, FL, p.A3064
- P675 Diffuse Alveolar Hemorrhage in ANCA-Negative Pauci-Immune Crescentic Glomerulonephritis: A Rare Case Report/**Y. Eslaamizaad, K. Schaphorst, P. Almalouf, Mobile, AL, p.A3065
- P676 A Case of Acute Interstitial Pneumonia with Autoimmune Features Presenting as Granulomatous Organizing Pneumonia/**G.L. Garrett, I. Sheu, D. Nguyen, S. Gupta, San Francisco, CA, p.A3066
- P677 Why Won't this Pneumonia Go Away/**L.A. Benninger, R.G. Valentin, I. Faruqi, Gainesville, FL, p.A3067

THEMATIC POSTER SESSION

B34 AUTOIMMUNE LUNG DISEASE CASE REPORTS

9:15 a.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER

Area G (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: R. Beckford, MD, Nashville, TN

- P656 Rapidly Fatal Anti Synthetase Syndrome Presenting with Pneumonia/**A. Nayfeh, N. Addasi, J. Macaraeg, N. Jagan, I. Berim, Omaha, NE, p.A3046
- P657 Pulse Steroid Therapy to IPAF: A Case Report/**R.B. Filho, D.B. Takizawa, T.N. Beder, F.E. Arimura, L.P. Vargas, F.M. da Costa, M.R. de Oliveira, B.G. Baldi, R.A. Kairalla, Sao Paulo, Brazil, p.A3047
- P658 A Rare Pulmonary Manifestation of Rheumatoid Arthritis/**H. Li, S. Daouk, A. Shahmohammadi, C. Butler, A. Ataya, Gainesville, FL, p.A3048
- P659 A New Foe: IgG4-Related Disease Presenting as Isolated Pulmonary Nodules/**K. Gupta, D.E. Stover, New York, NY, p.A3049
- P660 Searching for a Cause: Apical Cavitory Lesion in an Immunocompetent Young Adult/**W. Mazalewski, K.N. Cao, Tampa, FL, p.A3050

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- P678 Triple the Trouble: A Case Report**/J. Williams, D. Convissar, E. Rashed, R. Lee, K. Song, Newark, NJ, p.A3068
- P679 Pulmonary Arteritis Mimicking Recurrent Pulmonary Embolism in a Patient with Bechet's Disease**/T. Plush, Philadelphia, PA, p.A3069
- P680 The Benefit of Plasmapheresis on Alveolar Hemorrhage in Pulmonary-Renal Syndrome: A Case of Granulomatosis with Polyangiitis (GPA)**/F. Kukhon, F. Al Shami, A. Minami, I. Grillo, J. Clement, F. Suhail, K. Bartolomei, T. Minami, Pawtucket, RI, p.A3070
- P681 A Case of Sarcoidosis with Symptomatic Pleural Effusion**/A. Ammar, J. Coleman, R. Garcia-Pacheco, Orlando, FL, p.A3071
- Facilitator:** R. Hallowell, MD, Boston, MA
- P682 Bronchial Migration of Pulmonary Arterial Coil**/S. Park, S.Y. Park, Y.H. Choe, S.R. Kim, H.B. Lee, Y.C. Lee, Jeonju, Korea, Republic of, p.A3072
- P683 Granulomatosis with Polyangiitis in a Patient with Non Specific Systemic Signs**/R. Samannan, Z. Smith, J. Keddissi, Oklahoma City, OK, p.A3073
- P684 Shrinking into Thin Air? A Case Report of Vanishing Lung Syndrome**/K. Lam, Stanford, CA, p.A3074
- P685 Sarcoidosis Associated Lambert-Eaton Myasthenia Syndrome in a Patient with Dysphagia and Recurrent Bell's Palsy**/A. Yuen, J. Betancourt, S.S. Oh, Los Angeles, CA, p.A3075
- P686 The Other "Baby Lung": Shrinking Lung Syndrome in the Absence of Confirmed Connective Tissue Disease**/C. Brehm, J.M. Bishop, K. Richardson, D. LoVerde, Winston-Salem, NC, p.A3076
- P687 A Bad Case of Rheumatoid Arthritis: From Cavitory Nodule to Bronchopleural Fistula**/N. Solanki, H.D. Montenegro, Cleveland, OH, p.A3077
- P688 The Narrowing Airway: Relapsing Polychondritis Refractory to Usual Medical Management**/N. Agarwal, C. Hsieh, T. Young, J. Martires, K. Fogelfeld, Los Angeles, CA, p.A3078
- P689 In 'Cysting' on a Diagnosis of Sjögren's Syndrome**/D. Sarode, S. Corral, S. Albear, P.J. Christensen, G. Nair, Royal Oak, MI, p.A3079
- P690 Recurrent Respiratory Failure in a Patient with Chronic Monomyelogenous Leukemia**/D. Herman, L. Fussner, Columbus, OH, p.A3080
- P691 Auto-Pneumonectomy with Compensatory Lobar Hyper-Expansion and Extreme Mediastinal Shift in Granulomatosis with Polyangiitis**/J. Biberston, R.J. Miller, S. Foley, San Diego, CA, p.A3081
- P692 An Atypical Presentation of Cryptogenic Organizing Pneumonia**/W.A. Hayter, M. Aguasvivas, H. Hakeem, K. Patel, Englewood, NJ, p.A3082
- P693 Adalimumab Induced Sarcoidosis and Its Complications**/C. Kyung, S. Mustafa, M. Al-Halawani, A. Cargill, M. Al Ajam, V. Ly, D. Lazaro, Brooklyn, NY, p.A3083

Facilitator: E. Belloli, MD, Ann Arbor, MI

- P694 Flu Vaccine Associated ANCA Vasculitis: A Rare Entity**/K. Hersi, A. Girdhar, S. Afshar-Imani, Y. Sangwan, Salisbury, MD, p.A3084

- P695 A Challenging Case of Granulomatous Lung Disease**/C.R. Pendkar, S. Shankar, S. Nasreen, Brooklyn, NY, p.A3085
- P696 Pyoderma Gangrenosum as the Initial Presentation of Granulomatosis with Polyangiitis**/S. Mayo, B.K. Patibandla, B. Moulton, Portland, OR, p.A3086
- P697 Multiorganic Autoimmune Paraneoplastic Syndrome: Constrictive Bronchiolitis Associated with Paraneoplastic Pemphigus in Follicular Lymphoma**/M.P. Caicedo, D. Cañon, C. Castillo, Bogotá, Colombia, p.A3087
- P698 Beware of the Rare: Fatal Hemoptysis in Hughes-Stovin Syndrome**/U. Chaddha, S. Amba, J. Gonzalez, G. Kanel, C.-F. Chang, Los Angeles, CA, p.A3088
- P699 Unicentric Castleman's Disease Complicated by Paraneoplastic Bronchiolitis Obliterans and Pemphigus**/H.A. Raza, B. Nokes, A. Rosenthal, A.R. Mangold, K. Kelemen, C.E. Jakerst, M.J. Camilleri, R. Cartin-Ceba, Phoenix, AZ, p.A3089
- P700 A Case of Sarcoid Arteritis or Giant Cell Arteritis?**/M. Koslow, V.N. Iyer, R.M. Lindell, J.R. Young, M. Koster, Rochester, MN, p.A3090
- P701 A Case of Alveolar Hemorrhage, ANCA-Associated Vasculitis, and Rheumatoid Arthritis**/B.E. Henkle, H.J. Kim, Minneapolis, MN, p.A3091
- P702 Pulmonary Inflammatory Myofibroblastic Tumor (IMT) with Remarkable Response to Corticosteroids**/Z. Syed, G. Elshimy, M. Hanna, T. Pandya, M.R. Alziadat, A. Sharaan, M. Ismail, R.A. Solis, Paterson, NJ, p.A3092
- P703 Rare Case of Systemic Lupus Erythematosus Shrinking Lung Syndrome in a Young Male Patient**/F.K. Suhail, V. Kaul, R. Mocerino, T.M. McGarry, Great River, NY, p.A3093
- P704 Organizing Pneumonia as Atypical Manifestation of Anti-Glomerular Basement Membrane (Anti-GBM) Disease: Case Report**/L. Fernandez, A. Dominguez, W. Martinez, F. Sanabria, L.F. Sua Villegas, C. Jimenez, C.S. Leib, Cali, Colombia, p.A3094

THEMATIC POSTER SESSION

B35 LUNG TRANSPLANT AND ILD SCIENTIFIC ABSTRACTS: DRUG INDUCED LUNG DISEASE, AUTOIMMUNE LUNG DISEASE

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area G (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion

12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: R.J. Shah, MD, MSCE, San Francisco, CA

- P708 Increased Peribronchiolar and Perivascular Cysteine Protease Activity Is Associated with Bronchiolitis Obliterans Syndrome**/C. Morrone, N.F. Smirnova, N. Kneidinger, M. Mann, H.B. Schiller, O. Eickelberg, A.O. Yildirim, Munich, Germany, p.A3095

- P709** **Pneumatosis Intestinalis and Pneumoperitoneum in Orthotopic Heart and Bilateral Lung Transplant Recipients/D.** Djondo, B. Bemiss, M. Liebo, Maywood, IL, p.A3096
- P710** **Aerosolized Gold Nanoparticles as a Vehicle for Prolonged Donor Lung Treatment/A.** Urso, V. Collico, M. Colombo, F. Meloni, C.B. Damoci, K. Sugahara, F. D'Ovidio, New York, NY, p.A3097
- P711** **Outcomes in Lung Transplant Recipients with Pre-Transplant Mycobacterium Abscessus Infection/A.** Perez, J.P. Singer, M.E. Kleinhenz, R.J. Shah, J.A. Golden, L.E. Leard, A. Venado, P. Chin-Hong, B. Schwartz, J. Kukreja, S. Hays, San Francisco, CA, p.A3098
- P712** **Gastroesophageal Reflux and Associated Microaspiration in Lung Transplant Recipients/J.** Gualdoni, J. Ritzenthaler, J. Burlen, T. Abell, J. Roman, D.R. Nunley, Louisville, KY, p.A3099
- P713** **The Association Between the Low Percentage of Forced Vital Capacity and Increased Mortality After LVAD Operation/** P. Korkmaz Ekren, S. Ertugay, P. Ozturk, A. Ozdil, S. Nalbantgil, C. Engin, T. Yagdi, M. Ozbaran, Izmir, Turkey, p.A3100
- P714** **Post-Transplant Cepacia Syndrome Due to Burkholderia Contaminans/C.** Farrell, P. Riddell, J. Kleinerova, J. Egan, Dublin, Ireland, p.A3101
- P715** **Long-Term Follow-Up of Non CF Bronchiectasis Patients After Lung Transplantation in a Single Brazilian Center/J.P.C.** Serra, R.M. De Jesus, R.A. Athanzio, S.Z. Rached, S.V. Campos, A.N. Costa, J.E. Afonso, R.M. Carraro, R.H.D.O.B. Teixeira, L.M. Fernandes, L.G. Abdalla, M.N. Samano, Sao Paulo, Brazil, p.A3102
- P716** **Prevalence of Pulmonary Hypertension and Outcomes in Patients Undergoing Lung Transplantation/C.** Farrell, O. O'Connell, S.P. Gaine, J. Egan, B. McCullagh, Dublin, Ireland, p.A3103
- P717** **Incidence and Impact of Gallbladder Disease After Lung Transplantation/J.** Chun, C. King, M. Fregoso, L.M. Marinak, O.A. Shlobin, S. Aryal, S.D. Nathan, A.W. Brown, Falls Church, VA, p.A3104
- P718** **All-Cause Mortality Among Lung Transplant Recipients with an Early Post-Transplant Positive Aspergillus PCR Assay/A.** Unterman, Y. Geffen, S. Osnat, B. Pertzov, D. Rosengarten, M.R. Kramer, Petah Tikva, Israel, p.A3105
- P719** **Incidence of Malignancy in the Elderly Lung Transplant Recipients: 10-Year Single Center Experience/G.A.** Fernandez Romero, S. Ocheltree, F.C. Cordova, K.V. Shenoy, C.A. Nieves Prado, G.J. Criner, A.J. Mamary, Philadelphia, PA, p.A3106
- P720** **Incidental Pathological Detection of Malignancy in Lung Transplant Explants: A Single Center Study/D.** Amratia, W.R. Hunt, D. Neujahr, S. Veeraraghavan, Atlanta, GA, p.A3107
- P721** **Joint Analysis of Biomedical and Genomic Data to Characterize Drug-Induced Pulmonary Arterial Hypertension/** M. Sarangdhar, P.B. Nagaraja, A. Jegga, Cincinnati, OH, p.A3108
- P722** **Interstitial Pneumonitis Secondary to Docetaxel Use in Breast Cancer Treatment/U.K.** Ghori, V.S. Ramalingam, I. Bsisu, Milwaukee, WI, p.A3109
- P723** **Peripheral Eosinophilia in Idiopathic Pulmonary Fibrosis - Are There Clinical Implications? A Retrospective Cohort Study of Patients Commencing Antifibrotic Therapy./C.** Hayton, B. Teng, N. Chaudhuri, R. Abdulqawi, C. Leonard, Manchester, United Kingdom, p.A3110
- P724** **The Prediction of Risk Factors of Drug-Induced Lung Complication in Tyrosine Kinase Inhibitor Therapy for Non-Small Cell Lung Cancer/H.** Kang, Goyang, Korea, Republic of, p.A3111
- P725** **Pulmonary Embolism Associated with Clozapine: Systematic Review of Published Cases/S.** Lohani, N. Tachamo, S. Nazir, A. Donato, Wyomissing, PA, p.A3112
- P726** **Acute Pomalidomide-Induced Pulmonary Toxicity/V.** Singh, B.L. Icard, A.L. Loschner, Roanoke, VA, p.A3113
- P727** **Cocaine Associated Organizing Pneumonia: A Fatal Low to Getting High/P.** Shah, A. Tandon, A. Chauhan, E. Nadler, Farmington, CT, p.A3114
- P728** **A Formal Toxicology Study of Inhaled rhGM-CSF in Healthy, Non-Human Primates/B.C.** Carey, P. Terse, S. Haugabook, L. Toney, K. Balakrishnan, G. Sittampalam, C. Chalk, B.C. Trapnell, Cincinnati, OH, p.A3115
- P729** **CT Findings in Patients with Interstitial Pneumonia with Autoimmune Features/S.** Carson, J. Fried, P. Krishnan, P.J. Bergquist, V. Steen, C.A. Reichner, Washington, DC, p.A3116
- P730** **Autoimmune Pulmonary Alveolar Proteinosis: Presentation, Clinical Manifestations and Current Therapeutic Approaches/B.C.** Carey, C. McCarthy, M. Nowell-Bostic, M. Riemann-Klingler, C. Chalk, A. Toth, H.-S. Lee, M. Brelsford, T.S. Wang, J. Krischer, B.C. Trapnell, Cincinnati, OH, p.A3117
- P731** **Do Demographics, Pattern of Lung Disease, Autoantibodies, or Connective Tissue Disease (CTD) Diagnosis Predict the Response of Connective Tissue Disease Related Interstitial Lung Disease (CTD-ILD) Patients to Mycophenolate Mofetil?/J.** Ramzy, R. Townsend, S. Codella, H. Zhao, E.R.A. Narewski, Philadelphia, PA, p.A3118
- P732** **Autoantibodies Associated with Connective Tissue Disease in Interstitial Lung Disease - A Prospective Study/A.** Jee, S. Adelstein, J. Bleasel, L.K. Troy, H. Jo, E. Lau, S. Webster, T.J. Corte, Sydney, Australia, p.A3119
- P733** **Prevalence and Impact of Restrictive Lung Disease in Liver Transplant Candidates/A.** McCormick, M.J. Krowka, K. Forde, C.D. Mottram, P.D. Scanlon, N. Al-Namani, M. Patel, K. Krok, M.B. Fallon, S.M. Kawut, H.M. DuBrock, Philadelphia, PA, p.A3120
- P734** **One-year Outcomes In Lung Transplant (LTx) Patients After ≥7 Days Of Mechanical Ventilation (MV) And Extracorporeal Life Support (ECLS) From The RECOVER Program/E.** Merman, P. Robles, B. Andrade, L. Chu, S. Burns, C. Thomas, A. Matte, G. Tomlinson, C.-W. Chow, T. Martinu, S. Juvet, J. Tikkanen, M. Binnie, L. Singer, D. Rozenberg, J. Granton, E. Fan, L. del Sorbo, S. Keshavjee, M. Cypel, T. Wadell, K. Yasufuku, M. dePerrot, A. Pierre, J. Cameron, M. Herridge, C. Chaparro, Toronto, Canada, p.A7728
- Facilitator:** M. Jones, MD, Southampton, United Kingdom

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

THEMATIC POSTER SESSION

B36 BIOMARKERS IN COPD

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area L (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: R. Kalhan, MD, MS, Chicago, IL

- P1353 Validating Immunoproteasome Activity Profiling In Peripheral Blood Of Healthy Smokers And Copd Patients As A Biomarker Approach Immunoproteasome Activity Profiling In Peripheral Blood Of Healthy Smokers And Copd Patients As A Biomarker Approach/S. Meiners, I.E. Kammerl, A. Schneider, J. Schimmer, M. Frankenberger, A. Koch, Munich, Germany, p.A3121**
- P1354 Untargeted Metabolomics Analysis Identifies Novel Biomarkers for Pulmonary Function in Multi-Ethnic Populations/B. Yu, C. Flexeder, A. Wyss, K.E. North, E. Boerwinkle, H. Schulz, S. London, Houston, TX, p.A3122**
- P1355 High Blood Eosinophils in Acute Exacerbation of Chronic Obstructive Lung Disease Is Not Associated with Higher Risk of Readmission or Mortality/A. Jabarkhil, J. Janner, M. Moberg, N. Eriksen, M. Nymann Pedersen, C. Bjorn Jensen, L.H. Ångquist, J. Vestbo, T. Jess, C. Porsbjerg, Copenhagen, Denmark, p.A3123**
- P1356 Higher Levels of Growth Differentiation Factor 15 (GDF-15) Are Associated with Lower Walking Distance and Exercise Capacity in COPD: An Analysis of the SPIROMICS Cohort/W.W. Labaki, C.H. Martinez, C.M. Freeman, F.J. Martinez, J.M. Wells, S.P. Bhatt, M.T. Dransfield, C.B. Cooper, N. Putcha, N.N. Hansel, E.R. Bleecker, D.A. Meyers, C.S. Pirozzi, R.E. Kanner, R. Paine III, D.J. Couper, W.K. O'Neal, R.G. Barr, P.G. Woodruff, E.J. Ampleford, V.E. Ortega, J.L. Curtis, M.K. Han, Ann Arbor, MI, p.A3124**
- P1357 A Study on the Role of Adiponectin in the Progression of Chronic Obstructive Pulmonary Disease/T. Ibaraki, K. Tomoda, N. Fujjoka, T. Jinta, Y. Yamamoto, M. Yamauchi, M. Yoshikawa, Kashihara, Japan, p.A3125**
- P1358 The Role of Measuring Fractional Exhaled Nitric Oxide in Chronic Obstructive Pulmonary Disease Patients with Frequent Exacerbations/M. Howsare, A. Bhatt, R. Cavallazzi, H.L. Rivas-Perez, Louisville, KY, p.A3126**
- P1359 Could Red Blood Cell Distribution Width and Blood Eosinophils Percentage Predict Exacerbation on COPD?/E. Bessa, A.C. Faria, A.C. Barbosa, N.P. Graca, A. Noronha, M.G. Pio, P.R.C. Coelho, R. Rufino, C.H. Costa, Rio de Janeiro, Brazil, p.A3127**
- P1360 Relationship Between Peripheral Blood Myostatin Levels and Sarcopenia In COPD Patients/S. Yoshida, K. Asai, A. Sugitani, K. Kojima, H. Kubo, Y. Kyomoto, T. Kawamoto, N. Maruyama, N. Ijiri, K. Yamada, T. Watanabe, Y. Tochino, K. Hirata, Osaka, Japan, p.A3128**
- P1361 Persistent Eosinophilia Is Associated with Increased Chronic Obstructive Pulmonary Disease Exacerbations/W. Cheung, G. Hamad, M.G. Crooks, A.H. Morice, Cottingham, United Kingdom, p.A3129**

- P1362 Low Concentrations of 25-Hydroxyvitamin D and Long-Term Prognosis of COPD: A Prospective Cohort Study/Y. Çolak, G. Færk, S. Afzal, B.G. Nordestgaard, Herlev, Denmark, p.A3130**
- P1363 The Relationship Between Mean Corpuscular Hemoglobin Concentration (MCHC) Levels and 30-Day Mortality in Patients with COPD Exacerbation/H. Nakano, Y. Minegishi, H. Machida, K. Sato, M. Kobayashi, M. Nishiwaki, T. Kimura, K. Yamauchi, Y. Tokairin, A. Igarashi, S. Inoue, Y. Shibata, Yamagata, Japan, p.A3131**
- Facilitator:** I.D. Pavord, MD, Oxford, United Kingdom
- P1364 Stability in Inflammatory Biomarkers and Functional Performance in Stable COPD/N. Saiphoklang, R. Marzan-McGill, M. Villareal, M. Dembek, B.A. Dolezal, R. Buhr, N. Hsu, M. Flynn, J. Belperio, C.B. Cooper, I. Barjaktarevic, Pathumthani, Thailand, p.A3132**
- P1365 MMP-7 Levels Is Associated with Emphysema and Airway Obstruction/S. Vijayalekshmy, J. Tsay, X. Jia, T.-A. Yie, K. Bantis, W.N. Rom, New York, NY, p.A3133**
- P1366 Endothelial Microparticles as Potential Biomarkers of Severity and Cardiovascular Impairment in Chronic Obstructive Pulmonary Disease/D. Nieri, M. Daniele, T. Neri, M.A. Roggi, G. Parri, G. De Cusatis, S. Santerini, B. Vagaggini, C. Morizzo, C. Palombo, A. Celi, P. Pagliaro, Pisa, Italy, p.A3134**
- P1367 Prospective Evaluation of Algorithms Based on Blood Biomarkers as Guides for COPD Assessment and Risk Stratification/B. Masters, S.P. Bhatt, G.J. Criner, F.A. Fakh, T.M. Siler, J.E. Herrera, M. Miller, K. Copeland, L. Hesterberg, Billerica, MA, p.A3135**
- P1368 Clinical Utility of Blood Neutrophil-Lymphocyte Ratio in Japanese Patients with Chronic Obstructive Pulmonary Disease/K. Sakurai, S. Chubachi, H. Irie, A. Tsutsumi, N. Kameyama, H. Koh, T. Terashima, H. Nakamura, K. Asano, T. Betsuyaku, Tokyo, Japan, p.A3136**
- Facilitator:** J.M. Bon, MD, MS, Pittsburgh, PA
- P1369 Characteristics and Outcomes of COPD Patients with Blood Eosinophils ≥ 50 Cells/ μ L Who Continue to Exacerbate Whilst Treated with Multiple Inhaler Triple Therapy/H. Müllerová, D. Galkin, F.C. Albers, S.H. Landis, W.H. Meeraus, Uxbridge, United Kingdom, p.A3137**
- P1370 Plasma Acetyl-Proline-Glycine-Proline (AcPGP) and COPD Exacerbation Risk in Chronic Azithromycin Use/P. Schroff, M.T. Dransfield, P. Woodruff, S.C. Lazarus, J.E. Blalock, J.M. Wells, Birmingham, AL, p.A3138**
- P1371 Association of Omega-3 and Omega-6 Fatty Acid Intake with Inflammation and Respiratory Outcomes in COPD/C.M. Lemoine Soto, H. Woo, K. Romero, E. Brigham, M.C. McCormack, G.B. Diette, C. Hanson, A. Fawzy, A. Koch, N. Putcha, N.N. Hansel, Baltimore, MD, p.A3139**
- P1372 Identifying Populations with Severe COPD and Eosinophil Counts ≥ 150 Cells/ μ L/H. Müllerová, E. Simard, G. Mu, B. Hahn, Uxbridge, United Kingdom, p.A3140**
- P1373 Association of Serum Uric Acid Levels and Outcomes of Patients with Chronic Obstructive Pulmonary Disease/J.R.T. Galamay, T.S. De Guia, F.G. Ayuyao, M.E. Limpin, Quezon City, Philippines, p.A3141**

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

THEMATIC POSTER SESSION

B37 INTERVENTIONAL PULMONARY: CASE REPORTS I

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area G (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.**Discussion:** 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators**Facilitator:** M. Weir, MBChB, Philadelphia, PA

- P737 Self Expanding Metallic Stent (SEMS) and Tracheal Erosion/M.A. Megri, I. Shahoub, H. Mezughi, G. Sahay, Y.R. Shweihat, Huntington, WV, p.A3142**
- P738 Removal of Endobronchial Endodontics Equipments with the Help of Flexible Videobronchoscope; Single Centre Experience Catering to Rural and Tribal Population of Central India/D. Muthreja, R. Swarnakar, A. Sontakke, Nagpur, India, p.A3143**
- P739 Recurrent Bilateral Chylothorax in a Patient with Malignant Mesothelioma/S. Brahmandam, G. Hays, Dayton, OH, p.A3144**
- P740 Subtotal Pleurectomy for IgG4 Related Pleural Disease Manifesting as Pleural Thickening/S. Kuperberg, P. Parayno, N.R. Desai, Elk Grove Village, IL, p.A3145**
- P741 Indwelling Pleural Catheter Track Metastasis/A.H. Alraiyes, M. Elrifai, W.S. Jaber, North Chicago, IL, p.A3146**
- P742 Successful Intercostal Arterial Embolization in Management of Hemothorax/A. Rothman, E. Bondarsky, Y.I. Lee, New York, NY, p.A3147**
- P743 A Recurrent Extramedullary Hematopoietic-Related Pleural Effusion Managed with an Indwelling Pleural Catheter/D. Herman, J.N. Allen, Columbus, OH, p.A3148**
- P744 Delayed Bronchial Repair in a Post Empyema Space/K.J. Dullabh, M. Moopanar, R. Madansein, Durban, South Africa, p.A3149**
- Facilitator:** R. Semaan, MD, Pittsburgh, PA
- P745 A Novel Use of Intrapleural t-PA/DNase Therapy for Loculated Chylothorax/B. McKinney, M. Pate, N.W. Todd, A. Papali, Baltimore, MD, p.A3150**
- P746 Massive Alveolar Hemorrhage and Hemoptysis After Percutaneous Lung Biopsy in a Patient with Severe Pulmonary Hypertension/M. Albahhar, N. Ohene-Baah, M. Lazaga, H. Bowers, Augusta, GA, p.A3151**
- P747 Hemorrhage in a Patient Undergoing Bronchial Thermoplasty/M. Patel, J. Thomas, Rancho Mirage, CA, p.A3152**
- P748 Multi-Modality Management of a Lone Mediastinal Silicosis Presenting as an Extremely Rare Case of Chylothorax/K. Hersi, A. Girdhar, S. Afshar-Imani, Y. Sangwan, Delmar, MD, p.A3153**
- P749 Life-Threatening Severe Subglottic Stenosis by Granulomatosis with Polyangiitis/J.-J. Hwang, J.-H. Yoo, B. Chang, S.W. Kang, J. An, M.J. Park, C.W. Choi, Seoul, Korea, Republic of, p.A3154**

- P750 Everything that Wheezes Is Not Asthma: Rare Case of Primary Endobronchial Amyloidoma/A. Lal, J. Akhtar, Y. Chen, Y. Goldman, Worcester, MA, p.A3155**
- P751 Management of Massive Hemoptysis Post Endobronchial Ultrasound and Computed Tomographic-Guided Lung Biopsy in Lung Transplant Patient with Pulmonary Venous Obstruction/S. Cullivan, H.K. Moriarty, J.J. Egan, C.A. Ridge, K. Redmond, O. O'Connell, Dublin, Ireland, p.A3156**
- P752 Make the Definitive Diagnosis: The Importance of Pleural Biopsy in Diagnosing Nonmalignant Pleural Effusions in Cancer Patients/K. Bakhsh, A. Borah, E. Abramian, Philadelphia, PA, p.A3157**
- Facilitator:** B.G. Harvey, MD, New York, NY
- P753 Bronchoesophageal Fistula: A Rare Fatal Complication of Radiation Therapy for Non-Small Cell Lung Cancer/M. Shahzadi, A.Z. Rasheed, L.N. Gerolemou, Brooklyn, NY, p.A3158**
- P754 New Needles New Problems: Two Cases of Broken Sheath/A. Balwan, Augusta, ME, p.A3159**
- P755 Mucus Ball Formation and Pneumomediastinum, an Unusual Complication of Trans-Tracheal Oxygen Catheter (TTO) Placement/A. Shiari, R. Zein, A.D. Dudar, M. Zalt, Detroit, MI, p.A3160**
- P756 Critical Care Endobronchial Ultrasound Bronchoscopy (EUS-B) on 100% FiO2/P.H. Patel, A. Krvavac, V. Kanchustambham, S. Patolia, St. Louis, MO, p.A3161**
- P757 Bronchial Dieulafoy's Disease and Mediastinal Arteriovenous Malformation/A.Z.X. Foo, A. Hsu, Clayton, Australia, p.A3162**
- P758 Early Stent Removal Using Topical Mitomycin C in Patients with Bronchial Stenosis/C. Kim, Y. Ko, H.-S. Nam, G.M. Seong, Jeju-si, Korea, Republic of, p.A3163**
- P759 Use of Vacuum Assisted Closure for Massive Subcutaneous Emphysema/A. Caraganis, S.L. Burton, U. Goswami, H.E. Dincer, Minneapolis, MN, p.A3164**
- P760 Common Carotid Artery-Trachea Fistula: Incidental Migration of Clavicle Fixation Kirschner Wire (K-Wire): A Rare Case/S.Y. Park, S.M. Han, C.W. Kim, D.H. Jeong, Y.H. Choe, S.R. Kim, S.J. Park, Y.C. Lee, H.B. Lee, Jeonjusi, Korea, Republic of, p.A3165**
- Facilitator:** G.Z. Cheng, MD, PhD, Durham, NC
- P761 Therapeutic Bronchoscopy for Massive Aspiration Following Induction of General Anesthesia/T. Tolbert, T.J. Harkin, New York, NY, p.A3166**
- P762 Venovenous Extracorporeal Membrane Oxygenation for Severe Tracheal Stenosis Related Acute Respiratory Failure: Preventing a Fatal Outcome/M. Moizuddin, C.M. Millender, L.B. Tlhabano, L.M. Ross, R. Arya, Columbia, SC, p.A3167**
- P763 Using EBUS to Sample Pulmonary Artery Tumors/S. Saha, E. DeBiasi, A. Ramaswamy, M. Ehtesham, J. Puchalski, Southfield, MI, p.A3168**
- P764 Pulmonary Ossification: Not a Bone of Contention/A. Usmani, M. Mallegos, K. Haas, Chicago, IL, p.A3169**
- P765 Rare Intimal Aortic Angiosarcoma Diagnosed Via Endobronchial Ultrasound Guided Transbronchial Fine Needle Aspiration (EBUS-TBNA): A Case Report/L. Fernandez, D.C. Buenaventura, J.E. Garcia, L.F. Sua Villegas, C.S. Leib, Cali, Colombia, p.A3170**

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- P766** **Winning a Battle, Losing the War: A Case of Bronchoscopic Treatment of Endoluminal Squamous Cell Carcinoma/A.** Balwan, Augusta, ME, p.A3171
- P767** **Interesting Case of Mediastinal Adenopathy/U.K. Ghorji, A.I.** Musani, N. Lateef, A. Haseeb, K. Gaurav, Milwaukee, WI, p.A3172
- P768** **Extranodal Natural Killer/T Cell Lymphoma, Nasal Type: A Rare Pulmonary Presentation/J.** Phillips, S. Thakore, N.A. Ninan, A. Chichra, New Orleans, LA, p.A3173

Facilitator: J. Akulian, MD, MPH, Chapel Hill, NC

- P769** **Successful Removal of a Crab's Scissors Leg Tendon Using Microwave Coagulation Therapy/Y.** Sugimoto, T. Yamamoto, H. Nakano, M. Nakazato, M. Takayama, M. Takayama, Fukuoka, Japan, p.A3174
- P770** **Mediastinal Abscess Following Endobronchial Ultrasound-Guided Transbronchial Needle Aspiration: A Rare but Serious Complication/W.S.** Naji, P. Hegde, Fresno, CA, p.A3175
- P771** **Bypassing the Stent Trial in Tracheobronchomalacia/S.** Niedermeyer, J.B. Smith, G.Z. Cheng, Durham, NC, p.A3176
- P772** **Chest Wall Abscess Ruptures into Post-Radiation Bulla Creating Multiple Bronchopleural Fistulas/M.** Hagner, A.A. Aragaki Nakahodo, S. Benzaquen, Cincinnati, OH, p.A3177
- P773** **A Case of Plastic Bronchitis/J.** Singh, S. Hussain, New Brunswick, NJ, p.A3178
- P774** **Idiopathic Plastic Bronchitis: A Rare Presentation/S.** Shah, M.H. Iftikhar, East Lansing, MI, p.A3179
- P775** **Treatment of Flexible Bronchoscopy for Bronchial Foreign Bodies, A Single-Center Investigation/Y.** Miyashita, H. Takagi, S. Okamoto, R. Koyama, N. Shimada, T. Nagaoka, K. Takahashi, Tokyo, Japan, p.A3180
- P776** **A Case of Bronchial Anthracofibrosis Presenting as a Mimic of Lung Cancer/P.J.** Simpson, D. Patel, J.A. Knapik, M. Jantz, Gainesville, FL, p.A3181

Facilitator: W.A. Bulman, MD, New York, NY

- P777** **Long Term Efficacy of Radio Frequency Ablation for Superficial Lesions of the Tracheobronchial Tree/C.** Steppert, Bayreuth, Germany, p.A3182
- P778** **VV-ECMO Readiness: Justification in Select Interventional Pulmonology Patients/C.** Luce, A. Saeed, E. Torgeson, T. Dettmer, K. Leslie, Albuquerque, NM, p.A3183
- P779** **A Rare Case of Diffuse Idiopathic Pulmonary Neuroendocrine Cell Hyperplasia Diagnosed with Transbronchial Lung Cryobiopsy/Z.G.** Swank, A.A. Aragaki Nakahodo, D. Zander, S. Benzaquen, Cincinnati, OH, p.A3184
- P780** **Palliation of an Unusual Fixed Airway Obstruction/J.** Harvey, G.E. Abraham, Jackson, MS, p.A3185
- P781** **A Case of Posterior Mediastinal Hematoma After a Traumatic Fall/A.** Subramanian, B. Giri, R.J. Long, Temple, TX, p.A3186
- P782** **BAPE, a Rare Cause of Exudate Effusion/E.** Sherman, A. Nepal, O. Chaudhary, G. Trikha, Syracuse, NY, p.A3187

- P783** **Urinothorax: A Rare Complication of Percutaneous Nephrostolithotomy/M.J.** Miles, B. Stysly, J.N. Gonzales, Augusta, GA, p.A3188
- P784** **A 64 Year Old Woman with a Painful Anterior Chest Wall Mass/T.J.** Sjulian, D.D. Nettlow, R.J. Walter, Fort Sam Houston, TX, p.A3189

THEMATIC POSTER SESSION

B38 ISSUES IN UNDERSTANDING AND MANAGING COUGH

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area G (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: S.P. Duffy, MD, Philadelphia, PA
A.A. Petrov, MD, Pittsburgh, PA

- P788** **Sensations Associated with Experimentally Evoked Cough: A Randomised Controlled Trial in Opioid Responders Showing the Efficacy and Modulatory Effects of Low Dose Morphine Sulphate/B.** Al-Shekkly, J. Mitchell, B. Issa, T. Collier, S. Sen, A. Watson, H. Badri, I. Satia, J. Ford, D. Corfield, J.A. Smith, Manchester, United Kingdom, p.A3190
- P789** **Clinical Characteristics of Early Responder of Chronic Cough: Prospective, Observational Cohort Study in Korea/T.J.** An, C.K. Rhee, J.M. Lee, C.K. Park, H.K. Yoon, Seoul City, Korea, Republic of, p.A3191
- P790** **The Multidimensional Cough Index (MCI): a New Tool to Evaluate Patients with Cough/J.** Baddini-Martinez, T. Chinarelli, V. Cardamoni, I.A. Bricoreli, A. Araújo, Ribeirao Preto, Brazil, p.A3192
- P791** **Bronchial Provocation Test with Inhaled Mannitol to Identify Cough Sensitivity in Patients with Cough/J.D.** Brannan, C. Lake, K.H. Wong, H.O. Koskela, New Lambton, Australia, p.A3193
- P792** **GABAB Receptor Mechanisms in Cough: A Double-Blind Randomised Controlled Trial of Lesogaberan in Chronic Cough Patients/H.** Badri, C.L. Gibbard, D. Valdramidou, I. Satia, B. Al-Shekkly, R.J. Dockry, K. Holt, K. McGuinness, S. Treadway, P. Whorwell, L. Houghton, A. Lee, T. Lee, K. Escott, A. Holt, W. Graeme, B.J. Canning, J. Smith, Manchester, United Kingdom, p.A3194
- P793** **Using Bronchial Biopsies and Cultures to Improve the Diagnostic Yield of Bronchoscopy for Chronic Unexplained Cough/M.** Heching, B. Pertzov, D. Rosengarten, A. Unterman, M.R. Kramer, Petach Tikva, Israel, p.A3195
- P794** **The Randomized, Double-Blind, Placebo-Controlled Study of Efficacy and Safety of Propolis and N-Acetylcysteine Compared to Placebo in Adults in Acute Condition with Sputum Production/D.** Zujovic, V. Zugic, Belgrade, Serbia, p.A3196

P795 Investigating Airway Reflexes by Assessing Capsaicin Evoked Cough Responses in an Allergen Challenge Model of Asthma/I. Satia, R. Watson, T. Scime, R.J. Dockry, P. Mitchell, S.J. Fowler, G.M. Gauvreau, P. O'Byrne, J. Smith, Manchester, United Kingdom, p.A3197

THEMATIC POSTER SESSION

B39 PLEURAL DISEASE: CASE REPORTS I

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area G (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: N. Patel, MD, New York, NY

P799 Bilateral Pneumothoraces Secondary to Leiomyosarcoma Metastatic to the Lungs/R. Mocerino, V. Kaul, J. Jolly, E. Awerbuch, Elmhurst, NY, p.A3198

P800 The Ultrasound Serpent Sign/V. Sharma, M.T. Watanabe-Tejada, H. Li, R. Gueret, J. Bailitz, Chicago, IL, p.A3199

P801 An Exudative Pleural Effusion in Congestive Heart Failure: Time to Broaden the Differential/B. Seth, S. Belok, F. Schembri, Boston, MA, p.A3200

P802 Secondary Spontaneous Pneumothorax as a Complication of Pulmonary Embolism/O. Morim, A. Iakovou, New Hyde Park, NY, p.A3201

P803 Pneumothorax as a Complication of Septic Pulmonary Emboli with Tricuspid Valve Endocarditis/D. Chen, Louisville, KY, p.A3202

P804 An Exudative Urinothorax with Low Creatinine and Low pH/N. Maniar, H. Karnib, B.A. Jalil, H.L. Rivas-Perez, Louisville, KY, p.A3203

P805 Exudative Pleural Effusion as the Only Manifestation of Ovarian Hyperstimulation Syndrome/H.A. Badi, F. Solorio, Y. Abdel-Aziz, S. Rehman, E. Klada, Toledo, OH, p.A3204

Facilitator: B. Quon, MD, MBA, Vancouver, Canada

P806 Rare Cause of Recurrent Unilateral Pleural Effusion/A. Ganesh, S. Behera, Wheeling, WV, p.A3205

P807 Chylothorax: The NTM Way!/M.A. Saeed, V.B. Wookey, J.D. Dickinson, Omaha, NE, p.A3206

P808 A Rare Case of Disseminated Pulmonary Streptococcus Constellatus Infection in an Immunocompetent Host with No Risk Factors/A. Fried, A. Rahma, M. Ali, J. Baskaran, R. Vivekanandan, Omaha, NE, p.A3207

P809 A Rare Case of Thoracic Endometriosis Presenting with Hemopneumothorax/X. Yang, D. Steiger, L. Miyakawa, J. Filopei, New York, NY, p.A3208

P810 Birt Hogg Dube Syndrome - A Rare Cause of Recurrent Pneumothorax/V. Jaganathan, S. Subramanian, K. Bharath, S. Chellamuthu, Coimbatore, India, p.A3209

P811 Catamenial Hemothorax a Rare Cause of Recurrent Pleural Effusion/Y.T. Debella, V. Arunthari, M.M. Johnson, C. Vyttilacil, B. Colaco, Jacksonville, FL, p.A3210

P812 An Unusual Etiology for Chronic Progressive Shortness of Breath/C. Varghese, C. Varghese, E.S. Edell, Rochester, MN, p.A3211

Facilitator: W. Shapiro, MD, Philadelphia, PA

P813 Bilateral Enterococcus Empyema and Spontaneous Pneumothorax/S. Wong, K.K. Park, Los Angeles, CA, p.A3212

P814 Bilothorax: Rare Cause of Respiratory Failure After Percutaneous Liver Biopsy/K. Patel, K. Ma, T.J. Cheema, A. Singh, Pittsburgh, PA, p.A3213

P815 But It Is Not Empyema/V. Sharma, H. Li, M.T. Watanabe-Tejada, J. Bailitz, Chicago, IL, p.A3214

P816 A Dilemma in the Etiology for Serositis/M. Krishnan, N. Jagan, Z.S. DePew, Omaha, NE, p.A3215

P817 Unusual Cause of Pneumothorax: Invasive Aspergillosis in an Immunocompetent Host/V. Pathak, J. Winingar, J.R. Lakey, E. Matheis, Raleigh, NC, p.A3216

P818 Welcome to the Dark Side: A Case of Black Pleural Fluid/J. Hirsh, C.T. Erb, W.H. Fares, New Haven, CT, p.A3217

P819 Pleural Lipoma with Secondary Changes - A Diagnostic Challenge/J. Akhtar, A. Lal, K.B. Martin, Worcester, MA, p.A3218

Facilitator: C. Riley, MD, Pittsburgh, PA

P820 Recurrent Pneumothorax in a Woman of Reproductive Age/D. J.O. Rillera, R.-J.R. Guarin, E.V. Tamayo, P.M.P. Rozul, N. Bambalan, Las Piñas City, Philippines, p.A3219

P821 Case of Post-Pericardiotomy (Dressler's) Syndrome After a Thymectomy for Myasthenia Gravis/A. Syed, S. Velani, A. Karim, B.P. Young, Cleveland, OH, p.A3220

P822 TPN: Total Pleural Nutrition - A Rare Complication of Central Line Placement/N. Jagan, C. Landeen, A. Munir, R.W. Plambeck, Omaha, NE, p.A3221

P823 Scleroderma Related Pleural Effusions: Potential Role of CA-125 Levels in Diagnosis/A. Karim, S. Velani, A. Syed, R.J. Folz, C.V. Teba, Cleveland, OH, p.A3222

P824 Massive Hemoptysis as a Complication of Bedside Thoracentesis/R. Masroujeh, B. Alencherry, Cleveland, OH, p.A3223

P825 Persistent Pleural Effusion and Ankylosing Spondylitis: A Case Report/K.M. Eu, K.H. Yap, C.V. Choong, Z. Ng, L. Yick Hou Albert, J.A. Abisheganaden, Singapore, Singapore, p.A3224

P826 Fungus Among Us: A Rare Case of Infected Chylothorax/N. Fitzpatrick, Hershey, PA, p.A3225

Facilitator: J.K. O'Brien, MD, Denver, CO

P827 Pancreatico-Pleural Fistula: A Unusual Complication of Pancreatitis/A.M. Abdul Hameed, R. Mann, K. Hommadov, A. Malik, S. Martell, B. Iriarte-Oporto, P. Bhattacharya, A. Bhardwaj, D. Valentino III, M.J. Korman, Darby, PA, p.A3226

- P828 Primary Effusion Lymphoma Masquerading as a Complicated Pleural Infection/B.D. Salguero, A. Shujaat, New York, NY, p.A3227**
- P829 Inverted Diaphragm: More than Just Pleural Effusion/K. Patel, T.J. Cheema, A. Singh, Pittsburgh, PA, p.A3228**
- P830 Intercostal Herniation of Pleural Fluid in a Patient with Recurrent Pleural Effusion/T.A. Newman, A.K. Brady, J.E. Takasugi, J. Shriki, R. Adamson, Seattle, WA, p.A3229**
- P831 "Sweet" Hydrothorax: An Uncommon Cause of Shortness of Breath/D. Akella, M.U. Ali, R. Patel, C. Geller, Upland, PA, p.A3230**
- P832 Delayed Presentation of Occult Secondary Pneumothorax After Rear-End Collision Without Injury/C. Chan, P. Nystrom, Dayton, OH, p.A3231**
- P833 Rare Diagnosis of Myelomatous Pleural Effusions in Kappa-Light Chain Multiple Myeloma/K.I. Aronson, S.A. Ely, A. Sanders, New York, NY, p.A3232**
- Facilitator:** K.V. Shenoy, MD, Philadelphia, PA
- P834 Recurrent Pleural Effusion 39 Years After Radiation Therapy/V. Pathak, J. Winger, Raleigh, NC, p.A3233**
- P835 Rare Presentation of a Rare Disease/A. Fadda, J.W.S. Mand, Phoenix, AZ, p.A3234**
- P836 Spontaneous Esophageal-Pleural Fistula: A Case Report and Review of Literature/A. Iftikhar, M. Cheema, H. Singh, S. Sahni, P. Upadhyaya, A. Adial, Flushing, NY, p.A3235**
- P837 A Rare Case of Tension Hydropneumothorax from Disseminated Endometriosis/R. Cipriano, J. Chowdhury, Philadelphia, PA, p.A3236**
- P838 Chylous Pleural Effusion: A Rare Complication of Chronic Lymphocytic Leukemia/E.R. Rashed, P. Rattner, S. Kothadia, J. Kim, East Orange, NJ, p.A3237**
- P839 Chylothorax After Coronary Artery Bypass Grafting (CABG): Does Conservative Management with Octreotide and a Medium-Chain Triglyceride Diet Work?/J.A. Kileci, L. Miyakawa, S. Ocasio, A. Astua, New York, NY, p.A3238**
- Facilitator:** I. Barbash, MD, Pittsburgh, PA
- P840 The Air Has to Come from Somewhere: A Case of Spontaneous Isolated Subcutaneous Emphysema/A. Sharaan, M. Hanna, T. Pandya, M.R. Alziadat, J.J. Mathew, Paterson, NJ, p.A3239**
- P841 Misleading Transudative Pleural Effusion in Heart Failure Patient/V. Pathak, J. Winger, Raleigh, NC, p.A3240**
- P842 Are You Sure It's Just Rounded Atelectasis?/D. Baral, A.P. Maskey, Lexington, KY, p.A3241**
- P843 Recurrent Pleural Effusion: A Rare Manifestation of Sarcoidosis/D. Zhang, H.J. Patel, Dallas, TX, p.A3242**
- P844 Pancreaticopleural Fistula: An Obscure Case of Right-Sided Pleural Effusion/R.A.D. Wilson, H.R. Sequeira, R. Scatena, Norwalk, CT, p.A3243**
- P845 Delayed Subcutaneous Emphysema, Pneumomediastinum and Pneumothorax Post Dental Extraction/S. Zaigham, M. Doraiswamy, P.K. Dy, C.D. Patton, Long Branch, NJ, p.A3244**

THEMATIC POSTER SESSION

B40 CLINICAL ISSUES IN COPD I

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area L (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: S. Fortis, MD, Iowa City, IA

- P1375 Impact of Co-Morbid Conditions on the Outcome of Patients Admitted to the Intensive Care Unit with Exacerbation of COPD/ L.N. Saladi, P. Ravi, S. Venkatram, G. Diaz-Fuentes, Bronx, NY, p.A3245**
- P1376 Is Long-Term Clinical Course of Smokers Without Airflow Limitation (Former GOLD 0) Different from GOLD 1 or 2 ? An Analysis from the Hokkaido COPD Cohort Study/N. Takei, M. Suzuki, H. Makita, S. Konno, K. Shimizu, H. Kimura, H. Kimura, M. Nishimura, Sapporo, Japan, p.A3246**
- P1377 Burden of COPD in Italian Women and Men: Results from the MISTRAL Study/R. Vincenti, M.C. De Leonardis, G. Di Marco, M. Marino, M. Dottorini, M. Bartezaghi, P.A. Porgiglia, P. Morini, Livorno, Italy, p.A3247**
- P1378 Impact of Sleep Disturbance on Next-Day Physical Activity in Chronic Obstructive Pulmonary Disease/I. Kim, C.G. Park, U. Bronas, C. Horswill, L. Quinn, E.G. Collins, M.C. Kapella, Chicago, IL, p.A3248**
- P1379 Can High-Flow Nasal Cannula Improve Comfort in Elderly Patients with Acute Respiratory Failure?/H. Makino, H. Nishikawa, Y. Taguchi, T. Kouda, K. Kajiwara, T. Kanematsu, Matsuyama, Japan, p.A3249**
- P1380 Prior Pulmonary Tuberculosis In Chronic Obstructive Pulmonary Disease (COPD) Is Associated with Mortality and Occurrence of Radiological Bronchiectasis/P.Y. Tiew, J.H.Y. Tan, R.Y. Soh, K.L.L. Tan, T.H. Ong, T.S. Lapperre, S.H. Chotirmall, M.S. Koh, Singapore, Singapore, p.A3250**
- P1381 Clinical Features, Management, and Outcome in Patients with Acute Pulmonary Embolism and a History of COPD/G. Barmaimon, J. Filopei, E. Bondarsky, B. Kim, D. Steiger, New York, NY, p.A3251**
- Facilitator:** N. Marchetti, DO, Philadelphia, PA
- P1382 In-Patient Sleep Quality During Nasal High Flow Therapy in Chronic Hypercapnic COPD Patients/G. Nilius, U. Domanski, M. Schröder, S. Tatkov, Hagen, Germany, p.A3252**
- P1383 Effect of Positive Airway Pressure (PAP) on the Daily Burden of COPD Respiratory Symptoms in Patients with COPD and OSA/R. Criner, A.J. Criner, K. Rybicki, H. Smith, G.J. Criner, Ann Arbor, MI, p.A3253**
- P1384 The Association Between Forced Expiratory Flow at 25-75% and Obstructive Pulmonary Disease in Obese Patients/A. Jose, G. Al-Helou, A.W. McLean, K. Omar, G. Gutierrez, Washington, DC, p.A3254**

- P1385 'pre-COPD'-A Clinical Entity/P.** Sharma, N. Khan, Pittsburgh, PA, p.A3255
- P1386 Emerging Therapies for Treatment of Exacerbations of Chronic Obstructive Pulmonary Disease Associated with Non-Cystic Fibrosis Bronchiectasis/A.S.** Sadigov, A. Bagirzadeh, R. Rzayeva, G. Akhunbayli, Baku, Azerbaijan, p.A3256
- P1387 An Effective Diagnostic Model of ACO in China/A.** Zhou, P. Chen, Y. Chen, Changsha, China, p.A3257
- P1388 The Association Between Epworth Sleepiness Score (ESS) and STOP-BANG Questionnaire in COPD Patients/A.** Alrajeh, Y. Aldabayan, B. Adebajo, K. Akinlabi, S. Mansell, S. Mandal, M. Lipman, J. Hurst, London, United Kingdom, p.A3258

Facilitator: M.G. Foreman, MD, MS, Atlanta, GA

- P1389 Inadequate Cardiovascular Risk Factor Control in COPD Patients/H.M.** Lee, Irvine, CA, p.A3259
- P1390 Exacerbation Rates in COPD Patients Receiving Maintenance Therapy: A Retrospective Analysis of Two Observational Cohorts/A.** Anzueto, H. Müllerová, L. Sansbury, R. Sung, J. Yates, H. Quasny, San Antonio, TX, p.A3260
- P1391 Adherence to Inhaled Therapy and Mortality in COPD/A.** Horner, M. Humenberger, A. Labek, B. Kaiser, R. Frechinger, D. Lang, C. Brock, M. Studnicka, M. Flamm, B. Lamprecht, Linz, Austria, p.A3261
- P1392 Incident Diuretic Drug Use and Adverse Respiratory Events Among Older Adults with COPD/N.** Vozoris, X. Wang, P. Austin, D.E. O'Donnell, S.D. Aaron, T.M. To, A.S. Gershon, Toronto, Canada, p.A3262
- P1393 Patients with Chronic Obstructive Pulmonary Disease Have Increased Risk of Developing Traumatic Brain Injury/T.-H.** Huang, Tainan, Taiwan, p.A3263
- P1394 Respiratory Medications Used in COPD Patients from Seven Latin American Countries: The LASSYC Study/M.** Montes de Oca, A. Casas, A.M.B. Menezes, L. Ugalde Gamboa, L. Ramirez, A. Ramirez-Venegas, L.H. Mendoza, A.M. Lopez, M. Miravittles, Caracas, Venezuela, p.A3264

Facilitator: D.A. Mahler, MD, Hanover, NH

- P1395 Prevalence of Stable Hypercapnic Chronic Obstructive Pulmonary Disease (COPD) - Preliminary Data from the Homevent Registry/M.** Dreher, P.-C. Neuzeret, W. Windisch, D. Busam, G.B. Hoheisel, A. Gröschel, H. Woehrlé, K. Grund, A. Graml, T. Köhnlein, Aachen, Germany, p.A3265
- P1396 Regular Extended Release Morphine For Chronic Breathlessness: A Multi-Centre Double-Blind Randomised Controlled Trial/D.** Currow, S. Louw, P. McCloud, B. Fazekas, J. Plummer, C. McDonald, M. Agar, K. Clark, N. McCaffrey, A. Abernethy, M. Ekstrom, Sydney, Australia, p.A7729
- P1397 Sertraline In Symptomatic Chronic Breathlessness: A Double Blind, Randomised Trial/D.** Currow, S. Louw, J. Hill, B. Fazekas, K. Clark, P. Davidson, C. McDonald, D. Sajkov, N. McCaffrey, M. Doogue, A. Abernethy, M. Agar, Sydney, Australia, p.A7730

- P1398 Prognostic Significance of Non-Obstructive Chronic Bronchitis (NCB) in the General Population: the NHLBI Pooled Cohorts Study/P.** Balte, P.A. Cassano, P. Chaves, D. Couper, P.L. Enright, D. Jacobs, R. Kalhan, R. Kronmal, L.R. Loefer, S. London, R.G. Barr, N. Min, A. Newman, G. O'Connor, J. Schwartz, L.J. Smith, W. White, S. Yende, W. Yimer, E. Oelsner, New York, NY, p.A7731
- P1399 Effects of Roflumilast on Re-hospitalization and Mortality in Patients Hospitalized with a COPD Exacerbation/N.** Marchetti, M.R. Jacobs, H. Zhao, G.J. Criner, Philadelphia, PA, p.A7732
- P1400 New Opportunities for Monitoring Patients with Bronchiectasis/G.** Ignatova, V. Antonov, Chelyabinsk, Russian Federation, p.A7733

THEMATIC POSTER SESSION

B41 CRITICAL CARE: LOST IN THE FLOOD - FLUIDS, MONITORING, AND MANAGEMENT OF SHOCK

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area E (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: T.W. Rice, MD, MSc, Nashville, TN
J.-T.T. Chen, MD, Bronx, NY

- P429 Characteristics of Patients with Vasodilatory Shock in Medical Information Mart for Intensive Care (MIMIC-III) - A Retrospective Study/F.** Zeng, M.E. Gerbasi, G. Oster, A. Grossman, S. Chen, L.S. Chawla, San Diego, CA, p.A3266
- P430 Fluids in Septic Shock (FISSH): A Pilot Randomized Controlled Trial/B.** Rochweg, F. D'Aragon, M. Zeller, T. Millen, P. Austin, M.-H. Masse, S. Mehta, F. Lamontagne, M.O. Meade, G. Guyatt, D.J. Cook, Hamilton, Canada, p.A3267
- P431 Association of Fluid Balance at 72 Hours and Mortality in Septic Patients/S.M.** Eikermann, G. Balakrishnan, J. Chandler, G.H. Howell, Kansas City, MO, p.A3268
- P432 A Model of the Hemodynamic Status of Critically Ill Patients Receiving Fluid Therapy Using Factor Analysis/V.** Sharma, E. Christian, R. Gueret, J. Bailitz, A. Tulaimat, Chicago, IL, p.A3269
- P433 Association Between Intravenous Fluid Administration and Biomarker Trajectory During Prehospital Care/E.** Brant, J. Kennedy, C. Callaway, C. Martin-Gill, D. Yealy, D.C. Angus, C.W. Seymour, Pittsburgh, PA, p.A3270
- P434 Readily Available Clinical Metrics Have Moderate Discriminatory Ability for Hemodynamic Worsening in Patients with Persistent Septic Shock/F.** Farooq, F.M. Celestin, M. Mullanpudi, S. Khalil, L.L. Price, P. LaCamera, Boston, MA, p.A3271
- P435 Ultrasound and Clinical Hemodynamic Assessment of the Critically Ill Patient/V.** Sharma, R. Gueret, J. Bailitz, A. Tulaimat, Chicago, IL, p.A3272

- P436 Evaluation of Heart Function in Non-Fluid Responsive Patients with Septic Shock**/I.S. Douglas, P.M. Alapat, K. Corl, L. Forni, A.L. Holder, D.A. Kaufman, M.M. Levy, G.S. Martin, J. Sahatjian, E.J. Seeley, W.H. Self, N. Shapiro, J.A. Weingarten, A.J. Wolff, D. Hansell, Denver, CO, p.A3273
- P437 Noninvasive Cardiac Output Monitoring in Critically Ill Adults: A Comparison of Bioreactance (NICOM™) with Transthoracic Echocardiography**/M. Abdulmahdi, V. Amaral, A. Skaanland, P. Garcia, Baltimore, MD, p.A3274
- P438 Cardiac Output Measurement Via Bedside Ultrasound Compared to Commercially Available Hemodynamic Monitoring Systems in Septic Shock**/Z.M. Harris, C.M. Long, S. Tunovic, P.N. Chaudhari, A. Chichra, New Haven, CT, p.A3275
- P439 Comparing Cardiac Indices Using Non-Invasive Finger-Cuff and Arterial Pulse Contour Analysis in the Medical ICU**/B.A. Jalil, J. Guardiola, R. Cavallazzi, Louisville, KY, p.A3276
- P440 Passive Leg Raise: Feasibility and Safety of the Maneuver in Patients with Undifferentiated Shock**/E.R. Aquije, W. Toppen, S. Ong, Y. Kao, X. Xu, I. Barjaktarevic, Los Angeles, CA, p.A3277
- P441 Esmolol Infusion in Patients with Septic Shock and Tachycardia: A Prospective, Single-Arm Pilot Study**/S.M. Brown, S. Beesley, M. Lanspa, C. Grissom, E. Wilson, S. Parikh, T. Sarge, D. Talmor, V. Banner-Goodspeed, V. Novack, B.T. Thompson, S. Shahul, Murray, UT, p.A3278
- P447 Pneumococcal Vaccines and Invasive Pneumococcal Disease: Review of Cases Among Previously Vaccinated Patients at a Large County Hospital**/F. Jespersen, K. Gray, K. Overdier, I.S. Douglas, Denver, CO, p.A3283
- P448 Multifocal Reversed Halo Sign Indicates Pulmonary Involvement of Klebsiella Pneumonia Blood Stream Infection**/X. Zhan, Z. Tong, X. Zhai, Beijing, China, p.A3284
- P449 Acinetobacter Baumanni Infection and Colonization Among Pediatric Patients in Pediatric ICU and Other ICUs**/B.J. Kim, W. Bae, K. Kim, H. Lee, E.A. Yang, H.S. Kim, Y.H. Chun, J.-S. Yoon, H.H. Kim, J.T. Kim, Seoul, Korea, Republic of, p.A3285
- P450 Invasive Aspergillus Fumigatus in Immunocompetent Host Complicating Influenza B Infection**/A. Mittal, R.G. Sangani, M. Poling, Morgantown, WV, p.A3286
- P451 Lung Ultrasound and Microbubbles Enhance Aminoglycoside Efficacy in the Lung in E.Coli-Induced Pneumonia and ARDS**/W.L. Lee, M. Sugiyama, H. Raheel, V. Mintsopoulos, N. Goldenberg, J. Batt, L.J. Brochard, M. Kuliszewski, M. Kolios, W.M. Kuebler, H. Leong-Poi, R. Karshafian, Toronto, Canada, p.A3287
- Facilitator:** J.C. Deng, MS, MD, Ann Arbor, MI
- P452 Continuous Enteral Vancomycin Infusion: A Novel Treatment Modality for Severe Clostridium Difficile Colitis**/O. Rahman, E. Hutchison, H. Peters, M. Wack, J. Hiles, M. Sohail, Indianapolis, IN, p.A3288
- P453 Antimicrobial Use in Intensive Care Units Across Ontario, Canada: A Population-Based Study**/E. Lee, M. Steinberg, C.M. Bell, M.E. Detsky, A.M. Morris, Toronto, Canada, p.A3289
- P454 Cefiderocol (S-649266) for Nosocomial Pneumonia Caused by Gram-Negative Pathogens: Study Design of APEKS-NP, a Phase 3 Double-Blind Parallel-Group Randomized Clinical Trial**/Y. Matsunaga, R. Echols, T. Katsube, Y. Yamano, M. Ariyasu, T.D. Nagata, Florham Park, NJ, p.A3290
- P455 The Treatment of Pneumonia at a VA MICU**/W. Rodriguez, J. Torres-Luna, J. Ramos-Rossy, San Juan, PR, p.A3291
- P456 Combination of a Negative Nasal Swab Plus an Automated Polymerase Chain Reaction (A-PCR) Assay to Rule Out Methicillin-Resistant Staphylococcus Aureus (MRSA) Pneumonia for the Duration of an Intensive Care Unit Stay**/C. Ononye, J. Paonessa, R.D. Shah, B.D. Lizza, C. Qi, M. Malczynski, N. McGuire, R.G. Wunderink, Chicago, IL, p.A3292
- P457 Clinical Experience with Telavancin for the Treatment of Monomicrobial Staphylococcus Aureus Lower Respiratory Tract Infections in Patients: Preliminary Results from the Telavancin Observational Use Registry (TOUR™)**/C. Clay, D. Delaportas, R.K. Shields, Z. Ansari-Orlando, A. Osmukhina, B. Castaneda-Ruiz, San Francisco, CA, p.A3293
- P458 Pneumonia Severity Index Correlates with High RAPID Category Pleural Effusion in the Critically Ill with Pneumonia**/H. Li, M.T. Watanabe, J. Rodriguez, S. Sahni, V. Sharma, Chicago, IL, p.A3294
- P459 Impact of Prior Pulmonary Tuberculosis in Treatment Outcomes of HCAP and CAP Patients in Intensive Care Units**/F. Lin, J.Y. Feng, W.F. Fang, C.L. Wu, C.J. Yu, M.C. Lin, S.C. Ku, C.W. Chen, C.Y. Tu, K.Y. Yang, Kaohsiung, Taiwan, p.A3295

THEMATIC POSTER SESSION

B42 CRITICAL CARE: THE FEVER - INFECTIONS IN THE ICU

9:15 a.m. - 4:15 p.m. **SAN DIEGO CONVENTION CENTER**

Area E (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: G.B. Allen, MD, Burlington, VT
F.E. Arancibia, MD, Santiago, Chile

- P443 High Fever: Etiology, Demographics, and Outcomes**/A. Pearce, R.E. Sell, San Diego, CA, p.A3279
- P444 Thrombocytopenia as a Predictor of Clinical Outcomes in Patients with Bacteremia**/F. Juboori, E. Patel, P. Gregos, K. Webb, K. D'Souza, M. Kalavar, Brooklyn, NY, p.A3280
- P445 Procalcitonin for Predicting Recurrence in Culture-Negative Ventilator Associated Pneumonia**/Y.T.H. Hoang, Ho Chi Minh City, Viet Nam, p.A3281
- P446 Diagnostic Utility of Blood Cultures in the Post Solid Organ Transplant Patient**/A.S. Greenwald, M.R. Pereira, V.K. Moitra, New York, NY, p.A3282

THEMATIC POSTER SESSION

B43 CRITICAL CARE: I STILL HAVEN'T FOUND WHAT I'M LOOKING FOR - IDENTIFYING AND MANAGING SEPSIS

9:15 a.m. - 4:15 p.m. **SAN DIEGO CONVENTION CENTER**
Area E (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: T.S. Valley, MD, MSc, Ann Arbor, MI
G.L. Anesi, MD, MSCE, MBE, Philadelphia, PA

- P461 Diagnostic and Prognostic Utility of the Modified Early Warning Score (MEWS) in the Medical Intensive Care Unit/S. Daouk, A.A. Husain, H.A.M. Fakh, I. Faruqi, Gainesville, FL, p.A3296**
- P462 Do SOFA, qSOFA, and SIRS Predict In-Hospital Mortality in Septic Patients Admitted from the Emergency Department to the Intensive Care Unit in an Urban, Safety Net Hospital?/C. Graziani, A. Mohsin, H. Wu, H. Feng, J.E. Sevransky, A.M. Esper, G.S. Martin, C.C. Polito, Atlanta, GA, p.A3297**
- P463 Relationships Among SIRS, qSOFA, and Sepsis-2 or Sepsis-3 Organ Dysfunction in Emergency Department Patients with Suspected Infection/S. Parashar, K. Lembke, S.O. Simpson, Kansas City, KS, p.A3298**
- P464 What Is Sepsis: Investigating the Heterogeneity of Patient Populations Captured by Different Sepsis Definitions/A.L. Lin, M. Sendak, A. Bedoya, M. Clement, J. Futoma, M. Nichols, M. Gao, K. Heller, C. O'Brien, Durham, NC, p.A3299**
- P465 Updated Validation of a Method to Identify Immunocompromised Patients with Severe Sepsis Utilizing ICD 10 Codes/N. Raya, J.A. Greenberg, S.F. Hohmann, M.Z. David, Chicago, IL, p.A3300**
- P466 1 Year After SEPSIS 3.0: Evaluating the Physicians' Awareness and Knowledge of the New Definition/G. Kamel, S. Patolia, Z. Jamkhana, St. Louis, MO, p.A3301**
- P467 Characteristic and Outcomes of Delayed Intensive Care Unit Admission in Patients with Infection/S.P. Taylor, B.T. Taylor, E.C. Gunn, A. Heffner, C. Karvetski, Charlotte, NC, p.A3302**
- P468 Superiority of Apache IV Versus SOFA & qSOFA in Predicting Mortality in Patients with Sepsis Admitted to the ICU/R. Pattison, A. Shakespeare, S.B. Tanner, K. Zolfaghari, J. Ettlenger, E. Jimenez, H.D. White, A. Arroliga, S.A. Ghamande, Temple, TX, p.A3303**
- P469 Frequency of Effective Early Antibiotic Administration in Culture Positive Sepsis/A. Kaye, S.J. Quinn, V. Esmero, G.D. Peksa, C.R. Ayoub, W. Kowacz, J.R. Mondoza, R. Gueret, J.A. Greenberg, Chicago, IL, p.A3304**
- P470 Timing of Repeated Lactate Measurement in Patients with Septic Shock at Emergency Department/H.J. Lee, S.M. Ryoo, Y.-J. Kim, C.H. Sohn, D.W. Seo, W.Y. Kim, Seoul, Korea, Republic of, p.A3305**

Facilitators: C. Polito, MD, Atlanta, GA
D.L. Hotchkin, MD, MSc, Portland, OR

- P471 Severe Sepsis: Compliance with Protocol Based Fluid Resuscitation/S.A. Blau, R. Spector, White Plains, NY, p.A3306**
- P472 Severe Sepsis: Failure of Protocol-Based Fluid Therapy to Improve Mortality/S.A. Blau, R. Spector, White Plains, NY, p.A3307**
- P473 The Effect of Thiamine on Oxygen Consumption in the Critically Ill: A Randomized Controlled Trial/K.M. Berg, A. Grossestreuer, L. Andersen, M.W. Donnino, Boston, MA, p.A3308**
- P474 The Effect of Beta Agonist on Lactate Kinetics in Patients with Suspected Sepsis/B.T. Taylor, A. Dang, M. Templin, C. Karvetski, S.P. Taylor, Charlotte, NC, p.A3309**
- P475 Sepsis: Age and Initial Lactate Level Affect Survival but Not Gender/R. Spector, S.A. Blau, West Islip, NY, p.A3310**
- P476 Platelet Parameters and Patient Outcomes in Bacteremic and Non-Bacteremic Sepsis/A. Bhatt, T. Mkorombindo, R. Cavallazzi, K. El-Kersh, Louisville, KY, p.A3311**
- P477 A Risk-Factor Derived, Equation-Based Approach as a Predictor for Severe Sepsis/Septic Shock and Associated Clinical Outcomes/C. Willner, P.D. Bozyk, Royal Oak, MI, p.A3312**
- P478 ΔPCO2/ΔO2 Content as a Predictor of Morbidity and Mortality in Critically Ill Patients/B. Saksouk, H.A. Jaliawala, R.J. Bernardo, J.I. Keddissi, Oklahoma City, OK, p.A3313**
- P479 Time Is Toxin: Mitochondrial Dysfunction in Sepsis: A Systematic Review/J.K. Graham, K.M. Stacy, San Diego, CA, p.A3314**
- P480 Bolus Administration of 20% Albumin Combines Hemodynamic Efficacy with Less Adverse Physiological Effects than Crystalloids or 4% Albumin/S. Bihari, U. Wiersema, R. Perry, D. Schembri, T. Wong, D.-L. Dixon, A.D. Bersten, Bedford Park, Australia, p.A3315**
- P481 Albumin 5% Compared to Ringer's Lactate Reduces Lung and Kidney Damage in Experimental Acute Respiratory Distress Syndrome/R. Mendes, M.V. de Oliveira, F.F. Cruz, G. Padilha, C.L. Santos, L.A. Maia, M.V.S. Fernandes, P.C. Olsen, N.N. Rocha, V. Capelozzi, P. Pelosi, P.R.M. Rocco, P.L. Silva, Rio de Janeiro, Brazil, p.A3316**
- P482 Monocyte Distribution Width, A Novel Indicator, Detects Sepsis in High Risk Patients Presenting to the Emergency Department/E.D. Crouser, J. Parrillo, C.W. Seymour, D.C. Angus, K. Bicking, V.G. Esguerra, R. Magari, L. Tejedor, D. Careaga, M. Samsoszuk, Columbus, OH, p.A7733**

THEMATIC POSTER SESSION

B44 CRITICAL CARE: MY ACHY BREAKY HEART-CARDIAC ARREST, CARDIAC SURGERY, AND COMPLICATIONS OF THE HEART IN CRITICAL ILLNESS

9:15 a.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER

Area E (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: E.A. Vail, MD, MSc, New York, NY
E. Fan, MD, PhD, Toronto, Canada

- P484 Vital Sign Monitoring Frequency and Cardiac Arrest Incidence in Hospitalized Patients/P.** Antharam, J.L. Elmer, J.B. Jensen, A. Gallo de Moraes, Rochester, MN, p.A3317
- P485 Heart Rate Variability: Can It Be Used as a Vital Sign in Critically Ill Monitored Patients?/G.L.** Jones, M.V. Kamath, V. Patel, Hamilton, Canada, p.A3318
- P486 Commode Codes: Toilet Related Cardiac Arrest and Telemetry Monitoring/S.** Tyagi, J.R. Beittler, R.E. Sell, San Diego, CA, p.A3319
- P487 Vasopressin During Resuscitation for In-Hospital Cardiac Arrest/L.** Barnes, M.F. Odish, J. Abella, R.E. Sell, J.R. Beittler, San Diego, CA, p.A3320
- P488 CPR Quality and Patient Characteristics Both Contribute to Poor Survival During In-Hospital Cardiac Arrest/T.** Pham, J. Birchak, O. Abdul-Kafi, M. Viner, M. Nehmer, B.R. Rao, A.K. Ardati, D.R. Fraidenburg, Chicago, IL, p.A3321
- P489 Better Outcomes in Rural Emergency Rooms for Out-of-Hospital Cardiac Arrest/K.** Kailasam, P.P. Patel, G.S. Thind, S. Sivsammie, Kalamazoo, MI, p.A3322
- P490 Hypothermia Protocol Compliance in an Urban Tertiary Hospital and the Effect on Outcome/L.L.** Seijo, M. Frank, R.L. Smith, Y. Lee, New York, NY, p.A3323
- P491 Predictors of Favorable Outcomes After Cardiopulmonary Arrest/M.** Frank, L.L. Seijo, Y.I. Lee, New York, NY, p.A3324
- P492 Evaluation of Therapeutic Hypothermia After Cardiac Arrest Due to Shockable and Non-Shockable Rhythm/Y.R.** Ahmad, A. Elantably, S. Shah, E. Stevenson, Salem, MA, p.A3325
- P493 A Comparison of Cardiac Arrest Patients with and Without Anoxic Brain Injury at a Large University Hospital/C.** Yan, K. Bush, R.J. White, M. Trayhan, M. Zand, C. Quill, Rochester, NY, p.A3326
- P494 Impact of Heart Failure Subtype on ICU and Hospital Mortality in Patients Admitted for Non-Cardiac Acute Respiratory Failure Requiring Mechanical Ventilation/H.** Mehta, A. Vaidya, C. Janick, J.A. Weingarten, R. Minkin, Brooklyn, NY, p.A3327

Facilitators: A. Bhardwaj, MD, Philadelphia, PA
S.A. Magder, MD, Montreal, Canada

- P495 Atrial Fibrillation and Pericardial Effusion in Post Cardiothoracic Surgeries Patients: Do We Need More Vigilance?/I.** Ratnani, A. Holyk, F. Bostan, S.R. Surani, Houston, TX, p.A3328
- P496 Higher Susceptibility of Cardiopulmonary Bypass Related Lung Injury in Children with Single Ventricle Physiology Compared to Biventricular Circulation/B.A.** Brooks, A.A. Sochet, P. Sinha, R.J. Freishtat, J.T. Patregnani, Washington, DC, p.A3329
- P497 Association of Coagulation Profile and Adverse Events Among Cardiovascular Surgery Patients with Temporary Epicardial Pacing Wires Removals: A Tertiary Care Teaching Hospital Experience/T.** Loftsgard, R. Bowen, J. Weimer, M. Wright, M. Newcome, V. Igwacho, S. Tran, S. Burfeind, R. Haagensen, J. DeAngelis, B. Koloziej, J. Holst, S. Maltais, R. Kashyap, S. Said, Rochester, MN, p.A3330
- P498 Feasibility of Minimally Invasive Coronary Sinus Catheter Positioning in Cardiac Surgery: A Case-Control Observational Study/G.** Samarani, L. Biavati, N. Molinari, F. Gourcerol, F. Noto, R. Demaria, P. Colson, Montpellier, France, p.A3331
- P499 Time Weighted Lactate as a Predictor of Adverse Outcomes in Acute Heart Failure/G.** Bosso, V. Mercurio, N. Diab, F. Numis, A. Pagano, G. Porta, F. Paladino, G. Guiotto, F. Schiraldi, Naples, Italy, p.A3332
- P500 Reducing the Incidence of Fluid Overload Following Cardiopulmonary Bypass for Congenital Heart Surgery in Infants Less than 6 Months/A.** Chandran, L.A. Ortmann, J.O. Miller, T.C. Benton, M. Miller, D. McKee, B. Duane, J. Affolter, Kansas City, MO, p.A3333
- P501 Angiography in Out of Hospital Cardiac Arrest Without ST-Elevation; Selection Bias Accounts for the Relationship to Survival: A Single Center Retrospective Cohort Analysis/J.** Shaw, G. Schnell, U. Ilftikhar, B. Har, Calgary, Canada, p.A3334
- P502 Risk Factors for New-Onset Atrial Fibrillation During Sepsis: A Systematic Review and Meta-Analysis/N.** Bosch, D.M. Cohen, A.J. Walkey, Boston, MA, p.A3335
- P503 Cardiovascular Complications in Septic Diabetics/R.C.** Wilson, C. Pendley, R.L. Wilson, B. Varghese, G. Patel, R.A. Balk, Chicago, IL, p.A3336
- P504 Comparison of Post-Operative Cardiac Surgery Blood Glucose Management Goals/T.** Vlahu, E. Mancil, V. Amin, B. Menich, S.M. Forsythe, Maywood, IL, p.A3337
- P505 Comparison of Gas Distribution in Patients by Electrical Impedance Tomography Undergoing Different Cardiac Surgery Study/T.** Yuan, Y.C. Liu, M.Y. Bien, H.T. Chang, M.Y. Chang, J.H. Huang, Y.L. Yang, New Taipei City, Taiwan, p.A3338

THEMATIC POSTER SESSION

B45 CRITICAL CARE CASE REPORTS: ACID-BASE, ELECTROLYTES, ENDOCRINE, METABOLIC, AND RENAL ABNORMALITIES

9:15 a.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER

Area K (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: P.B. Desai, MD, Philadelphia, PA
J. Ninan, MD, La Crosse, WI

- P1131 The Ninja of Diabetic Ketoacidosis: A Case Report of Euglycemic Diabetic Ketoacidosis/A.** Lixon, M.R. Hossain, C. Mohan, P.B. Datar, O. Abdulfattah, B. Bhattarai, M.F. Schmidt, J.B. Quist, D. Enriquez, Brooklyn, NY, p.A3339
- P1132 Euglycemic Diabetic Ketoacidosis in a Patient on a SGLT-2 Inhibitor Presenting with Acute Pancreatitis/K.** Badwal, T. Tariq, Kalamazoo, MI, p.A3340
- P1133 An Unusual Case of Cerebral Edema in an Adult Undergoing Treatment for Hyperglycemic Hyperosmolar Syndrome/K.** Gupta, T. Pelleg, A.L. Loschner, S. Ie, Roanoke, VA, p.A3341
- P1134 Thyroid Storm Following Strangulation/R.** Arciniegas Flores, M. Mirsaedi, Miami, FL, p.A3342
- P1135 Crossfit Induced Rhabdomyolysis/T.A.** Cox, C. Castaneda, S. Hapangama, Flushing, NY, p.A3343
- P1136 Intravenous Immune Globulin (IVIG) Administration to Successfully Treat Life-Threatening Ovarian Hyperstimulation Syndrome: A First Report/O.** Rahman, H.M.S. Qurashi, R. Rani, A. Munir, K. Van Ryzin, M. Bruner, Indianapolis, IN, p.A3344
- P1137 Nivolumab: Unusual Cause of Severe Type B Lactic Acidosis/B.** Alkinj, K. Gopalratnam, J.S. Kwon, C. Winterbottom, Bridgeport, CT, p.A3345
- P1138 Management of Extreme Hyperammonemia in a Patient with Cirrhosis and Renal Tubular Acidosis/K.** Phillip, V. Secasanu, J.W. Christman, Columbus, OH, p.A3346
- P1139 Reversible Quadriplegia; Establishing the Diagnosis of Hypokalemic Periodic Paralysis/A.** Mohamed, F. Kukhon, K. Manzoor, Pawtucket, RI, p.A3347
- P1140 Hypothyroid Havoc: A Case of Hypothyroidism Resulting in Compartment Syndrome and Rhabdomyolysis/A.** Egan, L. Karnatovskaia, Rochester, MN, p.A3348
- Facilitators:** A. Montgomery-Yates, MD, Lexington, KY
G. Netzer, MD, Baltimore, MD
- P1141 Acute Renal Failure Due to Pneumoperitoneum/J.C.** Edelson, N. Huprikar, C.V. Edelson, M. Koroscil, S.D. Deas, San Antonio, TX, p.A3349
- P1142 Wunderlich's Syndrome: A Bleeding Catastrophe/M.** Hamid, W. Khan, P. Minhas, U. Sarwar, R. Patel, Abington, PA, p.A3350
- P1143 When an Arterial Blood Gas Analysis Prevented an Unnecessary Cardiac Catheterization/S.** Lohani, S. Nazir, A. Koirala, A. Donato, Wyomissing, PA, p.A3351
- P1144 Wait It Is Not a Lab Error! An Uncommon Case of Serum Ammonia Level Greater than 1000 Millimoles Per Litre and Normal Hepatic Function/H.** Iftikhar, C. Zhang, J. Hehar, P.D. Bozyk, G. Nair, Royal Oak, MI, p.A3352
- P1145 Diffuse Alveolar Hemorrhage After a Nephrectomy... What's the Association?/M.** Ghobrial, A. Chowdhury, Cleveland, OH, p.A3353
- P1146 An Unusual Case of Heroin Induced Central Diabetes Insipidus/H.** Iftikhar, C. Zhang, J. Hehar, G. Nair, Royal Oak, MI, p.A3354
- P1147 Severe Hyperammonemia Caused by Cryptococcal Meningitis/R.** Masroujeh, C.V. Teba, Cleveland, OH, p.A3355
- P1148 Isolated Severe Lactic Acidosis as a Presenting Feature of Pheochromocytoma Crisis/F.** Shaikh, S.J. De Cruz, J.-H. Ku, S. Ahmadi, Los Angeles, CA, p.A3356
- P1149 Inferior Vena Caval Filter Migration Causing Ileo-Caval Thrombosis, Bilateral Renal Vein Thrombosis and Acute Renal Failure/T.** Bekker, G. George, Philadelphia, PA, p.A3357
- P1150 Hyperammonemic Encephalopathy: A Late Complication of Uretersigmoidostomy/M.M.** Munawar, V. Kodadhala, S. Timberline, C. Karodeh, A. Thomas, Washington, DC, p.A3358
- Facilitator:** I. Peltan, MD, MSc, Murray, UT
- P1151 Thyrotoxic Periodic Paralysis and Cardiomyopathy in a Patient with Graves' Disease/A.A.** Abbasi, S.S. Gupta, P. Chandar, S. Shankar, Y. Kupfer, Brooklyn, NY, p.A3359
- P1152 Accidental Hypothermia: Nobody Is Dead Until Warm and Dead/R.** Masroujeh, A. Pandit, A. Syed, Cleveland, OH, p.A3360
- P1153 Thyroid Storm with Concurrent Pheochromocytoma: A Case Report/N.** Pozzessere, J. Mendelson, J. Palminteri, Portland, ME, p.A3361
- P1154 Ticking Clock: A Woman with Life-Threatening Catamenial Angioedema/A.Z.** Rasheed, M. Shahzadi, L.N. Gerolemou, V.P. Vasudevan, F. Arjomand, Brooklyn, NY, p.A3362
- P1155 A Shocking Case of Spontaneous Carcinoid Crisis/D.-V.** Nguyen, G.P. Marelich, Sacramento, CA, p.A3363
- P1156 Septic Cavernous Sinus Thrombosis Complicating Diabetic Ketoacidosis/A.C.** Miller, E. Charbek, R. Farhat, St. Louis, MO, p.A3364
- P1157 Gas in the Urinary Bladder/S.S.** Gupta, R.K.S. Patti, T.S. Yoon, Y. Kupfer, Brooklyn, NY, p.A3365
- P1158 Myxedema Coma Presenting as a Refractory Cardiac Arrest/F.A.** Solorio, Y. Abdel-Aziz, Y. Yoon, Toledo, OH, p.A3366
- P1159 Pregnancy Induced Thyroid Storm with Hepatic Dysfunction/M.** Chopra, J.A. O'Hea, R. GarciaOrr, Phoenix, AZ, p.A3367
- P1160 Diabetic Ketoacidosis and Takotsubo Cardiomyopathy in Hereditary Hemochromatosis/C.R.** Pendkar, B. Shamian, S. Shankar, A. Saradna, Brooklyn, NY, p.A3368

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

P1161 A Unique Case of Acute Multiple Arterial Thrombosis Complicating Diabetic Ketoacidosis/T.H. Gebremariam, A.M. Regassa, C.B. Sherman, N.W. Schluger, Addis Ababa, Ethiopia, p.A3369

Facilitators: S. Bihari, MD, Bedford Park, Australia
T.J. Bice, MD, MSc, Chapel Hill, NC

P1162 Diabetic Ketoacidosis Masquerading as ST-Elevation Myocardial Infarction During Hurricane Irma/B.C. Adkinson, M. Lozier, J. Purow, Fort Lauderdale, FL, p.A3370

P1163 Development of Pyogenic Liver Abscess from Hematogenous Spread from Dental Abscess, Presenting as Diabetic Ketoacidosis/C. Butler, L. Benninger, H. Li, D. Kay, A. Ataya, Gainesville, FL, p.A3371

P1164 Diarrhoea and Vomiting Leading to Metformin Associated Lactic Acidosis: A Case Report/C. Ferguson, Dundonald, United Kingdom, p.A3372

P1165 The Perfect Storm - An Unusual Case of Heat Stroke in a Young Male/V. Tiedemann, H.J. Bachrach, S. Sahni, P.S. Gill, A. Hines, A. Ifikhar, Harlem, NY, p.A3373

P1166 Alcoholic Ketoacidosis: What pH Is the New Low?/T.M. Ferrer Marrero, B. Kelley, J. Truwit, Milwaukee, WI, p.A3374

P1167 An Extreme Case of Life Threatening Metabolic Acidosis and Diabetic Ketoacidosis/D.K. Huluka, M. Khalid, Addis Ababa, Ethiopia, p.A3375

P1168 Purpura Fulminans with Refractory Hyperkalemia/A.M. Shioleno, L. Lief, New York, NY, p.A3376

P1169 High Osmolar Gap Unfigured/H. Rayes, S. Jagadesh, Rochester, MN, p.A3377

P1170 Pancreatic Mass Presenting with Diabetic Ketoacidosis in a Patient with Type 2 Diabetes Mellitus/A. Saradna, R.K.S. Patti, C.R. Pendkar, Y. Kupfer, S.L. Kamholz, Brooklyn, NY, p.A3378

P1171 A Rare Cause of Central Pontine Myelinolysis/A. Khan, M. Lough, D. Dave, H.E. Mohamed, Charleston, WV, p.A3379

P1174 Crisis/D. Padmanabhan Menon, P.E. Lowman, Jacksonville, FL, p.A3381

P1175 Periodic Fevers and Encephalopathy: An Uncommonly Sweet Diagnosis/C. Hsieh, P. Helland, A.M. Ryden, M.R. Chang, Los Angeles, CA, p.A3382

P1176 Severe Hypereosinophilia in a Critically Ill Patient: A Rare and Unique Association with an Aggressive Cancer/N. Poponea, F. Alkhankan, M. Tadros, E. Alkhankan, H. Alkhankan, Pontiac, MI, p.A3383

P1177 What Lies Beneath: Hemophagocytic Lymphohistiocytosis Complicating a Case of Disseminated Histoplasmosis/S. Sangli, R. Carr, P.D. Scanlon, Rochester, MN, p.A3384

P1178 Bilateral Pulmonary Nodules and Intravascular Pulmonary Histiocytosis: A Rare Presentation of Hemophagocytic Lymphohistiocytosis Secondary to Epstein-Barr Virus Infection/Y. Zayed, M. Osman, B. Kheiri, G. Bachuwa, Flint, MI, p.A3385

P1179 Ehrlichia - an Unusual Cause of Hemophagocytic Lymphohistiocytosis/E.M. Wilfong, J.C. Hewlett, V.E. Kerchberger, K.C. Bloch, C.M. Sevin, Nashville, TN, p.A3386

P1180 A Case of Ehrlichia Chaffeensis Induced Hemophagocytic Lymphohistiocytosis/G.H. Lowther, J.L. Chertoff, K. Cherabuddi, M. Zumberg, A. Ataya, Gainesville, FL, p.A3387

P1181 Successful Treatment of Hemophagocytic Lymphohistiocytosis Secondary to Ehrlichia Infection/R. Samannan, D.R. McCaffree, Oklahoma City, OK, p.A3388

P1182 Multi-Organ Failure with Hemophagocytic Lymphohistiocytosis Due to Coexistent Ehrlichia and Epstein-Barr Virus Infections/S. Patel, P. Denoux, A. Manohar, T. Broesecker, A.L. Fernandez, Tallahassee, FL, p.A3389

Facilitator: C. McEvoy, MD, St. Louis, MO

P1183 Hidden in Plain Sight: An Extremely Rare Case of Primary Adrenal Lymphoma Presenting as HLH Syndrome/K. Gandhi, L. Robison, D. Tannehill, Chesterfield, MO, p.A3390

P1184 Hemophagocytic Lymphohistiocytosis in a Patient with Systemic Lupus Erythematosus/N. Jiwa, M. Singh, U. Ibe, D. Ansari, S. Gao, D. Samir, C. D'Souza, R. Beri, Waterbury, CT, p.A3391

P1185 Secondary Hemophagocytic Lymphohistiocytosis in AIDS Associated EBV+ Diffuse Large B-Cell Lymphoma/N. Lin, J.A. Hippensteel, A. Neumeier, Aurora, CO, p.A3392

P1186 Steroid-Responsive Pulmonary Nodules in a Patient with Hemophagocytic Lymphohistiocytosis/C. Ting, C. Kraus, D. Marshall, S. Parikh, R. Woolley, R. Gildersleeve, M. Harrison, B.A. Kelly, Detroit, MI, p.A3393

P1187 A Troubling Trifecta! Case of HIV, HLH and Hodgkin's Lymphoma/K. Vijaykumar, P. Mathur, A. Bansal, Rochester, NY, p.A3394

P1188 Hypereosinophilic Syndromes: A Game of Diagnostic Charades/W. Kareem, U. Chaddha, R.G. Barbers, Los Angeles, CA, p.A3395

P1189 Thrombotic Microangiopathy: A Killer with Many Faces/S. Noronha, D. Brown, Rochester, MN, p.A3396

THEMATIC POSTER SESSION

B46 CRITICAL CARE CASE REPORTS: HEMATOLOGY, ONCOLOGY, RHEUMATOLOGY, AND IMMUNOLOGY

9:15 a.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER

Area K (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: R.S. Stephens, MD, Baltimore, MD
B.L. Ferreyro, MD, Toronto, Canada

P1173 How Low Can You Go? A Unique Management Perspective/P. Nabizadeh, Gainesville, FL, p.A3380

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- P1190** **A Bad Bite: Cat Bite as a Rare Cause of Thrombocytopenic Thrombotic Purpura (TTP)/K. Yashi, J.P.S. Virk, I.G. Amzuta, Syracuse, NY, p.A3397**
- P1191** **In Hospital Spontaneous Splenic Rupture as the Diagnostic Presentation of a Hepatosplenic T Cell Lymphoma/J. Aponte, E. Jirru, K. Hawkins, New York, NY, p.A3398**
- P1192** **A Case of AL Amyloidosis with Negative Abdominal Fat Pad Biopsy in the Setting of High Clinical Suspicion/M.S. Khan, F.M. Khateeb, Z. Khan, A. Moustafa, D.-A. Hernandez, Toledo, OH, p.A3399**
- Facilitator:** S.M. Pastores, MD, New York, NY
- P1193** **Critical Crystals- A Case of Crystal Arthropathy Leading to ICU Admission/C. Shappell, L.M. Kimmig, Chicago, IL, p.A3400**
- P1194** **An Unusual Case of Dyspnea/H. Patel, R. Osipov, S. Gaffney, D. Bynum, J. Vavalle, Chapel Hill, NC, p.A3401**
- P1195** **Nebulized Tranexamic Acid/M. Abdelkader, L. Tudor, York, PA, p.A3402**
- P1196** **Fat Embolism Syndrome: A Rare Complication of Sickle Cell Disease/M. Thorp, J.W. Leatherman, Minneapolis, MN, p.A3403**
- P1197** **Hyper eosinophilic Syndrome Presenting as Chronic Cough Progressing to Multisystem Organ Failure Successfully Treated with Mepolizumab/S. Tseng, E. Savilo, R. Suyyagh, Phoenix, AZ, p.A3404**
- P1198** **Cardiac Lymphoma Presenting as Pericardial Effusion/A. Arjuna, M. Mody, P. Patel, T. Anandarangam, Newark, NJ, p.A3405**
- P1199** **Atypical Presentation of Anti-Neutrophil Cytoplasmic Antibody-Associated Vasculitides in a 71 Year Old African American/B. Ahmad, N. Ganta, F.T. Ogundipe, A. Thomas, Washington, DC, p.A3406**
- P1200** **A Rare Case of Fatal Bilateral Leg Pain and Swelling/J. Laman, M. Mortagy, G. Kousourou, Kalamazoo, MI, p.A3407**
- P1201** **Microscopic Polyangiitis Complicated Due to Mucormycosis/S. Pourshahid, R. Lopez, D. Genin, Jamaica, NY, p.A3408**
- P1202** **Thrombotic Microangiopathy as a Rare Manifestation of Hypertensive Emergency/G.S. Thind, Kalamazoo, MI, p.A3409**
- Facilitator:** C. Gutierrez, MD, Houston, TX
- P1203** **"I'm Sick" How Sick? A Rare Presentation of Autoimmune Crisis/C. Dahn, H. Gandhi, T.T. Bellamkonda, Bronx, NY, p.A3410**
- P1204** **Catastrophic Antiphospholipid Syndrome and Heparin Induced Thrombocytopenia After Pulmonary Vein Isolation Ablation/L. Khalid, T.B.D. Ferreira, O. Sheikh, J.J. Byrnes, Miami, FL, p.A3411**
- P1205** **Everything's Atypical About this Atypical Hemolytic Uremic Syndrome/F. Yousufi, S.N. Mahmood, Washington, DC, p.A3412**
- P1206** **Mimickers of Sepsis: A Case of Shock Secondary to Metastatic Abdominal Angiosarcoma/A.E.H. Chehade, G. Debal, W. Mansour, M.N. Chalhoub, Staten Island, NY, p.A3413**
- P1207** **A Rare Case of Cutaneous Metastasis from Gastrointestinal Adenocarcinoma/K. Young, S. Fountain, G. Chu, Phoenix, AZ, p.A3414**
- P1208** **Intestinal Perforation in a Post-Transplant Lymphoproliferative Disease Patient Starting Rituximab/J. Aponte, E. Jirru, K. Rose, New York, NY, p.A3415**
- P1209** **Severe Hyponatremia, SIADH, and Pericardiac Effusion as Initial Presenting Feature of Non-Hodgkin's Lymphoma/T. Kukkadapu, S. Aribindi, M. Lazaga, T. Dillard, G. Sharma, N. Patel, J. Keshavamurthy, Augusta, GA, p.A3416**
- P1210** **Intravascular Large B-Cell Lymphoma: A Rare Lymphoma with Bewildering Clinical Manifestations/Y. Wakwaya, S.P. Malkoski, Aurora, CO, p.A3417**
- P1211** **Primary Aortogastric Fistula Caused by Ulcerated Gastric Carcinoma Occurring 23 Years After Surgical Treatment for Esophageal Carcinoma/M. Li, S. Chen, W. Xie, Shenzhen, China, p.A3418**
- Facilitator:** L.P. Voigt, MD, New York, NY
- P1212** **A Case of Suspected Metastatic Choriocarcinoma Versus Ectopic Beta-HCG Producing Adenocarcinoma Causing Acute Hypoxic Respiratory Distress and Thyroid Storm/J. Buono, S. Worah, Brooklyn, NY, p.A3419**
- P1213** **Severe Leukemoid Reaction Secondary to Hemorrhagic Shock/G. Samaha, W. Mansour, M. Chalhoub, Staten Island, NY, p.A3420**
- P1214** **Paroxysmal Nocturnal Hemoglobinuria Masquerading as a Vasculitis/J. Prest, M. Hsu, J. Lamb, C. Wright, W.G.G. Carlos, Indianapolis, IN, p.A3421**
- P1215** **Multisystem Organ Failure from Cryoglobulinemia, Precipitated by Therapeutic/S. Mucha, C. Samamras, Cleveland, OH, p.A3422**
- P1216** **A Critically Ill Postpartum Woman with Thrombotic Thrombocytopenic Purpura (TTP) Vs Hemolysis, Elevated Liver Enzymes, and Low Platelets Syndrome (HELLP)/R. Johnson-Paben, N. Lin, R.W. Vandivier, Aurora, CO, p.A3423**
- P1217** **Hyperviscosity Syndrome: A Rare Cause of Multisystem Organ Dysfunction/M. Baskind, R. Hilton, A. Chandar, N. Nagella, New Brunswick, NJ, p.A3424**
- P1218** **Multisystemic Immune Reaction from Lung Cancer Immunotherapy/J.A. Marin-Acevedo, D. Padmanabhan Menon, P.K. Guru, Jacksonville, FL, p.A3425**
- P1219** **Successfully Treated Heparin Induced Thrombocytopenia with Intravenous Immunoglobulin/E. Karem, H.S. Bukamur, H. Mezughi, E. Alkhankan, Y.R. Shweihat, Huntington, WV, p.A3426**
- P1220** **A Rare Case of Thrombotic Thrombocytopenic Purpura Presenting as Non-ST Elevation Myocardial Infarction/Z. Gheith, A. Abulsoaud, K. Satish, Little Rock, AR, p.A3427**

THEMATIC POSTER SESSION

B47 CRITICAL CARE CASE REPORTS: CARDIOVASCULAR DISEASES AND ECHOCARDIOGRAPHY

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area K (Hall A-B2, Ground Level)

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: R.R. Miller, MD, MPH, Murray, UT

P1222 When Bedside Ultrasound Changes the Diagnosis: Extensive Aortic Dissection Presenting as Fever and Septic Shock/S. Barrett, Hershey, PA, p.A3428

P1223 Windows to the Heart: Ultrasonography Facilitates the Early Diagnosis of a Rare Cause of Septic Emboli/S.G. Chulani, T. Ballachanda, Y.Y. Greenstein, Newark, NJ, p.A3429

P1224 Point of Care Echocardiography: An Essential Extension of the Physical Exam in Shock/M. Reaume, C. Di Felice, T. Melgar, Kalamazoo, MI, p.A3430

P1225 Point-of-Care Ultrasonography: An Adjunct to Computed Tomography in Diagnosing a Mediastinal Abscess in the Intensive Care Unit/L.N. Saladi, D. Shaikh, E. Cancio-Rodriguez, M. Adrish, Bronx, NY, p.A3431

P1226 Spontaneous Coronary Artery Dissection in a Young Female with Fibromuscular Dysplasia/A. Thandra, A.S. Jhand, A. Smer, S. Martin, Omaha, NE, p.A3432

P1227 Hemodynamically Stable Asymptomatic Sustained Ventricular Fibrillation in a Patient with Left Ventricular Assist Device/P. Jha, S. Mahboob, P. Macauley, J. Samaroo-Campbell, Brooklyn, NY, p.A3433

P1228 Constrictive Pericarditis Manifesting as Chylous Ascites/Y. Jawed, R.F. Lodato, J.S. Mathews, Houston, TX, p.A3434

P1229 What's that in the Left Ventricle?/K. Eng, I. Britton, L.E. Crotty Alexander, R.E. Sell, San Diego, CA, p.A3435

P1230 Innovative Solutions to an Old Problem: Valve in Valve Procedures for Mitral Valve Re-Stenosis After Rheumatic Heart Disease/J. Lozier, Farmington, CT, p.A3436

P1231 Giant Aortic Dissection Mimicking as Right Pulmonary Embolism/I.A. Lalani, R. Raj, M. Maniar, S.M. Weiner, Long Branch, NJ, p.A3437

Facilitators: D. Pradhan, MD, New York, NY
M.M. Mansour, MD, Stony Brook, NY

P1232 Treatment of Paget-Schroetter Syndrome by Catheter-Directed Thrombolysis and Balloon Venoplasty/D.F. Martin, Y.N. Kothari, Louisville, KY, p.A3438

P1233 Recurrent Hemoptysis Leading to Cardiac Arrest Due to Aortobronchial Fistula/J. Moore, A.M. Cheng, P. Leary, Seattle, WA, p.A3439

P1234 A Rare Case of Loffler's Endocarditis After Initiation of Adalimumab/P. Patel, J.Q. Yin, R.M. Davis, O.I. Ikladios, Peoria, IL, p.A3440

P1235 Acute Cardiac Injury - Airbags Are Not Innocuous/T. Kukkadapu, J. Godsell, S. Taylor, V. Patel, G. Sharma, J. Keshavamurthy, Augusta, GA, p.A3441

P1236 Mechanical Ventilation in Congenital Heart Disease: A Case of Complex Cardiopulmonary Interactions/B. Gerke, G.A. Cortes Puentes, C.R. Bonnicksen, R.A. Oeckler, Rochester, MN, p.A3442

P1237 Refractory Sustained Ventricular Tachycardia (VT) Storm in the Setting of Left Ventricular Cardiomyopathy, Right Ventricular Outflow Tract Tachycardia and Wolf Parkinson White Syndrome/A. Martin, S. Reddy, J.S. Alpert, Tucson, AZ, p.A3443

P1238 Can Trauma Cause Water to Flow Upstream?/J. Sahbaz, A. Zviman, G. Ramani, Baltimore, MD, p.A3444

P1239 Anterior Mediastinal Hematoma and Right Sided Hemothorax from Leaking Saphenous Vein Right Coronary Artery Bypass Graft Aneurysm Due to Incomplete Coiling Masquerading as Right Lower Lobe Pneumonia/Z. Khan, K. Srour, M.S. Khan, A. Moustafa, T. Javaid, Toledo, OH, p.A3445

P1240 Protecting the Way to a Man's 'Beading' Heart; The Novel Use of Antibiotic Impregnated Beads in a Critical Care Unit/A. Khan, A. Golchin, K. Hachey, E. Khan, R. Sabir, Springfield, MA, p.A3446

P1241 A Case of Takotsubo Cardiomyopathy with LVOT Obstruction Caused by Kiesselbach Plexus Cauterization/S.B. Khalid, N. Hawwa, J. Mahmood, F. Vikram, Norfolk, VA, p.A3447

Facilitators: G.A. Schmidt, MD, Iowa City, IA
P. Rali, MD, Philadelphia, PA

P1242 Aorto Right Ventricular Fistula: A Rare Complication Due to Salmonella Enteritidis an Unusual Organism of Prosthetic Valve Endocarditis/A. Gandhi, S. Palasamudram Shekar, A. Hadeh, Weston, FL, p.A3448

P1243 Spontaneous Coronary Artery Dissection in an Anorexic Patient: A Rare and Challenging Case/D. Sedhom, E. Hiltner, C. Patel, J. Prister, New Brunswick, NJ, p.A3449

P1244 Immunosuppressive Therapy Ameliorates Severe Pulmonary Hypertension and Refractory Vasospastic Angina Due to Eosinophilic Granulomatosis with Polyangiitis/S. Tatebe, R. Konno, K. Sugimura, T. Aoki, S. Yamamoto, H. Sato, K. Kozu, T. Shirai, K. Satoh, H. Shimokawa, Sendai, Japan, p.A3450

P1245 When Not to Choose Apixaban: A Case of Apixaban Failure/J. Aponte, J. Salonia, J. Stoeber, A. Shujaat, New York, NY, p.A3451

P1246 Little Fish in a Big Pond: Congenital Heart Disease in an Adult ICU/A. Mertens, M.L. Barrett, Newark, DE, p.A3452

P1247 Eosinophilic Granulomatosis with Polyangiitis Presenting with Cardiac Tamponade/W. Meyer, S.B. Patel, Maywood, IL, p.A3453

P1248 Infective Endocarditis Occurring After Mitral Clip Procedure; A Unique Complication of a Unique Procedure/E. Charbek, M. Reddy, N. Malhotra, Z. Jamkhana, St. Louis, MO, p.A3454

P1249 Infective Endocarditis Presenting with Acute Coronary Syndrome Secondary to Coronary Septic Emboli/A. Sharma, A. Gabriel, R.J. Perez, D. Datta, Farmington, CT, p.A3455

P1250 May the Force Be with You: Acute Aortic Dissection a Rare Complication of Cardiopulmonary Resuscitation/A.A. Khan, B. Pannu, A. Dhillon, N. Sher, S. Saleem, Chicago, IL, p.A3456

P1251 Heart Transplantation for End-Stage Heart Failure Due to Danon Disease/A. Critsinelis, B. Chou, H. Lamba, C. Kurihara, F. Cheema, M. Kawabori, T. Sugiura, R. Delgado, L. Simpson, A. Nair, A. Civitello, T. Rosengart, O.H. Frazier, J. Morgan, Houston, TX, p.A3457

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

Facilitator: J. Espitaleta, MD, San Jose, Costa Rica

- P1252** **Lupus Myocarditis Presenting as Acute Cardiogenic Shock: A Rare Presentation/A.** Rathi, M. Das, R. Singhal, K. Ramasubbu, Brooklyn, NY, p.A3458
- P1253** **tPA or CTA? A Near Disaster/M.** Hamid, A. Ghani, B. Lashari, U. Sarwar, D. Weisman, Abington, PA, p.A3459
- P1254** **Acute Superior Vena Cava Syndrome Causing Vasopressor-Dependent Obstructive Shock/M.L.** Chen, K. Rajwani, M. Schiffman, A. Malhotra, E. Schenck, New York, NY, p.A3460
- P1255** **Unusual Complication of Pulmonary Artery Catheter Placement; Entanglement with ICD Leads/N.** Biru, A.M. Zaaqoq, Washington, DC, p.A3461
- P1256** **Phantoms of the Past: Multiple Organ Dysfunction in a Patient with Tetralogy of Fallot and Relapse of Diamond-Blackfan Anemia/Z.** Imam, Y. Pang, D.T. Keena, Royal Oak, MI, p.A3462
- P1257** **Influenza B Myocarditis with Cardiac Tamponade/D.** Roto, S. Winters, S. Georas, M. Malnoske, Rochester, NY, p.A3463
- P1258** **Something's Gotta Give: A Case of Too Much Heart/T.** Tsang, Norfolk, VA, p.A3464
- P1259** **A Rare Case of Acute Cardiac Tamponade Secondary to Ruptured Pericardial Cyst/T.** Dalia, B.S. Amr, A. Simmons, Kansas City, KS, p.A3465
- P1260** **Love Is in the Air: Case of Spontaneous Pneumopericardium/P.** Krishnan, P. Ramadas, D. Manta, Syracuse, NY, p.A3466
- P1261** **Bradycardia, Renal Failure, AV-Nodal Blockers, Shock, and Hyperkalemia (BRASH) - A New Clinical Syndrome/A.** Golchin, M. Zhou, A.H. Khan, Springfield, MA, p.A3467
- Facilitators:** A.J. Walkey, MD, MSc, Boston, MA
V. Sharma, MD, Chicago, IL
- P1262** **Hidden Fatal Arrhythmia/H.** Gonsalves-Barriero, N. Panzlau, B.M. Reddy, Brooklyn, NY, p.A3468
- P1263** **A Rare Case of Isolated Non-Compaction of the Left Ventricle Diagnosed in an Elderly Patient/J.D.** Parekh, S.P. Kukrety, P. Millner, E. Rainwater, V. Andukuri, Omaha, NE, p.A3470
- P1264** **Cardiac Cryptogenic Shock: Hypo-Perfusion Despite Normal Blood Pressure with a Wide Complex Rhythm/M.K.** Hayat Syed, K.R. Ham, Minneapolis, MN, p.A3471
- P1265** **Myxedema Coma Causing Cardiogenic Shock Treated with a Percutaneous Cardiac Assist Device (A Novel Approach in Management of Cardiogenic Shock in Myxedema Coma)/S.** Brahmandam, J.D. Price, D.R. Nunley, Louisville, KY, p.A3472
- P1266** **Phrenic Nerve Injury - An Infrequent Complication of Catheter Ablation for Atrial Fibrillation/R.K.S.** Patti, S.S. Gupta, S. Patel, F. Yang, Brooklyn, NY, p.A3473
- P1267** **Cardiac Scleromyxedema Causing Cardiogenic Shock and Death/M.C.** Runnstrom, H. Li, G. Graves, D.C. Patel, A. Ataya, Gainesville, FL, p.A3474
- P1268** **Amniotic Fluid Embolism with Acute Cor Pulmonale, Diffuse Intravascular Coagulation and Cardiac Arrest Successfully Diagnosed and Treated with Bedside Ultrasound, a Point-of-Care Lab Guided Massive Transfusion Strategy, and**

Surgical Embolectomy/J.B. Herman, M.V. DeCaro, F.M. West, Philadelphia, PA, p.A3475

- P1269** **Insulin for a Broken Heart/A.** Iardino, O. Garner, F. Lotta, Odessa, TX, p.A3476

THEMATIC POSTER SESSION

B48 CRITICAL CARE CASE REPORTS: STRAIGHT FROM THE HEART - CARDIOVASCULAR DISEASES IN THE ICU

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area K (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion

12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: P.L. Silva, PhD, Rio De Janeiro, Brazil
M. Rahmanian, MD, Bronx, NY

- P1272** **The Way to a Man's Heart Shouldn't Be Through His Esophagus/E.** Landa, A. Pasha, R. Singh, K. Hipp, C. Machado, Southfield, MI, p.A3478
- P1273** **Air in Transit: A Benign Procedure and a Near Fatal Consequence/R.** Postelnicu, V. Mukherjee, New York, NY, p.A3479
- P1274** **From Meth to Methylene Blue: A Unique Case of Vasopressor Refractory Shock/M.** Chopra, N. Shamsid-Deen, R. GarciaOrr, Phoenix, AZ, p.A3480
- P1275** **A Must-Not-Miss Zebra: Unilateral Pulmonary Edema/J.** Ninan, S. Karturi, La Crosse, WI, p.A3481
- P1276** **CRAT! There Are so Many Emboli Everywhere!/H.-I.** Liao, D. Izaguirre-Anariba, N. Tandan, O. Adarkwah, M. Ghanaat, P.A. Mir, Brooklyn, NY, p.A3482
- P1277** **Tumor Mass Effect/K.M.** Calhoun, B.F. Sabath, G.A. Eapen, Houston, TX, p.A3483
- P1278** **Hemothorax After Cardiac Catheterization/A.** Rai, R. Radhakrishnan, D. Cardona, Salem, MA, p.A3484
- P1279** **Spontaneous Coronary Artery Dissection in the Postpartum Period: A Rare Phenomenon/A.** Botsch, S.M. Khoncarly, N. Niraula, Akron, OH, p.A3485
- P1280** **A Case of Salmonella Enterica Aortitis with Saccular Aneurysm and Retroperitoneal Abscesses/A.** Ammar, J. Coleman, G. Petersen, A. Heidari, Orlando, FL, p.A3486
- P1281** **A Case of Esophageal Squamous Cell Carcinoma Presenting as Dysphagia Complicated by Cardiac Tamponade Secondary to Esophagopericardial Fistula/H.A.** Nazir, K. Edebiri, S.V. Donaldson, M. Lindner, C. Pinzon Escobar, A. Arjuna, K. Scatliffe, T.P. Lugo, O.O. Adekolu, A. Al Twal, B. Hanna, C. Migliore, T. Anandarangam, P.S. Patel, Newark, NJ, p.A3487

Facilitator: E.M. Viglianti, MD, MPH, Ann Arbor, MI

- P1282 Left Atrium Wall Rupture Following Watchman Device Placement/B.** Batson, H. Edriss, Lubbock, TX, p.A3488
- P1283 An Unusual Etiology of Ventricular Tachycardia/L.** Chen, Y. Kit, M. Gale, N. Halpern, New York, NY, p.A3489
- P1284 Role of Thromboembolism Screening in Immunocompetent CMV Patients/N.** Narula, S. Ngu, B. Gomez, F.A. Siddiqui, M. Chalhoub, Staten Island, NY, p.A3490
- P1285 An Unorthodox Presentation of Acute Myocarditis/D.** Lai, A. Thomas, N. Ganta, Washington, DC, p.A3491
- P1286 Neostigmine as the Cause of Cardiac Arrest After Elective Total Knee Arthroplasty (TKA) in a Healthy Man/L.** Yung, Z. Khan, M. Bachan, Bronx, NY, p.A3492
- P1287 A Case of Infectious Endocarditis Caused by Streptococcus Constellatus/M.J.** Lau, A. Shenoy, Mineola, NY, p.A3493
- P1288 Ventricular Non Compaction: Part of a Stroke Victim's Dictionary/S.** Khauli, P. Thalanyayar Muthukrishnan, S. Girotra, Madison, WI, p.A3494
- P1289 A Case of Simultaneous Heparin Induced Thrombocytopenia and Disseminated Intravascular Coagulation Complicating Bi-Ventricular Assist Device Management/C.L.** Russell, Z. Siddiqui, New York, NY, p.A3495
- P1290 De Novo Cardiomyopathy in the Critically Ill - Prolonged Acidemia as a Unique Cause/G.** Rizvi, A. Surani, S. Seifu, A. Shah, R. Conti, Baltimore, MD, p.A3496
- P1291 Cardiac Arrest and the Ghost in the Room/F.** Asfahan, A. Abdullah, A. Rander, A. Sharma, H. Ryan, Rochester, NY, p.A3497
- Facilitators:** M.G. Kashiouris, MPH, MD, Richmond, VA
N. Bosch, MD, Boston, MA
- P1292 Double SVC Syndrome/A.** Adial, A. Iftikhar, S. Beri, P. Upadhyaya, H. Patel, Flushing, NY, p.A3498
- P1293 An Unusual Twist: Anomalous Right Coronary Artery Leading to Angina and Syncope/M.** Rofael, C. Feeney, M. Trilesskaya, Oakland, CA, p.A3499
- P1294 Achromobacter Xylosoxidans Endocarditis in a Patient with Mitral Stenosis and Splenectomy: A Coy Diagnosis/B.A.** Hirsh, B. Stone, P.J. Gary, F. Chaparro, E. Tayler, S.A. Gregory, Wynnewood, PA, p.A3500
- P1295 A Rare, Rapidly Progressive, and Fatal Myocarditis/G.** Lin, M. Schivo, Sacramento, CA, p.A3501
- P1296 Hemopericardium Causing Cardiac Tamponade in Patient with Autoimmune Disease and Supratherapeutic INR/J.** Petty, Y. Shen, P. Su, A.C. Boulous, J. Gordon, Pueblo, CO, p.A3502
- P1297 Rapid Onset of Broken Heart Syndrome and Cardiogenic Shock Following Cesarean Section/L.** Yadav, G.S. Thind, S. Edward, Kalamazoo, MI, p.A3503
- P1298 Management of Budd Chiari Syndrome on Novel Oral Anticoagulants with Massive Pericardial Effusion/A.** Subramanian, A.J. Hayek, A. Vazquez-Sandoval, Temple, TX, p.A3504
- P1299 Endocarditis Causing Severe Dehiscence of Prosthetic Mitral Valve Leading to Sudden Death/C.** Bohra, M. Siddique, D. Shin, K. Kongpakpaisarn, Tampa, FL, p.A3505
- P1300 Achy Breaky Heart: A Rare Case of Tension Pneumomediastinum Leading to Cardiovascular Collapse/R.** Sengupta, N.A. Wajda, D. Norton, Cincinnati, OH, p.A3506
- P1301 Loey Dietz Syndrome: A Rare Cause of Coronary Anuerysms/Y.** Jawaid, O. Aqtash, M. Kannan, L. Dial, Huntington, WV, p.A3507
- Facilitator:** A. Van de Louw, MD, PhD, Hershey, PA
- P1302 "Never Event"• Should Never Happen: Retained Guidewire Embolization During Central Venous Catheterization/A.** Mohammed, S. Kooragayalu, R. Gueret, Chicago, IL, p.A3508
- P1303 A Ticking Time Bomb: Aortoenteric Fistula with in the Thoracic Cavity/A.** Yelisetty, H. Patel, M. Arnouk, Brooklyn, NY, p.A3509
- P1304 A Case of Hemoptysis Due to Catheter Associated Bilateral Mycotic Pseudoaneurysms/B.** Tabibian, Houston, TX, p.A3510
- P1305 Nearly Missed: Painless Aortic Dissection Masquerading as Infective Endocarditis/S.** Bhogal, G. Murtaza, E. Josan, T. Bhandari, A. Mahajan, P. Sankhyan, J. Summers, Johnson City, TN, p.A3511
- P1306 A Hidden Etiology of Preventable Heart Failure/M.U.** Ali, M.H. Sattar, J. Finkel, C. Geller, Secane, PA, p.A3512
- P1307 An Unusual Case of Acute Pericarditis with Fatal Cardiac Tamponade: A Blast from the Past!/L.B.** Tlhabano, M. Moizuddin, C.C. Odigwe, J. Krieg, Columbia, SC, p.A3513
- P1308 Non Atherosclerotic Spontaneous Coronary Artery Dissection a Rare Case of Myocardial Infarction in Young Non Pregnant Female/F.** Aparna, V. Taware, C. Gartman, S. Muhammad, T. Muhammad, Chester, PA, p.A3514
- P1309 LVAD Implantation in Patients with Factor V Leiden Mutation/A.** Critsinelis, F. Rubio, C. Kurihara, H. Lamba, F. Cheema, M. Kawabori, T. Sugiura, R. Delgado, L. Simpson, A. Nair, A. Civitello, T. Rosengart, O.H. Frazier, J. Morgan, Houston, TX, p.A3515
- P1310 Warfarin Failure: A Case Report/A.** Amin, D. Shahi, I. Apostolis, S. Kwatra, Youngstown, OH, p.A3516
- P1311 Stage IV MMMT Uterine Cancer with Left Atrial Myxoma Causing Cardiogenic Shock/J.** Barrientos, N. Nguyen, T. Su, G. Barmaimon, A. Rothman, E. Bang, New York, NY, p.A3517
- Facilitator:** D. Kelm, MD, Rochester, MN
- P1312 Rectifying Inconsistent Data: A Case Report of Cardiac Tamponade/B.** Aldrich, P. Martin, Blackfoot, ID, p.A3518
- P1313 Extra-Thoracal Migration of the Nuss Bar: A Very Rare Late Complication/N.L.** Simon, S. Kolvekar, A. Khosravi, London, United Kingdom, p.A3519
- P1314 Atrioventricular (AV) Block as the First Manifestation of Cardiac Sarcoidosis/A.** Kardasheva, Seattle, WA, p.A3520
- P1315 Pulmonary Embolism: The Battle to Save Life in a Poor Resource Setting/G.C.** Mbata, C.O.U. Eke, L.E. Okoli, Owerri, Nigeria, p.A3521
- P1316 A Window in the Heart Is Sometimes a Good Start. It's Not Always Sepsis/H.M.** Al-khalisy, C. Martinez-Balzano, S. Khanal, Syracuse, NY, p.A3522

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- P1317** **Tricuspid Regurgitation: Interference with Resuscitation in Critical Care Units?**/J.P.S. Virk, K. Yashi, A. Shawkat, Syracuse, NY, p.A3523
- P1318** **Failure of Standard ACLS Protocol in Refractory Ventricular Fibrillation Post Cardiac Bypass Surgery**/U. Tariq, R. Khan, T.W. Jones, W. Nasser, Orlando, FL, p.A3524
- P1319** **Purulent Pericarditis: A Case of Sinking Heart**/M.H. Shahid, A. Verma, S. Ghalib, P. Koo, Chattanooga, TN, p.A3525
- P1320** **Right Ventricular Mass with Outflow Obstruction as Initial Manifestation of Metastatic Non-Hodgkin's Lymphoma: A Rare Case with Fatal Outcome**/S. Waghchoure, M. Moizuddin, L.B. Tihabano, J. Krieg, Columbia, SC, p.A3526

THEMATIC POSTER SESSION

B49 OCCUPATIONAL EXPOSURES

9:15 a.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER

Area B (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: K.J. Cummings, MD, MPH, Morgantown, WV

- P77** **Delayed Diagnosis of Silicosis due to Denim Sandblasting in a Female Worker**/B. Kerget, O. Araz, E. Yilmazel Ucar, A. Karaman, F. Alper, M. Akgun, Erzurum, Turkey, p.A3528
 - P78** **Silicosis in a Rutile Mining, Bahia/Brazil**/I.M.M.D. Vasconcelos, J.P.C. Serra, R.M. Jesus, E.M.S. Lombardi, U.P. Santos, Sao Paulo, Brazil, p.A3529
 - P79** **Docosahexanoic Acid Consumption Suppresses Silica-Triggered Ectopic Lymphoid Structure Formation and Autoantibody Responses in the Lungs of Lupus-Prone Mice**/P. Akbari, M. Bates, K. Gilley, A. Freeland, E. Eldridge, Q.-Z. Li, J. Pestka, J. Harkema, East Lansing, MI, p.A3530
 - P80** **Complicated Silicosis Mimicking Primary Lung Malignancy on Imaging**/A.C. Gour, A. Kamath, S. Ashraf, S. Chawla, Mineola, NY, p.A3531
 - P81** **An Unusual Presentation of Chronic Beryllium Disease**/C. He, N. Bouchard, Sherbrooke, Canada, p.A3532
 - P82** **Hard Metal Lung Disease Presenting in a Surface Coal Miner**/S. Gandhi, K. Ferguson, L. Muszynski, R.A. Cohen, Chicago, IL, p.A3533
 - P83** **Recurrent Pulmonary Embolism in a Compost Plant Worker**/A. Lal, J. Akhtar, H. Grewal, J. Popkin, K.B. Martin, Worcester, MA, p.A3534
- Facilitator:** R. Laumbach, MD, MPH, Piscataway, NJ
- P84** **How Are Respiratory Functions and Sleep Quality Affected in Cotton Textile Workers?**/E. Safran, H.N. Gurses, Z. Hosbay, I. Kurt, K. Engin, K. Demir, S.B. Sortoglu, E. Buyukkaya, C. Alan, M. Peksen, Y. Yasasin, Istanbul, Turkey, p.A3535
 - P85** **Cleaning Agent Surfactant, 4-Octylphenol, Activates Airway Sensory Nerves and Triggers Respiratory Symptoms: Role in**

- Occupational Asthma?**/J. Bolaji, S.J. Bonvini, J.J. Adcock, E. Dubuis, M.A. Birrell, M.G. Belvisi, London, United Kingdom, p.A3536
- P86** **Upper Lobe Cystic Lung Disease Mimicking Pulmonary Langerhans Cell Histiocytosis in a Veteran with Burn Pit Exposure**/E.R. Nunez, S.I. Rounds, Providence, RI, p.A3537
- P87** **When the Smoke Clears: Constrictive Bronchiolitis from Gulf War Exposures**/S.W. Robison, J.B. Barney, Birmingham, AL, p.A3538
- P88** **Reducing Leakage of Surgical Masks**/J. Samuel, G.C. Smaldone, Stony Brook, NY, p.A3539
- P89** **Exhaled Air Leakage During Application of a Jet Nebulizer in an Isolation Room with Floor Versus Ceiling Level Exhaust**/D.S. Hui, B. Chow, Y. Li, M. Chan, Shatin, Hong Kong, p.A3540
- P90** **Dental Personnel Treated for Idiopathic Pulmonary Fibrosis at a Specialty Clinic**/R.J. Nett, K. Cummings, B. Cannon, J. Cox-Ganser, S. Nathan, Morgantown, WV, p.A3541

THEMATIC POSTER SESSION

B50 COPD

9:15 a.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER

Area L (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: N. Putcha, MD, Baltimore, MD

- P1401** **Chronic Respiratory Diseases in out of Hospital Sudden Death Victims**/M. Mirzaei, G. Joodi, B.M. Bogle, R.J. Simpson, Chapel Hill, NC, p.A3542
- P1402** **Airflow Limitation Confers the Same Risk of Cardiovascular Death as Diabetes in High Risk Smokers in the NLST-ACRIN Sub-Study of the National Lung Screening Trial (N=10,054)**/R.J. Hopkins, F. Duan, C. Chiles, G.D. Gamble, D. Aberle, R.P. Young, Auckland, New Zealand, p.A3543
- P1403** **Risk Factors and Implications of Bronchiectasis on COPD Severity in the Subpopulations and Intermediate Outcome Measures in COPD Study (SPIROMICS)**/F. Genese, V.E. Ortega, C.R. Marion, W.K. O'Neal, J.D. Newell, R.G. Barr, C.B. Cooper, D. Couper, M.K. Han, N.N. Hansel, R.E. Kanner, F.J. Martinez, D.A. Meyers, P. Woodruff, S.P. Peters, E.A. Hoffman, E.R. Bleeker, Winston-Salem, NC, p.A3544
- P1404** **African Americans, Hispanics, and American Indians Have Lower Prevalence of COPD than Non-Hispanic Whites**/A. Sood, H. Petersen, O. Myers, X. Wang, M. Moreno, R. Karr, T. Sanchez, R. Vazquez Guillamet, L. Cook, P.M. Meek, Y. Tesfaigzi, Albuquerque, NM, p.A3545
- P1405** **Validity of Self-Reported Health Professional Diagnosed Chronic Obstructive Pulmonary Disease (COPD) - National**

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

Health and Nutrition Examination Survey (NHANES)

2007-2012/K.A. Clark, J.M. Mazurek, Morgantown, WV, p.A3546

P1406 Validity of the Global Physical Activity Questionnaire in Older Adults with Chronic Obstructive Pulmonary Disease/S. Gore, J. Blackwood, A. Goldberg, M.H. Huang, M. Shoemaker, Charlestown, MA, p.A3547

P1407 Prediction of Risk for COPD Among Smokers with Normal Spirometry/M. Pourabdollah Tootkaboni, Y. Strulovici-Barel, R.J. Kaner, S.L. O'Beirne, R.G. Crystal, New York, NY, p.A3548

P1408 High TLC in Smokers Without Airflow Obstruction Is Associated with Higher Mortality and Radiographic Characteristics of COPD/A. Schwartz, E.S. Wan, M.H. Eberlein, V. Kim, E.A. Regan, E.K. Silverman, A.P. Comellas, S. Fortis, Iowa City, IA, p.A3549

P1409 COPD-Related Mortality and Co-Morbidities in the United States of America, 1999-2015: A Multiple Causes of Death Analysis/J.I. Obi, Washington, DC, p.A3550

Facilitator: S.E. Hines, MD, MSPH, Baltimore, MD

P1410 Differences in the Pulmonary Effects of a Heavy Smoking Burden in the COPD Gene Study/M. Ragland, B.J. Make, G. Kinney, S.M. Lutz, K.A. Pratte, K. Young, D.L. DeMeo, J.E. Hokanson, Aurora, CO, p.A3551

P1411 Indoor Air Pollution May Be Associated with Cognitive Impairment in Chronic Obstructive Pulmonary Disease/C. Polito, M. Eakin, H. Woo, K. Romero, M.C. McCormack, A. Fawzy, L.M. Paulin, G.B. Diette, K. Koehler, N.N. Hansel, N. Putcha, Baltimore, MD, p.A3552

P1412 Consequences of Community-Acquired Pneumonia (CAP) in Patients with Chronic Obstructive Pulmonary Disease (COPD)/C.B. Pasquale, J. Vietri, R. Choate, E. Malanga, K.D. Ford, A. McDaniel, R. Sato, Washington, DC, p.A3553

P1413 ED Visits, Discharges and Inpatient Admissions for COPD Exacerbation - Findings from the Nationwide Emergency Department Sample (NEDS) from 2006 to 2014/A. Agrawal, S. Sahni, A. Agarwal, D. Mehta, M. Peck, R. Sikachi, New Hyde Park, NY, p.A3554

P1414 Characterization of the COPD Population in Reference to Exacerbation Frequency and Blood Eosinophil Level Distribution/K. Kostikas, J. Fang, H. Tian, R.B. Fogel, F. Gutzwiller, H. Cao, Basel, Switzerland, p.A3555

P1415 Harmful Impact of Air Pollution on Severe Acute Exacerbation of Chronic Obstructive Pulmonary Disease/J.J. Shim, J. Choi, J.Y. Oh, Y.S. Lee, K.H. Min, G.-Y. Hur, S.Y. Lee, K.-H. Kang, Seoul, Korea, Republic of, p.A3556

P1416 Ambient Particulate Matter and Oxides of Nitrogen Are Associated with an Increased Incidence of COPD Exacerbations with Symptoms of Infective Etiology/G.C. Donaldson, P.E. Pfeffer, A.J. Mackay, J.A. Wedzicha, London, United Kingdom, p.A3557

P1417 Residential Air Quality and COPD Health Events/D.G. Dearborn, R.F. Silver, F. Jacono, K. Byrne, S. Greenberg, S. Debanne, O. Farhan, J. Mozes, J. McDonald, K. Loparo, Cleveland, OH, p.A3558

P1418 Individualized Prediction of Lung Function Decline in the General Adult Population/W. Chen, D.D. Sin, M. Fitzgerald, A. Safari, M. Sadatsafavi, Toronto, Canada, p.A3559

THEMATIC POSTER SESSION**B51 CIGARETTES, E-CIGARETTES, AND HOOKAHS****9:15 a.m. - 4:15 p.m.****SAN DIEGO CONVENTION CENTER****Area B (Hall A-B2, Ground Level)****Viewing:** Posters will be on display for entire session.**Discussion:** 11:15-12:00: authors will be present for individual discussion

12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: K.E. Pinkerton, PhD, Davis, CA
G.E. Zabert, MD, Neuquen, Argentina

P92 Differential Effects of Propylene Glycol and Vegetable Glycerin on Epithelial Cells from the Upper and Lower Airways/Y.-N. Escobar, L.E. Brighton, P.W. Clapp, I. Jaspers, Chapel Hill, NC, p.A3560

P93 Endotoxin and (1,3)- β -D-Glucan Contamination in Electronic Cigarettes in the U.S. Products/M.-S. Lee, J.G. Allen, D.C. Christiani, Boston, MA, p.A3561

P94 Evaluating Adverse Effects of Aerosols from Different Electronic Cigarettes to Airway Epithelia by Realistic In Vitro Technologies/M. Delaval, D. Egli, H.R. Jonsdottir, P. Schuepfer, N. Baumlin, M.A. Salathe, H. Burtscher, M. Geiser, Bern, Switzerland, p.A3562

P95 Electronic Cigarette Use Alters Gene Expression in Circulating Neutrophils/C.M. Bojanowski, R. Corriden, J. Chien, L.E. Crotty Alexander, La Jolla, CA, p.A3563

P96 Electronic (E)-Cigarette Vapor Extract Impairs Neutrophil Chemotaxis, Reactive Oxygen Species Production and Neutrophil Extracellular Trap Formation/C.M. Bojanowski, R. Corriden, A. Meier, L.E. Crotty Alexander, La Jolla, CA, p.A3564

P97 The Dark Side of Vaping; Acute Dyspnea and Granulomatous Lung Disease Associated with Electronic Cigarettes/N. Poponea, E. Shehada, N. Freeman, Pontiac, MI, p.A3565

P98 A Case of Organizing Pneumonia Related to Electronic Cigarette Use/M.S. Khan, F.M. Khateeb, Z. Khan, J. Akhtar, K. Srour, J.R. Hammersley, Toledo, OH, p.A3566

P99 Diffuse Alveolar Hemorrhage Induced by Vaping/M. Agustin, R. Eusebio, J. Gonzalez-Huertas, F. Cabrera, M. Yamamoto, H.D. Tazelaar, Dededo, Guam, p.A3567

P100 Chronic Inhalation of Electronic (E)-Cigarette Vapor Increases Susceptibility to Acute Lung Injury/A. Moshensky, M. Hepokoski, C.M. Bojanowski, N. Nguyen, L.E. Crotty Alexander, San Diego, CA, p.A3568

P101 Effect of Waterpipe Smoke on the Airway Mucosal Barrier and Innate Defense/S.H. Abdelwahab, B. Reidel, S. Livengood, H. Dang, M. Kesimer, Chapel Hill, NC, p.A3569

P102 Up In Smoke: A Case of Eosinophilic Pneumonia After Hookah Use/J.J. Dorsch, B.-C. Tran, N. Harvilla, A. Hiremath, A. Burke, N.G. Shah, Baltimore, MD, p.A3570

P103 iQOS Electronic Tobacco Device Increases Susceptibility to Pneumococcal Infection/L. Miyashita, N.M. Liu, M. Padovan, J.M. Grigg, London, United Kingdom, p.A3571

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

Facilitator: A. Noel, PhD, Baton Rouge, LA

- P104 Severe Fixed Obstructive Lung Disease in a Former Smoker with Heavy E-Cigarette Use/T.V. Macedonia, S.D. Krefft, C.S. Rose, Aurora, CO, p.A3572**
- P105 Effect of Cigarette Smoke on Immune Response to Pollen Allergen in the Lung/M. Takeuchi, M. Nose, C. Kanamori, Y. Tanaka, K. Pinkerton, Kyoto, Japan, p.A3573**
- P106 The Difference Between Real Age and Lung Age with Smoking Status at Two-Days Medical Checkup/M. Fukakusa, Y. Ichikawa, Y. Ishida, K. Masuda, Tokyo, Japan, p.A3574**
- P107 Key Findings of the Fukuoka Tobacco-Related Lung Disease (FOLD) Registry Study in Japan/T. Yanagihara, S. Ogata-Suetsugu, N. Hamada, T. Tsuda, S. Takata, N. Inoue, Y. Kitasato, K. Yatera, H. Mukae, T. Hoshino, N. Nagata, K. Watanabe, C. Yoshii, Y. Wakata, S. Tokunaga, Y. Nakanishi, Fukuoka City, Japan, p.A3575**
- P108 Changes in Smoking Habits of Korean Adult Men and Adolescent Due to the Price Increase of Tobacco in 2015/B.-G. Kho, Y.-I. Kim, I.J. Oh, J.H. Lim, Gwangju, Korea, Republic of, p.A3576**
- P109 Smoking-Related Small Airway Epithelium Dysregulated Genes that Are Shared by Most Smokers/Y. Strulovici-Barel, J. Salit, S.L. O'Beirne, H. Bitter, H. Hilton, G. Wolff, C. Stevenson, S. Visvanathan, J.S. Fine, R.G. Crystal, New York, NY, p.A3577**
- P110 Reefer Madness: A Case of Diffuse Alveolar Hemorrhage Due to Fentanyl-Laced Marijuana/A.M. Abdul Hameed, R. Golamari, Z. Khan, B. Iriarte-Oporto, A. Malik, N. Ghionni, J. Gooch, S. Gulati, A. Bhardwaj, D. Valentino III, Darby, PA, p.A3578**
- P111 Impact of Habitual Marijuana Smoking on Lung Disease in a Country with Legal Cannabis Production/L. Fernandez, J.P. Soto, A. Aleman, A. Lienres, L. Romero, V. Torres, M. Gutierrez, Montevideo, Uruguay, p.A3579**
- P112 Cannabis Effects in Airflow/W. Rodriguez, M. Ortiz-Bonilla, J. Ramos-Rossy, San Juan, PR, p.A3580**
- P113 High Price of Getting High: Marijuana-Induced Bullous Lung Disease/T. Kukkadapu, A. Filo, L. Jia, J. Keshavamurthy, T.A. Dillard, Augusta, GA, p.A3581**
- P114 Never-Smokers Develop Mucosal Inflammation and CFTR Dysfunction Upon Vaping Nicotine-Free E-Liquid for One Week/M. Kim, N. Baumlin, J.S. Dennis, P. Whitney, J. Arana, C. Aguiar, S. Paredes Aller, E. Mendes, A. Schmid, M.A. Salathe, Miami, FL, p.A7734**

THEMATIC POSTER SESSION

B52 BACTERIAL INFECTION CASE REPORTS

9:15 a.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER
Area A (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
 12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: M.L. Metersky, MD, Farmington, CT

- P1 Francisella Tularemia Empyema Treated with Tissue Plasminogen Activator and Pulmozyme/M. Reichmuth, P. Psihos, C.S. Shapiro, M.J. Junqueira, J. Gordon, Pueblo, CO, p.A3582**
- P2 Recurrent Pneumonia in a Healthy Adult: A Rare Case of Congenital Pulmonary Airway Malformation/S.A. Ahmed, B. Perler, A. Foderaro, Providence, RI, p.A3583**
- P3 Late Onset Hospital Acquired Pneumonia Due to a Rare Bacteria: Cedecea Species/M. Yasin, Z.U. Khan, J. McConnell, S. Linstorm, K. Akhtar, Louisville, KY, p.A3584**
- P4 No Cancer: Nocardia Abscessus Causing Organizing Pneumonia in an Immunocompetent Patient: An Unusual Entity !!!/N. Victor, G.M. Sanchez Palacios, D. Hershberger, Omaha, NE, p.A3585**
- P5 Yersinia Enterocolitica Pneumonia: A Rare Presentation of a Common Organism/T.M. Dempsey, S. Kalra, Rochester, MN, p.A3586**
- P6 Cavitating Legionella Pneumonia in an Immunocompetent Patient/A. Rothman, J.A. Kileci, E.M. Mohanraj, C. Stavropoulos, M.M. O'Sullivan, New York, NY, p.A3587**
- P7 A Rare Case of Salmonella Empyema in a Patient with a Mediastinal Germ Cell Tumor/B. Sharma, D. Markabawi, V.V. Tambe, M. Antoine, M. Shah, M. Hess, Syracuse, NY, p.A3588**
- P8 Cavitary Pneumonia in an Immunocompromised Patient Due to Nocardia Cyriacigeorgica and Pneumocystis Jirovecii Co-Infection/M.S. Godfrey, M. Pisani, New Haven, CT, p.A3589**

Facilitator: O. Epelbaum, MD, Valhalla, NY

- P9 Giant Pneumatocele with Cutaneous Fistulization as a Complication of Staphylococcus Septicemia/L. Andela, Beira, Mozambique, p.A3590**
- P10 Nocardia Paucivorans Empyema in a Patient with Suspected Silicosis/G. Samuel, D. Modi, M. Matta, J.K. Podgore, Fort Worth, TX, p.A3591**
- P11 First Adult Case of Fulminant Mycoplasma Pneumoniae Pneumonia Due to a Macrolide-Resistant Strain Successfully Treated with Quinolone and Minocycline/M. Matsumoto, K. Nagaoka, M. Suzuki, Y. Yamashita, N. Takei, H. Kimura, S. Konno, N. Ishiguro, M. Nishimura, Sapporo, Japan, p.A3592**
- P12 Macrolide-Resistant Mycoplasma: An Increasing Problem/A. Rothman, R. Jean, New York, NY, p.A3593**
- P13 Intrapulmonary Sequestration: A Rare Congenital Accessory/L. Wahid, B.L. Icard, T. Pelleg, S. Ie, A.L. Loschner, Q. Phung, Roanoke, VA, p.A3594**
- P14 Up in Smoke: A Rare Case of Hookah-Induced Streptococcus Viridans Pneumonia/T. Kukkadapu, L. Jia, J. Keshavamurthy, J.N. Gonzales, Augusta, GA, p.A3595**
- P15 A Case of Nocardia Cyriacigeorgica Lung Infection Presenting with a Progressive Obstructive Ventilatory Defect and Worsening Lung Nodules in an Immunocompetent Host with Previous History of Mild Bronchiectasis/G. Ivashchuk, M. Sanchez Sierra Marino, R. Arauco Brown, McAllen, TX, p.A3596**

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

P16 P. Mirabilis Pleural Empyema Secondary to a Staghorn Calculus in the Left Kidney/S.J. Patel, S. Holland, D. Fullerton, Crewe, United Kingdom, p.A3597

Facilitator: M.S. Niederman, MD, New York, NY

P17 Salmonella Empyema: A Rare Complication Associated with Immunocompromised State Resulting in Sepsis/A. Yanamadala, J. Portocarrero, A.M. Canelas, Berwyn, IL, p.A3598

P18 Streptococcus Mucilaginosus: A Rare Infection with an Unusual Presentation/A.H. Siddiqui, A. Memon, K. Rajdev, S. Habib, M.N. Chalhoub, Staten Island, NY, p.A3599

P19 Quick to the Draw: Utilizing Percutaneous Tube Drainage as First Line for Pulmonary Abscess/R. Hilton, S.B. Weibel, Philadelphia, PA, p.A3600

P20 Legionella and Mycoplasma Pneumonia: Co-Incidence or Co-Infection?/L.N. Saladi, B. Zaidi, O.G. Toolsie, M. Adrish, Bronx, NY, p.A3601

P21 A Rare Case of Pneumonia Caused by Alcaligenes Faecalis Bacteria/S.Z. Junejo, S. Tuli, T. Trandafirescu, Jamaica, NY, p.A3602

P22 A Rare Case of Community Acquired Multi-Drug Resistant Burkholderia Cepacia Infection in an Immune Competent Patient/K. Gopalratnam, B. Alkinj, Z. Saul, J. Ayala, Bridgeport, CT, p.A3603

P23 New Onset Atrial Fibrillation Masking a Nephropleural Fistula/L. Kallur, A. Bansal, L. Fitzgerald, A. El Abbassi, Johnson City, TN, p.A3604

P24 Blame the Fistula for the Pneumonia/M. Farokhi, M. Megally, J. Jolly, T.M. McGarry, M.E. Warshawsky, Queens, NY, p.A3605

P25 Achromobacter Denitrificans - A Rare Cause of Pneumonia/A.A.H. Albalbissi, J. Treece, A. Alazzez, S. Arif, L.A. McKinney-Smith, Johnson City, TN, p.A3606

Facilitator: J.D. Chalmers, MD, PhD, Dundee, United Kingdom

P26 An Interesting Case of Dyspnea: Recurrence of Disseminated Whipple's Disease/J.P.S. Virk, K. Yashi, A. Ghimire, Syracuse, NY, p.A3607

P27 From Toe to Head! A Case of Disseminated Nocardiosis Presenting as Foot Drop!/A.M. Pasha, P.K. Sinha, M. Ehtesham, Southfield, MI, p.A3608

P28 Development of Post-Coital Pneumatocele in a Patient Who Had Previously Undergone Thoracotomy for Total Decortication Due to Empyema/A.C. Boulos, J. Gordon, J. Petty, Pueblo, CO, p.A3609

P29 A Rare Presentation of Pulmonary Nocardiosis with Ruptured Necrotizing Subcarinal Node in HIV/N. Nakwan, Hatyai, Thailand, p.A3610

P30 Acinetobacter Baumannii as a Cause of Community Acquired Pneumonia/F. Alghoula, A. Nayfeh, N. Addasi, J.D. Parekh, M. Krishnan, T. Kassim, M. Reddy, Omaha, NE, p.A3611

P31 Legionella Pneumonia Presenting as Rhabdomyolysis Leading to Acute Renal Failure, Acute Respiratory Distress Syndrome and Acute Heart Failure: A Tripe Whammy!/L. Zha, M. Moizuddin, R.E.M. Gripaldo, Columbia, SC, p.A3612

P32 Burkholderia Cepacia Bacteremia in an Immunocompetent Host/H. Singh, J. Safi, J.R. Tedrow, Brighton, MA, p.A3613

P33 Late Onset Pneumonectomy Adenocarcinoma Recurrence Presenting as Empyema Necessitans/W. Rodriguez, D. Vazquez, A. Cordero-Gomez, J. Torres-Palacios, J. Casal, San Juan, PR, p.A3614

Facilitator: R. Menendez, MD, Valencia, Spain

P34 A Difficult Case of Methicillin Sensitive Staphylococcus Aureus Necrotizing Pneumonia Complicated with Recurrent Pneumothorax/M.R. Malekzadegan, T.M. Arab, K. Solanki, K. Cervellione, M. Babury, Richmond Hills, NY, p.A3615

P35 Empyema Causing Hemidiaphragmatic Depression/S. Joshi, S. Sitaula, M. Patel, A. Ghimire, Syracuse, NY, p.A3616

P36 'Kennel Cough' in a Patient Following Orthotropic Heart Transplant/M. Naddour, M. Kalani, E. Bihler, Pittsburgh, PA, p.A3617

P37 Miliary Pneumonia as a Novel Radiological Manifestation of Q Fever/S. Couillard, M. Bélanger, N. Bouchard, Sherbrooke, Canada, p.A3618

P38 Disseminated Nocardia Cyriacigeorgica in an Immunocompetent Male/M.H. Iftikhar, S.J. Shah, O. Dawani, H. Laird-Fick, East Lansing, MI, p.A3619

P39 Nocardia Beijingensis Pneumonia: A Case Report/M. Amano, G. Kida, Y. Tsukahara, K. Emoto, E. Tsumiyama, S. Kuriwa, T. Ohba, T. Nishizawa, R. Kawabe, S. Sato, K. Akasaka, H. Matsushima, Saitama, Japan, p.A3620

P40 A Case of Endobronchial Actinomycosis Associated with Malignant Lymphoma of the Bronchus/M. Moda, M. Yuki, Y. Iwata, N. Emoto, S. Kasai, Y. Komeno, T. Ryu, K. Iihara, H. Tokuda, Y. Okochi, Tokyo, Japan, p.A3621

P41 A Rare Presentation of Chest Pain: Cavitating Pleuropneumonic Tularemia/N.A. Kaur, D. Leal, H. Sampath Kumar, L. Bosch, R. Hernandez, Miami, FL, p.A3622

THEMATIC POSTER SESSION

B53 ENHANCING PRACTICE ENVIRONMENTS, PATIENT SAFETY, AND OUTCOMES

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area B (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion

12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: C.L. French, PhD, ANP-BC, Worcester, MA

P116 Preparing Graduate Nurses for the Psychological Stress and Trauma of Working as an Acute Care Bedside Nurse: Results of a National Survey/M. Mealer, K. Cochran, M. Moss, Aurora, CO, p.A3623

- P117** **Why Don't We Talk About Catheters? Characterizing Physician-Nurse Communication Barriers to Appropriate Catheter Use Discussions/M. Manojlovich, J. Ameling, J. Forman, S. Judkins, M. Quinn, J. Meddings, Ann Arbor, MI, p.A3624**
- P118** **Assessment of Knowledge and Practices for Identifying Patients with Sepsis Among RNs and CNAs on a General Medical Floor in a Tertiary Care Center: A Pilot Study/A. Thakkar, P. Poojary, K. McKenna, R. Schneider, R. Ernest Jean, New York, NY, p.A3625**
- P119** **Using Cognitive Work Analysis to Understand ICU Nurse Decision-Making About Patient Mobility/A. Krupp, L. Steege, W.J. Ehlenbach, B. King, Philadelphia, PA, p.A3626**
- P120** **Sepsis Screening in a Long-Term Care Hospital: Improving Timely Identification and Effective Treatment/J. Brock, G. D'Souza, D.R. Nelson, M.S. Hassenpflug, Hyden, KY, p.A3627**
- P121** **The Mechanical Ventilator Alarm Default Setting Project/P.R. Harris, S. Strickland, R. Zink, M.N. Flack, San Rafael, CA, p.A3628**

Facilitator: M.E. Corrigan, MSN, Portland, ME

- P122** **Do We Face a Facebook Problem? Use of Social Media Among Nurses and Impact on Patient Safety/A. Aiyer, S.R. Surani, B. Anderson, A. Suleman, S. Soomro, Corpus Christi, TX, p.A3629**
- P123** **Ability to Predict Other Team Members' Behaviors in ICU Teams Is Associated with Routine Implementation of a Complex Care Bundle in a Statewide Quality Collaborative/E. Boltey, T.J. Iwashyna, R.C. Hyzy, S. Watson, C. Pope, D.K. Costa, Ann Arbor, MI, p.A3630**
- P124** **Use of High-Fidelity Simulation for Teaching Therapeutic Pronation to Nursing Staff/E. Solbes, K. Yoneda, Sacramento, CA, p.A3631**
- P125** **Engaging Stakeholders to Improve Care: Barriers and Facilitators in Primary Care Delivery for Sleep Disordered Breathing/S.R. Pendharkar, K.G. Blades, J.E. Kelly, W.H. Tsai, A. Vaidya, D.C. Lien, B. Hemmelgarn, F. Clement, J. Woiceshyn, K.A. McBrien, Calgary, Canada, p.A3632**
- P126** **Educational Initiative to Improve the Team-Based Care of Patients with IPF/E.R. Fernandez Perez, P. Zelarney, S. Thomas, D.A. Shoop, J.L. Munson, K.D. Johnson, M.E. Stern, S. Meadows, Denver, CO, p.A3633**
- P127** **Results of the First Round of the Nursing Assembly CARES Delphi Project to Update Research Priorities by Engaging Nurses, Patients and Caregivers Globally/M.R. George, C. Hernandez, M.A. Carno, J.L. Guttormson, G.L. Narsavage, S.M. Smith, New York, NY, p.A7735**

THEMATIC POSTER SESSION

B54 CHRONIC DISORDERS: EVALUATION AND INTERVENTION

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area B (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: L.A. Matura, PhD, RN, Philadelphia, PA

- P129** **A Prototype Continuous Nebulizer Offers Clinicians Short Treatment Times Combined with High Respirable Dose for Efficient Lung Delivery: A Comparative Laboratory Study/J. Suggett, M. Nagel, D. Coppolo, J. Mitchell, London, Canada, p.A3634**
- P130** **Cardiovascular Status and Risk in Alpha 1 Anti-Trypsin Deficiency/D. Griffiths, C. Hall, A.M. Turner, C.E. Bolton, J. Hurst, R.A. Stockley, E. Sapey, Birmingham, United Kingdom, p.A3635**
- P131** **Longitudinal Patterns of Health Related Quality of Life in Patients with COPD/J. Yoo, Gwang-ju, Korea, Republic of, p.A3636**
- P132** **Clinical, Functional and Inflammatory Evaluation in Asthmatic Patients After a Simple Short-Term Educational Program/S.N. Felix, R.C. Agondi, M.V. Aun, A. Kurcejak, M.D. Avona, T.S. Amorim, M.R.C. Lopes, F.M.D. Almeida, I.S.D. Genaro, S.K.M. Bezerra, P. Giavina-Bianchi, J. Kalil, I.D.F.L.C. Tiberio, M.D.A. Martins, B.M. Saraiva-Romanholo, Sao Paulo, Brazil, p.A3637**
- P133** **Improving Adherence to COPD Guidelines/A. Madhavan, D. Kosnar, K. Carney, S. Chauhan, S. Porter, New Brunswick, NJ, p.A3638**
- P134** **Improving Epinephrine Possession in Children Receiving Omalizumab: A Quality Improvement Project/S.P. Shah, A.M. Fitzpatrick, J.A. Shih, Atlanta, GA, p.A3639**
- P135** **Analysis on the Factors for the Health Needs of Patients with COPD: A Cross-Sectional Study in China/L. Dong, B. Nie, L. Xu, Beijing, China, China, p.A3640**

Facilitator: A.-M. Russell, MScN, London, United Kingdom

- P136** **Stigma in Chronic Obstructive Pulmonary Disease and Lung Cancer: A Systematic Review/S. Woo, J.L. Larson, Ann Arbor, MI, p.A3641**
- P137** **Validation of Fitness Tracker for Sleep Measures in Women with Asthma/J. Castner, M.J. Mammen, C. Jungquist, O. Licata, J.J. Pender, G.E. Wilding, S. Sethi, Buffalo, NY, p.A3642**
- P138** **Effect of Treatment of Mild Obstructive Sleep Apnea on Quality of Life, Mood and Sustained Attention: Randomized, Parallel, Single-Blind and Controlled Study/L.R. Azeredo Bittencourt, G. Luz, T. Guimaraes, L. Silva, L. Badke, A. Millani, S. Tufik, L.E. Nery, Sao Paulo, Brazil, p.A3643**
- P139** **Delayed Diagnosis and Burden of Illness of Excessive Sleepiness Associated with Obstructive Sleep Apnea/L.T. Waldman, S. Parthasarathy, K.F. Villa, M. Bron, S. Bujanover, M. Brod, San Marcos, CA, p.A3644**
- P140** **Association Between Obesity and Changes in Sleep Quality and Duration in a Population-Based Study in Bucaramanga Santander Colombia/L. Rodriguez, L.M. Vera Cala, F. Bolivar Grimaldos, Bucaramanga, Colombia, p.A3645**
- P141** **Effect of Inspiratory Time and Tidal Volume on Lung Dose of Albuterol Delivered by Combivent RespiMat/A. Berlinski, M.K. Tucker, Little Rock, AR, p.A7736**

THEMATIC POSTER SESSION

B55 PEDIATRIC CLINICAL STUDIES

9:15 a.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER

Area F (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: K. Lu, MD, Irvine, CA

- P539 Processes of Care and Clinical Management of Children with Aspiration/L. Midyat, F.J. Dy, W. Wong, K. Haver, Boston, MA, p.A3646**
- P540 Predictive Factors for a Shorter Methacholine Challenge Protocol in Children: A Pilot Study/F. Proulx, S.M. Tse, S. Laberge, Montréal, Canada, p.A3647**
- P541 Detection of Murmurless Atrial Septal Defect in Students by Mandatory School Electrocardiography Screening in Japan/H. Sawada, Y. Mitani, H. Ohashi, S. Otsuki, N. Yodoya, H. Hayakawa, T. Konuma, H. Shimpo, K. Maruyama, M. Hirayama, Tsu, Japan, p.A3648**
- P542 Online Survey on Addressing Passive Smoke Exposure in Children: The Pediatrician Counseling Practice/G. Viegi, S. La Grutta, L. Morcaldi, G. Chiamenti, G. Cilluffo, R. Cutrera, Pisa, Italy, p.A3649**
- P543 Tobramycin Inhalation Solution Prescribing Practices in Non-Cystic Fibrosis Pediatric Patients/A.R. Shenoy, M. Noval, S. Chan, K. Ravin, Wilmington, DE, p.A3650**
- P544 Decreased Pulmonary Function Testing in Patients with Fanconi Anemia/C. Towe, A. Nelson, A. Lane, J.F. Feldstein, E. Koch, E. Goodridge, P. Mehta, S. Davies, K. Myers, Cincinnati, OH, p.A3651**
- P545 Disease Spectrum and Management of Children Admitted with Acute Respiratory Infection in Viet Nam/P. Nguyen, V. Nguyen, H. Truong, D. Tran, S. Graham, B. Marais, Da Nang, Viet Nam, p.A3652**
- P546 Diagnostic Accuracy of Radiologic Findings in Children with Suspected Foreign Body Aspiration/Y.-M. Park, K.H. Kim, H.J. Lee, E.Y. Yang, H.S. Kim, Y.H. Chun, J.-S. Yoon, S.A. Im, H.H. Kim, J.T. Kim, Seoul, Korea, Republic of, p.A3653**
- Facilitator:** P.A. Phinizy, MD, New York, NY
- P547 Use of Personal Care Products in Children with Respiratory Illnesses/A. Brown, A. Budhram, E. Zheng, C. Prish, K. Boyer, A.J. Dozor, S.S. Krishnan, Valhalla, NY, p.A3654**
- P548 Magnitude of Pneumococcal Pneumonia in Indian Children: A Systematic Review of Surveillance Studies/M. Singh, N. Jaiswal, M. Singh, A. Chauhan, A. Agarwal, Chandigarh, India, p.A3655**
- P549 Evaluation of Prescriptions Containing Antibiotics in Pediatrics, Suffering from Respiratory Tract Infections at Selected Hospitals of Jamshoro and Hyderabad, Pakistan/Y. Qureshi, A. Dayo, M. Ghoto, J. Jamali, F. Panhwar, S. Rajput, T. Khan, Jamshoro, Pakistan, p.A3656**

- P550 Effect of Post-Natal Surgical Repair Methods on Diaphragmatic Movement in Infants with Congenital Diaphragmatic Hernia/C. Hite, N.S. Higano, J. Tkach, B.E. Haberman, F.-Y. Lim, J.C. Woods, P.S. Kingma, Cincinnati, OH, p.A3657**
- P551 Peripheral Airway Obstruction in Children with Congenital Diaphragmatic Hernia/H.M. Emanuel, Houston, TX, p.A3658**
- P552 Lung Ultrasound a Useful Tool to Diagnose Pulmonary Atelectasis in Children Affected by Neuromuscular Disease/N. Ullmann, B. Papia, M.L. D'Andrea, M.B. Chiarini, P. Tomà, C. Cherchi, M. Pavone, R. Cutrera, Rome, Italy, p.A3659**
- P553 Evaluation of Agreement on Presence and Severity of Tracheobronchomalacia in Pediatric Patients by Dynamic Flexible Bronchoscopy/G. Burg, E. Hysinger, M.M. Hossain, R. Wood, Cincinnati, OH, p.A3660**
- P554 Should We Update Periodically the Spirometry Reference Equations for Children?/L.F. Martínez, L.G. Gochicoa-Rangel, R. Del Rio-Hidalgo, J. Navarrete-Rivera, S. Cid-Juárez, D. Martínez-Briseño, R. Fernández-Plata, C. García-Sancho, I. Thirión-Romero, R. Perez-Padilla, L. Torre-Bouscoulet, Mexico City, Mexico, p.A7737**

THEMATIC POSTER SESSION

B56 CYSTIC FIBROSIS

9:15 a.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER

Area F (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: J. Rayment, MD, MSc, Vancouver, Canada

- P556 Treatment of Mycobacterium Abscessus Complex Pulmonary Disease in Pediatric Cystic Fibrosis May Improve Clinical Outcomes/A. Chacko, S. Wen, G. Hartel, N. Kapur, C. Wainwright, J. Clark, Brisbane, Australia, p.A3661**
- P557 Implementation of a Guideline Based Non-Tuberculous Mycobacteria Management Algorithm/E. Elson, E. Meier, D. Swanson, C. Oermann, Kansas City, MO, p.A3662**
- P558 Real World Respiratory Effectiveness of Lumacaftor-Ivacaftor in Children with Cystic Fibrosis at Four Nemours Cystic Fibrosis Centers/L. Greenawald, A.R. Shenoy, K. Peeke, O. Elidemir, F.R. Livingston, D.A. Schaeffer, A.S. Chidekel, Wilmington, DE, p.A3663**
- P559 Pathogen Acquisition in Patients with Cystic Fibrosis Receiving CFTR Modulators/A.J. Fischer, S. Singh, A. McLearn-Montz, F. Milavetz, L. Gates, C. Fox, Iowa City, IA, p.A3664**
- P560 Cystic Fibrosis Related Bone Disease - Alterations in Blood Monocytes of G551D-Bearing Cystic Fibrosis Patients Undergoing Treatment with Ivacaftor/J. Jacquot, D. Abdallah, M.L. Jourdain, C. Guillaume, N. Ronan, Y. McCarthy, E. Flanagan, B. Plant, F. Velard, Reims, France, p.A3665**

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- P561 Assessing Aminoglycoside Induced Hearing Loss in Children with Cystic Fibrosis/K. McDonald, C. Blankenship, M. Dong, G. Burg, A. Vinks, G.L. McPhail, J.P. Clancy, L. Hunter, Cincinnati, OH, p.A3666**
- P562 Linkage of the Cystic Fibrosis Foundation Patient Registry (CFFPR) and Pediatric Health Information System (PHIS) Database/J. Cogen, M. Hall, D. Loeffler, A. Fink, Seattle, WA, p.A3667**
- P563 The Prevalence of Allergic Brochopulmonary Aspergillosis in Cystic Fibrosis in India/M. Singh, S. Sagwal, M. Singh, A. Chakrabarti, Chandigarh, India, p.A3668**
- Facilitator:** A. Deschamp, MD, MS, Omaha, NE
- P564 Total Cyanide in the Sputum of Cystic Fibrosis Patients During an Acute Exacerbation/D. Guck, N. Tubbs, D. Kim, P. Haouzi, Hershey, PA, p.A3669**
- P565 Sputum Purification Revealing Bacteria within Airway Macrophages of CF Children/N.M. Liu, L. Miyashita, E.C. Russell-Jones, J. Grigg, London, United Kingdom, p.A3670**
- P566 Increased Airway Mucus Rheology in Cystic Fibrosis Coincides with Positive Microbial Culture in Bronchioalveolar Lavage Fluid/M. Markovetz, M.S. Muhlebach, I.C. Garbarine, W.J. Kissner, C.R. Esther, R.C. Boucher, D. Hill, Chapel Hill, NC, p.A3671**
- P567 Comparison of Handheld to Conventional Spirometry in Pediatric Cystic Fibrosis/N. Avdimiretz, D. Wilson, Toronto, Canada, p.A3672**
- P568 Standard Versus Modified Postural Drainage in Infants and Young Children with Cystic Fibrosis/K.M. Pereira Pinto de Mendonça, D.A. Freitas, G.S.S. Chaves, T.A. Santino, C.T.D. Ribeiro, F.A.L. Dias, R.O. Guerra, Natal, Brazil, p.A3673**
- P569 Comparison of Nutritional Status, Lung Functions Between Amish and Non Amish Children with Cystic Fibrosis/R. Padman, D. Gilham, T. Laturner, Fort Wayne, IN, p.A3674**
- P570 Hispanics with Cystic Fibrosis Are More Likely to Acquire Pseudomonas Infection/M. McGarry, N.P. Ly, San Francisco, CA, p.A3675**
- P571 Augmentation of ProteaseTag® Active Neutrophil Elastase Immunoassay Sensitivity/D. McCafferty, K.L. Moffitt, C. Robb, A. Kennedy, D. Ramsay, T. Ferguson, B. Walker, Belfast, United Kingdom, p.A3676**
- Facilitator:** S.E. Kirkby, MD, Columbus, OH
- P572 Laminin Alpha1 Is a Genetic Modifier of TGF-beta1-Stimulated Pulmonary Fibrosis/C. Lee, S.J. Cho, W.-K. Cho, J. Park, A.M.K. Choi, I.O. Rosas, M. Zheng, G. Peltz, C. Lee, J.A. Elias, Providence, RI, p.A3677**
- P573 Correlation of Molecular-Level Markers with Clinical Outcomes in Cystic Fibrosis Via the CF-ABLE Score/O.J. McElvaney, D. Horan, C. Gunaratnam, E.P. Reeves, N.G. McElvaney, Dublin, Ireland, p.A3678**
- P574 Antibody Array Analysis for Protein Detection in Porcine Non-Cystic Fibrosis and Cystic Fibrosis Airway Epithelia/M.I. Aguilar Pescozo, N.D. Gansemer, M.R. Stroik, L.S. Powers, P.H. Karp, J. Zabner, A.A. Pezzulo, D.A. Stoltz, Iowa City, IA, p.A3679**

- P575 THAM Improves Bacterial Killing in Human Cystic Fibrosis Airway Epithelial Cell Cultures/Z. Holliday, M. Abou Alaiwa, A. Pezzulo, I. Thornell, N. Gansemer, J. Zabner, D.A. Stoltz, Iowa City, IA, p.A3680**
- P576 Ahr Promotes Pseudomonas Aeruginosa-Induced Intracellular Infection in Bronchial Epithelial Cells/P. Bortolotti, E. Faure, J. Berube, C. Baglolle, S. Rousseau, Montreal, Canada, p.A3681**
- P577 LTA4 Hydrolase Directs Bacterial-Induced Neutrophil Transepithelial Migration/L. Yonker, R. Hibbler, H. Mou, H.M. Leung, K. Gipson, B. Lanter, A. Eaton, G.J. Tearney, B.P. Hurley, Boston, MA, p.A3682**
- P578 Characterization of Cystic Fibrosis Plasma Induced Innate Immune Response and Its Clinical Implication/X. Zhang, A. Pan, J. Eze, K. Woods, K. Murkowski, P. Simpson, H. Levy, Chicago, IL, p.A3683**

THEMATIC POSTER SESSION

B57 PEDIATRIC INFECTION

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area F (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators
S. Yousef, MD, Orlando, FL

Facilitators: S. Yousef, MD, Orlando, FL
E. Belteon De Leon, MD, Guatemala, Guatemala

- P580 Evidence of In-Utero Respiratory Syncytial Virus Seropositivity in Newborns and Impact on Birth Outcomes/F. Esper, S. Manti, M. Alejandro-Rodriguez, S. Worley, F. Rezaee, G. Piedimonte, Cleveland, OH, p.A3684**
- P581 A Comparison Study: Treat Acute Bronchiolitis Infants with Hypertonic Saline by Small Volume Jet Nebulizer and Portable Vibrating-Mesh Nebulizer/T. Chou, E.Y.T. Chen, Y.-Y. Liu, I.P. Wu, M.-Y. Chien, H.-F. Hsiao, S.-H. Lai, Taoyuan, Taiwan, p.A3685**
- P582 Cost Illness of RSV Infection in Colombia/J.A. Buendia, D. Sinisterra, Medellin, Colombia, p.A3686**
- P583 Modifiable Risk Factors for Infection in Pediatric Lung Transplant Recipients/C. Onyearugbulem, L. Williams, Z. Huirong, M.C. Gazzaneo, E. Melicoff, S. Das, J.A. Coss-Bu, F. Lam, G.B. Mallory, F.M. Munoz, Houston, TX, p.A3687**
- P584 Pediatric Lung Transplant: Analysis of Lower Airway Virome/A. Metwally, C. Ascoli, K. Andropolis, R. Ranjan, A. Rani, B. Turturice, T.W. Ferkol, P.W. Finn, D. Perkins, Chicago, IL, p.A3688**
- P585 Clinical Features and Laboratory Diagnosis of Mycoplasma Pneumoniae Pneumonia in Children/H.J. Lee, K. Kim, E.A. Yang, H.S. Kim, Y.H. Chun, J.-S. Yoon, H.H. Kim, J. Kim, Seoul, Korea, Republic of, p.A3689**

- P586 The Microbiology of Bronchopulmonary Infections in Clinically Stable Patients Undergoing Bronchoalveolar Lavage in Aerodigestive Population: No Viral Colonization but Many Cases of Bacterial Colonizations/C. Conard, K. Boyne, R. Sabe, J. Shah, G. Kithcart, B.M. Gaston, Cleveland, OH, p.A3690**
- P587 Emergency Department Antibiotic Protocol Improves Empiric Antibiotic Appropriateness in Critically Ill Children with Severe Bacterial Pneumonia/M. Akande, N. Jamieson, S.P. Spencer, T.J. Karsies, Columbus, OH, p.A3691**
- P588 Epidemiology and Etiology of Croup in Korea: Long-Term Study from 2009 to 2017/Y. Sun, Incheon, Korea, Republic of, p.A3692**

THEMATIC POSTER SESSION

B58 WHO'S BAD: CASE REPORTS IN PULMONARY VASCULAR MEDICINE I

9:15 a.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER

Area J (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: T. Thenappan, MD, Minneapolis, MN

- P1009 Aberrant Right Pulmonary Artery with Hypoplasia of the Right Lung/A. Arjuna, M. Mody, C. Migliore, P. Patel, Newark, NJ, p.A3693**
- P1010 McConell's Sign Without Central PE in a Rare Case of Thrombotic Pulmonary Vasculopathy/A.T. Wickramaratne, R. Subramanian, Atlanta, GA, p.A3694**
- P1011 Successful Transition from Oral Selexipag to Intravenous Epoprostenol/J.L. Morales-Estrella, A. Chen, G.A. Heresi, Cleveland, OH, p.A3695**
- P1012 Denovo Pulmonary Arterial Hypertension After Liver Transplantation in Patient with History of Portopulmonary Hypertension/D. Kay, A. Karki, J. Cope, H. Alnuaimat, A. Ataya, Gainesville, FL, p.A3696**
- P1013 A Rare Case of Idiopathic Noncirrhotic Portal Hypertension Causing Hepatopulmonary Syndrome/P.J. Simpson, M. Dave, J.M. Chaffin, A. Ataya, Gainesville, FL, p.A3697**
- P1014 Metastatic Pulmonary Tumor Emboli Mimicking Chronic Thromboembolic Pulmonary Hypertension/A. Vaidy, P.R. Forfia, C. Dass, A. Vaidya, Philadelphia, PA, p.A3698**
- P1015 An Unusual Case of Intravenous Leiomyomatosis Masquerading as a Pulmonary Embolus/C. O'Donnell, M. Casey, A. Murphy, C. Andrews, N. Mulligan, J.Z. Chughtai, J. Hastings, B. Marsh, F. Ni Ainle, J. McGuinness, L. Lawler, S.P. Gaine, Dublin, Ireland, p.A3699**
- P1016 From Ovarian Coils to Pulmonary Emboli/J. Tonkin, B. Madden, London, United Kingdom, p.A3700**
- P1017 Hughes-Stovin Syndrome and Chronic Thromboembolic Pulmonary Hypertension: A Case Report/I.D. Joel, D.G. Papamatheakis, M.M. Madani, N.H. Kim, La Jolla, CA, p.A3701**
- P1018 Pulmonary Hypertension Associated with Idiopathic Hilar Fibrosis Successfully Treated with Calcium Channel Blocker/S.A. Suliman, J.S. Smith, K. El-Kersh, Louisville, KY, p.A3702**
- Facilitator:** C. Kholdani, MD, Stanford, CA
- P1019 Primary Pulmonary Arteritis Successfully Treated with Tocilizumab/M.H. Lee, B. Graney, R.K. Albert, Aurora, CO, p.A3703**
- P1020 Metastatic Renal Cell Carcinoma Mimicking Chronic Thromboembolic Pulmonary Hypertension/G. Senyei, D.G. Papamatheakis, W.R. Auger, V.G. Pretorius, T.M. Fernandes, La Jolla, CA, p.A3704**
- P1021 Extracorporeal Membrane Oxygenation (ECMO) as a Bridge to Recovery (BTR) in Incident Adult Patients with Severe Pulmonary Hypertension (PH) and Right Heart Failure: A Single Center Case Series/S. Sultan, S. Savajiyani, T.N. Hodges, R. Alalawi, R. Saggar, Phoenix, AZ, p.A3705**
- P1022 An Unusual Indication for Congenital Prothrombin Deficiency Associated with Thrombosis: A Report of Two Members in a Congenital Prothrombin Deficient Family/L. Wang, R. Han, J. Liu, S. Gong, Q. Zhao, Shanghai, China, p.A3706**
- P1023 A Case of Device-Associated Endocarditis and Septic Emboli Requiring Lead Extraction, AngioVac Suction, and Pulmonary Endarterectomy/E. Green, T. Pollema, U. Birgersdotter-Green, V. Pretorius, New Orleans, LA, p.A3707**
- P1024 High Output Cardiac Failure Associated with the Use of Riociguat for Pulmonary Hypertension/K.J. Cruz Morel, K. Lam, A. Sweatt, C. Kholdani, Y.K. Sung, Stanford, CA, p.A3708**
- P1025 Bronchopulmonary-Coronary Arterial Fistulas in Chronic Thromboembolic Pulmonary Hypertension: Series of 3 Cases/M. Pessi, E.P. Oliveira, D. Calderaro, C. Fernandes, C. Jardim, R. Souza, Sao Paulo, Brazil, p.A3709**
- P1026 Blinded by Science, Progressive Visual Impairment in a Patient with Retinitis Pigmentosa and Pulmonary Arterial Hypertension Treated with Tadalafil/A.M. Vergis, H.K. Bhatt, R.H. Anguiano, D.R. Fraidenburg, Chicago, IL, p.A3710**
- P1027 Morphing Physiology: A Case of Occult Systemic Sclerosis Sine Scleroderma Associated Pulmonary Hypertension/N. Ruopp, H.W. Farber, Boston, MA, p.A3711**
- P1028 Ketogenic Diet in Group 1 Pulmonary Hypertension Patient/J. Dyer, S. Wolver, D. Grinnan, Richmond, VA, p.A3712**
- Facilitator:** S. Pugliese, MD, Philadelphia, PA
- P1029 An Innovative Treatment Approach to Sub-Massive Acute on Chronic Pulmonary Embolism/I. Johnson, G. Polatoglu, T. Russi, R. Minkin, M. D'Ayala, M. Gill, Brooklyn, NY, p.A3713**
- P1030 Uncommon Etiology of Diffuse Alveolar Hemorrhage: Hereditary Hemorrhagic Telangiectasia/H. Kinni, S. Hegab, Detroit, MI, p.A3714**

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- P1031 Management Challenges of Right Atrial Thrombus - A Case Report**/J.D. Patel, A. Ataya, C. Gonsalves, P. Tunsupon, Gainesville, FL, p.A3715
- P1032 Pulmonary Vein Thrombi: Ablation and Prothrombotic Physiology Do Stick**/F. Solorio, H.A. Badi, E. Youssef, F. Safi, Toledo, OH, p.A3716
- P1033 Intravascular Lymphoma Mimicking Acute Pulmonary Embolism**/S. Cohen, M. Torossian, J.A. Falk, Los Angeles, CA, p.A3717
- P1034 Rare Case of Metastatic Leiomyosarcoma Complicated by Pulmonary Arteriovenous Malformation**/M. Patel, G. Trikha, Syracuse, NY, p.A3718
- P1035 Three-A-Day Dosing of Selexipag in the Treatment of Pulmonary Arterial Hypertension: A Case Series**/N. Habib, J.P. Feldman, Phoenix, AZ, p.A3719
- P1036 Hypoxemia and Ground-Glass Opacities: A Case of Pulmonary Capillary Hemangiomatosis**/G. Thompson, H. Yadav, H.M. DuBrock, B. Lanpher, Rochester, MN, p.A3720
- P1037 Opioid Epidemic and Pulmonary Hypertension, What Do They Have in Common?**/M. Berrou, M. Chaker, P. Almalouf, Mobile, AL, p.A3721
- P1038 Unfolding a Rare Case of Frank Hemoptysis: In History Lies All the Secrets**/A.Z. Rasheed, M. Shahzadi, L.N. Gerolemou, V.P. Vasudevan, F. Arjomand, Brooklyn, NY, p.A3722
- Facilitator:** A. Trammell, MD, Atlanta, GA
- P1039 P.E. or Not P.E: A Rare Case of Pulmonary Artery Stump Thrombosis In-Situ**/K. Schwab, I.C. Jun, J. Betancourt, Los Angeles, CA, p.A3723
- P1040 Acute Cor Pulmonale and Cardiovascular Collapse Following Illicit Cosmetic Silicone Injections**/C. Graziani, J. Hsieh, D. Smith, W. Neveu, B. Demoss, C. Grodzin, Atlanta, GA, p.A3724
- P1041 Pulmonary Embolism Diagnosed During Endobronchial Ultrasonography**/A.P. Noriega Aldave, U. Sofi, Roanoke, VA, p.A3725
- P1042 Living with One Lung**/S. Pirrotta, U. Chaddha, N. Damaghi, B. Yaghmour, Los Angeles, CA, p.A3726
- P1043 My Baby Gave Me Hypoxemia**/D. Aponte, M.A. Farinacci Vilaro, M.J. Cruz Caliz, K.X. Rivera, J.R. Adorno, San Juan, PR, p.A3727
- P1044 An Unusual Cause of Massive Pulmonary Embolism**/S. Whealon, E.B. Friedman, Wynnewood, PA, p.A3728
- P1045 In-Situ Pulmonary Artery Thrombosis in a Patient with Pulmonary Arterial Hypertension Due to Sinus Venosus Atrial Septal Defect**/A. Wong, A.S. Witkin, J.M. Rodriguez-Lopez, R.N. Channick, Boston, MA, p.A3729
- P1046 Paradoxical Embolization and a Large Pulmonary Arteriovenous Malformation**/R. Sternschein, F.N. Rahaghi, R. San Jose Estepar, G.R. Washko, W.M. Oldham, Boston, MA, p.A3730
- P1047 An Uncommon Cause of Hypoxia; Pulmonary Arteriovenous Malformations Successfully Treated with Embolization**/K. Alshabani, M. Smith, J.G. Parambil, H.S. Rai, Cleveland, OH, p.A3731

THEMATIC POSTER SESSION

B59 SHOOT THE CURL: SPLASHING INTO MECHANISMS OF ENDOTHELIAL CELL FUNCTION AND VASCULAR REMODELING IN PH

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area J (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.**Discussion:** 11:15-12:00: authors will be present for individual discussion

12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: N. Dhillon, PhD, Kansas City, KS

- P1049 Caspase-1 Protects Against Amyloid-Induced Pulmonary Microvascular Endothelial Cell Monolayer Damage**/P. Renema, M.L. Jackson, J. Audia, T. Stevens, D.F. Alvarez, Mobile, AL, p.A3732
- P1050 Development of a Novel Estrogen Metabolite LC-MS/MS Assay: Influence of 16alphaOHE2 in Blood Outgrowth Endothelial Cells in Pulmonary Arterial Hypertension**/N. Denver, K.Y. Harvey, R. Andrew, N.Z.M. Homer, N.W. Morrell, M.R. MacLean, Glasgow, United Kingdom, p.A3733
- P1051 Signaling in Vascular Endothelium by Varying Degrees of Mechanical Stretch**/Y. Ke, C. Zhang, Y. Li, T. Nguen, P. Karki, K.G. Birukov, A. Birukova, Baltimore, MD, p.A3734
- P1052 TGF- β -Induced Endothelial-to-Mesenchymal Transition in Normal Human Lung Vascular Endothelial Cells Is Ca²⁺-Dependent Event**/A. Babicheva, S. Song, S. Carr, A. Makino, J.X.J. Yuan, Tucson, AZ, p.A3735
- P1053 Knockout of TRPC4 Reduces Cytosolic Ca²⁺ Transients and Delays Store-Operated Ca²⁺ Entry**/N. Xu, C.M. Francis, M.T. Lin, T. Stevens, Mobile, AL, p.A3736
- P1054 The Function of Endothelial TRPV4 Channels Is Attenuated in Pulmonary Arterial Hypertension**/C. Marziano, K. Hong, E.L. Cope, S.K. Sonkusare, Charlottesville, VA, p.A3737
- P1055 Differentially Expressed Proteins in Pulmonary Endothelial Cells in Chronic Thromboembolic Pulmonary Hypertension**/S.B. Nukala, O. Tura, L. Regazzoni, C. Marinello, A. Abdali, G. Aldini, V.F. Smolders, I. Blanco, J.A. Barbera, M. Cascante, M. Carini, Milan, Italy, p.A3738
- P1056 Effect of Nintedanib in Experimental Pulmonary Hypertension Depends on the Condition of Pulmonary Arterial Endothelial Cell**/T. Yoshida, T. Nagaoka, T. Tsutsumi, Y. Suzuki, S. Kuriyama, K. Takahashi, Tokyo, Japan, p.A3739
- Facilitator:** K. Yuan, PhD, Palo Alto, CA
- P1057 Inhibition of YAP1 Via Verteporfin Attenuates Hypoxia- or Hypoxia Sugen Mediated Pulmonary Hypertension and Pulmonary Vascular Remodeling in Rodents**/J. Chen, S. Zhao, Y. Wang, N. Felesena, L. Huang, R.F. Machado, Chicago, IL, p.A3740

- P1058 Increased Circulating miR-596 Levels Is Associated with Poor Survival in Idiopathic Pulmonary Arterial Hypertension/P.** Yuan, L. Jimin, Shanghai, China, p.A3741
- P1059 Simulation of Arteriopathy in Rat Pulmonary Arteries Including Effects of Sildenafil/J.** Alexander, S.M. Evans, R.A. Edwards, L. Manca, A. Savoldelli, R. Grugni, F. Schlerman, K. Brenneman, Z. Yang, J.G. Teeter, P. Yaworsky, New York, NY, p.A3742
- P1060 Inhaled L-Carnitine Attenuates the Development of Pulmonary Arterial Hypertension in Rats/S.** Sears, M.F. Acosta, H. Tang, C. Klinger, J.X.J. Yuan, H.M. Mansour, S.M. Black, Tucson, AZ, p.A3743
- P1061 Hypoxia-Induced Pulmonary Hypertension in C57BL/6J and C57BL/6N Mice: Is There Any Difference?/S.** Shinomiya, S. Mizuno, F. Grimminger, H.A. Ghofrani, N. Weissmann, W. Seeger, B. Kojonazarov, H. Toga, R.T. Schermuly, Ishikawa, Japan, p.A3744
- P1062 Extracellular Vesicles Increase After Initiation/Intensification of PAH Therapies/D.** Lachant, A. Light, D. Haight, R.J. White, Rochester, NY, p.A3745
- P1063 Sugon-Morphine (SuMo) Rat Model for Pulmonary Arterial Hypertension/S.** Agarwal, Z. Harter, L. Chen, J. Allen, N.K. Dhillon, Kansas City, KS, p.A3746
- P1064 Cerivastatin Nano-Liposomes Attenuate Pulmonary Arterial Hypertension (PAH) in a Preclinical Model: A Novel Approach to Achieve Greater Safety and Efficacy of a Disease Modifying Drug/Y.** Lee, B. Pai, R. Bellamkonda, D. Thompson, J. Singh, Indianapolis, IN, p.A3747
- Facilitator:** D.J. Stewart, MD, Ottawa, Canada
- P1065 Biomarkers of Inflammation and Metabolic Stress in a Bovine Model of Pulmonary Hypertension with Left Ventricular Fibrosis and Pulmonary Venous Remodeling/G.M.** Krafzur, R.D. Brown, T.N. Holt, D.H. Gould, F. Garry, S. Riddle, J. Neary, M. Enns, M. Thomas, K.R. Stenmark, Aurora, CO, p.A3748
- P1066 RARI049: A Novel Nicotinamide Phosphoribosyltransferase Inhibitor Attenuates Pulmonary Vascular Remodeling/M.** Bae, X. Guan, J. Theorell, W. Mazumdar, J. Chen, A. Sorokina, D. Lantvit, J. Hickok, K. Ratia, G. Thatcher, T. Driver, R.F. Machado, Chicago, IL, p.A3749
- P1067 Niclosamide Ameliorates Pulmonary Arterial Hypertension by Attenuate Remodeling Process in an Experimental Model/C.** Braga, N. Felix, C. Barbosa, D. Teixeira, M.A.A. Almeida, N.D.N. Rocha, C. Caruso, F.F. Cruz, P.R.M. Rocco, P.L. Silva, Rio de Janeiro, Brazil, p.A3750
- P1068 Cathepsin S Signaling Promotes Pulmonary Vascular Remodeling/Y.-J.** Lai, C.-J. Chang, Tao-Yuan, Taiwan, p.A3751
- P1069 Hemodynamics Changes in the Progression of Pulmonary Arterial Hypertension in Two Animal Models/D.** Valdez-Jasso, D. Velez-Rendon, La Jolla, CA, p.A3752
- P1070 Inhaled Liposomal Treprostinil Shows Sustained Pharmacokinetic Profile, Lower Irritation, and Potentials of Reducing Dosing Frequency/P.** Kan, K.-J. Chen, C.-F. Hsu, Y.-F. Lin, Taipei, Taiwan, p.A3753
- P1071 Reduced BMPR2 Signaling Alters the Expression of Hypertrophy Related Genes in Induced Pluripotent Stem Cell Derived Cardiomyocytes of PAH Patients/K.** Kuramoto, M. Boehm, X. Tian, S. Dannewitz, M. Gu, S. Silin, T. Seeger, T. Kitani, J.C. Wu, M. Rabinovitch, E.F. Spiekerkoetter, Stanford, CA, p.A3754
- Facilitator:** E.F. Spiekerkoetter, MD, Palo Alto, CA
- P1072 Association of Circulating miR-144-3p and miR-574-5p with Hemodynamics in Patients with Idiopathic Pulmonary Arterial Hypertension/P.** Yuan, Shanghai, China, p.A3755
- P1073 SMAD9 Silencing in Human Pulmonary Artery Endothelial Cells Produces Hypermotility and Non-Canonical Kinase Pathway Activation/M.** Abbas, K. S. Awad, E.J. Dougherty, G. Ferreyra, J.M. Elinoff, M. Abu-Asab, R.L. Danner, Bethesda, MD, p.A3756
- P1074 Endothelial Gremlin1 Plays an Important Role in the Homeostasis of the Pulmonary Circulation/S.C.** Rowan, J. Cornwell, L. Piouceau, P. McLoughlin, Dublin, Ireland, p.A3757
- P1075 Endothelial Mitochondrial Dysfunction and Reactive Oxygen Species Production in the Sugon/Hypoxia Model of Pulmonary Arterial Hypertension/K.** Suresh, L. Servinsky, H. Jiang, J. Zaldumbide, Z. Bigham, J. Huetsch, C. Kliment, L.A. Shimoda, Baltimore, MD, p.A3758
- P1076 Increased Lymphangiogenesis in Animal Models of Pulmonary Arterial Hypertension/P.** Zhang, A.W. Tian, A.B. Tu, X. Jiang, M.R. Nicolls, Palo Alto, CA, p.A3759
- P1077 Potential Role for Adipose-Derived 16 α -Hydroxyestrone in the Development of Experimental Pulmonary Hypertension/K.** Mair, A.D. Henry, K.Y. Harvey, M. Nilsen, M.R. MacLean, Glasgow, United Kingdom, p.A3760
- P1078 Alpha Lipoic Acid Improves Endothelial Function in Mice Subjected to Chronic Intermittent Hypoxia/M.** Badran, B.H. Abuyassin, S. Golbidi, N. Ayas, I. Laher, Vancouver, Canada, p.A3761

THEMATIC POSTER SESSION

B60 HERE WE CLOT AGAIN: CLINICAL STUDIES IN PE AND CTEPH

9:15 a.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER

Area J (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: G.A. Heresi, MD, Cleveland, OH
T.S. de Guia, MD, Quezon City, Philippines

P1080 Recurrent Venous Thromboembolism Is Common in Adults with Sickle Cell Disease/R. Strykowski, B. Scarpato, J. Patel, R.T. Cohen, S.M. Nouraie, E.S. Klings, Boston, MA, p.A3762

P1081 Saddle Up. Clinical Insignificance of Saddle Pulmonary Embolism/G. Dangol, T.J. Barreiro, D. Gemmel, S. Maharjan, Youngstown, OH, p.A3763

- P1082** **“Are We CAT-o-Maniac?” Study of Appropriateness of CT-Angiography of Chest to Rule Out Pulmonary Embolism in Patients with Suspected PE/I.** A. Lalani, R. Raj, R. Annam, M. Doraiswamy, M.H. Eng, Long Branch, NJ, p.A3764
- P1083** **SPECT/CT Vs CTPA and D-Dimer in Evaluation of Acute Pulmonary Embolism/N.** Montecalvo, A. Goldbach, R. McLarney, P. Hota, S. Dadparvar, Philadelphia, PA, p.A3765
- P1084** **Prognostic Role of Pulmonary Hypertension and Right Ventricular Dysfunction Detected by Echocardiography and Chest CT in Acute Pulmonary Thromboembolism/S.H.** Kim, Y. Jung, J. Oh, J. Kim, S.H. Jung, J.A. Kweun, Seoul, Korea, Republic of, p.A3766
- P1085** **Evaluation of CT Angiograms from the Hahnemann Emergency Room of CT Angiograms from the Hahnemann Emergency Room/E.** Randhawa, M. Stephen, Philadelphia, PA, p.A3767
- P1086** **Clinical Utility of Prognostic Scores in Pulmonary Embolism/V.** Trujillo, J. Padua, A. Sánchez, R. Pérez, A. Cadena, E. Murrieta, X. Reyes, Mexico City, Mexico, p.A3768
- P1087** **Clinical Characteristics of Pulmonary Embolism: A Single Institutional Experience/A.** Iftikhar, J. Centeno, A. Hines, M. Cheema, A. Adial, H. Singh, A.J. Smith, Flushing, NY, p.A3769
- P1088** **Neutrophil-to-Lymphocyte Ratio as Predictor for Hospital Mortality in Patients with Acute Pulmonary Embolism/W.** Mansour, B. Karam, J. Zaidan, B. Kfoury, S. Abbasi, S. El Bitar, B. Nazha, Z. Esper, M. Chalhoub, Staten Island, NY, p.A3770
- Facilitator:** B.N. Rivera-Lebron, MD, MS, Pittsburgh, PA
- P1089** **Outcomes Following a Negative Computed Tomography Pulmonary Angiography According to Pulmonary Embolism Prevalence: A Meta-Analysis of the Management Outcome Studies/D.** Belzile, S. Jacquet, L. Bertolotti, Y. Lacasse, C. Lambert, J.-C. Lega, S. Provencher, Québec, Canada, p.A3771
- P1090** **Overutilization of CT Angio Chest to Rule Out Pulmonary Embolism, Can Pisa Model Used as the Pre-Probability Criteria?/M.** Shahzadi, V.P. Vasudevan, R. Chand, I. bhatt, M.K. Sarwar, L.N. Gerolemou, F. Arjomand, A.Z. Rasheed, Brooklyn, NY, p.A3772
- P1091** **Age Adjusted D-Dimer Cut Off: Could this Prove Cost-Effective and Safe for Our Emergency Units?/M.** Gautam, A. Kasis, C. Downey, S. Townley, A. Lakhanpal, T. Dutt, M. Mills, Liverpool, United Kingdom, p.A3773
- P1092** **Determinants of Worse Outcomes in Patients with Acute Pulmonary Embolism Who Present with Syncope/B.** Kim, E. Bondarsky, G. Barmaimon, M.R. Ehrlich, D. Pan, R. Iyengar, J. Filopei, D. Steiger, New York, NY, p.A3774
- P1093** **Comparison Between Caprini and Khorana Risk Assessment Models for Hospitalized Medical Patients with Cancer at High Risk for Venous Thromboembolism: A Retrospective Study/Y.** Hu, Chengdu, China, p.A3775
- P1094** **Predictors of 30-Day Mortality in Patients with Acute Pulmonary Embolism/M.** Kanwar, A. Patel, R.L. Benza, Pittsburgh, PA, p.A3776
- P1095** **Current Practice and Future Direction for Hospital Admission in Pulmonary Embolism Patients and Validation of Hestia Criteria at Single Institution/K.** Patel, S. Baltaji, E. Sahota, E. Bihler, Pittsburgh, PA, p.A3777
- P1096** **Resolution of McConnell’s Sign in Acute Pulmonary Embolism Using Serial Point-of-Care Ultrasound/E.** Bondarsky, J. Bell, J. Filopei, D. Steiger, Y.I. Lee, New York, NY, p.A3778
- Facilitator:** K.M. Kerr, MD, La Jolla, CA
- P1097** **Do Pulmonary Embolism Response Teams (PERTs) Have a Role in Community Based Hospitals? A Five Month Community Based PERT Experience/A.** Khosla, R. Scatena, A.M. Ahasic, Norwalk, CT, p.A3779
- P1098** **The Use of a Pulmonary Embolism Response Team (PERT) at University of Virginia Medical Center to Improve Patient Outcomes/K.** Pal, J. Solanki, A. Kadl, A.D. Mihalek, S. Mazimba, J. Kennedy, Z. Haskal, J. Angle, G. Ailawadi, P.T. Norton, K.D. Hagspiel, D. Burt, A. Sharma, Charlottesville, VA, p.A3780
- P1099** **Reduction of “Diagnosis to Anticoagulation Time” with Modified PERT Protocol/K.** Patel, E. Sahota, S. Baltaji, M.R. Balaan, E. Bihler, Pittsburgh, PA, p.A3781
- P1100** **Safety of Ultrasound Enhanced Catheter Directed Thrombolysis (EKOS™) in Pulmonary Embolism: A Retrospective Review/H.** Yousaf, T. Gianis, C. Brown, M. Patel, C. Hendrix, D. Roma, Savannah, GA, p.A3782
- P1101** **Efficacy of Thrombolytic Therapy in Patients with Massive Pulmonary Embolism: Systematic Review and Meta-Analysis/D.** Jimenez, E. Barbero, D. Chiluitza, D.D. Barrios, R. Morillo, C.A. Quezada, I. Guerassimova, R.D. Yusen, Madrid, Spain, p.A3783
- P1102** **Thrombus in Retrievable Inferior Vena Cava Filters (IVCFs), Now What?/J.** Minor, C.-M. Liu, S. Rajan, S. Wang, Santa Clara, CA, p.A3784
- P1103** **Exploring the Role of Sildenafil in Acute Pulmonary Embolism/H.** Hall, C. Orton, R. Mirza, E. Shaw, B.P. Madden, London, United Kingdom, p.A3785
- P1104** **Ultrasound-Assisted Catheter-Directed Thrombolysis (UACDT) Compared with Anticoagulation Alone for Treatment of Acute Submassive Pulmonary Embolism/A.J.** Schissler, R.J. Glynn, P.S. Sobieszczyk, A.B. Waxman, Boston, MA, p.A3786
- Facilitator:** D.S. Poch, MD, La Jolla, CA
- P1105** **Riociguat in Chronic Thromboembolic Pulmonary Hypertension (CTEPH): Evaluation of Abbreviated Versions of the ESC/ERS Risk Assessment Tool in CHEST-2/H.W.** Farber, M. Humbert, M. Hoepfer, D. Busse, C. Meier, H.-A. Ghofrani, Boston, MA, p.A3787
- P1106** **Submaximum Exercise Testing to Evaluate Outcomes After Pulmonary Thromboendarterectomy/P.** Joseph, J. Tracy, H. Mallidi, A.B. Waxman, D.M. Systrom, Boston, MA, p.A3788
- P1107** **Vascular Endobronchial Ultrasound in Patients with Chronic Thromboembolic Pulmonary Hypertension. A Pilot Study/C.** Ghattas, R.N. Channick, C. Wright, G. Vlahakes, C. Channick, Boston, MA, p.A3789

- P1108** **The Wall Shear Stress of the Pulmonary Arteries in the Patients with Chronic Thromboembolic Pulmonary Hypertension Before and After Balloon Pulmonary Angioplasty; Analysis Using Computational Fluid Dynamics/H.** Tsubata, N. Nakanishi, K. Itatani, K. Fukai, K. Yanishi, K. Zen, T. Yamano, T. Nakamura, H. Shiraishi, T. Shirayama, H. Yaku, S. Matoba, Kyoto, Japan, p.A3790
- P1109** **Postoperative Clinical Factors Associated with Long-Term Prognosis Following Pulmonary Endarterectomy in Patients with Chronic Thromboembolic Pulmonary Hypertension/D.** Aoyama, S. Fukui, T. Ogo, R. Asano, N. Konagai, J. Ueda, A. Tsuji, T. Arakawa, M. Nakanishi, K. Uehara, H. Sasaki, H. Matsuda, S. Yasuda, Suita City, Osaka, Japan, p.A3791
- P1110** **Mediastinal Granuloma as a Risk Factor for Patients Undergoing Pulmonary Endarterectomy/E.H. Pratt, M.E. Pugh, I.M. Robbins, M. Petracek, A.S. Shah, A.R. Hemnes, Nashville, TN, p.A3792**
- P1111** **U.S. CTEPH Registry: Reasons Patients Submitted to the Registry Failed Adjudication/V.J. Test, K.M. Kerr, W.R. Auger, R.N. Channick, I.M. Robbins, Durham, NC, p.A3793**
- P1112** **Clinical Features of Pulmonary Tumor Thrombotic Microangiopathy: Analysis of 149 Cases in Literature/R.** Godbole, N. Kamangar, Orange, CA, p.A3794
- P886** **Identification of Subpopulations of Human Small Airway Epithelial Club Cells/M.** LeBlanc, S. Shenoy, M. Rostami, W.-L. Zuo, J.G. Mezey, R.G. Crystal, New York, NY, p.A3799
- P887** **Tiotropium Inhibits the Release of Microparticles Induced by Different Stimuli and Their Autocrine Proinflammatory Action on Lung Epithelial Cells/T.** Neri, I. Passalacqua, V. Scalise, D. Neri, M. Daniele, G. Parri, R. Pedrinelli, P. Paggiaro, A. Celi, Pisa, Italy, p.A3800
- P888** **Inhibitory Effect of Glucocorticoids on TGF- β 1-Mediated Epithelial-to-Mesenchymal Transition of Airway Epithelium Via MAPK and Snail Slug Signaling Pathways/H.-M. Lee, H.-W. Yang, S.A. Lee, J.-H. Park, J.-M. Shin, Seoul, Korea, Republic of, p.A3801**
- P889** **Inhibition of NOTCH3 Signaling Abolishes MUC5AC Production in Human Airway Epithelial Cells/A.T. Reid, K.S. Nichol, L. Wei, F. Moheimani, N.W. Bartlett, P.M. Hansbro, P.A. Wark, C. Grainge, D.A. Knight, Callaghan, Australia, p.A3802**
- P890** **The CREB-Regulated Transcription Coactivators, CRT2/3, Facilitate the Synergistic Induction of RGS2 by LABAs and Glucocorticoids in Human Bronchial Epithelial Cells/M.L.** Manson, Z. Rojnik, K. Thorn, C. Karrman Mardh, R. Newton, Gothenburg, Sweden, p.A3803
- P891** **Goblet-Cellular Component of Epithelium and Inflammatory Pattern of Bronchi in Asthmatics with Cold Airway Hyperresponsiveness/J.M. Perelman, A.B. Pirogov, A.G. Prikhodko, S.V. Zinov'ev, V.P. Kolosov, Blagoveschensk, Russian Federation, p.A3804**

THEMATIC POSTER SESSION

B61 EPIHELIAL CELL BIOLOGY IN RESPIRATORY DISEASE

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area H (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: J.L. Hook, MD, New York, NY

- P882** **Mechanisms for Bone Marrow Multipotent Stem Cells to Restore Alveolar Fluid Clearance Via Epithelial Sodium Channels in Lung Progenitor Cells/J.** Chang, Shenyang, China, p.A3795
- P883** **Hypercapnia Decreases Na,K-ATPase β -Subunit Cell Surface Abundance by Inducing ER Retention of the Protein in Alveolar Epithelial Cells/V.** Kryvenko, W. Seeger, I. Vadász, Giessen, Germany, p.A3796
- P884** **MMP28 Is Upregulated in Idiopathic Pulmonary Fibrosis (IPF) Epithelium and Is a Promising Biomarker to Distinguish IPF from Non-IPF Patients/M.** Maldonado, I. Buendia, V. Vicens Zygmunt, L. Planas, M. Molina Molina, M. Selman, A. Pardo, Mexico City, Mexico, p.A3797
- P885** **Epithelial TREK-1 Potassium Channels Protect Alveolar Barrier Function/A.** Schwingshackl, B. Lopez, B. Teng, C.M. Waters, Los Angeles, CA, p.A3798
- P892** **ROS-Nrf2 Pathway Mediates the Development of TGF- β 1-Induced Epithelial-Mesenchymal Transition Through the Interaction with Notch Signaling/Y.** Matsuno, M. Matsuyama, T. Kiwamoto, Y. Morishima, Y. Ishii, N. Hizawa, Tsukuba, Japan, p.A3805
- P893** **CFTR Blockade Stimulates Airway Epithelial IL-8 Production Via Na⁺/H⁺ Exchange- and Ca²⁺-Dependent EGFR Activation/S.** Kim, B.A. Beyer, Q. Tian, R. Baron, S.M. Smith, Portland, OR, p.A3806
- P894** **Alveolar Epithelial Cell Processing of Nanoparticles: Distribution Between Cytosolic and Vesicular Compartments/A.** Sipos, K.-J. Kim, R.H. Chow, Z. Borok, E.D. Crandall, Los Angeles, CA, p.A3807
- P895** **Epithelial Deletion of Sulf2 Alters Alveolar Structure and Gene Expression in the Lung/X.** Yue, X.K. Yang, J.J. Guidry, New Orleans, LA, p.A3808
- P896** **Cigarette Smoke Alters Endocytosis in Primary Human Small Airway Epithelial Cells/P.** Duffney, T.H. Thatcher, R.P. Phipps, P.J. Sime, Rochester, NY, p.A3809
- P897** **The Role of Hypoxia Inducible Factors in Maintenance of Airway Epithelial Health/S.** Pasupneti, A. Tian, X. Jiang, M.R. Nicolls, Palo Alto, CA, p.A3810
- P898** **Ciliary Activity of Bronchial Epithelium Under Experimental Cold Stress In Vitro/J.M.** Perelman, A.N. Odireev, K.F. Kilimichenko, N.S. Bezrukov, D.E. Naumov, V.P. Kolosov, Blagoveschensk, Russian Federation, p.A3811

Facilitator: A.L. Firth, PhD, Los Angeles, CA

- P899 Nicotine Activates Epithelial TRPA1 Receptors to Cause Mucociliary Dysfunction/S.** Chung, R. Moore, J.S. Dennis, N. Baumlin, M.D. Kim, M.A. Salathe, Miami, FL, p.A3812
- P900 Aquaporin-3 Protects Airway Epithelial Cells in COPD by Regulating Stearoyl-Coadesaturase-1/J.** Zhou, G. Zhang, M. Chang, Y. Song, Q. Hong, C. Bai, Shanghai, China, p.A3813
- Facilitator:** J.D. Londino, PhD, Pittsburgh, PA
- P901 Regulation of IL-17C Expression by Proinflammatory Cytokines and Th2 Cytokines in Airway Epithelial Cells/K.** Yamanaka, T. Fujisawa, H. Kusagaya, K. Mori, M. Niwa, K. Furuhashi, M. Kono, E. Hamada, T. Suda, M. Masato, Hamamatsu, Japan, p.A3814
- P902 Intermittent Cigarette Smoke Promotes Proliferation of Alveolar Epithelial Type 2 Cells More than the Continuous Cigarette Smoke/H.** Irie, S. Chubachi, A. Tsutsumi, N. Kameyama, K. Sakurai, M. Ozaki, M. Ishii, A.E. Hegab, T. Betsuyaku, Tokyo, Japan, p.A3815
- P903 FGF2 Augments EMT Gene Expression in Airway Epithelial Cells Exposed to TGF β 1/L.** El-Baz, N. Shoukry, M. Salem, H. Hafez, R. Guzy, Chicago, IL, p.A3816
- P904 Cellular Composition of Induced Sputum, Epithelial Destruction and the Contents of Bronchi Goblet Cells in Asthmatics After Acute Cold Bronchoprovocation/V.P.** Kolosov, A.B. Pirogov, A.G. Prikhodko, S.V. Zinov'ev, J.M. Perelman, Blagoveschensk, Russian Federation, p.A3817
- P905 5-HT Promote Epithelial to Mesenchymal Transition Via 5-HT(2A/2B) Receptors in 16-HBE/T.** Yang, H. Wang, Y. Shen, C. Wan, F. Wen, Cheng Du, China, p.A3818
- P906 Gene Expression Profiling of Primary Human Type I Alveolar Epithelial Cells Exposed to Bacillus Anthracis Spores Reveals Induction of Neutrophil and Monocyte Chemotactic Activity/J.L.** Booth, E.S. Duggan, V.I. Patel, W. Wu, D. Burian, D.C. Hutchings, V. White, K.M. Coggeshall, M.G. Dozmorov, J.P. Metcalf, Oklahoma City, OK, p.A3819
- P907 Alterations of Exosome Cargo Induced by Oxidative Stress in Human Bronchial Epithelial Cells/N.** Olave, C.V. Lal, S. Fleisher, B. Halloran, N. Ambalavanan, Birmingham, AL, p.A3820
- P908 A Dynamic and Morphological Analysis of Airway Epithelial Stem Cells During the Maturation of Porcine Lung/Y.** Jia, J. Yang, J. Shi, J. Xue, J. Wu, X. Liu, Yinchuan, China, p.A3821
- P909 Exosome Inflammatory Cytokine Cargo from Airway Epithelial Cells and Mesenchymal Stem Cells in COPD Patients and Never Smokers/K.L.** Bailey, T.A. Wyatt, H.M. Strah, D.M. Katafiasz, A.J. Heires, A. Siddique, T.M. Nordgren, D.J. Romberger, Omaha, NE, p.A3822
- Facilitator:** R. Zemans, MD, Ann Arbor, MI
- P910 Retinoic Acid Upregulates Endothelial-Derived Angiocrine Factors to Promote Human Alveolar Epithelial Repair/J.** Alcáda, D. Shao, M.J. Griffiths, C. Dean, M. Hind, London, United Kingdom, p.A3823
- P911 Human Lung Organoids In Vivo Using iPS Cell-Derived Alveolar Epithelial Type 2 Cells/Y.** Yamamoto, S. Gotoh, Y. Korogi, S. Ikeo, N. Sone, K. Tamai, K. Satoshi, T. Hirai, Kyoto, Japan, p.A3824
- P912 Caveolin1 Regulates Mitochondrial Homeostasis in the Alveolar Epithelium/H.** Shaghghi, D. Schriener, X. Hong, M.I. Ramirez, F. Romero, R.S. Summer, Philadelphia, PA, p.A3825
- P913 LYPD2, Likely Functioning Through the CHRHA7 Nicotine Receptor, Plays a Central Role in Modulating Inflammation-Related Gene Expression in the Airway Epithelium/H.** Zhang, J. Salit, R.G. Crystal, New York, NY, p.A3826
- P914 The Progenitor Cell Marker LGR5 Is Reduced in Epithelial Cells in Emphysema/Y.** Hu, W.A. Skronska-Wasek, C. Ota, K.I.A. Mutze, H. Baarsma, D.E. Wagner, M. Lehmann, K.R. Bracke, G.G. Brusselle, A.O. Yildirim, M. Koenigshoff, Aurora, CO, p.A3827
- P915 NRF2 Regulation of ADH7 Expression in the Human Airway Epithelium Occurs Via Both Retinoic Acid Receptor and KEAP1 Pathways/S.A.** Owusu, G. Wang, P.L. Leopold, J. Salit, R.G. Crystal, New York, NY, p.A3828
- P916 Na,K-ATPase $\alpha\beta$ Heterodimers and FXDY5 Compete for the Regulation of the Alveolar Epithelial Barrier/O.** Vagin, E. Tokhtaeva, J.I. Sznajder, L.A. Dada, Los Angeles, CA, p.A3829
- P917 Differentiation of Induced Pluripotent Stem Cells iPS into Human Bronchial Epithelium Using a Three-Dimensional Organoid System/E.** Ahmed, S. Assou, M. Fieldes, A. Petit, I. Vachier, P. Chanez, J. De Vos, A. Bourdin, Montpellier, France, p.A3830
- P918 Urokinase Is Required for Alveolarization of Lung Epithelial Layer/G.** Ali, M. Zhang, R. Zhao, S. Komatsu, M. Ikebe, B. Zhou, J. Liang, D. Jiang, M.A. Matthay, H.L. Ji, Tyler, TX, p.A3831
- Facilitator:** J. Verheyden, PhD, La Jolla, CA
- P919 sGC Stimulators Modulate BK Channel Activity in Human Airway Epithelial Cells/M.** Kim, Y. Pantoja, M. Yoshida, N. Baumlin, M.A. Salathe, Miami, FL, p.A3832
- P920 The Bcl-2 Family Protein, Noxa, Inhibits NF- κ B-Mediated Inflammation in Airway Epithelia by Delaying I κ B α Degradation/J.T.** Jones, C. Zhang, H.S. Chand, C.M. Evans, B.F. Dickey, Y.A. Mebratu, Y. Tesfaigzi, Albuquerque, NM, p.A3833
- P921 Complete Characterization of a Novel In Vitro Model for Human Pediatric Lung Epithelial Cells/O.** Wang, S. Bhattacharya, J.A. Mereness, J. Lillis, R. Misra, S. Romas, H.L. Huyck, A. Howell, G. Bandyopadhyay, K. Donlon, J. Myers, J. Ashton, G.S. Pryhuber, T.J. Mariani, Rochester, NY, p.A3834
- P922 Transcriptome Analysis of Type II-Gated Alveolar Epithelial Cells Reveals Convergent and Divergent Molecular Signatures in COPD and IPF Lung Explants/S.** Chu, S. Poli, Y. Sakairi, R.S. Kelly, R. Chase, X. Liang, K. Tsoyi, S.Y. El-Chemaly, M.A. Perrella, G.M. Hunninghake, D.L. DeMeo, E.K. Silverman, A.M.K. Choi, G.R. Washko, B.A. Raby, I.O. Rosas, Boston, MA, p.A3835
- P923 Pulmonary Fibrosis MUC5B Risk Allele rs35705950 Is Associated with Transcriptional Profiles of Senescence and Epithelial-to-Mesenchymal Transition in Airway Cells Cultured at Air-Liquid Interface/J.S.** Kurche, J. Huber, E. Dobrinskikh, J.S. Kurche, C.M. Evans, I.V. Yang, D.A. Schwartz, Aurora, CO, p.A3836

- P924** **Effect of High Fat Diet and Aging on Lung Epithelial Stem Cells/A.E. Hegab, M. Ozaki, S. Kagawa, T. Betsuyaku, Tokyo, Japan, p.A3837**
- P925** **Aged Mice Exhibit Deficiency in Quantity and Integrity of Lung Epithelial β 4+ Progenitor Cells/J. Noriega, X. Li, J. Zabner, A.P. Comellas, Iowa City, IA, p.A7738**
- P926** **Deficiency Tsc1 in Alveolar Epithelial Cell Aggravates Bleomycin-Induced Pulmonary Inflammation in Mice/A. Ma, J. Li, Q. Liu, Y. Jiang, K. Xu, Xiamen, China, p.A7739**
- P927** **Inhibition of BET Proteins Modulates Immuno-Inflammatory Signaling Pathways in Primary Human Lung Cells/H. Feldser, D. Chalupowicz, J.-P. Kou, D. Carpenter, P. Landis, N. Goodwin, P.L. Podolin, W. Rumsey, Y. Sanchez, Collegeville, PA, p.A7740**
- P935** **IL-17C, a Novel Cytokine that Promotes Neutrophil Recruitment, Is Differentially Expressed in Healthy Smokers and COPD Patients/K.C. Jamieson, S. Traves, C. Dumonceaux, A.N. Michi, R. Leigh, D. Proud, Calgary, Canada, p.A3844**
- P936** **Bcl-2 Interacting Killer (BIK) Augments Influenza A Virus Replication and Severity of Flu/Y.A. Mebratu, Y. Tesfaigzi, Albuquerque, NM, p.A3845**
- P937** **Over-Production of Growth Differentiation Factor 15 (GDF15) Promotes Human Rhinovirus Infection and Virus-Induced Inflammation in the Lung/Q. Wu, D. Jiang, N. Schaefer, L. Harmacek, B.P. O'Connor, T.E. Eling, O. Eickelberg, H.W. Chu, Aurora, CO, p.A3846**
- P938** **Aggravated Erythrophagocytosis Impairs IFN γ -Mediated Irg1 Expression in Response to Klebsiella Pneumoniae/T.F. Olonisakin, Z. Xiong, J. Lee, Pittsburgh, PA, p.A3847**

THEMATIC POSTER SESSION

B62 LUNG CYTOPROTECTION AND IMMUNITY DURING INFECTIONS

9:15 a.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER

Area H (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: C.S. Calfee, MD, San Francisco, CA

- P929** **Myeloid Zfhx3 Deficiency Prevents Hypercapnia-Induced Suppression of Antiviral Response and Increased Viral Replication Following Influenza A Virus-Infection in Mice/M. Casalino-Matsuda, F. Chen, F.J. Gonzalez, A. Nair, G.J. Beitel, P.H.S. Sporn, Chicago, IL, p.A3838**
- P930** **Influenza Infection Reduces Ion Channel Activity and Dysregulates Airway Surface Liquid Homeostasis/J.D. Brand, A. Lazrak, J. Trombley, R.-J. Shei, T. Adewale, J.L. Tipper, A.R. Ashtekar, S.M. Rowe, S. Matalon, K.S. Harrod, Birmingham, AL, p.A3839**
- P931** **Helminth Egg Antigens Protect Mice from Influenza-Induced Mortality by Potentiate IFNAR1 Dependent Anti-Viral Immunity/A. Kadl, S. Tundup, P. Jayaguru, Charlottesville, VA, p.A3840**
- P932** **The Protective Role of a Disintegrin and Metalloprotease (ADAM) 10 During Severe Influenza Virus Infection/S. Okamori, M. Ishii, T. Asakura, S. Suzuki, T. Kusumoto, H. Kamata, H. Namkoong, K. Yagi, S. Kagawa, K. Horiuchi, A.E. Hegab, N. Hasegawa, T. Betsuyaku, Tokyo, Japan, p.A3841**
- P933** **H1N1 Influenza A Virus Infection of Mice Induces the Warburg Effect in ATII Cells/I.C. Davis, L.M. Doolittle, D. Guttridge, L.M. Joseph, L.E. Rosas, Columbus, OH, p.A3842**
- P934** **Acutely Lethal Influenza Infection Alters Murine Alveolar Epithelial Cell Energy Production/L.M. Doolittle, D. Guttridge, I.C. Davis, Columbus, OH, p.A3843**
- P939** **Cytoskeletal Alterations of Rhinovirus-Infected Airway Epithelial Cells/A.N. Michi, D. Proud, Calgary, Canada, p.A3848**
- P940** **Interferon-G Protects Macrophages from Pneumococcus-Induced Necroptosis/E. Arafa, G.A. Wasserman, A.K. Wooten, F.T. Coleman, I. Martin, M.R. Jones, L.J. Quinton, J.P. Mizgerd, Boston, MA, p.A3849**
- P941** **Pulmonary Surfactant Lipids Antagonize Human Rhinovirus Infection/M. Numata-Nakamura, Y.A. Bochkov, M.A. Seibold, J. Everman, H. Lee, D.R. Voelker, Denver, Japan, CO, p.A3850**
- P942** **A Novel Cellular Target for Treating Influenza Virus Infections/X. Zhou, L. Zhu, Y. Chen, Tucson, AZ, p.A3851**
- P943** **Hypercapnia Increases Apoptosis and Viral Replication in Influenza A-Infected Macrophages by a Caspase-Dependent Mechanism/K.T. Ferguson, F. Chen, M. Casalino-Matsuda, P.H.S. Sporn, Chicago, IL, p.A3852**
- P944** **Inflammatory Cell and Cytokine Response During Pneumocystis Pneumonia; A Comparison of HIV and Non-HIV Patients/G. Parrott, D. Nabeya, Y. Higa, Y. Yamazato, T. Kinjo, J. Fujita, Nishihara, Japan, p.A3853**
- P945** **Phloretin, an Apple Polyphenol, Reduces Chronic Obstructive Pulmonary Disease (COPD) Pathogen-Induced Injury in Airway Epithelial Cells/R. Birru, N. Bondarchuk, Q. Lin, K. Bein, Y.P. Di, G.D. Leikauf, Pittsburgh, PA, p.A3854**
- P946** **Redox States of Cysteine/Cystine and Glutathione/Glutathione Disulfide in Plasma and Bronchoalveolar Lavage Fluid in HIV-Infected Patients with COPD/J. Ritzenthaler, W.H. Watson, P. Peyrani, T. Wiemken, T.J. Burke, Y. Zheng, J.A. Ramirez, J. Roman, Louisville, KY, p.A3855**
- P947** **Investigating the Effects of Cigarette Smoke on Innate Antiviral Responses to Human Rhinovirus/M. Love, S. Wiehler, R. Leigh, D. Proud, Calgary, Canada, p.A3856**
- P948** **Exploring the Fate of Inhaled Antibody in Non-Human Primates by Lung Microdialysis/A. Guillon, J. Pardessus, P. Lhomme, C. Parent, J. Montharu, M. de Monte, P. Franck, P. Janiak, C.M.P. Boixel, S. Huille, E. Guillot, N. Heuze-Vourc'h, Tours, France, p.A3857**

Facilitators: E.S. Halstead, PhD, MD, Hershey, PA
L.K. Sharma, PhD, New Haven, CT

Facilitator: Y. Song, MD, Shanghai, China

- P949 Elevated Free Heme Predisposes to Bacterial Lung Infection After Acute Inhalation Injury/I.** Ahmad, A. Lam, M.A. Carlisle, H. Paiste, S. Aggarwal, S. Matalon, Birmingham, AL, p.A3858
- P950 The Role of the IL-22 Pathway in the Lung Following Influenza Infection/K.** Hebert, N. McLaughlin, D. Pociask, New Orleans, LA, p.A3859
- P951 Serine Glycine One-Carbon Metabolism Drives Effector Responses to Influenza Infection in Macrophages/P.** Woods, R. Nigdelioglu, A.Y. Meliton, K.A. Sun, L. Witt, D. Wu, R.B. Hamanaka, G.M. Mutlu, Chicago, IL, p.A3860
- P952 Epidermal Growth Factor Receptor (EGFR) Signaling in the Nucleus Modulates Antiviral Immunity/A.D.** Osafo-Addo, M. Haslip, Y. Sun, A.M. Mullen, N. Li, J.L. Koff, New Haven, CT, p.A3861
- P953 High Mobility Group Box-1 as a Marker for Respiratory Syncytial Virus Infection/F.** Rezaee, S. Manti, T.J. Harford, C. Salpietro, G. Piedimonte, Cleveland, OH, p.A3862
- P954 Mechanisms of RSV Attachment and Infection in a Physiological Model of Human Pediatric Lung Epithelial Cells/C.S.** Anderson, C.-Y. Chu, J.A. Mereness, Q. Wang, R. Misra, S. Romas, H.L. Huyck, A. Howell, G. Bandyopadhyay, G.S. Pryhuber, T.J. Mariani, Rochester, NY, p.A3863
- P955 Role of Autophagic Markers During Clearance of Aspergillus Fumigatus from Epithelial Cells/M.** Goyal, M. Singh, A. Chakrabarti, A.K. Ghosh, Chandigarh, India, p.A3864
- P956 Development of a Dual Organism Model for Aspergillus Fumigatus Spores and Human Airway Epithelial Cells at the Single Cell-Spore Level/W.L.** Tam, A. Toor, G.K. Singhera, B. Sahin, B. Whalen, A.M. Barlow, L. Culibrk, D.R. Dorscheid, M.M. Moore, S.J. Tebbutt, Vancouver, Canada, p.A3865
- P957 Mesenchymal Stem Cell Conditioned Medium Retains Antibacterial Properties After Vibrating Mesh Nebulisation/D.** O'Toole, A. Ali, E. Horgan, C. Masterson, S. McCarthy, R. MacLoughlin, Galway, Ireland, p.A7741

THEMATIC POSTER SESSION

B63 INFLAMMATION AND CELLULAR RESPONSES IN CYSTIC FIBROSIS

9:15 a.m. - 4:15 p.m. **SAN DIEGO CONVENTION CENTER**
Area H (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: S.V. Raju, BPharm, PhD, Birmingham, AL

- P959 Cystic Fibrosis Variants of P. Aeruginosa Attenuate Host PPARgamma Expression in Epithelial Cells and Macrophages/B.** Bedi, N.M. Maurice, K.M. Bijli, Z. Yuan, J.J. Varga, J. Wenjing, J.B. Goldberg, A.A. Stecenko, C.M. Hart, R.T. Sadikot, Decatur, GA, p.A3866

- P960 Targeting ENaC with an Epithelial RNAi Trigger Delivery Platform for the Treatment of Cystic Fibrosis/E.** Bush, I. Kuipers, T. Pei, W. Cheng, H. Hamilton, J. Hegge, A. Glebocka, R. Zhu, B. Chen, P. Kuehl, T. Schlupe, Z. Li, Madison, WI, p.A3867
- P961 CFTR-Deficient Pigs Have Altered Bone Microarchitecture and Elevated Closed Cortical Porosity at Birth/F.** Velard, M.-L. Jourdain, I. Caballero-Posadas, N. Winter, M. Si-Tahar, N. Klymiuk, S.C. Gangloff, J. Jacquot, J. Braux, Reims, France, p.A3868
- P962 Neutrophil Extracellular Traps Increase Proinflammatory Cytokine Expression by Human Airway Epithelial Cells In Vitro/K.M.** Hudock, M.S. Collins, M. Imbrogno, E.J.-A. Kopras, E. Kramer, J. Brewington, A.J. Ostmann, C. McCarthy, J. Moncivaiz, A. Sridharan, C. Davidson, J.P. Clancy, Cincinnati, OH, p.A3869
- P963 Chitotriosidase Interacts with TGFbrap1 and FoxO3a, Regulates TGF-β Signaling and Smad7 Expression in the Pathogenesis of Pulmonary Fibrosis/C.** Lee, J. Park, J.H. Lee, E. Chen, S. Kamle, C.H. He, E. Herzog, I.O. Rosas, C.F. Bostwick, C. Lee, J.A. Elias, Providence, RI, p.A3870
- P964 Cystic Fibrosis Bronchoalveolar Lavage Fluid Lead to Human Mesenchymal Stromal Cell Death/S.** Abreu, J. Dearborn, N. Gasek, C.C. Dos Santos, P.R.M. Rocco, M.J. Wargo, M.J. Wargo, D.J. Weiss, Rio de Janeiro, Brazil, p.A3871
- P965 Epithelial Splicing Regulation Protein May Contribute to Epithelial-Mesenchymal Transition During LPS-Induced Acute Lung Injury in Mice/J.** Wang, K. Chen, Q. Li, C. Wen, J. Chen, Chongqing, China, p.A3872

Facilitator: C.J. Britto-Leon, MD, New Haven, CT

- P966 The Impact of Wnt Signaling-Modulated IL-17A-Mediated Macrophage Polarization on Epithelial-Mesenchymal Transition in Murine Airway Epithelial Cells/C.** Yuan, G. Bai, K. Bao, M. Luo, X. Liu, Yinchuan, China, p.A3873
- P967 Proteostatic Network Gene Expression Is Decreased in Fdel508 Homozygote Cystic Fibrosis Patients/M.** Sala, P.A. Reyfman, J.M. Walter, C. Chen, A. Misharin, J. Liu, G.S. Budinger, J.I. Sznajder, M. Jain, Chicago, IL, p.A3874
- P968 Caveolin Scaffolding Peptide Regulates Glucose Metabolism in Lung Fibrosis/V.** Gopu, S. Shetty, N. Mavanoor, Y. Bhandary, S. Idell, S. Shetty, Tyler, TX, p.A3875
- P969 Identifying Airway pH and Regulatory Protein Channels in Cystic Fibrosis Patients/R.** Abdul Rahman, F. Khalid, C. Cotton, L. Smith, B. Gaston, Cleveland, OH, p.A3876
- P970 High-Throughput Yeast Phenomics Identifies Genetic Modifiers that Partially Rescue Human W1282X-CFTR/H.** Ali, K.E. Oliver, M. Icyuz, S. Kelly, A. Rab, J.S. Hong, D.M. Bedwell, J.L. Hartman, IV, E.J. Sorscher, Atlanta, GA, p.A3877
- P971 Carbonic Anhydrase as a Link Between Cystic Fibrosis Transmembrane Conductance Regulator (CFTR) Function and Cystic Fibrosis (CF) Cell Regulation/K.** Boyne, T. Kelley, Cleveland, OH, p.A3878

Facilitator: R. Sitapara, PhD, Rensselaer, NY

- P972 Infection of Tracheal Epithelial Cells with RSV or Pseudomonas Aeruginosa Decreases Hyaluronan Levels/C.C.** Smallcombe, G. Altawallbeh, T.L. Bonfield, F. Rezaee, G. Piedimonte, Cleveland, OH, p.A3879

- P973** **TGF- β Stimulates miR-145 Expression and Suppresses CFTR Synthesis and Function In Vivo**/F. Lutful Kabir, S. Dey, R.M. Liu, Q.L. Matthews, L.P. Tang, J.R. LaFontaine, S.V. Raju, N. Ambalavanan, W.T. Harris, Birmingham, AL, p.A3880
- P974** **Protein α , α' -Dityrosine Cross-Linking Disrupts Cystic Fibrosis Mucus Viscoelastic Dynamics**/M.L. Locy, C. Fernandez, M. Johnson, A. Lenzie, S.M. Rowe, V.J. Thannickal, Birmingham, AL, p.A3881
- P975** **Pharmacology of α -7 Nicotinic Acetylcholine Receptors (α -7 nAChR) Agonists in Cystic Fibrosis**/L.W. Rasmussen, J. LaFontaine, D. Stanford, K. Patel, L. Tang, M. Mazur, D. Wang, S.M. Rowe, S.V. Raju, Birmingham, AL, p.A3882
- P976** **Evaluation of Apremilast as a Novel Therapeutic Agent in Cystic Fibrosis**/T. Bono, L.W. Rasmussen, K. Patel, M. Mazur, L. Tang, G. Bolger, S.M. Rowe, S.V. Raju, Birmingham, AL, p.A3883
- P977** **Exosomes Derived from Human Circulating Endothelial Progenitor Cells Ameliorates Acute Lung Injury by Transferring miR-126**/W. Xu, Shanghai, China, p.A3884
- P978** **Applying Epix™ Technology to Enable Ex Vivo Therotyping Using Airway Epithelial Cells Derived from Patients with Pulmonary Diseases**/C. Zhang, A. Shrivastava, H. Bihler, J. Harrington, I. Musisi, M. Mense, S.H. Randell, M.J. Bruehl, M.S. Muhlebach, T.J. McQuiston, S.S. Challberg, B.A. Pollok, Rockville, MD, p.A7742
- P1424** **Correlation Between Small Airway Disease Parameters: Impulse Oscillometry and Spirometry**/H.-Y. Chiu, Y.-H. Hsiao, D.-W. Perng, Taipei, Taiwan, p.A3889
- P1425** **Dyspnea and Its Relation to Air Trapping in Chronic Obstructive Pulmonary Disease**/M. Slootsky, M. Miller, M. Koc, R.A. Patel, A. Baydur, Los Angeles, CA, p.A3890
- P1426** **Diagnostic and Prognostic Obstruction Degree Based on FEV1 and MEF50 in Elderly Patients that Had Treatment at Zainal Abidin General Hospital Aceh**/S. Bahry, L. Julisafrida, H. Priyanto, S. Saminan, Banda Aceh, Indonesia, p.A3891
- P1427** **Clinical Factors Associated with Increase in Tidal Volume and Breathing Frequency During Exercise in Chronic Obstructive Pulmonary Disease**/R. Edahiro, K. Miki, M. Miki, K. Yoshimura, K. Tsujino, H. Kagawa, Y. Oshitani, Y. Kureya, Y. Hosono, H. Kurebe, S. Kitada, Toyonaka, Japan, p.A3892
- P1428** **Evaluation of Pulmonary Function Using Dynamic Chest Radiographs: The Change Rate in Lung Area Due to Respiratory Motion Reflects Air Trapping in COPD**/N. Ohkura, K. Kasahara, S. Watanabe, A. Miki, T. Sone, J. Hara, H. Kimura, S. Sanada, R. Tanaka, Kanazawa, Japan, p.A3893
- P1429** **The Relationship Among Lung Volume Subdivisions in Patients with Obstructive Airway Disease**/M.-L. Chuang, I.-F. Lin, Taichung, Taiwan, p.A3894
- P1430** **Comparison of Inspiratory Capacity Assessed by Spirometry and Plethysmography: Post-Hoc Analysis of Glycopyrrolate/Formoterol Fumarate Metered Dose Inhaler (GFF MDI) in Patients with COPD**/W. De Backer, J. De Backer, P. Darken, M. Jenkins, U.J. Martin, Antwerp, Belgium, p.A3895

THEMATIC POSTER SESSION

B64 COPD: LUNG FUNCTION, IMAGING AND PATHOPHYSIOLOGY

9:15 a.m. - 4:15 p.m. **SAN DIEGO CONVENTION CENTER**

Area L (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: B.M. Smith, MD, MS, Montreal, Canada

- P1420** **Factors that Affect the Oxygen Uptake Efficiency Slope Index (OUES) in Patients with Chronic Obstructive Pulmonary Disease (COPD)**/X.P. Bocca Ruiz, C.M. Xavier, Buenos Aires, Argentina, p.A3885
- P1421** **Hyperinflated Lungs Compress the Heart During Expiration in COPD on Dynamic-Ventilation CT**/T. Yamashiro, Y. Xu, H. Moriya, M. Tsubakimoto, S. Murayama, Okinawa, Japan, p.A3886
- P1422** **Ventilation and Gas Transfer Distribution in Alpha-1 Antitrypsin Deficiency After Replacement Therapy**/Y.-C.T. Huang, Z. Wang, M. He, L. Rankine, S. Womack, P. McAdams, J. Mammarrappalli, B. Driehuys, Durham, NC, p.A3887
- P1423** **Abnormality in Flow Volume Loop of Obstructive Index Reflects the Extent of Emphysema and Disease Severity in Obstructive Lung Diseases**/F. Mochizuki, H. Iijima, F. Keiji, T. Shimada, A. Watanabe, M. Shigai, H. Ishikawa, J. Kanazawa, Y. Yatagai, H. Masuko, T. Sakamoto, T. Oguma, S. Sato, S. Muro, N. Hizawa, Tsukuba, Japan, p.A3888
- P1431** **Paratracheal Paraseptal Emphysema Is Associated with Expiratory Central Airway Collapse**/C. Copeland, D.A. Lynch, A. Diaz, S. Bodduluri, J.M. Wells, M.T. Dransfield, G.R. Washko, M.G. Foreman, S.P. Bhatt, H. Nath, N.L. Terry, C. Wilson, Birmingham, AL, p.A3896
- P1432** **Chest CT Pectoralis Muscle Size Validated with Dual Energy X-Ray Absorptiometry Measurements of Body Composition Is Associated with Lung Function in COPD**/M.E. O'Brien, N. Hyre, J.K. Leader, D. Chandra, F.C. Sciruba, J. Bon, Pittsburgh, PA, p.A3897
- P1433** **Short- and Long-Term Lung Function Variability in COPDs Using Hyperpolarized ^3He MRI**/H. Hamedani, R. Baron, S. Kadlecck, K. Ruppert, S. Siddiqui, M. Spencer, Y. Xin, I. Duncan, M. Cereda, F. Amzajerdian, L. Loza, M. Pourfathi, J.M. Diamond, M.D. Rossman, R.R. Rizi, Philadelphia, PA, p.A3898
- P1434** **A Novel Respiratory Impedance-Based Phenotyping and Its Longitudinal Changes in COPD**/Y. Matsuo, E. Ogawa, R. Yukimura, T. Murayama, Y. Higami, D. Kinose, M. Yamaguchi, M. Oosawa, Y. Nakano, Otsu, Japan, p.A3899
- P1435** **Changes in Ventilation-Perfusion During and After a COPD Exacerbation: An Assessment Using Fluid Dynamic Modelling**/B. Hajian, J. De Backer, W. Vos, C. Van Holsbeke, W. De Backer, Edegem, Belgium, p.A3900

Facilitator: D. Mummy, MS, MBA, Madison, WI

- P1436 Air Trapping - Insights from CT and In Vivo Lung Morphometry with Hyperpolarized 3He MRI/D.A. Yablonskiy, A.L. Sukstansky, J.D. Quirk, C. Hall, M. Castro, D. Gierada, V. Curtis, M. Kirby, E.A. Hoffman, R.D. Yusen, St. Louis, MO, p.A3901**
- P1437 Non-Contact Measurement of Tidal Breathing Using Structured Light Plethysmography (SLP) to Support Diagnosis in Undiagnosed COPD/C. Landon, R. Wilson, S. Motamedei-Fakhr, Ventura, CA, p.A3902**
- P1438 Lung Elasticity Distribution as an Imaging Bio Marker for COPD Lung Physiology/A. Santhanam, K. Hasse, D. Low, Los Angeles, CA, p.A3903**
- Facilitator:** C.J. Galban, PhD, Ann Arbor, MI
- P1439 MEF75, MEF25-75 and Serum Cystatin C Are Predictors of Chronic Obstructive Pulmonary Disease in Adults/D. Feng, H. Yang, W. Zhao, Y. Wang, X. Zou, Y. Zhou, T. Zhang, Guang Zhou, China, p.A3904**
- P1440 Proposal and Validation of a Minimal Clinically Important Difference (MCID) for Annual Pulmonary CT Density Decline/D. Crossley, D. Subramanian, R.A. Stockley, A.M. Turner, Birmingham, United Kingdom, p.A3905**
- P1441 Tissue Density-Based Micro-Computed Tomography Analyses of Whole Lung Remodeling In Vivo/B.T. Ameredes, J. Litvinov, I. Patrikeev, W.C. Spear, K.K. Belanger, B. Tian, L.M. Hallberg, M. Motamedi, A.R. Brasier, Galveston, TX, p.A3906**
- P1442 A New Technology: The Dynamic Image of a Forced Breath Compared to a Tidal Breath Uncovers a Physiological Phenomenon in COPD/D. Prime, V. Santibanez, M. O Sullivan, N. Garg, A. Singh, S. Shah, K. Parekh, I. Kourouni, D. Pan, S. Kudoh, S. Zink, A. Kagen, New York, NY, p.A3907**
- P1443 Increasing the Resolution of COPD Definition: Using Lung Volumes to Identify At-Risk Smokers with Preserved Spirometry/S. Zeng, B. Bos, A. Tham, M. Arjomandi, San Francisco, CA, p.A3908**
- P1444 Associations Between Exhaled Volatile Organic Compounds (VOCs) and Pulmonary Function in Chronic Obstructive Pulmonary Disease (COPD)/D.-H. Joo, Y.J. Lee, Y.-J. Cho, J. Lee, H. Yoon, Seoul, Korea, Republic of, p.A3909**
- P1445 Spirometric Screening Behind the Latest World COPD and Asthma Days in Romania/R. Nedelcu, R. Ulmeanu, F. Mihaltan, Bucharest, Romania, p.A3910**
- P1446 Imaging Biomarkers of Emphysema in COPD and Alpha-1 Antitrypsin Deficiency Patients Using Accelerated 129Xe MRI/A.V. Ouriadov, D.P.I. Capaldi, H. Young, M. Kirby, H.O. Coxson, D.G. McCormack, G. Parraga, London, Canada, p.A3911**
- P1447 Area Under Forced Expiratory Flow-Volume Loop in Spirometry Is a Suitable Marker for Severe Static Hyperinflation in COPD Patients/N. Das, M. Topalovic, J.-M. Aerts, W. Janssens, Leuven, Belgium, p.A3912**
- Facilitator:** E.J. Gartman, MD, Providence, RI
- P1448 Fractal Dimension of Airway Measurements in HRCT Images of COPD Patients and Their Association with Lung Functions/D. Kinose, S. Kawashima, Y. Matsuo, W. Shigemori, Y. Uchida, K. Fukunaga, T. Nagao, E. Ogawa, Y. Nakano, Otsu Shiga, Japan, p.A3913**
- P1449 Comparative Histological and Morphometrical Analysis of Small Conducting Airways in Constrictive Bronchiolitis and Chronic Obstructive Pulmonary Disease/V.V. Polosukhin, B.W. Richmond, R.-H. Du, L.B. Ware, J.W. Lee, A.L. Harris, R.F. Miller, T.S. Blackwell, Nashville, TN, p.A3914**
- P1450 Peripheral Muscle Dysfunction Is Associated with Deterioration of Lung Function and Poorer Quality of Life in Patients with COPD/B. Rangel, J.L.Q. Junior, A.L. da Hora, M. Soares, C.H. Costa, R. Rufino, A. Lopes, Rio de Janeiro, Brazil, p.A3915**
- P1451 The Correlation Between Lung Volume Analyzed with High-Resolution Computed Tomography and Respiratory Impedance in Patients with Emphysema/Z. Isobe, Fukaya-shi, Saitama-ken, Japan, p.A3916**
- P1452 Ventilation and Gas Transfer Measured by 129Xe MRI in Alpha-1 Antitrypsin Heterozygotes: A Pilot Study/Y.-C.T. Huang, M. He, Z. Wang, L. Rankine, S. Womack, J. Mammarrappallil, P. McAdams, B. Driehuys, Durham, NC, p.A3917**
- P1453 Forced Oscillation Technique Predicts FEV1 Improvement in Untreated COPD Patients/S. Takahashi, T. Akamatsu, K. Tamura, T. Masuda, Y. Tanaka, H. Watanabe, Y. Endo, T. Suzuki, R. Noguchi, M. Saigusa, A. Yamamoto, Y. Shishido, T. Akita, S. Morita, K. Asada, T. Shirai, Shizuoka, Japan, p.A3918**
- P1454 Low and Absent Ventilation Percent on 3He MRI and Cardiac Function: The Mesa COPD Study/W. Shen, Y. Sun, P. Balte, S. Dashnaw, M. Prince, E.A. Hoffman, C.M. Lo Cascio, S.M. Kawut, B. Venkatesh, J. Lima, J.M. Wild, E. Hughes, R.G. Barr, New York, NY, p.A3919**
- P1455 Clinical Features of Subjects with Non-Specific Pulmonary Function Test (PFT) Pattern/A.Z. Rasheed, L. Latypov, M. Shahzadi, V.P. Vasudevan, L.N. Gerolemou, F. Arjomand, Brooklyn, NY, p.A3920**
- P1456 Does the Carotid Chemoreceptor Play a Role in Cardiopulmonary Regulation, Dyspnea and Exercise Intolerance in COPD?/D. Phillips, S.E. Collins, T.L. Bryan, E.Y. Wong, M.S. McMurtry, M. Bhutani, M.K. Stickland, Edmonton, Canada, p.A3921**
- P1457 Qualification of Two Chronic Obstructive Pulmonary Disease Persian Validated Questionnaires/A. Kiani, A. Abedini, K. Taghavi, F. Razavi, S.R. Seyedi, A. Fakharian, S. Kharabian Masouleh, Tehran, Iran, Islamic Republic of, p.A3922**
- P1458 Percent Emphysema and Longitudinal Change in Right Ventricular Dimensions: Development of Cor Pulmonale Parvus in the Mesa COPD Study/E. Hermann, E.A. Hoffman, J. Lima, B. Ambale-Venkatesh, K. Watson, J. Carr, D.A. Bluemke, M. Prince, B. Smith, S.M. Kawut, R.G. Barr, New York, NY, p.A7743**
- P1459 3D-Measurement of Tracheobronchial Angles on Inspiratory and Expiratory Chest CT in COPD: Respiratory Changes and Correlation with Airflow Limitation/R. Onoe, T. Yamashiro, H. Handa, S. Azagami, S. Matsuoka, M. Mineshita, Kawasaki, Japan, p.A7744**

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

THEMATIC POSTER SESSION

B65 ASTHMA: PATHOPHYSIOLOGY AND CLINICAL TRIALS

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area H (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: S. Bose, MD, MPH, New York, NY

- P980 Methacholine Challenge Testing and Baseline FEV1/T.J.**
Moraes, D. Wilson, Toronto, Canada, p.A3923
- P981 Effects of Obesity on Methacholine Challenge Testing/A.**
Krvavac, S. Patolia, P.H. Patel, H. Wilson, G.L. Ruppel, R. Nayak, St. Louis, MO, p.A3924
- P982 Real-Time Tracking of Changes in Respiratory System Impedance During and Immediately Following Methacholine Challenge in Obese Patients: Implications from Modeling/U.**
Peters, N. Daphtary, D.A. Kaminsky, R. Walsh, E. MacLean, C.M. Kinsey, A.E. Dixon, J.H.T. Bates, Burlington, VT, p.A3925
- P983 Fewer Bronchodilator Responses with Forced Oscillation Technique Following Methacholine Challenge Test Predict Asthma Exacerbations/K.**
Tamura, Y. Endo, T. Masuda, S. Takahashi, Y. Tanaka, H. Watanabe, T. Suzuki, R. Noguchi, M. Saigusa, T. Akamatsu, A. Yamamoto, Y. Shishido, T. Akita, S. Morita, K. Asada, T. Shirai, Shizuoka, Japan, p.A3926
- P984 Spurious Contributions to Respiratory System Impedance at Both High and Low Frequencies During Severe Bronchoconstriction/V.**
Mori, J.H.T. Bates, R.D.L. Vitorasso, M.A. Oliveira, H. Moriya, Burlington, VT, p.A3927
- P985 Low Frequency Lung Resistance Is a Global Bronchoconstriction Detection Measure, but Is Still Sensitive to Small Airways Disease/B.**
Foy, A. Bell, S.H. Siddiqui, D. Kay, Oxford, United Kingdom, p.A3928
- Facilitator:** A. Lee, MD, New York, NY
- P986 Usefulness of the Forced Oscillation Technique in Diagnosing Asthma-COPD Overlap/T.**
Shirai, K. Hirai, Y. Gon, S. Maruoka, K. Mizumura, K. Itoh, S. Hashimoto, Shizuoka, Japan, p.A3929
- P987 Predicting Airway Hyperreactivity in Adolescence Using Preschool Impulse Oscillometry: 10-Year Longitudinal Study/K.T.**
Lajunen, S. Kalliola, A. Kotaniemi-Syrjänen, P.L. Malmberg, A.S. Pelkonen, M.J. Makela, Helsinki, Finland, p.A3930
- P988 A New Oscillometry-Based Methodology for Detecting Pulmonary Airway Collapse During Relaxed Expiration in Obese Late-Onset Nonallergic Asthma/U.**
Peters, N. Daphtary, C.M. Kinsey, R. Walsh, E. MacLean, D.A. Kaminsky, A.E. Dixon, J.H.T. Bates, Burlington, VT, p.A3931
- P989 Resistant Airflow Obstruction in Children with Asthma/E.**
Caylan, A.J. Dozor, L.A. Parton, S. Krishnan, Springfield, MA, p.A3932

- P990 Improvement of Pulmonary Function Test Produced by Phosphodiesterase-5 Inhibitor 'Sildenafil' in Healthy and in Asthmatic Patients/S.Y.**
Khatib, H. Lababidi, M. Moazin, Irbid, Jordan, p.A3933
- P991 Validating Remote FEV1 Monitoring in Moderate Asthmatics to Increase Study Power/G.**
Bhatia, M. Ruddy, N. Jackson, D. Singh, New York, NY, p.A3934
- P992 Assessment of Changes in Airway Dimension by Spirometrically-Guided Computed Tomography in Obese Patients with and Without Asthma/U.**
Peters, R. Walsh, C.M. Kinsey, N. Daphtary, E. MacLean, D.A. Kaminsky, J.H.T. Bates, A.E. Dixon, Burlington, VT, p.A3935
- P993 Spontaneous Pneumomediastinum and Pneumoperitoneum as a Complication of Severe Asthma Exacerbation/P.**
Shah, A. Chauhan, A. Sharma, Farmington, CT, p.A3936
- Facilitator:** J. Leung, MD, Vancouver, Canada
- P994 Effects of Variable Airway Wall Nitric Oxide Concentrations on Predicted FeNO/P.**
Muchmore, E.B. Rappaport, S.P. Eckel, Y. Zhang, W.S. Linn, R. Habre, F.D. Gilliland, Los Angeles, CA, p.A3937
- P995 Reclassification of Bronchodilator Reversibility in the U-Biopred Adult Asthma Cohort Using Z-Scores/S.J.**
Fowler, A.J. Simpson, Manchester, United Kingdom, p.A3938
- P996 Inhalation Characteristics When Patients Use a Dry Powder Inhaler (DPI) Are Related to Their Lung Function When They Are Stable and When Recovering from an Acute Exacerbations/H.**
Chrystyn, M. Soussi, W. Tarsin, J. Stephenson, M. Milton-Edwards, W. Azouz, Leeds, United Kingdom, p.A3939
- P997 The Effect of Nebulized Salbutamol or Isotonic Saline on Exercise-Induced Bronchoconstriction in Elite Skaters/J.**
Driessen, M. Gerritsma, I.K. Stoter, J. Westbroek, N.H.T. Hacken, F. Jongh, Heerenveen, Netherlands, p.A3940
- P998 Justification of the Inhalation Parameters to Provide Patients with Dose Confirmation Feedback When They Use a Digitally Enabled Albuterol Multidose Dry Powder Inhaler (eMDPI)/H.**
Chrystyn, G. Safioti, D. Buck, F. Ruiter, J. Blair, Leeds, United Kingdom, p.A3941
- P999 The Accuracy of an Electronic Multidose Dry Powder Inhaler (eMDPI) to Measure Inhalation Parameters When Used by Patients/H.**
Chrystyn, D. Saralaya, A. Shenoy, S. Toor, K. Kastango, E. Calderon, G. Safioti, Leeds, United Kingdom, p.A3942
- P1000 Delay Between the Last Dose of Long-Acting Beta-Agonist and FEV₁ Reversibility in Children/N.**
Beydon, J. Taytard, C. Aupiais, C. Alberti, Paris, France, p.A3943
- Facilitator:** J.K. Burgess, PhD, Groningen, Netherlands
- P1001 Evaluation of the Suitability of the RespiMat® Inhaler for the Treatment of Preschool Children/W.**
Kamin, M.M. Metzger, A. Sharma, H. Wachtel, Hamm, Germany, p.A3944
- P1002 Multi-Breath Nitrogen Washout Reveals Intra-Breath Lung Recruitment and Derecruitment in Obese Asthmatics/U.**
Peters, D.A. Kaminsky, N. Daphtary, E. MacLean, R. Walsh, C.M. Kinsey, A.E. Dixon, J.H.T. Bates, Burlington, VT, p.A3945

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- P1003 The Leaky Lung Test: A Novel Non-Invasive Way to Study Airway Permeability in Asthma Using Inhaled Mannitol/S.N.** Georas, S. Eliseeva, K. Le, T. Smyth, J. Veazey, S. Khurana, J. Meddings, Rochester, NY, p.A3946
- P1004 Tiotropium RespiMat® Reduces Episodes of Asthma Worsening in PrimoTinA-asthma®, Irrespective of Baseline Characteristics or Season/J.M. FitzGerald, R. Buhl, T.B. Casale, G. El Azzi, M. Engel, R. Sigmund, D.M.G. Halpin, Vancouver, Canada, p.A3947**
- P1005 Characteristics of Inhaled Particle Deposition in the Lungs of Imaging-Based Asthma Clusters: A Numerical Study/J. Choi, L.J. LeBlanc, S. Choi, B. Haghighi, E.A. Hoffman, P. O'Shaughnessy, S.E. Wenzel, M. Castro, S.B. Fain, N.N. Jarjour, M.L. Schiebler, L.C. Denlinger, C.-L. Lin, Iowa City, IA, p.A3948**
- P1006 Genetic Variation in LRP1 and Pulmonary Function: Follow-Up of Human GWAS in the Mouse/C. Nichols, H. Li, J.S. House, L.M. Degraff, D.C. Zeldin, S.J. London, Research Triangle Park, NC, p.A3949**
- P1007 Unravelling a Clinical Paradox - Why Does Bronchial Thermoplasty Work in Asthma?/G. Donovan, J. Elliot, F.H.Y. Green, A.L. James, P.B. Noble, Auckland, New Zealand, p.A7745**
- P1008 Novel Endoscopic Techniques for Patients with Severe Asthma and Airway Stenosis/J. Faul, C.M. Burke, W. Shah, L. Cormican, L. thong, Dublin, Ireland, p.A7746**

THEMATIC POSTER SESSION

B66 WHAT'S NEW IN VASCULAR AND PLEURAL DISEASE

9:15 a.m. - 4:15 p.m. **SAN DIEGO CONVENTION CENTER**

Area J (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: G. Florova, PhD, Tyler, TX
M.G. Risbano, MD, MA, Pittsburgh, PA

- P1114 Massive Pulmonary Embolism Treated with Safe Dose Thrombolysis and New Oral Anticoagulants/M. Sharifi, F. Mhassanpour, B. Schroeder, A. Awdisho, J. Jimenez-Cintrón, A. Ahoui, S. Nagre, M. Oleiwi, Mesa, AZ, p.A3950**
- P1115 Clinical Characteristics of Patients with Pulmonary Infarction: A Retrospective Review/T. Chengsupanimit, B. Sundaram, W.B. Lau, G.C. Kane, Philadelphia, PA, p.A3951**
- P1116 Inhibition of the SCF^{FBXO3} E3 Ligase as a Novel Anti-Inflammatory Therapy for Atherosclerosis/D. Chandra, J.D. Londino, J.S. Bednash, Y. Zhang, T. Nyunoya, F.C. Sciruba, B. Chen, R.K. Mallampalli, Pittsburgh, PA, p.A3952**
- P1117 Fibrinolytic Therapy for Infectious and Chemically-Induced Acute Pleural Injury in Rabbits: Differential Efficacy of sctPA and scuPA/G. Florova, A. Azghani, A. Buchanan, M. Chamiso, R. Girard, K. Sarva, A. Tvinnereim, K. Koenig, S. Idell, A. Komissarov, Tyler, TX, p.A3953**

- P1118 Striking Difference in the Effects of a Docking Site Peptide on Fibrinolytic Therapy of Infectious and Chemical Pleural Injury in Rabbits/A. Komissarov, A.O. Azghani, A. Buchanan, M. Chamiso, R. Girard, K. Sarva, A.R. Tvinnereim, K. Koenig, D.B. Cines, S. Idell, G. Florova, Tyler, TX, p.A3954**
- P1119 Corrective Tracheobronchomalacia Surgery: Pre-Surgical Planning and Incidence of Great Vessel and Aberrant Vascular Anomalies/W.J. Svetanoff, S. Bairdain, R. Jennings, C.J. Smithers, S. Prabhu, C. Baird, T. Hamilton, Boston, MA, p.A3955**
- P1120 Correlation Between Pulmonary Ultrasonography and Tuberculous Pleural Effusion/L.V.T. dos Reis, L.F. Faria, T.J. Corrêa, G.D.S. Fernandes, R.D.S. Corrêa, Rio de Janeiro, Brazil, p.A3956**
- P1121 Carotid Chemoreceptor Modulation of Resting Muscle Sympathetic Nerve Activity, Arterial Stiffness and Vascular Conductance in COPD/D. Phillips, C.D. Steinback, S.E. Collins, T.L. Bryan, E.Y. Wong, V. Tedjasaputra, M. Bhutani, M.K. Stickland, Edmonton, Canada, p.A3957**
- P1122 Adenosine A2A Receptor Inhibition Prevents Vascular Remodeling in a Rat Model of Severe Pulmonary Hypertension/M. Vaid, N. Mariappan, M. Husain, I. Zafar, A. Zaky, W.E. Bradley, S.A. Andrabi, L.J. Dell'Italia, S. Ahmad, J.R. Creighton, A. Ahmad, Birmingham, AL, p.A3958**
- P1123 Sildenafil Ameliorates Airspace Widening and Early Pulmonary Artery Dilatation in the Mouse Model of Marfan Syndrome/Z. White, N. Milad, A. Tehrani, P. Bernatchez, Vancouver, Canada, p.A3959**
- P1124 Inspiratory Pleural Pressures and Left Ventricular Structure in COPD/L. Samy, A. Donovan, I. Uscatescu, S. Abdallah, G. Vinco, M. Friedrich, J. Bourbeau, J. Dennis, B.M. Smith, Montreal, Canada, p.A7747**
- P1125 The NMDA Receptor, an Unexpected Therapeutic Target in Pulmonary Arterial Hypertension/S. Cohen-Kaminsky, S.J. Dumas, G. Bru-Mercier, A. Courboulain, M. Quatremeries, C. Rucker-Martin, F. Antigny, M. Nakhleh, B. Ranchoux, E. Gouadon, M.-C. Vinhas, M. Vocelle, P. Dorfmueller, E. Fadel, F. Perros, M. Humbert, Le Plessis Robinson, France, p.A7748**

THEMATIC POSTER SESSION

B67 RISK AND PREVALENCE OF SLEEP DISORDERED BREATHING

9:15 a.m. - 4:15 p.m. **SAN DIEGO CONVENTION CENTER**

Area C (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: D.S. Hui, MD, MBBS, Shatin, Hong Kong

- P1171 Recognition and Treatment of Sleep-Disordered Breathing in Obese African American Hospitalized Patients. A Post-Hoc Analysis of the HosMED Database/M. Naranjo, A. Quintos, C. Kelly, S. Sharma, Philadelphia, PA, p.A3960**

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

P172 **Prevalence of Self-Reported Sleep Disorders in Patients with Obstructive Airway Disease in the NHANES Cohort in the United States/S.D. Kumbhare, C. Strange, C. Lal, Charleston, SC, p.A3961**

P173 **Global Prevalence of Obstructive Sleep Apnea in Adults: Estimation Using Currently Available Data/A. Benjafield, K. Valentine, N. Ayas, P.R. Eastwood, R.C. Heinzer, M.S. Ip, S.R. Patel, P.E. Peppard, S. Sinha, S. Tufik, C. Nunez, A. Malhotra, San Diego, CA, p.A3962**

P174 **“Investigation of Obstructive Sleep Apnea Using Portable Monitors and Health Check Data of 1309 Subjects”/M. Ueyama, H. Kokuto, H. Sugihara, S. Oikawa, F. Suzuki, H. Goto, S. Kudoh, Tokyo, Japan, p.A3963**

P175 **A Prospective Observational Cohort Study of Sleep in People with Acute Congestive Heart Failure in Mozambique/P.N. DeYoung, I.M. Mbanze, J.E. Orr, R.U. Banze, G.A. Muchanga, V. Govo, E.A. Nunes, A. Malhotra, A.A. Damasceno, La Jolla, CA, p.A3964**

P176 **Suspected Obstructive Sleep Apnea and Risk of Injuries Among Rural Dwellers/J.A. Dosman, C.P. Karunanayake, W. Pickett, D.C. Rennie, J. Lawson, M.E. Fenton, F. Chung, P. Pahwa, Saskatoon, Canada, p.A3965**

Facilitator: B. Izci Balsearak, PhD, Chicago, IL

P177 **Sleep Apnea Screening for Patients with Atrial Fibrillation (SAFARI), a Prospective Diagnostic Accuracy Trial/A. Mohammadieh, K. Sutherland, L. Kanagaratnam, D. Whalley, M. Gillett, P.A. Cistulli, Sydney, Australia, p.A3966**

P178 **Predicting Obstructive Sleep Apnea (OSA) in Marfan Syndrome/M. Sowho, J.P. Kirkness, H. Schneider, S.P. Patil, E.R. Neptune, Baltimore, MD, p.A3967**

P179 **Obstructive Sleep Apnea Syndrome Among Subjects with Venous Insufficiency/E. Perger, S. Blaise, C. Vermorel, G. Bodge, J.-L. Pepin, S. Redolfi, J.L. Bosson, Paris, France, p.A3968**

P180 **Use of Narcotics and Benzodiazepines in Hospitalized Patient at High Risk for Obstructive Sleep Apnea: A Retrospective Review of Data from Inpatient Sleep Registry in Urban Tertiary Care Center/A. Niroula, M. Rives-Sanchez, A. Quintos, N. Khandkar, K. Mohiuddin, S. Sharma, Philadelphia, PA, p.A3969**

P181 **Screening of Sleep Breathing Disorders in Morbid Obesity/E. Perger, J. Aron-Wisnewsky, C. Philippe, I. Arnulf, J.-M. Oppert, S. Redolfi, Paris, France, p.A3970**

P182 **Patients with Scleroderma Are at Increased Risk for Sleep Disorder Breathing (SDB)/B. Nokes, H.A. Raza, P. Lyng, A. Garrett, L. Krahn, L.J. Wesselius, R.W. Viggiano, K.L. Swanson, L. Griffing, J.M. Parish, Scottsdale, AZ, p.A3971**

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: S.P. Patil, MD, PhD, Baltimore, MD
G. Lorenzi Filho, MD, Sao Paulo, Brazil

P184 **Epoch-by-Epoch Uncertainty Quantification to Augment Automated Sleep Architecture Estimation/D. Kang, P.N. DeYoung, A. Malhotra, T.P. Coleman, R.L. Owens, La Jolla, CA, p.A3972**

P185 **Development of an Enhanced Obstructive Sleep Apnea Screening Model in Individuals with Atrial Fibrillation/A.M. May, L. Wang, R. Mehra, Cleveland, OH, p.A3973**

P186 **Sleep Mandibular Movements Recording Can Be Used for Mandibular Advancement Device Titration/B. Melki, J.-B. Martinot, N. Le Dong, J.C. Borel, V. Cuthbert, J.L. Pépin, Grenoble, France, p.A3974**

P187 **Transcutaneous Carbon Dioxide Monitoring for Positive Airway Pressure Titration During Polysomnography in Adults/G. Pierson, M.J. Junqueira, Pueblo, CO, p.A3975**

P188 **Validation of a Wireless Wearable Oximeter Using Mobile Technology and Cloud Computing for the Diagnosis of Obstructive Sleep Apnea/G.D.L. Pinheiro, A. Cruz, P.R. Genta, G. Lorenzi-Filho, Sao Paulo, Brazil, p.A3976**

Facilitator: R.L. Owens, MD, La Jolla, CA

P189 **How Does the Sleep Apnea Clinical Score Perform in Veteran Patients?/S.W. Littleton, H.S. Shaikh, F. Laghi, Chicago, IL, p.A3977**

P190 **Compliance of Patients with Obstructive Sleep Apnea Undergoing Bariatric Surgery to CPAP and Effect on Outcome/Y. Dotan, T. Clarke, E. Michael, S. Rohit, J. Lewis, R. Kristen, C. Sydney, Y. Daraz, M.E. Vega Sanchez, F. Jaffe, S.L. Krachman, Philadelphia, PA, p.A3978**

P191 **Effect of Group Size of Patient Contact on Continuous Positive Airway Pressure (CPAP) Compliance Rates for Patients Diagnosed with Obstructive Sleep Apnea (OSA)/S. Ngan, J.M. Bolterman, South Pasadena, CA, p.A3979**

P192 **The Rate of Adherence of Continuous Positive Airway Pressure in Patients with Obstructive Sleep Apnea/M. Mehrtash, B.U. Peres, A.J. Allen, N. Fox, N. Ayas, Vancouver, Canada, p.A3980**

P193 **Randomised Controlled Trial of Polysomnography Titration of Non-Invasive Positive Pressure Ventilation/L.M. Hannan, J.M. Cori, L. Rautela, D.J. Berlowitz, C.F. McDonald, N. Sheers, C. Chao, F.J. O'Donoghue, M.E. Howard, Melbourne, Australia, p.A3981**

Facilitator: A. Zinchuk, MD, New Haven, CT

P194 **The Geneva Lake Study Update : A Descriptive and Cross-Sectional Multicenter Study Regarding the Current Trends of Long-Term Home Non-Invasive Ventilation: ASV Population/C. Cantero, P. Pasquina, F. Vienne, D. Adler, A.B. Younossian, M. Prella, P. Gasche, J.-P. Janssens, Geneva, Switzerland, p.A3982**

THEMATIC POSTER SESSION

B68 **DIAGNOSIS AND TREATMENT OF SLEEP DISORDERED BREATHING**

9:15 a.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER
Area C (Hall A-B2, Ground Level)

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- P195** **The Geneva Lake Study Update: A Descriptive and Cross-Sectional Multicentric Study of Long-Term Home Non-Invasive Ventilation: Ventilators, Data Ventilator Software and Monitoring**/C. Cantero, P. Pasquina, F. Vienne, D. Adler, A.B. Younossian, M. Prella, P. Gasche, J.-P. Janssens, Geneva, Switzerland, p.A3983
- P196** **The Geneva Lake Study Update: A Descriptive and Cross-Sectional Multicentric Study of Long-Term Home Non-Invasive Ventilation: Population and Follow-Up**/C. Cantero, P. Pasquina, F. Vienne, D. Adler, A.B. Younossian, M. Prella, P. Gasche, J.-P. Janssens, Geneva, Switzerland, p.A3984
- P197** **Smartphone Application Based Upper Airway Training for Treatment of Snoring: A Randomized Controlled Trial**/U. Goswami, A. Black, B. Krohn, W. Meyer, C. Iber, Minneapolis, MN, p.A3985
- P198** **Acetazolamide Decreases Susceptibility to Hypocapnic Central Apnea in Chronic SCI**/G.M. Ginter, S.E. Vaughan, S.W. Carroll, M. Eshraghi, W.H. Ayeshe, E.A. Kruppe, A.E. Caruso, A. Alquadan, A. Salloum, S. Chowdhuri, A. Sankari, M.S. Badr, Detroit, MI, p.A3986
- Facilitator:** B. Prasad, MD, Chicago, IL
- P199** **Direct Upper Airway Visualization During Obstructive Sleep Apnea Exercise Training**/M. Reback, M. Ayache, K.P. Strohl, Cleveland, OH, p.A3987
- P200** **Obstructive Sleep Apnea (OSA) Treatment Preference Using the Decision Aid Tool in Recently Diagnosed, Treatment-Naïve Patients**/M.M.F. Hamoda, N. Bansback, N. Hyunh, F. Series, B.U. Peres, Y. Kohzuka, W. Alshhrani, N. Ayas, F.R. Almeida, Vancouver, Canada, p.A3988
- P201** **A Retrospective Analysis of Bilevel Rescue on Positive Airway Pressure (PAP) Therapy Adherence for Non-Compliant OSA Patients**/A. Malhotra, A. Benjafield, K. Valentine, D. Liu, Y. Yan, P.A. Cistulli, H. Woehrle, C. Nunez, J.P. Armitstead, J.-L. Pepin, La Jolla, CA, p.A3989
- P202** **Sleep Respiratory Mandibular Movements Analysis Allows for Obstructive Hypopneas Identification**/B. Melki, J.B. Martinot, N. Le Dong, V. Cuthbert, J.-L. Pepin, J.C. Borel, Grenoble, France, p.A3990
- P256** **Endobronchial Obstruction by a Solitary Extramedullary Plasmacytoma with Light Chain Amyloidosis**/M. Oriakhi, E. Ortiz-Diaz, M. Ahluwalia, E. Shostak, R. Ravneet, New York, NY, p.A3992
- P257** **Pulmonary Lymphangitic Carcinomatosis: A Very Rare Presentation of Gastric Cancer**/A.C. Gour, L. Sperry, A. Kamath, J.S. Ilowite, Mineola, NY, p.A3993
- P258** **Parotid Salivary Duct Carcinoma with Metastasis to Lung**/A. Adial, A. Patel, P. Trivedi, V.R. Thakkar, A.J. Smith, A. Iftikhar, Flushing, NY, p.A3994
- P259** **A Giant Pain in the Shoulder**/W.S. Tam, S.G. Adams, J.I. Peters, San Antonio, TX, p.A3995
- P260** **The Use of Azathioprine in the Management of Drug-Induced Pneumonitis Associated with Molecular Targeted Therapy for Advanced Non-Small Cell Lung Cancer**/D. Duong, A.W. Sung, M. Ramsey, Stanford, CA, p.A3996
- P261** **An Unusual Spirometry Flow-Volume Curve in a Patient with Severe Airway Obstruction Caused by a Tracheal Mass**/I. Amaza, R. Sanchez, Iowa City, IA, p.A3997
- P262** **Incidentally Found Synchronous Adenocarcinoma and Primary Pulmonary Lymphoma Within a Single Lobe**/E. Jones, K.E. Gross, O. Ibrahim, Farmington, CT, p.A3998
- P263** **Granulomatosis with Polyangiitis with Squamous Cell Carcinoma of Lung**/A.A. Patel, A. Adial, A. Hines, V.R. Thakkar, S.R. Karbowitz, A. Iftikhar, Flushing, NY, p.A3999
- P264** **Superior Vena Cava Obstruction in Small-Cell Lung Cancer Mimicking Angioedema: A Case Report**/Z. Ng, K.M. Eu, C.V. Choong, J.A. Abisheganaden, A.Y.H. Lim, Singapore, Singapore, p.A4000
- P265** **A Unique Presentation of a Rare Primary Epithelial-Myoepithelial Carcinoma of Lung**/J. Safi, J.R. Tedrow, H. Singh, Boston, MA, p.A4001
- Facilitator:** J. Puchalski, MD, MEd, New Haven, CT
- P266** **Primary Lung Diffuse Large B-Cell Lymphoma with Hepatic Metastases: A Rare Neoplasm**/Y. Vorakunthada, W. Lilitwat, Lubbock, TX, p.A4002
- P267** **Squamous Cell Lung Carcinoma Masking as Pulmonary Nocardiosis; A Rare Case in an Immunosuppressed Host from Medications**/Y. Vorakunthada, W. Lilitwat, Lubbock, TX, p.A4003
- P268** **A Rare Fatal Case of “Thrombotic Storm” Caused by Poorly Differentiated Lung Adenocarcinoma**/S. McGowan, K. Warrior, B.T. Tran, Chicago, IL, p.A4004
- P269** **Primary Pulmonary Melanoma**/S. Ossowski, M.M. Thinn, J. Moyers, Loma Linda, CA, p.A4005
- P270** **Metastatic Adenocarcinoma in the Thyroid with Two Known Primaries - A Diagnostic Challenge**/H. Grewal, S. Gupta, A. Singh, T. King, Worcester, MA, p.A4006
- Facilitator:** K.A. Steiling, MSc, MD, Boston, MA
- P271** **Bilateral Spontaneous Pneumothorax in a Patient with Osteosarcoma Pulmonary Metastasis: Case Report**/L. Fernandez, A. De las Salas, M. Velasquez, L.F. Sua Villegas, C.S. Leib, Cali, Colombia, p.A4007

THEMATIC POSTER SESSION

B69 CASE REPORTS IN THORACIC ONCOLOGY I

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area D (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: S.P. Nishi, MD, Galveston, TX

P255 **Nuclear Protein in Testis Midline Carcinoma**/Y.K. Lai, H.H. Guo, Stanford, CA, p.A3991

- P272 Pembrolizumab-Induced Bronchiolitis in a Patient with Stage IV Non-Small Cell Lung Cancer/A.** Blanchard, N. Bouchard, P. Larivée, Sherbrooke, Canada, p.A4008
- P273 Deep Vein Thrombosis, Pulmonary Thromboembolism, Aortic Vegetation and Stroke in Advanced Lung Adenocarcinoma: A Case of Trousseau's Syndrome/J.M.** Lee, M. Kang, S.H. Lee, M.J. Park, C.W. Choi, J.-H. Yoo, B. Chang, Seoul, Korea, Republic of, p.A4009
- P274 Hemoptysis as a Presentation of Composite Hemangioendothelioma/J.S.** Harrington, S.R. Midoneck, A.C. Borczuk, E. Shostak, N.K. Altorki, A. Sanders, New York, NY, p.A4010
- P275 Pulmonary Tumor Thrombotic Microangiopathy Diagnosed by Autopsy in Thymic Adenocarcinoma Patient/R.** Tsugitomi, H. Kanemura, R. Imai, K. Ishii, K. Okafuji, A. Kitamura, Y. Tomishima, T. Jinta, N. Nishimura, T. Tamura, Tokyo, Japan, p.A4011
- P276 Rare Case of Adenoid Cystic Carcinoma and the Management of Post-Operative Complications/B.** Li, S. Hussain, New Brunswick, NJ, p.A4012
- P277 Sweet Syndrome with Pulmonary Involvement: High Index of Suspicion Important for Differentiation from Pneumonia and Timely Treatment/A.** Syed, S. Velani, A. Alkhatlan, B.P. Young, Cleveland, OH, p.A4013
- P284 Incidental Diagnosis of Primary Pulmonary Synovial Sarcoma (PPSS) in an Elderly Patient with Pulmonary Fibrosis Complicated by Radiation Pneumonitis/M.A.** Jacob, T.R. Chandak, Pittsfield, MA, p.A4019
- P285 Squamous Cell Carcinoma in a Young Patient with a Chronic Infectious Disease/M.** Dianti, A. Casey, E.A. Vallejos, G.F. Ferreyra, H. Iannella, R. Berenguer, P. Vujacich, Buenos Aires, Argentina, p.A4020
- P286 Pulmonary Large Cell Neuro-Endocrine Cancer: A Diagnostic Difficulty and Therapeutic Dilemma/A.C.** Gour, A. Shenoy, Mineola, NY, p.A4021
- P287 From Wheelchair-Bound to Walking in Two Months: Diminishing Lung Metastases with Targeted Therapy in Castrate-Resistant Prostate Cancer/J.J.** Sobuto, A. Patel, A.L. Sobuto, L.W. Greenspon, C. Kuntz, P. Gilman, Wynnewood, PA, p.A4022

Facilitator: M. Triplette, MD, MPH, Seattle, WA

- P288 Delayed Pulmonary Metastasis of Endometrial Stromal Sarcoma Decades After Surgical Excision Presenting as Hemoptysis: A Rare Presentation of a Rare Clinical Entity/M.** Moizuddin, T. Schnell, Z. Ahmad, R. Bradley, J. Hucks, Columbia, SC, p.A4023
- P289 Lung Consolidation as a Manifestation of Lymphoplasmacytic Lymphoma with Waldenström's Macroglobulinemia/O.** Abdulfattah, S. Dahal, A. Lixon, E.U. Rahman, P.B. Datar, B. Bhattarai, Z. Alnafoosi, D. Enriquez, M.F. Schmidt, Brooklyn, NY, p.A4024
- P290 An Interesting Case of Malignant Mesothelioma/N.** Patel, S. Vanaik, G. Eiger, Philadelphia, PA, p.A4025
- P291 Biphasic Pulmonary Blastoma Invading the Mediastinum and Pleura with Brain Metastasis in an Adult Female/M.** Post, F. Reyes, W.I. Ezeibunam, M. Noorikooloori, J. Mahoney, Brooklyn, NY, p.A4026
- P292 A Case of Non-Small Cell Lung Cancer with Accompanying Neuroendocrin Hyperplasia in Pathological Specimen/D.** Dogan Mulazimoglu, A. Ciledag, F. Ciftci, S. Erol, K. Ceyhan, O.O. Kumbasar, Ankara, Turkey, p.A4027
- P293 A Rare Case of a Chest Wall Atypical Epithelioid Schwannoma/K.** Zakharov, O. Jaikaran, J. Gumer, A. Rapkiewicz, M. Vaynblat, Brooklyn, NY, p.A4028
- P294 Chest Wall Liposarcoma: A Rare Cause of Chest Pain/D.A.** DeLapp, S. Shaheen, U.A. Gauhar, Louisville, KY, p.A4029
- P295 Malignant Mesothelioma Presenting as a Posterior Mediastinal Mass/A.L.** Ramsey, S. Hu, F. Shaikh, A. Kim, Los Angeles, CA, p.A4030

Facilitator: C.M. Kinsey, MD, MPH, South Burlington, VT

- P296 Incidental Finding of Endobronchial Schwannoma in Lung Transplant Candidate Undergoing Lung Nodule Evaluation/J.Y.** So, A. Mukherjee, G.J. Criner, Philadelphia, PA, p.A4031
- P297 Chronic Hemoptysis: Manifestation of a Rare, Obscure, and Fatal Diagnosis/R.** Klein, V. Patel, Royal Oak, MI, p.A4032

THEMATIC POSTER SESSION

B70 CASE REPORTS IN THORACIC ONCOLOGY II

9:15 a.m. - 4:15 p.m. **SAN DIEGO CONVENTION CENTER**

Area D (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: D.E. Ost, MD, MPH, Houston, TX
D. Yang, MD, Shanghai, China

- P279 Pulmonary Artery Sarcoma Presenting as a Pulmonary Embolism/P.** Shah, L. Benninger, R. Reddy, A. Ataya, N. Moguillansky, Gainesville, FL, p.A4014
- P280 Pulmonary Kaposi Sarcoma: A Disease Becoming Harder to Diagnose/D.** Golovyan, B.A. Khan, H.L. Twigg, W.G.G. Carlos, Indianapolis, IN, p.A4015
- P281 Unusual Presentation of an Uncommon Lung Tumor: A Case Report/L.B.** Tihabano, M. Moizuddin, C.C. Odigwe, R. Bradley, J. Hucks, Columbia, SC, p.A4016
- P282 Tumor Embolization an Unusual Complication of Metastatic Lung Carcinoma/A.** Cheema, T. Karawadia, R.S. Bajwa, P. Mencil, M. Hossain, Neptune City, NJ, p.A4017
- P283 "Hepatoid Adenocarcinoma of the Lung with Normal Alpha-Fetoprotein Level"/D.** Ruiz Cerrato, J.S. Wang Memoli, W. Lee, Washington, DC, p.A4018

- P298** **A Fatal Case of Pneumocephalus During CT Guided Lung Biopsy/C.** Pisano, J. O'Connor, S. Krick, D. Russell, Birmingham, AL, p.A4033
- P299** **Abscopal Effect Following CT Guided Permanent Seed Brachytherapy for Metastatic Adenoid Cystic Carcinoma to Lung/S.** Doggett, S. Chino, T. Lempert, K. Sidhar, Mission Viejo, CA, p.A4034
- P300** **Atypical Carcinoid Successfully Treated with Endobronchial Therapy/K.** Kongpakpaisarn, S. Suchartlikitwong, A.J. Schwalk, W. Vitthikraivit, R. Alalawi, Tampa, FL, p.A4035
- P301** **Primary Synovial Sarcoma of the Pleura: A Rare Cause of a Lung Mass/F.** Berenyi, A. Chowdhury, Melbourne, Australia, p.A4036
- P302** **A Bronchus-Associated Lymphoid Tissue Lymphoma Presenting as an Asymptomatic Pulmonary Consolidation/C.A.** Askin, M. Koroscil, J.A. Hayes, San Antonio, TX, p.A4037
- P303** **Aerogenous Metastasis Imitating Miliary Tuberculosis/I.R.** Kugasia, A. Shengelia, N. Kozlova, O. Epelbaum, R.J. Basir, Valhalla, NY, p.A4038
- P312** **Primary Lung Malignancy Presenting as Bibasilar Consolidation Mimicking Pneumonia/A.** King, I. Berim, Omaha, NE, p.A4046
- P313** **Diffuse Bronchoalveolar Carcinoma: A Rare Type of Pulmonary Adenocarcinoma/K.J.** Lasafin, Makati City, Philippines, p.A4047
- P314** **An Autopsied Case of Neurofibromatosis Type 1(von Recklinghausen's Disease) Associated Malignant Peripheral Nerve Sheath Tumor Carcinomatous Pleurisy with Giant Intrathoracic Meningoceles/M.** Furukawa, H. Ota, K. Sugino, Y. Nakamura, Y. Nihonyanagi, N. Tochigi, S.A. Homma, Tokyo, Japan, p.A4048

Facilitator: C.A. Powell, MD, New York, NY

- P315** **Metastatic Non-Seminomatous Germ Cell Tumor Mimicking Empyema Necissitans on Imaging/F.K.** Suhail, V. Kaul, T.M. McGarry, Great River, NY, p.A4049
- P316** **A Rare Presentation of Malignant Mesothelioma in a Young Adult/K.** Ilyas, M. Raza, J. Subramanian, Grand Rapids, MI, p.A4050
- P317** **Multi-System Immune-Related Adverse Effects in an Advanced Non-Small-Cell Lung Cancer Patient Treated with Pembrolizumab/S.** Rao, L. Lin, J.K. Park, D. Ludwig, M. EINaggar, Orange, CA, p.A4051
- P318** **Benign Metastasizing Leiomyomas of the Lung in a Woman 12 Years After Hysterectomy for Uterine Fibroids/P.** Koon, G.B. Chun, New York, NY, p.A4052
- P319** **Occipital Condyle Syndrome as the Initial Presentation of Lung Cancer/M.** Doraiswamy, M. Kamau, A. Jacob, P. Angi, Long Branch, NJ, p.A4053
- P320** **Wheezing and the Assumption of Asthma in a Young Atopic Patient/S.** Barned, O.M. Ahmedtaha, A. Thomas, Washington, DC, p.A4054
- P321** **Pulmonary Kaposi Sarcoma Mimicking Pneumonia in Heterosexual HIV Female- A Rare Presentation/B.** Bhattarai, J. Lamichhane, O. Abdulfattah, P.B. Datar, A. Lixon, M.R. Hossain, S. Dahal, J.B. Quist, D. Enriquez, M.F. Schmidt, Brooklyn, NY, p.A4055
- P322** **Diffuse Large B-Cell Lymphoma Presenting as Diffuse Alveolar Hemorrhage/G.** Al-Helou, A. Jose, A.W. McLean, K. Dodds, J.E. Ahari, G. Gutierrez, Washington, DC, p.A4056
- P323** **Lung Inflammatory Pseudotumor in an Adult Smoker/I.** Milojevic, K. Lemma, L. Glass, R. Khosla, R. Maximos, W. Chen, Washington, DC, p.A4057
- P324** **Synchronous BALT Lymphoma and Primary Adenocarcinoma Presenting as Pneumonia/P.** Stetsyuk, M.A. Jacob, C.R. Galvez-Padilla, T.R. Chandak, Pittsfield, MA, p.A4058

Facilitator: M.P. Rivera, MD, Chapel Hill, NC

- P325** **An Undifferentiated Malignancy/M.** Kusters, O.A. Chaudhary, P. Kaul, Syracuse, NY, p.A4059
- P326** **Symptomatic Pleural Restriction Due to Pseudo-Progression of Unknown Metastatic Breast Cancer in a Patient Treated with Pembrolizumab/G.** Stroh, S. Markovic, T. Peikert, Rochester, MN, p.A4060

THEMATIC POSTER SESSION

B71 CASE REPORTS IN THORACIC ONCOLOGY III

9:15 a.m. - 4:15 p.m. **SAN DIEGO CONVENTION CENTER**

Area D (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: A. Vachani, MD, Philadelphia, PA
T. Isobe, MD, PhD, Izumo Shimane, Japan

- P305** **Lung Scar: A Reason to Worry?/H.** Yasin, H.S. Al-Jaroushi, H.E. Mohamed, Charleston, WV, p.A4039
- P306** **An Atypical Bronchopulmonary Carcinoid Tumor Manifesting as Abdominal Cramping/N.A.** Kaur, M. Kantor, Y. Orive, D. Bonilla, L. Bosch, Miami, FL, p.A4040
- P307** **Peripheral Eosinophilia as a Rare Presentation of Bronchoalveolar Carcinoma/B.** Eperjesiova, A.M. Stone, Park Ridge, IL, p.A4041
- P308** **The Unusual Case of the Cavitating Adenocarcinoma/R.D.** Mantilla, A.P. Noriega Aldave, D.S. Lala, Roanoke, VA, p.A4042
- P309** **The New Miliary Kid on the Block/W.** Kareem, U. Chaddha, R. Mahdavi, T. Ahmadi, P. Belur, Los Angeles, CA, p.A4043
- P310** **'NET' Again: Pulmonary Carcinoid in a Case of MEN Type 1/T.** Young, J. Martires, D. Karunasiri, A. Lo, N. Kamangar, Los Angeles, CA, p.A4044
- P311** **A Rare Cause of Hemoptysis: Inflammatory Myofibroblastic Tumor of the Trachea/R.** Winsett, M.I. Velez, O. Bode-Omoleye, San Antonio, TX, p.A4045

- P327** **A Diagnostic “Tap”: The Use of Thoracentesis in the Diagnosis of Pulmonary Plasmacytoma/W.** Rodriguez, Y. Otero-Dominguez, A. Candelario, L. Gonzalez, O.J. Cantres, San Juan, PR, p.A4061
- P328** **Bilateral Primary Endobronchial Leiomyosarcoma/B.W.** Stephenson, C.A. Read, Washington, DC, p.A4062
- P329** **A Case Report of Primary Pulmonary Mucosa Associated Lymphoid Tissue Lymphoma/A.** Magge, O. Ibrahim, Farmington, CT, p.A4063

THEMATIC POSTER SESSION

B72 CASE REPORTS IN THORACIC ONCOLOGY IV

9:15 a.m. - 4:15 p.m. **SAN DIEGO CONVENTION CENTER**

Area D (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: M.P. Rivera, MD, Chapel Hill, NC
Y. Nakanishi, MD, PhD, Fukuoka, Japan

- P331** **Unique Radiographic Presentation of Lepidic Predominant Adenocarcinoma in a Clinical Vignette that Is Obscured by Infection/A.** Bourbia, R. Al-zoubi, M. Abu Omar, Z.M.K. Shmaisani, Kansas City, MO, p.A4064
- P332** **Neurofibromatosis 1 Presenting with a Large Mediastinal Mass/M.F.** Odish, D.J. Conrad, La Jolla, CA, p.A4065
- P333** **Broncho-Oesophageal Fistula the Cause of Non Resolving Pneumonia/N.** Appusamy, Trichy, India, p.A4066
- P334** **Myelolipoma: A Rare Tumor in a Rare Location/D.** Sukhai, K. Rosario, R. Allan, M. Siegman, Brandon, FL, p.A4067
- P335** **Brotherly Love: A Case of Pulmonary Plasma Cell Granuloma in Twin Brothers/J.** Sadiq, R. Restrepo-Jaramillo, Tampa, FL, p.A4068

Facilitator: D.E. Midthun, MD, Rochester, MN

- P336** **Rare Variant of High-Grade B-Cell Lymphoma Presenting as a Pleural-Based Mass in an Immunocompetent Patient/R.** Godbole, J. Xu, G. Shestakova, F.A. Youssef, B. Saatian, Orange, CA, p.A4069
- P337** **Large Cell Lung Carcinoma with Rhabdoid Phenotype with a Targetable Mutation/Y.** Simons, A.I. Velazquez, New York, NY, p.A4070
- P338** **Bronchoscopy Reveals a Missed Bilateral Synchronous Endobronchial Squamous Cell Carcinoma of Lung on Imaging/D.** Patel, R.C. Rajmane, M. Arnouk, Brooklyn, NY, p.A4071
- P339** **Primary Pulmonary Diffuse Large B Cell Lymphoma Mimicking Pulmonary Infection Primary Pulmonary Diffuse B- Cell Lymphoma Mimicking Pulmonary Infection/H.** Khudayar, P. Pinargote, A. Zia, I. Ribizziakhtar, Pawtucket, RI, p.A4072
- P340** **Primary Pulmonary Lymphoma Masquerading as Pneumonia/M.** Abdelkader, V. Singh, York, PA, p.A4073

- P341** **An Extremely Rare Case of Transudate Chylothorax Secondary to Carcinoid Tumor/F.** Ye, K. Srour, H. Saleh, T. Saidahmed, F.M. Khateeb, F. Safi, Toledo, OH, p.A4074
- P342** **Endobronchial Mucous Gland Adenoma: A Rare Cause of Recurrent CHF/R.** Hilton, B.T. Hehn, M. Jacobs, Philadelphia, PA, p.A4075
- P343** **An Unusual Case of Stage IV Adenocarcinoma of the Lung/** M. Das, N. Hein, A. Rathi, A. Leong, Brooklyn, NY, p.A4076
- P344** **Pulmonary Amyloidosis Mimicking Lung Cancer/J.** Chan, Z. Patel, P. Bacaj, R.G. Sangani, Morgantown, WV, p.A4077
- P345** **Fast and Furious - Atypically Short Doubling Time of a Lung Adenocarcinoma/M.** Kakol, E. Sheehan, D.J. Upson, S. Cox, Albuquerque, NM, p.A4078

Facilitator: A. Spira, MD, Boston, MA

- P346** **A Nut-ty Case of Lung Cancer/E.** Levin, M.E. Dauterive, C. Brown, Greenville, NC, p.A4079
- P347** **A Rare Malignancy of the Lung: A Case of Solitary Plasmacytoma/** M. Odeesh, K. Gannamraj, M. Muthiah, Memphis, TN, p.A4080
- P348** **Peritoneal Carcinomatosis in Lung Cancer: A Rare Association/M.** Odeesh, P. Iyer, M. Zaman, Memphis, TN, p.A4081
- P349** **Nodular Pulmonary Amyloidosis Presenting as a Solitary Pulmonary Nodule/C.** Meenach, A.P. Maskey, Lexington, KY, p.A4082
- P350** **Near Complete Right Lung Obliteration Due to Rare Pulmonary NUT Midline Carcinoma/C.** Brizendine, E. Ewing, H.K. Poonyagariyagorn, Portland, OR, p.A4083
- P351** **Rare Presentation of Sclerosing Pneumocytoma Manifesting as an Endobronchial Lesion/K.** Alshabani, S. Mukhopadhyay, L.S.H. Lam, Cleveland, OH, p.A4084
- P352** **Lambert Eaton Myastenic Syndrome (LEMS) Diagnosed Using Endobronchial Ultrasound Guided Lymph Node Biopsy/K.** Scatliffe, L. Mwamuka, M. Mody, A. Arjuna, T. Anandarangam, P. Patel, Newark, NJ, p.A4085
- P353** **Association of Sarcoidosis with Hodgkin Lymphoma/M.J.** Miles, T. Dillard, Augusta, GA, p.A4086
- P354** **Dual Primary Lung Cancers. Mucoepidermoid Carcinoma and Adenocarcinoma, a Rare Entity/A.** Asaad, C. Sriaroon, Tampa, FL, p.A4087
- P355** **Primary Hepatic CD30 Positive, CD-15 Negative Classical Hodgkin’s Lymphoma Presenting as Fever of Unknown Origin/A.** Arjuna, S. Yousuf, M. Mody, I. Vavilin, L. Elreda, A. Cohen, P. Patel, Newark, NJ, p.A4088

THEMATIC POSTER SESSION

B73 CASE REPORTS IN THORACIC ONCOLOGY V

9:15 a.m. - 4:15 p.m. **SAN DIEGO CONVENTION CENTER**

Area D (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

Facilitator: G.A. Silvestri, MD, Charleston, SC

- P357** **The Curious Case of Oligometastatic Lung Adenocarcinoma with Unidentified Primary/M.N.J. Tarar, P. Ochieng, Scranton, PA, p.A4089**
- P358** **Delayed Diagnosis of Lung Cancer in a Patient with TIF1-Gamma Associated Dermatomyositis/Y.T. Debella, A. Lee, J. Sluzevich, Jacksonville, FL, p.A4090**
- P359** **Pulmonary Artery Sarcoma Diagnosed by Endovascular Catheter-Guided Biopsy: A Case Report/H. Tsubata, N. Nakanishi, K. Yanishi, K. Zen, T. Yamano, T. Nakamura, H. Shiraiishi, T. Shirayama, S. Matoba, S. Numata, H. Yaku, H. Tsuneduka, M. Inoue, Kyoto, Japan, p.A4091**
- P360** **Blasts in the Lung: Rare Presentation of Acute Myeloid Leukemia/M.A. Saeed, E.D. Adickes, D.J. Romberger, Omaha, NE, p.A4092**
- P361** **Pulmonary Mucoepidermoid Carcinoma, with Persistent Dyspnea in a 25 Year Old/K. Zakharov, D. Lim, C. Zambrano, M.X. Bowen, M. Vaynblat, Brooklyn, NY, p.A4093**
- P362** **Cardiac Tamponade Secondary to Hemopericardium Revealing Two Malignancies: Lung Adenocarcinoma and Chronic Lymphocytic Leukemia (CLL)/A. Husain, A. Mohammed, G. Elnema, B. Pearlman, Atlanta, GA, p.A4094**
- P363** **Nonbacterial Thrombotic Endocarditis with Multiple Embolic Events/A. Cheema, T. Karawadia, R. Bajwa, M. Carson, Neptune City, NJ, p.A4096**
- P364** **Lung Cancer in a Very Young Males/N. Lopes, A. Gregor, O. Soares, Dili, Timor-Leste, p.A4097**

Facilitator: L.T. Tanoue, MD, New Haven, CT

- P365** **Pneumonectomy in a Patient with Synchronous Primary Lung Tumors and Endobronchial Metastasis/C. Zambrano, F. DiRoma, M. Vaynblat, New York, NY, p.A4098**
- P366** **A New Diagnosis of Neurofibromatosis Type 1 in a Young Adult Male Presenting with Palpitations and Posterior Mediastinal Mass/S. Giancaterino, D. Vargas Valdivieso, P. Akuthota, La Jolla, CA, p.A4099**
- P367** **Extraskelatal Pulmonary Osteosarcoma Masquerading as Tuberculosis/Y. Perez, R. Rico, D. Ashkin, A. Schmid, Miami, FL, p.A4100**
- P368** **Drainage of Cystic Component of Lymph Node Provides Diagnosis of Metastatic Adenocarcinoma/K. Gillen, H.E. Latham, L.G. Satterwhite, Kansas City, KS, p.A4101**
- P369** **Germline T790M Mutation of the Epidermal Growth Factor Receptor (EGFR) in a Case of Multifocal Adenocarcinoma of the Lung Without Exposure to Tyrosine Kinase Inhibitors (TKI)/M. Azab, T. Al-Dawoodi, A.O. Romero, N. Vogelzang, Las Vegas, NV, p.A4102**
- P370** **Rapid Growing Intrapleural Synovial Sarcoma: A Case Report/T. Nobuya, M. Okuda, Y. Asao, R. Kawai, Hirakata, Japan, p.A4103**
- P371** **Primary Pulmonary Angiosarcoma: Rare and Deadly/M. Naddour, Pittsburgh, PA, p.A4104**

- P372** **Typical Lung Carcinoid with Central Obstruction: An Incidental Finding/D. Genin, A. Iflikhar, S.R. Karbowitz, Flushing, NY, p.A4105**

Facilitator: A.I. Musani, MD, Aurora, CO

- P373** **A Perplexing Case of Mediastinal HTLV-1 Lymphoma Masquerading as Tuberculosis/M. Shahzadi, M. Ankur, A.Z. Rasheed, V.P. Vasudevan, Brooklyn, NY, p.A4106**
- P374** **An Unusual Tumor with Unusual Metastasis/M. Alziadat, M. Hanna, T. Pandya, Z. Syed, A. Sharaan, M. Ismail, Paterson, NJ, p.A4107**
- P375** **Giant Thymolipoma in a Young Woman: A Case Report/L. Fernandez, V. Correa, M. Velasquez, L.F. Sua Villegas, C.S. Leib, Cali, Colombia, p.A4108**
- P376** **Sleeping Beauty: A Case of a 15-Year-Old Pulmonary Epithelioid Hemangioendothelioma/J. Loeb, U. Chaddha, W. Elatre, C.-F. Chang, Los Angeles, CA, p.A4109**
- P377** **Syncope with a Sinister Source: An Extremely Rare Presentation of a Mediastinal Liposarcoma/S. Schokrpur, H. Wangberg, P. Basu, R.E. Sell, La Jolla, CA, p.A4110**
- P378** **Organizing Pneumonia as a Complication of Pembrolizumab Therapy/J. Nguyen, N. Kamangar, Sylmar, CA, p.A4111**
- P379** **Mediastinal Lymph Node Metastasis Without Liver or Lung Involvement After Curative Resection of Colon Cancer/D.W. Park, T.S. Park, J.-Y. Moon, S.-H. Kim, T.-H.**

THEMATIC POSTER SESSION

B74 CASE REPORTS IN THORACIC ONCOLOGY VI

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area D (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: M.C. Bezzi, MD, Florence, Italy

- P382** **Brown Tumor of the Chest Wall- A Rare Complication of Secondary Hyperparathyroidism/A.M. Shah, Z. Atif, K. Solanki, M. Babury, R. Pinsker, Jamaica, NY, p.A4113**
- P383** **The Clever Disguise of Invasive Pulmonary Adenocarcinoma/A. Tandon, V. Tandon, A. Magge, Farmington, CT, p.A4114**
- P384** **Lymphoma as a Primary Pulmonary Mass/M. Shahzadi, K. Zaman, A.Z. Rasheed, L.N. Gerolemou, Brooklyn, NY, p.A4115**
- P385** **A Rare Case of Metastatic Choriocarcinoma Presenting One Week After a Term Pregnancy/V. Vilensky, N.K. Meena, Little Rock, AR, p.A4116**
- P386** **The Role of IVIG and Steroids in Acute Cognitive Impairment in Paraneoplastic Limbic Encephalitis Due to Small Cell Lung Cancer/J.M. Dolan, A. Rivas, D. Murray-Frank, A. Baig, E. Rojas, J.P. Mehta, Weston, FL, p.A4117**

- P387 A Case of Unusual Presentation of Small Cell Lung Cancer/R.K.S. Patti, P. Chandar, S. Shankar, B. Shamian, A. Saradna, W. Pascal, M.I. Bergman, K. Chawla, Brooklyn, NY, p.A4118**
- P388 A Case of Mesothelioma with Cystic Mediastinal Lymphadenopathy/K. Tallon, C.C. Tyan, Saskatoon, Canada, p.A4119**
- P389 When You Hear Hooves, Do Not Ignore the Zebra: Malignancy Disguised as Recurrent Pneumonia/C. Ba Mendoza, M. Sherman, S. Fidahusseini, Suwanee, GA, p.A4120**
- P390 A Drooling Man: A Case of Superior Vena Cava Syndrome/R. Bajwa, A. Cheema, T. Khan, W. Lerner, T. Bauer, F. Frasco, Neptune, NJ, p.A4121**

Facilitator: T. Vandemoortele, MD, Montreal, Canada

- P391 Lambert Eaton Myasthenic Syndrome Diagnosed Using Endobronchial Ultrasound/M. Mody, L. Mwamuka, K. Scatliffe, T. Anandarangam, P. Patel, A. Mehta, Newark, NJ, p.A4122**
- P392 Tracheobronchial Inflammatory Myofibroblastic Tumor in a Young Adult with Subsequent Sarcoidosis/M.K. Hayat Syed, K.M. Kunisaki, Minneapolis, MN, p.A4123**
- P393 Rapid Progressive Pulmonary Malignant Perivascular Epithelioid Cell Tumor: A Case Report and Literature Review/X. Shi, S. Jiang, H.-Z. Shi, Beijing, China, p.A4124**
- P394 Pulmonary Salivary Gland-Type Lung Cancer Initially Diagnosed as Tuberculosis: A Case Report/C.V. Choong, Z. Ng, K.M. Eu, K.H. Yap, A. Lim, J.A. Abisheganaden, Singapore, Singapore, p.A4125**
- P395 Diagnostic Process of a Patient with FDG PET Negative Pulmonary Metastases and Prostate Adenocarcinoma/K.M. Eu, C.V. Choong, Z. Ng, J.A. Abisheganaden, Singapore, Singapore, p.A4126**
- P396 Paraganglioma of the Middle Mediastinum: Challenging Diagnosis and Curative Treatment/M. Naddour, O. Ashraf, M. Beg, A. Singh, Pittsburgh, PA, p.A4127**
- P397 Kaposi Sarcoma: A Rare Case Presentation of Gastrointestinal and Pulmonary Metastasis/A. Hines, V. Thakkar, A. Adial, M. Cheema, A. Iftikhar, Flushing, NY, p.A4128**
- P398 Unusual Presentation of Pulmonary Carcinoid: A Case Report and Review of Literature/A. Iftikhar, A. Hines, A. Adial, D. Genin, J.M. Mann, Flushing, NY, p.A4129**

Facilitator: Y.B. Gesthalter, MD, Boston, MA

- P399 An Atypical Case of Cardiac Tamponade Leading to a Diagnosis of Metastatic Adenocarcinoma/J. Trabanco, Z. Burden, N. Najjar, W. Aung, Jacksonville, FL, p.A4130**
- P400 Cryptogenic Organizing Pneumonia as a Precursor of Primary Hodgkin's Disease: An Unreported Entity/A. Lal, J. Akhtar, Y. Chen, S.M. Davis, Worcester, MA, p.A4131**
- P401 Two Primary Malignancies in an Ex-Smoker with History of Elevated Antinuclear Antibody: A Case Report/E.C. Santillana, S.A. Arias, Miami, FL, p.A4132**
- P402 Diffuse Pleural Metastases as a Manifestation of Recurrence in Adenoid Cystic Carcinoma/B. Birnbaum, M. Oron, B.A. Mina, New York, NY, p.A4133**

- P403 Diplopia: A Presentation of Leptomeningeal Carcinomatosis Due to Small Cell Lung Cancer/Y.-C. Wu, J. Lio, G. Barmaimon, P.S. Patrawalla, New York, NY, p.A4134**
- P404 Lung to Testis - Metastatic Adenocarcinoma/S. Hadigal, H.A.M. Fakhri, D. Becnel, D.R. Urbine, Gainesville, FL, p.A4135**
- P405 A Rare Entity of Primary Pulmonary Hodgkin Lymphoma with Cavitation/H.-I. Liao, D. Izaguirre-Anariba, N. Tandan, P.A. Mir, Brooklyn, NY, p.A4136**
- P406 The Sneak Attack: A Case of Superior Vena Caval Invasion by a Recurrent Thymoma/A.A. Khan, B. Pannu, N. Sher, S. Raheel, Chicago, IL, p.A4137**

THEMATIC POSTER SESSION

B75 CASE REPORTS IN THORACIC ONCOLOGY VII

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area D (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion

12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: D.A. Arenberg, MD, Ann Arbor, MI
M.M. Tor, MD, Zonguldak, Turkey

- P408 A Case of Cavitary Lung Lesions: A Diagnostic Dilemma/M.R. Jordan, A. Musa, S. Chaaban, Lexington, KY, p.A4138**
- P409 Tracheal Secretions, Should It Be Neglected?/J.Y. Oh, J. Choi, Y.S. Lee, K.H. Min, G.-Y. Hur, S.Y. Lee, K. Kyung Ho, J.J. Shim, Seoul, Korea, Republic of, p.A4139**
- P410 New Spinal Kaposi Sarcoma Lesions Despite Improvement of Endobronchial Kaposi Sarcoma After Treatment with Chemotherapy/M. Wei, N. Kamangar, Sylmar, CA, p.A4140**
- P411 Obstructive Jaundice Secondary to Intrahepatic Cholestasis by Diffuse Metastatic Liver Disease as the Initial Presentation of Small Cell Lung Cancer/Z. Khan, M.S. Khan, A. Moustafa, R. Ahmed, A.S. Flora, F. Safi, Toledo, OH, p.A4141**
- P412 Atypical Chest Pain and Dyspnea as Presenting Symptoms of an Isolated Mediastinal Extramedullary Plasmacytoma/G. Ivashchuk, M. Sanchez Sierra Marino, R. Arauco Brown, McAllen, TX, p.A4142**
- P413 Pulmonary Sarcomatoid Carcinoma: An Often Missed Diagnosis with Poor Prognosis/S.I. DeSouza, K. Gopalratnam, J. Persico, Bridgeport, CT, p.A4143**
- P414 Unusual Presentation of Pulmonary MALT-Lymphoma as an Occlusive Mainstem Endobronchial Mass/J.M. Dolan, J.M. Diacovo, C. Chaulagain, J. Kirsch, S. Palasamudram Shekar, K.B. Patel, S. Aleyas, Weston, FL, p.A4144**
- P415 Malignant Pleural Effusion with Unknown Primary Cancer: A Single Center Experience of Three Cases with Non-Revealing Radiographic Studies/S. Awadallah, A. Mohan, Greenville, NC, p.A4145**

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

Facilitator: D.H. Serman, MD, New York, NY

- P416 Pulmonary Metastasis in a Patient with Multiple Primary Adenocarcinomas: A Case Report/L.** Fernandez, C.A. Calderon, L.F. Sua Villegas, C.S. Leib, Cali, Colombia, p.A4146
- P417 Unexpected Expectoration/K.** Gafoor, B. Husta, Manhattan, NY, p.A4147
- P418 Obstructing Hyalinizing Clear Cell Primary Tracheal Carcinoma Presenting with a Non-Fixed Expiratory Spirogram/B.L.** Icard, E. Rubio, S. Aziz, Roanoke, VA, p.A4148
- P419 Diffuse Idiopathic Pulmonary Neuroendocrine Cell Hyperplasia (DIPNECH): A Case Report of a Rare Disease/P.** Pedro, D. Canario, M. Lopes, A. Oliveira, J. Soares, C. Rodrigues, J.R. Vieira, Almada, Portugal, p.A4149
- P420 Expanding Lung Mass in a Patient with Chronic Myelomonocytic Leukemia/W.** Grier, O. Kalchiem-Dekel, E. Pickering, V.H. Duong, E. Wilding, Z.N. Singh, A. Sachdeva, Baltimore, PA, p.A4150
- P421 Adenocarcinoma of the Lung Masquerading as Aspiration Pneumonia/D.A.** Ermann, J.D. Parekh, V.V. Noble, F. Alghoula, M.F. Anwar, Omaha, NE, p.A4151
- P422 Hemoptysis as an Initial Presentation of Poorly Differentiated Thyroid Carcinoma: An Ominous Presentation/Z.** Atif, J. Morante, L. Curiel, K. Doshi, M. Babury, Jamaica, NY, p.A4152

Facilitator: M.M. Fuster, MD, San Diego, CA

- P423 A Misleading Case of Pulmonary Tuberculosis/V.** Gallo, Turin, Italy, p.A4153
- P424 Histiocytic Sarcoma of Interdigitating Reticular Cells in the Mediastinum - Case Report/J.M.A.** Lopez, A. Miotto, P.A.A. Honda, J.H. Rivaben, D.C.A. Dias, R.H. Roja, T.B. Hasegawa, M. Botter, M.C. Braz, Sao Paulo, Brazil, p.A4154
- P425 Dynamic Large Airway Obstruction Caused by an Inflammatory Myofibroblastic Tumour/P.** Kerr, E.D. Moloney, Dublin, Ireland, p.A4155
- P426 An Unusual Presentation of a Primary Schwannoma of the Lung/J.R.** Aleman-Ortiz, I. Lamboy, L. Vazquez-Zubillaga, H. Collazo-Santiago, H. Rosado-Toledo, Ponce, PR, p.A4156
- P427 The Initial Evaluation of a Newly Diagnosed Malignancy: A Diagnostic Dilemma/S.** Sama, L. Delasos, C. Mosebach, Farmington, CT, p.A4157

11:45 a.m. - 1:15 p.m.

ATS WOMEN'S FORUM

MANCHESTER GRAND HYATT SAN DIEGO
Grand Hall B (Lobby Level)

The annual ATS Women's Forum recognizes the achievements and supports the advancement of women in pulmonary, critical care, and sleep medicine and research. We are pleased to have **A. Sonia Buist, MD**, Professor Emerita of Medicine, Division of Pulmonary and Critical Care Medicine, School of Medicine, Oregon Health & Science University, as our speaker this year.

Dr. Buist is ATS past president and the founder of the ATS Methods in Epidemiologic, Clinical, and Operations Research (MECOR) program. She is a passionate advocate for advancing global public health policy through research, and truly embodies the ATS vision of "helping the world breathe." Dr. Buist will discuss issues that are relevant to female medical professionals followed by a question and answer period.

In addition, the 2018 Elizabeth A. Rich, MD Award, which honors the memory and work of Elizabeth Rich, MD, will be presented to **V. Courtney Broaddus, MD**, Professor at the University of California, San Francisco, who will also address the audience. This award is given annually to a woman who has made significant achievements in the practice or science of pulmonary, critical care, or sleep medicine; demonstrated leadership in her field; and has shown dedicated mentorship of junior colleagues.

The forum provides a valuable opportunity for women to meet new colleagues and ATS leaders. Men are also welcome to attend the forum. Attendees will find value in the inspirational messages and career insights the speakers share as well as vibrant networking opportunities.

The forum is organized and presented by the ATS Membership Committee, and will be hosted by **Janet Lee, MD**, chair of the committee.

Conference badges are required for admission.

Space is limited and admittance is on a first-come, first-served basis. There is no additional fee. A plated lunch will be served.

BEHAVIORAL • CLINICAL

WORKSHOP

CME Credits Available: 1.5

WS3 HOW TO DESIGN A ROBUST CLINICAL TRIAL IN SLEEP APNEA: LOOKING BACK, LOOKING AHEAD

R Registration Fee: \$75 (includes box lunch)
Attendance is limited. Pre-registration is required.

Assemblies on Sleep and Respiratory Neurobiology; Behavioral Science and Health Services Research; Clinical Problems

11:45 a.m. - 1:15 p.m. SAN DIEGO CONVENTION CENTER

Room 9 (Upper Level)

Target Audience

Junior and senior investigators interested in designing clinical trials in sleep medicine; providers of sleep apnea treatment; those interested in behavioral science and health services research

Objectives

At the conclusion of this session, the participant will be able to:

- identify limitations of recently published negative clinical trials in sleep apnea;
- learn new strategies to design future clinical trials in sleep apnea such as novel clinical trial designs, choosing individual vs. composite endpoints vs. surrogate measures of important clinical outcomes;
- integrate new strategies (learned from COPD, Cystic Fibrosis and Hypertension clinical trials) to improve CPAP adherence in future clinical trials in sleep apnea.

This workshop will provide participants with the tools to design the next best clinical trial in sleep apnea. The workshop will begin with a brief synopsis of the limitations of previously published trials (i.e. SAVE trial) and its major focus will be to discuss strategies for designing robust future clinical trials in sleep apnea. These strategies will include: novel clinical trial design application; choosing the right study endpoint(s); applying lessons learned from other pulmonary disease trials (such as from COPD and Cystic Fibrosis) to improve CPAP adherence; CPAP dosing and interpretation in clinical trials.

Chairing: N.A. Shah, MD, MPH, MSci, New York, NY
S. Pamidi, MD, Montreal, Canada
D.J. Gottlieb, MD, MPH, Boston, MA

11:45 Introduction

N.A. Shah, MD, MPH, MSci, New York, NY

11:55 Looking Ahead: Future Clinical Trial Designs in Sleep Apnea

S.S. Redline, MD, Boston, MA

12:15 Dosing and Interpretation of CPAP Adherence in Clinical Trials

D.M. Rapoport, MD, New York, NY

12:35 Strategies to Improve CPAP Adherence in Future Clinical Trials: Lessons From Other Disciplines

K.A. Rieker, PhD, Baltimore, MD

12:55 Individual and Composite Study Endpoints: Separating the Wheat from the Chaff

R.J. Goldberg, PhD, Worcester, MA

CLINICAL

WORKSHOP

CME Credits Available: 1.5

WS4 CARING FOR THE CHRONICALLY-VENTILATED CHILD: FROM HOSPITAL TO HOME

R Registration Fee: \$75 (includes box lunch)
Attendance is limited. Pre-registration is required.

Assembly on Pediatrics

11:45 a.m. - 1:15 p.m. SAN DIEGO CONVENTION CENTER

Room 10 (Upper Level)

Target Audience

Pulmonologists, intensivists, neonatologists, fellows/residents, practitioners from both large academic centers and smaller community hospitals

Objectives

At the conclusion of this session, the participant will be able to:

- summarize and implement the ATS Chronic Home Invasive Ventilation Guidelines;
- develop and/or improve a center-specific standardized discharge process and care plan for the chronically-ventilated children who receive care at their respective institutions.

Children with chronic respiratory failure may benefit from long-term mechanical ventilation via tracheostomy at home. Although caring for a chronically-ventilated child at home poses implicit risk, such care can be provided safely in this setting. In some cases, chronic respiratory failure improves over time and permits weaning ventilation and tracheostomy decannulation. Approaches to caring for technology-dependent children vary significantly among centers. Experts in pediatric pulmonology, aerodigestive evaluation, critical care, and sleep medicine will discuss important aspects of caring for this fragile patient population. An interactive roundtable discussion will follow to encourage audience participation.

Chairing: C.D. Baker, MD, Aurora, CO
A. Cristea, MD, Indianapolis, IN

11:45 Pediatric Chronic Home Invasive Ventilation Guidelines

L.M. Sterni, MD, Baltimore, MD

11:55 A Standardized Discharge Process for Unique Chronically-Ventilated Children

C.D. Baker, MD, Aurora, CO

12:05 Trach Safe: Improving the Safety of Every Child with a Trach

J.J. Soares, MD, Seattle, WA

12:15 Variation in the Approach to Chronic Ventilation: Location Matters

J. Edwards, MD, MA, New York, NY

12:30 Weaning Chronic Ventilation and Decannulation: It's All About the Timing

A. Cristea, MD, Indianapolis, IN

12:45 Round Table Discussion (with all speakers)

C.D. Baker, MD, Aurora, CO

CLINICAL
ADULT CLINICAL CORE CURRICULUM
CME Credits Available: 1.5
MOC Points Available: 1.5

CC2 CRITICAL CARE CLINICAL CORE CURRICULUM I

11:45 a.m. - 1:15 p.m. SAN DIEGO CONVENTION CENTER
Hall H (Ground Level)

Target Audience

Practicing internists, subspecialists, registered nurses and advanced practice nurses in pulmonary, critical care, and sleep medicine who work in a clinical setting and are currently engaged in maintenance of certification

Objectives

At the conclusion of this session, the participant will be able to:

- remain current with medical knowledge relevant to their practice in pulmonary, critical care, and sleep medicine;
- evaluate their understanding of key skills and content areas in pulmonary, critical care and sleep medicine, as well as receive feedback on their comprehension of a result of a pre-test/post-test comparison;
- support clinicians who are engaged in maintenance of certification activities by providing updates on subjects included in recertification requirements.

The ATS Clinical Core Curriculum Symposia focus on a 3-year content cycle of key medical content in the areas of Pulmonary, Critical Care, and Sleep Medicine. The topics are also aligned with corresponding MOC Medical Knowledge modules. This symposium is intended to assist clinicians with staying current with the growth of information relevant to their medical practice, as well as provide an opportunity to evaluate individual knowledge and skills while earning MOC Medical Knowledge points.

Chairing: J.I. McSparron, MD, Ann Arbor, MI
 M.M. Hayes, MD, Boston, MA
 A. Luks, MD, Seattle, WA

11:45 Neurology: Monitoring
 M.D. Boone, MD, Boston, MA

12:15 Neurology: Non-Traumatic Intracranial Hemorrhage
 B. Czeisler, MD, New York, NY

12:45 Endocrinology/Metabolism: Endocrinologic Emergencies
 A. Brady, MD, Portland, OR

AMERICAN LUNG ASSOCIATION
AIRWAYS CLINICAL RESEARCH CENTERS

L11 AMERICAN LUNG ASSOCIATION AIRWAYS CLINICAL RESEARCH CENTERS CLINICAL TRIALS

12:15 p.m. - 1:15 p.m. SAN DIEGO CONVENTION CENTER
Room 14 A-B (Mezzanine Level)

Target Audience

Physicians, clinical scientists, nurses, paraprofessionals, educators, health care providers

Objectives

At the conclusion of this session, the participant will be able to:

- gain new findings about the often undetected depression and anxiety in patients with COPD;
- learn new findings about improving clinical trial efficiency through use of internet-based remote electronic consenting and monitoring procedures;
- to diagnose if depressed asthmatics are more susceptible to enhanced advertising and the effects of placebo compared to non-depressed asthmatics.

This session is the first presentation of the results of the ACE study and MICT trial. The ACE study evaluated and compared diagnostic accuracy of 3 anxiety screening questionnaires using the MINI version 7.0 as the gold standard. The MICT trial hypothesized that incorporation of mobile devices and the internet into a study design, that tests interventions to reduce morbidity in pediatric asthma, would result in lower-cost methods for conducting clinical trials and encourage more families to participate. For the TAPE trial, the question of whether any underlying psychological risk, specifically depression, alters the placebo effect in participants with asthma.

Chairing: W.C. Bailey, MD, Birmingham, AL
 R.A. Wise, MD, Baltimore, MD

12:15 ACE Main Results, Summary, and Conclusions
 M. Eakin, PhD, Baltimore, MD

12:35 MICT Main Results, Summary, and Conclusions
 K. Blake, PharmD, Jacksonville, FL

12:55 TAPE Placebo Effect and Depression
 A.M. Mathews, MD, Durham, NC

NATIONAL INSTITUTE OF ALLERGY AND INFECTIOUS DISEASES, NIH

L12 WHAT FACTORS DETERMINE ASTHMA SEVERITY? LESSONS FROM THE NIH INNER CITY ASTHMA CONSORTIUM

12:15 p.m. - 1:15 p.m. SAN DIEGO CONVENTION CENTER
Room 1 A-B (Upper Level)

Target Audience

Clinicians, researchers, health care administrators, public health specialists, asthma educators

Objectives

At the conclusion of this session, the participant will be able to:

- learn new findings on how an obstructive phenotype determined by spirometry may be a valuable biomarker to assess asthma risk and to guide therapy;
- discuss how severity of allergic rhinitis relates to asthma severity;
- learn new findings about longitudinal asthma phenotypes and the environmental influences associated with them.

The Inner City Asthma Consortium (ICAC) recently completed a year long followup of children and adolescents with asthma. Data from this study provide insight into the roles of air trapping as measured by spirometry and allergic

rinitis in predicting asthma severity. Also data from an ongoing birth cohort (URECA) will be used to demonstrate the relation between different asthma phenotypes and asthma severity.

Chairing: P.J. Gergen, MD, MPH, Rockville, MD

12:15 Are There Phenotypes of Airflow Obstruction in Asthma and Do They Contribute to Disease Severity?

R.L. Sorkness, PhD, Madison, WI

12:35 If Asthma Is a “One Airway Disease” How Does Rhinitis Affect Disease Severity?

A. Toggias, MD, Bethesda, MD

12:55 What Phenotypes in Childhood Asthma Emerge in Association with Disease Severity?

L.B. Bacharier, MD, Saint Louis, MO

NIH-OFFICE OF THE DIRECTOR, ECHO PROGRAM

L13 ENVIRONMENTAL INFLUENCES ON CHILD HEALTH OUTCOMES: RESPIRATORY AND SLEEP RESEARCH IN ECHO

12:15 p.m. - 1:15 p.m. SAN DIEGO CONVENTION CENTER

Room 3 (Upper Level)

Target Audience

Health providers, trainees, established and early career investigators

Objectives

At the conclusion of this session, the participant will be able to:

- understand that respiratory outcomes can be impacted by exposures during prenatal and early postnatal life;
- learn and understand how air pollution exposures can be modeled to inform pediatric respiratory health;
- understand measures of asthma phenotypes and variation in US incidence rates nationwide.

The NIH supported Environmental Influences on Child Health Outcomes (ECHO) program is designed to investigate influences of environmental exposures (physical, chemical, biological, social, behavioral, natural and built environments) on child health and development, including respiratory outcomes among multiple, synergistic, longitudinal studies using existing cohort populations. The multiple cohorts will share standardized core data elements from ~50,000 children using meta-analyses and common data elements. This session will focus on examples of ECHO cohort research on environment and respiratory outcomes, opportunities to expand these to ECHO wide, and how researchers can participate in ECHO.

Chairing: C.J. Blaisdell, MD, Bethesda, MD
F.D. Gilliland, MD, PhD, Los Angeles, CA

12:15 Overview of Respiratory Outcomes in ECHO

F.D. Gilliland, MD, PhD, Los Angeles, CA

12:27 Comparison of Asthma Definitions and Incidence in the Echo Cohorts

C.C. Johnson, PhD, MPH, Detroit, MI

12:39 Environment in ECHO: Approaches for Air Pollution Exposure Assessment, Modeling and Measurements

R. Habre, ScD, Los Angeles, CA

12:51 Studies of Lung Function Outcomes in ECHO

A.A. Litonjua, MD, Rochester, NY

1:03 The ECHO Approach to Children’s Positive Health

C.A. Camargo, MD, MPH, DrPH, Boston, MA

U.S. FOOD AND DRUG ADMINISTRATION (FDA)

L14 PULMONARY UPDATE FROM THE U.S. FOOD AND DRUG ADMINISTRATION

12:15 p.m. - 1:15 p.m. SAN DIEGO CONVENTION CENTER

Room 16 A-B (Mezzanine Level)

Target Audience

Clinicians in practice, researchers, pharmaceutical industry representatives, international regulators

Objectives

At the conclusion of this session, the participant will be able to:

- competently use ICS/LABA medications in the maintenance treatment of asthma and have a clear understanding of the risk/benefit profile of this fixed dose combination product;
- understand the current risk/benefit framework for the treatment of cough with opioid-containing medications in the pediatric population;
- appreciate the benefits of single vs. multiple inhaler use in COPD patients with advanced disease requiring treatment with multiple medications.

The most recent regulatory FDA actions including recent drug approvals for pulmonary diseases (asthma, COPD, cystic fibrosis) will be discussed. Safety issues including the Agency’s review and decisions regarding the completed long-acting beta agonists (LABAs) safety studies in asthma, as well as the Agency’s ongoing efforts regarding current risk/benefit assessment of opioid drugs (in pediatric populations) for cough will be presented. The current regulatory framework for combination drug development in COPD will be discussed.

Chairing: B. Karimi-Shah, MD, White Oak, MD

12:15 Introduction

B. Karimi-Shah, MD, Silver Spring, MD

12:18 Pulmonary Update From the FDA

S. Seymour, MD, Silver Spring, MD

12:33 Long-Acting Beta Agonists and Asthma: Update on FDA’s Conclusions and Regulatory Actions

R. Lim, MD, Silver Spring, MD

12:51 Development of Fixed Dose Combination Products in COPD

B. Karimi-Shah, MD, Silver Spring, MD

1:09 Questions and Answers

B. Karimi-Shah, MD, Silver Spring, MD

VARIOUS ORGANIZATIONS

L15 RESEARCH FUNDING OPPORTUNITIES

12:15 p.m. - 1:15 p.m. SAN DIEGO CONVENTION CENTER

Room 15 A-B (Mezzanine Level)

Target Audience

Any ATS conference attendees who are conducting research and seeking research funding

Objectives

At the conclusion of this session, the participant will be able to:

- describe the research priorities of each funding agency represented on the panel;
- describe the research funding mechanisms of each agency represented on the panel;
- identify a funding agency that is most closely aligned with the attendee's research interest/program of research.

This session will introduce programs and research grant opportunities offered from various funding agencies. Speakers will present current research priorities and mechanisms of research funding available from each agency.

Chairing: J. Tate, PhD, RN, Columbus, OH
J.L. Guttormson, PhD, Milwaukee, WI

12:15 ATS Foundation
R.J. Schwab, MD, Philadelphia, PA

12:25 American Lung Association
S. Rappaport, MPH, New York, NY

12:35 National Institute of Nursing Research
K. Huss, PhD, Bethesda, MD

12:45 National Heart, Lung, and Blood Institute
L.A. Reineck, MD, Bethesda, MD

12:55 Patient-Centered Outcomes Research Institute
J. Slutsky, PA, MSPH, Washington DC, DC

1:05 Panel Discussion
J. Tate, PhD, RN, Columbus, OH

DIVISION OF LUNG DISEASES/NHLBI, NIH

L16 THE NATIONAL SLEEP RESEARCH RESOURCE: VISUALIZING AND SHARING DATA AND TOOLS

12:15 p.m. - 1:15 p.m. SAN DIEGO CONVENTION CENTER

Room 30 A-B (Upper Level)

Target Audience

Clinical researchers, epidemiologists, bioinformatic specialists, and clinicians

Objectives

At the conclusion of this session, the participant will be able to:

- identify opportunities for investigators to address critical questions about the impact of sleep disorders on health outcomes;

- learn about a "Sleep Data Commons" platform including sleep research digital objects; data sets; interfaces and tools for analysis meeting FAIR principles;
- identify applications of machine learning and advanced signal processing to uncover novel predictors of disease susceptibility.

The audience will be informed about new scientific advances using a large, web-based, sleep research resources to identify genetic risk factors, elucidated pathobiological mechanisms, and estimate the risk of mortality in overnight physiological recordings. Data-driven scientific presentations will introduce the capabilities of the NHLBI-funded National Sleep Research Resource, the Sleep Data Commons, and opportunities for advance analyses of biological signals and machine learning.

Chairing: M. Twery, PhD, Bethesda, MD
S.M. Purcell, PhD, Boston, MA

12:15 Overview of the NSRR: An Engine for Identifying Novel Genetic Markers
S.M. Purcell, PhD, Boston, MA

12:30 A Detailed Characterization of Hypoxia and Desaturation Profiles with Age and Gender in the Sleep Heart Health Study
P.I. Terrill, PhD, Brisbane, Australia

12:45 Apnea Event Durations Predict Cardiovascular Disease and Mortality
M.P. Butler, PhD, Portland, OR

1:00 Sleep Health Profiles and Mortality Risk in Older Adults
M. Wallace, PhD, Pittsburgh, PA

DIVISION OF LUNG DISEASES/NHLBI, NIH

L17 COLLABORATIVE PROJECTS TO ACCELERATE RESEARCH IN ORGAN FIBROSIS

12:15 p.m. - 1:15 p.m. SAN DIEGO CONVENTION CENTER

Room 33 A-C (Upper Level)

Target Audience

Researchers interested in lung or multi-organ fibrosis; Researchers developing collaborative, interdisciplinary research programs.

Objectives

At the conclusion of this session, the participant will be able to:

- Learn new findings about common mechanisms of fibrosis across organ systems including the lung
- Be able to more effectively design and organize collaborative interdisciplinary research efforts
- Increase awareness of novel therapeutic targets and biomarkers to treat and diagnose fibrosis

This session highlights work from an NHLBI-sponsored program that fosters collaborations among researchers studying fibrosis in the lung and other organ systems that aims to characterize mechanisms of aberrant fibrosis in different organ systems, develop novel therapeutic strategies to lessen organ fibrosis, and improve technologies to study fibrosis.

Chairing: M. Craig, PhD, Bethesda, United States

- 12:15** **Novel Role of RIPK3-Dependent Necroptosis Pathway in Lung and Kidney Fibrosis**
A.M.K. Choi, MD, New York, NY
- 12:30** **TRPV4-PI3K Axis Mediates Pulmonary and Cardiac Fibrosis**
M.A. Olman, MD, MA, Cleveland, OH
- 12:45** **Role of Pericytes in Scleroderma Skin and Lung Fibrosis**
L.M. Schnapp, MD, Charleston, SC
- 1:00** **Targeting Matrix Stiffness in Lung and Liver Fibrosis**
D.J. Tschumperlin, PhD, Rochester, MN

DIVISION OF LUNG DISEASES/NHLBI, NIH

L18 HOUSEHOLD AIR POLLUTION AND HEALTH: A MULTI-COUNTRY LPG INTERVENTION TRIAL

12:15 p.m. - 1:15 p.m. **SAN DIEGO CONVENTION CENTER**
Room 32 A-B (Upper Level)

Target Audience

Lung health professionals and clinical and basic researchers; environmental health clinical and basic researchers; biomarker researchers

Objectives

At the conclusion of this session, the participant will be able to:

- learn new finding about indoor air pollution and its consequences for health;
- improve the quality of life/ health status of patients using indoor air pollutants;
- understand the difficulties of pairing interventional and behavioral treatments in the low to middle income setting.

Globally, nearly 3 billion people rely on solid fuels for cooking and heating, the majority in low- and middle-income countries (LMICs). The resulting household air pollution (HAP) is the third leading risk factor in the 2010 global burden of disease, accounting for an estimated 4.3 million deaths annually, largely among women and young children. The presenters will describe to the audience a large-scale field trial with liquefied petroleum gas (LPG) cookstoves that is aiming at reducing exposure to levels that produce meaningful health improvements. The trial is randomizing 3,200 households in four LMICs (India, Guatemala, Peru, and Rwanda).

Chairing: A. Punturieri, MD, Bethesda, MD

- 12:15** **Introduction to the HAP Trial**
T. Clasen, PhD, Atlanta, Georgia
- 12:27** **Environmental Exposures and Indoor Air Pollution in HAP**
J.L. Peel, MPH, PhD, Fort Collins, CO
- 12:39** **HAP Trial Design and Clinical Outcomes**
W. Checkley, MD, PhD, Baltimore, MD
- 12:51** **The HAP Biomarker Study**
M. Clark, PhD, Fort Collins, CO
- 1:03** **Questions and Answers**

DIVISION OF LUNG DISEASES/NHLBI, NIH

L19 INVESTIGATORS CREATING ASTHMA EMPOWERMENT COLLABORATIONS TO REDUCE CHILDHOOD ASTHMA

12:15 p.m. - 1:15 p.m. **SAN DIEGO CONVENTION CENTER**
Room 29 A-D (Upper Level)

Target Audience

Clinicians managing pediatric asthma and those interested in community based research, disparities in health outcomes, and implementation science

Objectives

At the conclusion of this session, the participant will be able to:

- describe the value of a community needs assessment;
- understand how to engage community based stakeholders;
- address the needs of patients and their families for asthma care.

To make substantial progress in reducing disparities by improving the care of children at high risk of poor asthma outcomes, NHLBI supported researchers to design and develop comprehensive Asthma Care Implementation Programs (ACIP) that include evidence-based interventions from at least four different sectors that contribute to the care of children with asthma: medical care, families, home environment, and the community. Given the expectation that the ACIPs will be community based, investigators conducted community needs assessments.

- 12:15** **A Community Needs Assessment on the Navajo Nation**
B.G. Bender, PhD, Denver, CO
- 12:30** **Panel Discussion/ Questions**
- 12:45** **Community Needs Assessment in Children in Connecticut**
J.P. Hollenbach, PhD, AE-C, Hartford, CT
- 1:00** **Community Needs Assessment in the Head Start Program**
E. Ruvalaba, MSPH, Baltimore, MD

MEET THE PROFESSOR SEMINARS

CME Credits Available: 1

R **Registration Fee: \$70.00 (includes box lunch.)**
Attendance is limited. Pre-registration is required.

12:15 p.m. - 1:15 p.m. **MARRIOTT MARQUIS SAN DIEGO MARINA**

- MP501 REFRACTORY ASTHMA: A MULTIDISCIPLINARY APPROACH**
P. Akuthota, MD, La Jolla, CA
P. Vijayanand, MBBS, PhD, La Jolla, CA
Grand Ballroom 1 (North Tower, Lobby Level)
- MP502 PREPARING TO TEACH ONLINE: FROM LECTURE TO ENGAGEMENT**
G.L. Narsavage, PhD, MSN, RN, APRN, Morgantown, WV
Grand Ballroom 2 (North Tower, Lobby Level)

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- MP503 INTERPRETATION OF SEROLOGIES DURING INTERSTITIAL LUNG DISEASE INVESTIGATION**
S. Chartrand, MD, Montreal, Canada
Grand Ballroom 3 (North Tower, Lobby Level)
- MP504 ALPHA-1 ANTITRYPSIN DEFICIENCY: STATE OF THE ART**
J.K. Stoller, MD, MS, Cleveland, OH
Grand Ballroom 4 (North Tower, Lobby Level)
- MP505 METAPHORIC SIGNS IN CT CHEST IMAGING**
A.C. Mehta, MBBS, Cleveland, OH
Presidio 1 (North Tower, Lobby Level)
- MP506 STRATEGIES FOR ENHANCING CRITICAL THINKING AT THE BEDSIDE**
R.M. Schwartzstein, MD, Boston, MA
Presidio 2 (North Tower, Lobby Level)
- MP507 EXTRACORPOREAL MEMBRANE OXYGENATION: PHYSIOLOGICAL CURIOSITIES**
K.M. Wille, MD, MSPH, Birmingham, AL
B. Zakhary, MD, New York, NY
N.S. Sharma, MD, Birmingham, AL
Temecula 1-2 (North Tower, First Floor)
- MP508 SUBSTANCE ABUSE, INCLUDING THE OPIOID CRISIS AND ITS CONTRIBUTION TO THE GLOBAL BURDEN OF RESPIRATORY DISEASES**
M. Akpınar-Elci, MD, MPH, Norfolk, VA
K.L. Bailey, MD, Omaha, NE
Temecula 3-4 (North Tower, First Floor)
- MP509 MANAGEMENT OF PATIENTS WITH SEVERE COMMUNITY-ACQUIRED PNEUMONIA**
C. Feldman, MD, PhD, Johannesburg, South Africa
Leucadia (South Tower, First Floor)
- MP510 EXPERIENCES IN OUTPATIENT PULMONARY PALLIATIVE CARE**
D.M. Donesky, PhD, ANP-BC, San Francisco, CA
S. Booth, MD, Cambridge, United Kingdom
Point Loma (South Tower, First Floor)
- MP511 WHAT'S NEW IN THE PULMONARY MANAGEMENT OF NEUROMUSCULAR DISEASE**
G.D. Sharma, MD, Chicago, IL
Solana (South Tower, First Floor)
- MP512 CTEPH: MEDICINE, SURGERY OR ANGIOPLASTY?**
N.H. Kim, MD, La Jolla, CA
D.S. Poch, MD, La Jolla, CA
M. Madani, MD, La Jolla, CA
Balboa (South Tower, Third Floor)
- MP513 OBESITY HYPOVENTILATION SYNDROME: WHAT THE CLINICIAN NEEDS TO KNOW**
B. Sunwoo, MBBS, San Diego, CA
O. Mesarwi, MD, La Jolla, CA
B. Mokhlesi, MD, MS, Chicago, IL
Mission Hills (South Tower, Third Floor)
- MP514 SIMPLIFYING CLINICAL RELEVANCE OF BRONCH-BIOPSY TUMOR GENOMICS: WHAT PULMONOLOGISTS NEED TO KNOW**
D. Upadhyay, MD, Fresno, CA
Cardiff (South Tower, Third Floor)

- MP515 OFFICIAL ATS DOCUMENTS: HOW TO GET INVOLVED**
K.C. Wilson, MD, Boston, MA
R.A. Dweik, MD, Cleveland, OH
Del Mar (South Tower, Third Floor)

- MP516 PLEURAL INFECTION: MODERN EVIDENCE BASED MANAGEMENT**
N. Rahman, BM BCH, MSc, DPhil, Oxford, United Kingdom
Miramar (South Tower, Third Floor)

MEDICAL EDUCATION SEMINAR

CME Credits Available: 1

ME2 COMPOSING AN EDUCATIONAL SYMPHONY: INTERDISCIPLINARY TEACHING IN THE ICU

R Registration Fee: \$70 (includes box lunch)
Attendance is limited. Pre-registration is required.

12:15 p.m. - 1:15 p.m.

SAN DIEGO CONVENTION CENTER

Room 2 (Upper Level)

Target Audience

All providers who participate in ICU rounds- including but not limited to: students, residents, fellows, nurses, pharmacists, and respiratory therapists.

Objectives

At the conclusion of this session, the participant will be able to:

- Develop strategies to create an educational environment that promotes interdisciplinary teaching in the ICU
- Formulate questions that create focused opportunities for teaching by interdisciplinary team members
- Manage the flow of interdisciplinary teaching in order to maintain rounds that are both inclusive and efficient

This session will focus on strategies to promote interdisciplinary teaching in the intensive care unit. We will present an overview of the literature supporting the importance of interdisciplinary teams and discuss approaches to creating an environment conducive to collaborative teaching. Through video portrayals of common teaching and learning scenarios that occur during ICU rounds, we will explore opportunities for teaching by various team members, such as nurses, respiratory therapists, and pharmacists. In addition, through interactive discussion, the group will identify specific strategies to address common challenges and avoid potential pitfalls related to interdisciplinary teaching.

Speakers: A. Anandaiah, MD, Boston, MA
J. O'Toole, DO, Burlington, VT
K. Burkart, MD, MSc, New York, NY

CLINICAL

THEMATIC SEMINAR SERIES

CME Credits Available: 1

TSS1 NEUROMUSCULAR RESPIRATORY FAILURE: PART 2

R Registration Fee: \$140 for full series (includes box lunch)
Attendance is limited. Pre-registration is required.

This is part 2 of a 3-part series. Those registering for this seminar series will be registered for all 3 parts. The program for the full series is included with the Sunday, May 20, 12:15 p.m. program.

12:15 p.m. - 1:15 p.m. MARRIOTT MARQUIS SAN DIEGO MARINA

Palomar (South Tower, Third Floor)

Update on the Management of Respiratory Failure in DMD

R. Shell, MD, Columbus, OH

Extubation Protocols for the "Unweanable"

L. Wolfe, MD, Chicago, IL



ATS 2018
*Where today's science
meets tomorrow's care™*
International Conference
San Diego, CA
Monday Afternoon, May 21

1:15 p.m. - 2:15 p.m.

VISIT THE EXHIBIT HALL

Take this opportunity between sessions to visit the Exhibit Hall to gain practical knowledge to advance care and research. Exhibitors will be on hand to provide information on pharmaceutical products, medical equipment, publications and research services.

2:15 p.m. - 4:15 p.m.

**PRESENTATION OF
THE RECOGNITION AWARDS FOR
SCIENTIFIC ACCOMPLISHMENTS**

SAN DIEGO CONVENTION CENTER
Room 32 A-B (Upper Level)

As part of the ATS Respiratory Health Awards, the Recognition Awards for Scientific Accomplishments is given to individuals for outstanding scientific contributions in basic or clinical research to the understanding, prevention and treatment of lung disease. Those considered for the award are recognized for either scientific contributions throughout their careers or for major contributions at a particular point in their careers.

Chairing: A.J. Halayko, PhD, Winnipeg, Canada
D. Gozal, MD, MBA, Chicago, IL

Awardees:

- 2:15 Cellular and Genetic Factors in Cilia Assembly and Disease**
Steven L. Brody, MD, St. Louis, MO
- 2:45 Geometry of Cell Jamming: New Biology, Surprising Physics, and Useful Ideas About Airway Epithelium**
Jeffrey J. Fredberg, PhD, Boston, MA
- 3:15 Pluripotent Stem Cells for Lung Regeneration**
Darrell N. Kotton, MD, Boston, MA
- 3:45 Specialized Pro-Resolving Mediators for Lung Catabasis**
Bruce D. Levy, MD, Boston, MA

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

CLINICAL
ADULT CLINICAL CORE CURRICULUM
CME Credits Available: 2
MOC Points Available: 2

CC3 SLEEP MEDICINE CLINICAL CORE CURRICULUM II

2:15 p.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER
Hall H (Ground Level)

Target Audience

Practicing internists, subspecialists, registered nurses and advanced practice nurses in pulmonary, critical care, and sleep medicine who work in a clinical setting and are currently engaged in maintenance of certification

Objectives

At the conclusion of this session, the participant will be able to:

- remain current with medical knowledge relevant to their practice in pulmonary, critical care, and sleep medicine;
- evaluate their understanding of key skills and content areas in pulmonary, critical care and sleep medicine, as well as receive feedback on their comprehension of a result of a pre-test/post-test comparison;
- support clinicians who are engaged in maintenance of certification activities by providing updates on subjects included in recertification requirements.

The ATS Clinical Core Curriculum Symposia focus on a 3-year content cycle of key medical content in the areas of Pulmonary, Critical Care, and Sleep Medicine. The topics are also aligned with corresponding MOC Medical Knowledge modules. This symposium is intended to assist clinicians with staying current with the growth of information relevant to their medical practice, as well as provide an opportunity to evaluate individual knowledge and skills while earning MOC Medical Knowledge points.

Chairing: S.M. Jamil, MD, La Jolla, CA
T.S. Wang, MD, Los Angeles, CA
W.D. Conwell, MD, Aurora, CO

2:15 RLS/PLMD
B.A. Philips, MD, MPH, Lexington, KY
S. Pasha, MD, Lexington, KY

2:45 REM Behavior Disorders
B. Fields, MD, Decatur, GA

3:15 Sleep in Neurologic Disorders
M. Lipford, MD, Rochester, MN

3:45 Sleep in Neuromuscular Disease
T. Russell, MD, St. Louis, MO

BEHAVIORAL • CLINICAL • TRANSLATIONAL
YEAR IN REVIEW
CME Credits Available: 2
Nursing Contact Hours Available: 2.4

B81 NURSING YEAR IN REVIEW

Assembly on Nursing
2:15 p.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER
Room 30 A-B (Upper Level)

Target Audience

Clinicians and researchers, including registered nurses and advanced practice nurses who care or study older adults who experience chronic pulmonary illness, an ICU admission, or sleep problems.

Objectives

At the conclusion of this session, the participant will be able to:

- describe current knowledge as well as gaps in knowledge in aging biology of the lung, acute and chronic pulmonary conditions, sleep disorders, and pulmonary rehabilitation in the older adult;
- identify future research directions and clinical practice initiatives targeted to older adults who experience pulmonary, critical illness or sleep disorders;
- discuss policy and advocacy implications for older adults with pulmonary disease, critical illness and sleep disorders.

This session will review the current state of knowledge of older adults in pulmonary, critical care and sleep. Topic areas will include: aging lung physiology; critical care; chronic pulmonary disorders; pulmonary rehabilitation; sleep and health policy. Each speaker will review recent studies, discuss current gaps and highlight implications to clinical practice and future research.

Chairing: J. Tate, PhD, RN, Columbus, OH
J.L. Guttormson, PhD, RN, Milwaukee, WI

2:15 Physiologic Considerations in Older Adults with Pulmonary, Critical Care, and Sleep Conditions
C.M. Risaliti, MD, Columbus, OH

2:35 Older Adults and Chronic Pulmonary Disorders
V.M. McDonald, PhD, New Lambton Heights, Australia

2:55 Critical Illness and Older Adults
J. Tate, PhD, RN, Columbus, OH

3:15 Pulmonary Rehabilitation in the Older Adult
G.S. Bauldoff, PhD, RN, Columbus, OH

3:35 Sleep Disordered Breathing in Older Adults
L. Baniak, PhD, RN, Pittsburgh, PA

3:55 Health Policy and the Older Adult
S.J. Crowder, PhD, Fishers, IN

MONDAY AFTERNOON

BASIC • CLINICAL • TRANSLATIONAL

CLINICAL TOPICS IN PULMONARY MEDICINE

CME Credits Available: 2

Nursing Contact Hours Available: 2.4

B82 CONTROVERSIES IN THE DIAGNOSIS AND TREATMENT OF COPD

Assemblies on Clinical Problems; Allergy, Immunology and Inflammation; Nursing; Pulmonary Rehabilitation; Respiratory Cell and Molecular Biology; Respiratory Structure and Function

2:15 p.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Ballroom 20 B-C (Upper Level)

Target Audience

Clinicians, researchers, fellows in training, registered nurses, advanced practice nurses and therapists who care for patients with COPD

Objectives

At the conclusion of this session, the participant will be able to:

- discuss whether airflow obstruction is necessary to diagnose and treat COPD.
- determine whether a personalized treatment plan for COPD is feasible.
- evaluate whether a new concept or definition of what constitutes an exacerbation of COPD is needed.

The GOLD 2017 Report provides current evidence-based information to make recommendations regarding optimal COPD patient diagnosis and treatment for the clinician. However, there are gaps in the recommendations in some aspects of care because of contradictory evidence in the current medical literature. This session will focus on the current gaps in knowledge in the most important areas that exist in the care of the COPD patient. Hopefully this session will initiate and spur a sustained dialogue about these issues between clinicians, researchers and patients and help foster a creative multidisciplinary approach to addressing these gaps in current knowledge.

Chairing: G.J. Criner, MD, Philadelphia, PA
B.R. Celli, MD, Boston, MA
A. Agusti, MD, Barcelona, Spain

2:15 PRO: Is Airflow Obstruction Essential to Diagnose and Treat COPD?

B.R. Celli, MD, Boston, MA

2:25 CON: Is Airflow Obstruction Essential to Diagnose and Treat COPD?

R.A. Stockley, MD, DSc, Birmingham, United Kingdom

2:35 PRO: Is Personalized Treatment a Viable Goal?

F.C. Sciruba, MD, Pittsburgh, PA

2:45 CON: Is Personalized Treatment a Viable Goal?

C.F. Vogelmeier, MD, Marburg, Germany

2:55 PRO: Peripheral Eosinophils Are a Useful Biomarker in COPD

I.D. Pavord, MD, Oxford, United Kingdom

3:05 CON: Peripheral Eosinophils Are a Useful Biomarker in COPD

L.M. Fabbri, MD, Modena, Italy

3:15 PRO: A New Definition of COPD Exacerbation is Needed

A. Agusti, MD, Barcelona, Spain

3:25 CON: A New Definition of COPD Exacerbation is Needed

R. Rodriguez-Roisin, MD, PhD, Barcelona, Spain

3:35 PRO: Pulmonary Treatment of Exacerbations is Currently Adequate

J.A. Wedzicha, MD, PhD, London, United Kingdom

3:45 CON: Pulmonary Treatment of Exacerbations is Currently Adequate

G.J. Criner, MD, Philadelphia, PA

3:55 Panel Discussion: Controversies in COPD Treatment

This session and the International Conference are supported by educational grants from AstraZeneca LP, GlaxoSmithKline, Sunovion Pharmaceuticals Inc.

All CME sessions have been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) and are free of the control of commercial interests.

CLINICAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

B83 THE OTHER (NON-NON SMALL CELL LUNG CANCER) THORACIC MALIGNANCIES

Assemblies on Thoracic Oncology; Clinical Problems

2:15 p.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Room 1 A-B (Upper Level)

Target Audience

Clinicians of various specialties (Pulmonary medicine, thoracic surgery, oncology, pathology, radiology) who are involved in the care of patients with thoracic tumors, nurses, clinical researchers, pulmonary trainees.

Objectives

At the conclusion of this session, the participant will be able to:

- understand and implicate diagnosis of different thoracic tumors
- know and implicate local and systemic management of thoracic tumors
- Recognize future challenges in the research of non-NSCLC thoracic tumors

In recent years there has been substantial progress in the understanding and management of non-small cell lung cancer. In this symposium we aim to illuminate all the rest of the thoracic tumors, both malignant and benign, that a care-giver in pulmonology can find. There are only limited available therapies for small cell lung cancer (SCLC) and mesothelioma, mainly below first line of therapy. Some controversies in the management of these two malignant devastating diseases will be further discussed. Knowing and understanding the advancements in imaging and diagnosis of other thoracic tumors, e.g. mediastinal masses, neuroendocrine tumors and endobronchial lesions are crucial in better understanding the real nature of a mass or tumor found. Lastly, this symposium will address state of the art management of these different pulmonary tumors, and future perspectives, enabling experts and trainees to search and develop new modalities to treat these diseases.

Chairing: Z.G. Fridlender, MD, Jerusalem, Israel

D.H. Serman, MD, New York, NY

2:15 Introduction: Not All Thoracic Malignancies are NSCLC

Z.G. Fridlender, MD, Jerusalem, Israel

2:22 A Patient's Perspective

N. Beaty, New York, NY

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- 2:27 Mesothelioma: State of the Art**
T. Peikert, MD, Rochester, MN
- 2:52 Current and Future Diagnosis and Treatment of Small Cell Lung Cancer**
Speaker To Be Announced
- 3:17 How to Deal with Mediastinal Masses: Lymphoma and Beyond**
F. Detterbeck, MD, New Haven, CT
- 3:37 Benign Parenchymal and Endobronchial Tumors: Diagnosis and Management**
D.H. Serman, MD, New York, NY
- 3:57 Pulmonary Neuroendocrine Tumors: Pathogenesis, Diagnosis and Management**
Speaker To Be Announced

CLINICAL • TRANSLATIONAL

CRITICAL CARE TRACK

CME Credits Available: 2

B84 SIX CONTROVERSIES IN FLUID ADMINISTRATION IN SEPSIS

Assemblies on Critical Care; Clinical Problems

2:15 p.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER
Ballroom 20 A (Upper Level)

Target Audience

All clinicians who practice in an intensive care unit and researchers who conduct science related to sepsis

Objectives

At the conclusion of this session, the participant will be able to:

- Be able to recognize when and how to administer fluid to the septic patient.
- Know the different effects of different types of fluid on patients, and be able to tailor fluid therapy for a given patient.
- Recognize the potential harms of fluid administration and know when to consider diuresis or dialysis in septic patients.

Fluid administration is a key therapy in sepsis. Despite its long history, much uncertainty persists about how best to administer fluid. This session will cover six of the biggest questions on fluid administration in sepsis, including when to administer fluid, how to administer fluid, and when to consider diuresis or dialysis. Experts in the field will review the most recent evidence and offer answers to these questions. This session is of value to any clinician who treats sepsis, and any clinical or translational researcher who works in sepsis.

Chairing: N. Shapiro, MD, Boston, MA
V. Liu, MD, MS, Oakland, CA
M.J. Lanspa, MD, MSCR, Salt Lake City, UT

- 2:15 What Is the Correct Target for Fluid Administration?**
D. Kelm, MD, Rochester, MN
- 2:35 How Do We Predict Response to Fluid Administration?**
M.J. Lanspa, MD, MS, Salt Lake City, UT
- 2:55 When Should We Administer Fluid?**
N. Shapiro, MD, Boston, MA

- 3:15 What Type of Fluid Should We Administer?**
M.W. Semler, MD, MSc, Nashville, TN
- 3:35 What Are the Harms of Excess Fluid Administration?**
A. Acheampong, MD, Brussels, Belgium
- 3:55 When Is It Acceptable to Diurese or Dialyze the Septic Patient?**
P. Honore, MD, PhD, Brussels, Belgium

BASIC

BASIC SCIENCE CORE

CME Credits Available: 2

B85 IMMUNOMETABOLISM: THE COMPLEX INTERPLAY BETWEEN METABOLIC REPROGRAMMING AND IMMUNITY

Assemblies on Allergy, Immunology and Inflammation; Critical Care; Pulmonary Infections and Tuberculosis; Respiratory Cell and Molecular Biology

2:15 p.m. - 4:15 p.m. MARRIOTT MARQUIS SAN DIEGO MARINA
Pacific Ballroom 21 (North Tower, First Floor)

Target Audience

Pulmonary scientists seeking to gain novel insights into the emerging field of immunometabolism that links changes in intracellular metabolic pathways with altered immune cell function and ultimately affects lung homeostasis or disease progression.

Objectives

At the conclusion of this session, the participant will be able to:

- learn about the latest findings that link metabolic pathways to immune regulation and understand their relevance to lung health and disease states
- apply current knowledge in the field of immunometabolism to the study of diseases in respiratory and critical care medicine
- understand mechanisms by which cellular metabolic reprogramming maintains lung homeostasis or contributes to the progression of inflammatory, obstructive and neoplastic diseases

This symposium will provide the learner with a comprehensive overview of immune regulation by metabolic pathways in the context of respiratory diseases. The aim is to link immunometabolism and mitochondrial function or dysfunction to the understanding of protective or pathological immune responses in the lung. The influence of metabolism on host immunity and systemic inflammatory diseases will also be discussed. Individual speakers will review the concept and basic principles of immunometabolism, the crucial role of the mitochondria in these processes, and how the function of various immune cell types is affected by specific metabolic reprogramming and nutrient availability.

Chairing: S.T. Qureshi, MD, Montreal, Canada
C. Dela Cruz, MD, PhD, New Haven, CT

- 2:15 Introduction to Metabolism and Mitochondrial Signalling Mechanisms in the Control of Immunity**
N.S. Chandel, PhD, Chicago, IL
- 2:35 Metabolic and Epigenetic Regulation of T Cell and Macrophage Function**
C. Glass, MD, PhD, La Jolla, CA

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- 2:55 HIF-1 Alpha Metabolically Reprograms Recruited Macrophages to Promote Alveolar Repair**
W.J. Janssen, MD, Denver, CO
- 3:15 Mitochondrial Iron Metabolism in the Pathogenesis of COPD**
S.M. Cloonan, PhD, New York, NY
- 3:35 Macrophage Mitochondria as Effectors of Bacterial Killing in Health and Disease**
D. Dockrell, MD, PhD, Edinburgh, United Kingdom
- 3:55 Trained Innate Immunity and Metabolic Regulation of Sepsis**
J. Cheng, PhD, Hsinchu City, Taiwan

BEHAVIORAL • CLINICAL**SCIENTIFIC SYMPOSIUM**

CME Credits Available: 2

Nursing Contact Hours Available: 2.4

B86 FIRING ON ALL CYLINDERS: OPTIMIZING CRITICAL CARE DELIVERY AND IMPROVING OUTCOMES

Assemblies on Critical Care; Behavioral Science and Health Services Research; Nursing; Quality Improvement and Implementation Committee; ICU Directors Working Group

2:15 p.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Room 33 A-C (Upper Level)

Target Audience

Critical care clinicians; registered nurses and advanced practice nurses, hospital and ICU administrators; health services researchers

Objectives

At the conclusion of this session, the participant will be able to:

- identify knowledge gaps in ICU design and critical care delivery that are barriers to optimizing clinical outcomes, operational efficiency, and system costs;
- summarize the current literature and future directions for ICU staffing including off-hours bedside intensivists, advanced practitioners, and patient-intensivist ratios;
- discuss how thorough analysis of electronic health and patient flow data can help guide an appropriate and nuanced approach to ICU bed allocation and triage decisions.

This session will present established and emerging research addressing strategies for critical care delivery with the goals to optimize clinical outcomes, operational efficiency, and system costs. Specifically, the symposium will address centralized critical care governance, off-hours intensivist staffing, advanced practice providers in the ICU, assessments of the net benefit of ICU admission, the optimal intensivist patient load, and modeling ICU and step-down unit patient flow.

Chairing: G.L. Anesi, MD, MBE, Philadelphia, PA
M.N. Gong, MS, MD, Bronx, NY
J. Stevens, MD, MS, Boston, MA

- 2:15 Evolution of Modern Critical Care Medicine: From the Past to Future**
M.N. Gong, MD, MS, Bronx, NY

- 2:27 Overnight Intensivist Staffing: Myths, Facts, and Lessons Learned**

M.P. Kerlin, MD, MSCE, Philadelphia, PA

- 2:45 Allies in Critical Care: Integrating Advanced Practice Providers into ICU Teams**

D.K. Costa, PhD, RN, Ann Arbor, MI

- 3:03 In Pursuit of the Optimal Patient Load for Intensivists**

H. Wunsch, MD, MSc, Toronto, Canada

- 3:21 Determining ICU Net Benefit in Peri-Critical Illness**

G.L. Anesi, MD, MBE, Philadelphia, PA

- 3:39 Modeling ICU Patient Flow to Optimize Bed Allocation**

K.S. Mathews, MD, MPH, New York, NY

- 3:57 Who's in Charge: Novel Organizational Models of Centralized Critical Care Governance**

S.M. Pastores, MD, New York, NY

CLINICAL • TRANSLATIONAL**SCIENTIFIC SYMPOSIUM**

CME Credits Available: 2

Nursing Contact Hours Available: 2.4

B87 PAYING TOO HIGH A PRICE! THE LUNG HEALTH COST OF ENERGY EXTRACTION

Assemblies on Environmental, Occupational and Population Health; Clinical Problems; Nursing; Pediatrics; Environmental Health Policy Committee; Health Policy Committee; International Health Committee; Health Equality and Diversity Committee

2:15 p.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Room 7 A-B (Upper Level)

Target Audience

Providers of lung health, including registered nurses and advanced practice nurses, particularly those with clinical, epidemiological or translational research, administrative responsibilities, policy makers, and energy industry

Objectives

At the conclusion of this session, the participant will be able to:

- diagnose and manage coal mine dust lung disease and uranium miners' pneumoconiosis, using newer descriptions of disease that vary from the classical disease descriptions;
- discuss hazards associated with petrochemical/natural gas industry;
- determine the health hazards of climate change and lung health-based need for renewable energy

The acquisition, processing and transport of energy resources have significant direct and indirect effects on human lung health in the United States and across the world. This session will educate clinicians about novel aspects related to lung disease seen in workers in the fossil fuel energy industry and look to the future of renewables.

Chairing: A. Sood, MD, MPH, Albuquerque, NM
T.K. Takaro, MD, New Westminster, Canada
M.B. Rice, MD, MPH, Boston, MA

- 2:15 A Day in the Life of an American Miner**
W. Jarrell, CMSP, Grants, NM
- 2:25 The Life Cycle of Respiratory Disease in Coal Miners**
R.A. Cohen, MD, Chicago, IL
- 2:45 Update on Respiratory Hazards of Natural Gas Extraction by Hydraulic Fracturing (Fracking)**
D.N. Weissman, MD, Morgantown, WV
- 3:00 Petrochemical Industry and the Lung: A Clinical Translational Study on the Gulf of Mexico Oil Spill**
V.B. Antony, MD, Birmingham, AL
- 3:20 Uranium Industry and Lung Disease: Why “Clean” Fuel Might Not Be so Clean!**
N.A. Assad, MD, Albuquerque, NM
- 3:35 The Health Impact of Greenhouse Gas Production: A Nigerian Perspective**
O.N. Nwankwo, MBBS, MSc, Calabar, Nigeria
- 3:55 Alternatives to Fossil Fuels: California’s Policies to Promote Clean Energy**
M.D. Nichols, JD, Sacramento, CA

BEHAVIORAL • CLINICAL • TRANSLATIONAL
SCIENTIFIC SYMPOSIUM
CME Credits Available: 2
Nursing Contact Hours Available: 2.4

B88 JUST DO IT: REDUCING PEDIATRIC RESPIRATORY HEALTH DISPARITIES

Assemblies on Pediatrics; Behavioral Science and Health Services Research; Clinical Problems; Environmental, Occupational and Population Health; Nursing

2:15 p.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER
Room 6 B (Upper Level)

Target Audience

Clinicians, behavioral scientists, researchers, fellows, pediatricians, internists, registered nurses, advanced practice nurses, asthma and other health educators

Objectives

At the conclusion of this session, the participant will be able to:

- identify populations at risk for health disparities across several pediatric pulmonary diseases
- advocate for legislative and policy changes affecting poor and at risk children.
- integrate new strategies in clinical practice and research that will have the effect of closing the disparity gap for economically disadvantaged and at risk children in the US and globally.

The American Thoracic Society and the European Respiratory Society have defined respiratory health disparities as “significant differences in respiratory health that are closely linked to racial ancestry, social, economic, and or environmental differences affecting millions worldwide and leading to significant morbidity, decreased quality of life, and increased mortality”(1). During this session we will examine the effect of poverty on health disparities in children and review interventions and research aimed

at reducing respiratory health disparities in cystic fibrosis, asthma, sleep, and pneumonia, both in the United States and beyond. Speakers will focus on innovations, challenges, and barriers to successfully closing the respiratory health disparities gap in children. 1. Celedon JC, Burchard EG, Schraufnagel D, Castillo-Salgado C, Schenker M, Balmes J, Neptune E, Cummings KJ, Holguin F, Reikert KA, Wisniewsky JP, Garcia JGN, Roman J, Kittles R, Ortega VE, Redline S, Mathias R, Thomas A, Samet J, Ford JG. American Thoracic Society and the National Heart, Lung, and Blood Institute. An American Thoracic Society/National Heart, Lung, and Blood Institute Workshop Report: Addressing Respiratory Health Equality in the United States. *Ann Am Thorac Soc.* 2017 May;14 (5):814-826.

Chairing: B.J. Sheares, MD, MS, New York, NY
S. Lovinsky-Desir, MD, New York, NY
E. Brigham, MD, MHS, Baltimore, MD

- 2:15 Targeting Poverty to Reduce Respiratory Health Disparities in Children**
B. Dreyer, MD, New York, NY
- 2:40 Pediatric Asthma Disparities: Better, Worse, or About the Same**
E.G. Burchard, MD, MPH, Danville, CA
- 3:05 Upscaling Interventions to Reduce Disparities in Childhood Pneumonia: A Global Imperative**
H.J. Zar, MD, PhD, Cape Town, South Africa
- 3:30 Disparities in Cystic Fibrosis Outcomes: How Can We Close the Gap?**
S.A. McColley, MD, Chicago, IL
- 3:50 Disparities in Sleep: Is This a Silent Epidemic?**
B.J. Sheares, MD, MS, New York,

This session and the International Conference are supported by educational grants from GlaxoSmithKline, Sanofi Genzyme and Regeneron Pharmaceuticals, Vertex Pharmaceuticals Inc.
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BASIC • TRANSLATIONAL
SCIENTIFIC SYMPOSIUM
CME Credits Available: 2

B89 NOT JUST THE LUNGS: PAH AS A SYSTEMIC VASCULAR DISORDER

Assemblies on Pulmonary Circulation; Respiratory Cell and Molecular Biology; Respiratory Structure and Function

2:15 p.m. - 4:15 p.m. MARRIOTT MARQUIS SAN DIEGO MARINA
Grand Ballroom 5-6 (North Tower, Lobby Level)

Target Audience

Pulmonary and critical care physicians, cardiologists, nurse practitioners, pulmonary vascular biologists and trainees who conduct research in diseases of the pulmonary circulation.

Objectives

At the conclusion of this session, the participant will be able to:

- Review the state of the art knowledge regarding vascular dysfunction in PAH and introduce novel evidence that links higher incidence of systemic vascular diseases in these patients.

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

MONDAY AFTERNOON

- Discuss similarities and differences in disease mechanisms of vascular dysfunction in pulmonary vs. systemic manifestations of PAH.
- Discuss recent evidence that link PAH with higher incidence of the following diseases: CAD, stroke, renal vasculopathy, bronchial arterial vasculopathy, PVOD as well as new developments in microbiome research pertinent to PAH.

Since its initial description, pulmonary arterial hypertension (PAH) has been considered a vascular disease exclusive to the lungs. However, recent studies have uncovered evidence that patients with PAH also demonstrate abnormalities in the systemic circulation that compound the clinical impact of the lung disease. Understanding the nature of this crosstalk between pulmonary and systemic circulation promises to open exciting possibilities not only to understand the mechanisms behind vascular dysfunction but also revise our approach to patient care in PAH.

Chairing: V. De Jesus Perez, MD, Palo Alto, CA
K. Goss, MD, Madison, WI
K. Tran-Lundmark, MD, PhD, Lund, Sweden

2:15 A Patient's Perspective

M. Rushing, CRNA, Petaluma, CA

2:20 Insulin Resistance, Diabetes and Pulmonary Hypertension

A. Hemnes, MD, Nashville, TN

2:35 The Systemic Bronchial Circulation in PAH: Friend or Foe?

P. Dorfmuller, PhD, MD, Le Plessis Robinson, France

2:50 The Microbiome and Gut-Lung Axis in PAH

F. Perros, PhD, Le Kremlin Bicetre, France

3:05 PVOD: The Other Pulmonary Hypertension

D. Montani, MD, PhD, Le Kremlin Bicetre, France

3:20 PAH, the Brain and the Heart

S. Bonnet, PhD, MSc, Quebec City, Canada

3:35 Lung-Renal Vascular Dysfunction in PAH

E.D. Austin, MD, Nashville, TN

3:50 Skeletal Muscle Dysfunction in PAH

S. Provencher, MD, Quebec City, Canada

This session and the International Conference are supported by educational grants from Actelion Pharmaceuticals US, Inc., Bayer US.

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CLINICAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

B90 RAPID MOLECULAR DIAGNOSTICS FOR PNEUMONIA: IS SPEED THE ONLY THING?

Assemblies on Pulmonary Infections and Tuberculosis; Clinical Problems; Critical Care; Thoracic Oncology

2:15 p.m. - 4:15 p.m. MARRIOTT MARQUIS SAN DIEGO MARINA

Grand Ballroom 8-9 (North Tower, Lobby Level)

Target Audience

Pulmonologists, critical care physicians, hospitalists, microbiologists, oncologists, infectious disease specialists, and infection control specialists

Objectives

At the conclusion of this session, the participant will be able to:

- learn new findings about novel molecular diagnostic tests for acute pneumonia;
- diagnose patients with acute pneumonia;
- implement new strategies to treat patients with CAP or VAP.

This session will provide attendees an update on the development of diagnostic technologies for rapid identification and susceptibility of pathogens causing acute pneumonia. The speakers will 1) describe the scientific basis of the new molecular tests; 2) provide a perspective from the clinical microbiology laboratory on the advantages and challenges in implementing and integrating these new and emerging methodologies into clinical practice; and 3) assess the clinical utility of the rapidly evolving diagnostic technology. Due to the number new tests and concepts, we plan to leave adequate time for Questions and Answers.

Chairing: R. Nusrat, MD, Princeton, NJ
R. Patel, MD, Rochester, MN
S. Yende, MD, Pittsburgh, PA

2:15 Introduction

R. Nusrat, MD, Princeton, NJ

2:19 The Microbiology Laboratory in the Age of Rapid Diagnostics

R. Patel, MD, Rochester, MN

2:39 Application of Rapid Technology to Community Acquired Pneumonia

M.L. Metersky, MD, Farmington, CT

2:59 Application of Technology to Hospital and Ventilator Associated Pneumonia

M.H. Kollef, MD, St. Louis, MO

3:19 Predictive Values and Cost Considerations

R. Nusrat, MD, Princeton, NJ

3:39 What Should a Research Agenda Look Like to Define the Clinical Utility of New Diagnostic Tests?

M.S. Niederman, MD, New York, NY

BASIC • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

B91 AT THE INTERFACE OF ENGINEERING AND RESPIRATORY MEDICINE: UPDATES AND APPLICATIONS

Assemblies on Respiratory Structure and Function; Respiratory Cell and Molecular Biology

2:15 p.m. - 4:15 p.m. MARRIOTT MARQUIS SAN DIEGO MARINA

Pacific Ballroom 18-19 (North Tower, First Floor)

Target Audience

Basic, translational and clinical researchers and trainees interested in emerging approaches for lung in vitro pathophysiological modeling and regeneration

Objectives

At the conclusion of this session, the participant will be able to:

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- get familiarized and understand the latest engineered lung platforms in the field;
- understand the diversity and type of transnational applications that such systems offer;
- apply these methodologies in their research with the vision to address unmet needs in respiratory medicine.

This session will focus on cellular and tissue engineering approaches in the lungs. It will explore a variety of approaches including lung organoid/spheroid, microfluidic organ engineering methods like lung-on-a-chip, as well matrix based recellularized tissues. This symposium will also discuss application of such approaches for disease modeling, drug testing, biomarker discovery and regenerative medicine.

Chairing: Z. Borok, MD, Los Angeles, CA
B.R. Stripp, PhD, Los Angeles, CA

- 2:15 Lung Organoids: Current Uses and Future Promises**
C. Barkauskas, MD, Durham, NC
- 2:39 Modeling Human Airway Diseases in Three Dimension: Introducing Small Airway-on-a-Chip and Breathing-Smoking Lung-on-a-Chip Microfluidic Technologies**
K. Hajjipouran Benam, PhD, Aurora, CO
- 3:03 Engineering Native Biomaterials for Pulmonary Regenerative Therapeutics**
X. Ren, PhD, Pittsburgh, PA
- 3:27 In Vivo Tissue-Engineering of Human Airways**
E. Martinod, MD, Paris, France
- 3:51 Regenerative Pharmacology in COPD**
R. Gosens, PhD, Groningen, Netherlands

BASIC • CLINICAL • TRANSLATIONAL
SCIENTIFIC SYMPOSIUM
CME Credits Available:2

B92 AJRCCM IN 2018

ATS Publications

2:15 p.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER
Ballroom 20 D (Upper Level)

Target Audience

Researchers, including basic researchers and clinicians. It will be also an important session for early career researchers to attend

Objectives

At the conclusion of this session, the participant will be able to:

- describe key issues in publication ethics and how they relate to 2018 papers submitted and published;
- highlight key papers published in past 12 months in AJRCCM and discuss some of the main statistical issues in submitted papers;
- understand some of the developments in publishing, including enhanced on-line material, checks for images and plagiarism and videos.

This session will explore some of the the issues in publication ethics and explain what the requirements are from authors with respect to good publication practices. There will also be also a description of how the journal tackles issues of plagiarism, duplicate and overlapping in publications and image manipulation.

The session will also describe some of the statistical issues in papers and how these should be addressed. During the session, an example of the videos produced for AJRCCM papers will be shown. The session will focus on some of the key papers in airways disease, critical care, neonatology and interstitial lung disease that have been recently published.

Chairing: J.A. Wedzicha, MD, London, United Kingdom
L.J. Brochard, MD, Toronto, Canada

- 2:15 Issues in Publication Ethics for Authors**
J.A. Wedzicha, MD, London, United Kingdom
- 2:35 Detecting Plagiarism and Image Manipulation**
E. Gumpert, ., New York, NY
- 2:50 Statistical Pointers for AJRCCM Authors**
G.C. Donaldson, PhD, BSc(Hons), London, United Kingdom
- 3:10 Highlights in Critical Care**
L.J. Brochard, MD, Toronto, Canada
- 3:25 Highlights in Asthma**
F.D. Martinez, MD, Tucson, AZ
- 3:40 Highlights in COPD and Interstitial Lung Disease**
F.J. Martinez, MD, MS, New York, NY
- 3:55 Neonatology and Paediatric Critical Care in AJRCCM**
S.H. Abman, MD, Aurora, CO

This session and the International Conference are supported by educational grants from AstraZeneca LP, GlaxoSmithKline, Sanofi Genzyme and Regeneron Pharmaceuticals, Sunovion Pharmaceuticals Inc. All CME sessions have been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) and are free of the control of commercial interests.

MINI SYMPOSIUM

B93 WHERE THERE IS SMOKE, THERE IS LUNG DISEASE

2:15 p.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER
Room 16 A-B (Mezzanine Level)

Chairing: B.D. Medoff, MD, Boston, MA
C.M. Freeman, PhD, Ann Arbor, MI

Oral Presentations

- 2:15 Genomic Signatures of Type 2 and IL-17 Inflammation Are Associated with Markers of Disease Severity Across Smokers with Preserved Spirometry and Mild/Moderate Airway Obstruction in Spiromics/S.** Garudadri, M.K. Han, E.A. Hoffman, R.G. Barr, E.R. Bleecker, R.P. Bowler, A.P. Comellas, C.B. Cooper, D. Couper, G.J. Criner, M.T. Dransfield, N.N. Hansel, R.E. Kanner, R. Paine, J.A. Krishnan, S.P. Peters, P. Woodruff, S. Christenson, Cleveland, OH, p.A4158
- 2:30 Blood DNA Methylation Prospectively Predicts Mortality in Former and Current Smokers in the COPD Gene Study/J.** Morrow, W. Qiu, B.J. Make, E.A. Regan, M.K. Han, C.P. Hersh, R. Tal-Singer, J. Quackenbush, A.M.K. Choi, E.K. Silverman, D.L. DeMeo, Boston, MA, p.A4159

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- 2:45 Murine Model of Prenatal Cigarette Smoke Exposure Leads to Increased Cytotoxicity of Lung Natural Killer Cells in Offspring/J. Arroyo Morales, H. Alikaj, V.R. Stolberg, M.R. Kady, J.L. Curtis, C.M. Freeman, Ann Arbor, MI, p.A4160**
- 3:00 The Alveolar Macrophage Gene Expression Signature of Cannabis Exposure/S. Sharma, C. Liu, J. Gaydos, A.M. McNally, K. Kechris, E.L. Burnham, Aurora, CO, p.A4161**
- 3:15 Paternal Tobacco Smoke Correlated to Offspring Asthma and Prenatal Epigenetic Programming/K.D. Yang, C.-C. Wu, C.-P. Chen, Taipei, Taiwan, p.A4162**
- 3:30 Smoking-Induced Constitutive Suppression of Histamine N-Methyltransferase Is Accompanied with Infiltration of Mast Cells in Human Small Airway Epithelium/G. Wang, F. Ogawa, S.L. O'Beirne, J. Salit, Y. Strulovici-Barel, R.J. Kaner, R.G. Crystal, New York, NY, p.A4163**
- 3:45 Smoking Inhibits HIV-Induced CD8+ T Cell Alveolitis by Blocking Macrophage CXCL10 Production/J.L. Cho, B. Corleis, S.J. Gates, A. Lisanti, P. Kohli, A.K. Dickey, A. Schiff, R.S. Harris, D. Kwon, B.D. Medoff, Boston, MA, p.A4164**
- 4:00 Effect of Woodsmoke Particle Exposure on Antiviral Host Defense in Human Volunteers: Nasal Inflammatory Mediators and Influence of Gender on Responses/T.L. Noah, M. Rebuli, A.M. Speen, C. Robinette, I. Jaspers, Chapel Hill, NC, p.A4165**

MINI SYMPOSIUM

B94 ADDRESSING PALLIATIVE AND PSYCHOSOCIAL NEEDS AMONG PATIENTS AT END OF LIFE, THEIR FAMILIES, AND THE CHRONICALLY CRITICALLY ILL

2:15 p.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER

Room 14 A-B (Mezzanine Level)

Chairing: E.K. Kross, MD, Seattle, WA
J. Hart, MD, MS, Philadelphia, PA
A.E. Turnbull, DVM, MPH, PhD, Baltimore, MD

Oral Presentations

- 2:15 Referrals for Palliative Care and Hospice Are Underutilized in Patients with Advanced Non-Small Cell Lung Cancer/J.R. Rayburn, C.L. Wilshire, C.R. Gilbert, B.E. Louie, R.W. Aye, A.S. Farivar, E. Vallieres, J.A. Gorden, Seattle, WA, p.A4166**
- 2:30 Incidence of Suicide and Potential Benefits of Palliative Care Among Patients with Lung Cancer/D. Sullivan, C.W. Forsberg, S.E. Golden, L. Ganzini, S.K. Dobscha, K.C. Vranas, C.G. Slatore, Portland, OR, p.A4167**
- 2:45 End of Life Management and Palliative Care Use by Patients with Advanced Chronic Obstructive Pulmonary Disease (COPD)/A.S. Gershon, L.C. Maclagan, J. Luo, M.B. Stanbrook, J. Bourbeau, T.M. To, T. Kendzerska, J. Etches, S.D. Aaron, Toronto, Canada, p.A4168**
- 3:00 POLST-Discordant Intensive Care Near the End of Life/R.Y.-F. Lee, S. Sathitranacheewin, R.A. Engelberg, J.R. Curtis, E.K. Kross, Seattle, WA, p.A4169**

- 3:15 Family Care Rituals in the Intensive Care Unit to Reduce Symptoms of Posttraumatic Stress Disorder in Family Members- A Multicenter Before-and-After Intervention Trial/T. Amass, G. Villa, R. McFadden, T. Walsh, A. Palmisciano, M.-E. Yeow, R. De Gaudio, S. OMahony, J.R. Curtis, M.M. Levy, Providence, RI, p.A4170**
- 3:30 Risk Factors for Post-Traumatic Stress Disorder in Family Caregivers for the Chronically Critically Ill/B. Wendlandt, J.E. Nelson, C.E. Cox, S. Choudhury, L. Hanson, M. Danis, S.S. Carson, Chapel Hill, NC, p.A4171**
- 3:45 Improving Chronically, Critically Ill Patients' Post-Acute Healthcare Experiences and Long-Term Outcomes/D. Hengesbach, J. Prister, C. Anderson, Hinsdale, IL, p.A4172**
- 4:00 Prevalence, Risk-Factors, and Outcomes of Financial Stress in Survivors of Critical Illness/N. Khandelwal, C.L. Hough, L. Downey, R.A. Engelberg, S.S. Carson, D.B. White, J.M. Kahn, D.M. Jones, M.D. Key, W. Reagan, L.S. Porter, J.R. Curtis, C.E. Cox, Seattle, WA, p.A4173**

MINI SYMPOSIUM

B95 CRITICAL CARE: BIOMARKERS IN ARDS AND SEPSIS FROM GENES TO MICROBIOME

2:15 p.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Room 29 A-D (Upper Level)

Chairing: E.L. Burnham, MD, Denver, CO
N. Meyer, MD, MS, Philadelphia, PA
A. Leligdowicz, MD, DPhil, Toronto, Canada

Oral Presentations

- 2:15 Peripheral Blood Leukocyte Telomere Length Predicts Survival in Critically Ill Patients: An Observational Cohort Study/S. Liu, C. Wang, G. Green, C.S. Calfee, L.B. Ware, P.J. Wolters, San Francisco, CA, p.A4174**
- 2:30 PCSK9 Loss-of-Function (LOF) Genotype Is Associated with Decreased Readmission or Death in Sepsis Associated with Shock and/or Pulmonary Dysfunction/K. Roveran Genga, C. Lo, M. Cirstea, H. Kong, A.K.-K. Leung, T. Shimada, K.R. Walley, J.A. Russell, A. Linder, J.H. Boyd, Vancouver, Canada, p.A4175**
- 2:45 Cholesterylester Transfer Protein (CETP) Gain-of-Function (GOF) Genotype R468Q and Development of Sepsis-Associated Acute Kidney Injury (AKI)/K. Roveran Genga, M. Trinder, H. Kong, A.K.-K. Leung, T. Shimada, K.R. Walley, J.A. Russell, L. Brunham, J.H. Boyd, Vancouver, Canada, p.A4176**
- 3:00 Next-Generation Sequencing of the Respiratory Microbiome as a Diagnostic Tool of Severe Bacterial Pneumonia in Mechanically Ventilated Patients/G. Kitsios, A. Fitch, D.V. Manatakis, S. Rapport, K. Li, S. Qin, J. Huwe, P.V. Benos, B. Methe, A.M. Morris, B.J. McVerry, Pittsburgh, PA, p.A4177**

- 3:15** **Very Low Density Lipoprotein Receptor Sequesters LPS into Adipose Tissue During Sepsis**/T. Shimada, E. Topchiy, A.K.-K. Leung, H. Kong, K. Roveran Genga, J.H. Boyd, J.A. Russell, K.R. Walley, S. Oda, H. Hirasawa, Vancouver, Canada, p.A4178
- 3:30** **Evidence of Gut Translocation in Sepsis: Burden and Diversity of Bacterial DNA in Blood Predicts Organ Failure in Septic Patients**/M. Thau, N.R. Falkowski, W. Branton, J.G. Younger, M.A. Puskarich, A.E. Jones, K.A. Stringer, R.P. Dickson, Ann Arbor, MI, p.A4179
- 3:45** **Plasma Metabolic Profiling in ARDS Patients Is Associated with Sepsis Severity, Not Acute Lung Injury**/A. Rogers, T. Asuni, K. Contrepolis, H. Zhuo, K.N. Kangelaris, T.J. Deiss, T.X.Z. Liu, A.D. Gomez, M. Lippi, K. Liu, C.S. Calfee, M.A. Matthay, Stanford, CA, p.A4180
- 4:00** **Building a Parsimonious Model Using Biomarker and Clinical Data to Identify Subphenotypes in Acute Respiratory Distress Syndrome**/P. Sinha, K. Delucchi, C.S. Calfee, San Francisco, CA, p.A4181

- 3:00** **Whole Genome Sequencing in Moderate and Severe Chronic Obstructive Pulmonary Disease**/D. Prokopenko, P. Sakornsakolpat, H. Loehlein Fier, D. Qiao, C. Lange, T.H. Beaty, J.D. Crapo, E.K. Silverman, M.H. Cho, Boston, MA, p.A4185
- 3:15** **Gene-by-Smoking Interactions on Pulmonary Function for Both Rare and Common Variants in the Chromosome 15q25 Region**/S.M. Lutz, M.-L.N. McDonald, C. Lange, M.H. Cho, J.D. Crapo, E.K. Silverman, J.E. Hokanson, Aurora, CO, p.A4186
- 3:30** **Genomic and Transcriptomic Analysis of Pulmonary Function and Emphysema on CT Scan**/A. Manichaikul, J.N. Nguyen, S. Christenson, W. Tew, M. Neighbors, S. Garudadri, S. Nerella, E.A. Hoffman, C.R. Farber, M.H. Cho, W.K. O'Neal, P. Woodruff, L.V. Wain, J.I. Rotter, S. London, H.K. Im, S.S. Rich, R.G. Barr, Charlottesville, VA, p.A4187
- 3:45** **COPD-Associated Co-Methylation Signatures Recapitulate Co-Methylation Signatures Identified in In-Utero Smoke-Exposed Fetal Lung**/P. Kachroo, S.J. Leeder, C. Vyhldal, R. Gaedigk, J. Morrow, E.K. Silverman, S.T. Weiss, K.G. Tantisira, D.L. DeMeo, Boston, MA, p.A4188
- 4:00** **Unique Signatures for Maternal Smoking Exposure During Pregnancy**/S. Sikdar, B. Joubert, R. Joehanes, S. London, Research Triangle Park, NC, p.A4189

MINI SYMPOSIUM

B96 GENETICS, EPIGENETICS, AND SMOKING

2:15 p.m. - 4:15 p.m. **SAN DIEGO CONVENTION CENTER**
Room 15 A-B (Mezzanine Level)

Chairing: D.L. DeMeo, MD, Boston, MA
I.V. Yang, BS, PhD, Aurora, CO

Oral Presentations

- 2:15** **A Genome-Wide Association Study of 250,000 Subjects Identifies Novel Risk Loci for COPD**/D. Prokopenko, B.D. Hobbs, P. Sakornsakolpat, N. Reeve, B. Yu, H. Xu, J. Latourelle, J. Nguyen, N. Terzikhan, L. Lahousse, M. Arfan Ikram, K.H. Kim, J. Park, J.-J. Yim, D.K. Kim, P. Sliwinski, W. Timens, P.D. Pare, Y. Bosse, D.A. Meyers, E.R. Bleecker, Y. Tesfaigzi, S. Belinsky, B. Han, W.J. Kim, D.P. Strachan, G.G. Bruselle, D. Sparrow, D.L. DeMeo, P. Bakke, A. Gulsvik, J.M. Vonk, A. Manichaikul, S.S. Rich, R.G. Barr, N. Locantore, R. Tal-Singer, G.T. O'Connor, J. Dupuis, S. London, J.D. Crapo, E.K. Silverman, D. Lomas, I.P. Hall, M.D. Tobin, L.V. Wain, M. Boezen, M.H. Cho, Boston, MA, p.A4182
- 2:30** **Genome-Wide Association Study in 404,165 Individuals Identifies 139 Novel Signals of Association with Lung Function**/L.V. Wain, N. Shrine, A.L. Guyatt, V.E. Jackson, A.M. Erzurumluoglu, C. Batini, N. Reeve, M.H. Cho, B.D. Hobbs, D.P. Strachan, A.P. Morris, I.P. Hall, M.D. Tobin, Leicester, United Kingdom, p.A4183
- 2:45** **Comprehensive Gene Resequencing of SERPINA1 in SPIROMICS Reveals Novel Rare Loci for α 1-Antitrypsin Deficiency and Emphysema**/V.E. Ortega, G.A. Hawkins, X. Li, W.K. O'Neal, A. Manichaikul, R.G. Barr, C.B. Cooper, D. Couper, J.L. Curtis, M.K. Han, N.N. Hansel, R.E. Kanner, F.J. Martinez, R. Paine, J.M. Wells, P. Woodruff, E.A. Hoffman, S.P. Peters, D.A. Meyers, E.R. Bleecker, Win, p.A4184

MINI SYMPOSIUM

B97 IMPORTANCE OF LONGITUDINAL COHORT STUDIES IN PEDIATRICS

2:15 p.m. - 4:15 p.m. **SAN DIEGO CONVENTION CENTER**
Room 6 C/F (Upper Level)

Chairing: T.W. Ferkol, MD, St. Louis, MO
P. Subbarao, MD, Toronto, Canada

Featured Speaker

- 2:15** **A Path to Precision: The Cystic Fibrosis Model**/T.W. Ferkol, MD, St. Louis, MO

Oral Presentations

- 2:30** **Primary Ciliary Dyskinesia: Longitudinal Study of Lung Disease Progression by Ultrastructural Defect and Genotype**/S.D. Davis, M. Rosenfeld, H.-S. Lee, T.W. Ferkol, S.D. Sagel, S.D. Dell, C.E. Milla, M.B.A. Zariwala, M.R. Knowles, M.W. Leigh, Indianapolis, IN, p.A4190
- 2:45** **The National Registry for Childhood Interstitial and Diffuse Lung Diseases: An Initial Report from the ChILD Research Network**/L.R. Young, R.J. Nevel, A.M.H. Casey, M.P. Fishman, S. Welsh, D. Liptzin, G. Kurland, J.S. Hagood, S.B. Goldfarb, E.K. Fiorino, J.B. Taylor, C.K. Conrad, C.S. Kuo, G.H. Deutsch, D. Craven, A. De, R.R. Deterding, Nashville, TN, p.A4191
- 3:00** **Improved Forced Expiratory Flows in Infants of Pregnant Smokers Randomized to Daily Vitamin C Versus Placebo**/C.T. McEvoy, K. Milner, D.G. Schilling, A. Scherman, C. Tiller, B. Vuylsteke, K. Jackson, D. Haas, C. Bunten, J. Harris, A. Vu, R. Schuff, D. Kraemer, J. Mitchell, J. Metz, L. Shorey-Kendrick, E.R. Spindel, R.S. Tepper, C.D. Morris, Portland, OR, p.A4192

MONDAY AFTERNOON

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- 3:15 Children with Severe Asthma Are Likely to Become Less Severe During Adolescence: Preliminary Results of the SARP III Pediatric Longitudinal Study/R. Gupta, S. Margevicius, M.D. DeBoer, R.E. Myers, L.B. Bacharier, N.P. Ly, W. Phipatanakul, J.C. Celedon, A.M. Fitzpatrick, E. Israel, B.D. Levy, M. Castro, J.V. Fahy, W.G. Teague, S.C. Erzurum, W.C. Moore, E.R. Bleecker, N.N. Jarjour, S.E. Wenzel, D.T. , p.A7806**
- 3:30 Dynamic Relationship Between Asthma and Obesity in the CHS: Insights from Joint Transition Models/Y. Zhang, Z. Chen, K. Berhane, R. Urman, V.L. Chatzi, C. Breton, F.D. Gilliland, Salt Lake City, UT, p.A4193**
- 3:45 Maternal Antibiotic Use During Pregnancy Is Associated with Childhood Asthma: Results from a Large Population Study/K.N. Turi, T. Gebretsadik, T. Ding, A. Abreo, C.A. Stone, E. Mitchel, T.V. Hartert, P. Wu, Nashville, TN, p.A4194**
- 4:00 The Mediating Role of the Upper Airway and Gut Microbiomes in the Association of Common Early-life Exposures with Childhood Wheezing Illnesses/C. Rosas-Salazar, Z. Tang, M.H. Shilts, T. Gebretsadik, M.L. Moore, R.S. Peebles, S.R. Das, T.V. Hartert, Nashville, TN, p.A4195**

MINI SYMPOSIUM

B98 VASCULAR BASIS OF SEVERE LUNG DISEASE

**2:15 p.m. - 4:15 p.m. MARRIOTT MARQUIS SAN DIEGO MARINA
Pacific Ballroom 22 (North Tower, First Floor)**

Chairing: K. Suresh, MD, Baltimore, MD
K.A. Serban, MD, Denver, CO
S.K. Ahlfeld, MD, Cincinnati, OH

Featured Speaker

2:15 Inflammation and the Pulmonary Circulation/M. Rabinovitch, MD, Stanford, CA

Oral Presentations

- 2:30 SHIP-1, a Target of miR-155, Regulates Endothelial Cell Response in Lung Fibrosis/H. Tang, Z. Chen, X. Ye, X. Ye, F. Zhang, F. Zhang, J. Mao, C. Fang, W.G. Kerr, T. Zheng, Z. Zhu, New Haven, CT, p.A4196**
- 2:45 Endothelial Specific S1PR1 Deletion Exacerbates Bleomycin-Induced Vascular Permeability and Pulmonary Fibrosis/R.S. Knipe, C.K. Probst, J.J. Spinney, A. Franklin, B.S. Shea, B.D. Medoff, A.M. Tager, Boston, MA, p.A4197**
- 3:00 Pivotal Role of Capillary Endothelial Cells on Lung Regeneration in Murine Emphysema Model/S. Hisata, S.M. Cloonan, B. Palikuqi, B. Kunar, B.-S. Ding, S. Rafii, A.M.K. Choi, Shimotuke-shi, Japan, p.A4198**
- 3:15 Cortactin Heterozygous Mice with Sickle Cell Disease are Protected Against Hemin-Induced Acute Lung Injury/N.M. Jones, J. Sysol, S. Singla, H. Wang, S.M. Dudek, R.F. Machado, Indianapolis, IN, p.A4199**

- 3:30 Endothelial Autophagy Is Necessary for Tumor Angiogenesis and Tumor Growth/C.D. Ochoa, G. Fu, R.-F. Wu, C. Liao, L.S. Terada, Dallas, TX, p.A4200**
- 3:45 Alpha-Enolase Inhibition Reverses Experimental Pulmonary Hypertension Via the AMPK-Akt-GSK3 β Pathway/J. Dai, Q. Zhou, J. Chen, M.L. Rexius-Hall, J. Rehman, G. Zhou, Chicago, IL, p.A4201**

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

B101 NEW DEVELOPMENTS IN PLEURAL DISEASE DIAGNOSIS AND TREATMENT

2:15 p.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER

Room 28 C-E (Upper Level)

Abstract Summaries 2:15-2:45
Viewing/Discussion 2:45-3:15

Chairing: C. Argento, MD, Chicago, IL
J. Akulian, MD, MPH, Chapel Hill, NC
F.J.F. Herth, MD, Heidelberg, Germany

- 501 Pleural Manometry Does Not Reduce Procedural Discomfort During Large Volume Therapeutic Thoracentesis: A Multicenter Randomized Trial/R.J. Lentz, A.D. Lerner, J.K. Pannu, C. Merrick, L.J. Roller, C. Walston, S. Valenti, T. Goddard, H. Chen, J.T. Huggins, O.B. Rickman, L.B. Yarmus, I. Psallidas, N.M. Rahman, F. Maldonado, Nashville, TN, p.A4202**
- 502 Safety of Thoracentesis and Small Bore Chest Drain Placement in Patients on Clopidogrel: A Systematic Review/A. Shujaat, B. Salguero Porres, New York, NY, p.A4203**
- 503 Thoracocentesis Under Clopidogrel Is Not Associated with Excessive Bleeding Events/S. Perl, M. Bondarenko, N. Natif, I. Shpirer, B. Fox, Beer Yaakov, Israel, p.A4204**
- 504 The Use of Untunneled Indwelling Pleural Catheters for Non-Malignant Pleural Effusions in the Outpatient/J.M.A. Lopez, A. Miotto, P.A.A. Honda, D.C.A. Dias, J.H. Rivaben, R.H. Roja, T.B. Hasegawa, M.C. Braz, M. Botter, Sao Paulo, Brazil, p.A4205**
- 505 Comparison of Safety and Efficacy of Open Gravity Pleural Drain Vs Close Needle Pleural Aspiration/N.K. Mishra, J.K. Mishra, G.N. Srivastava, D.K. Shah, B.K. Rajak, A. Chokhani, P. Gupta, N.A. Latheef, A.K. Maurya, R. Meena, A. Patel, A. Tiwari, D.P. Yadav, M. Meena, T. Anbarasan, B.P. Verma, K. Shivkumar, D. Sharma, M. Sharma, Varanasi, India, p.A4206**
- 506 Unilateral Thoracentesis Via Manual Drainage Vs Vacuum Bottle Suction: A Randomized Trial/A.S. Ray, M. Senitko, T.E. Murphy, K.L.B. Araujo, Z. Dabre, M.A. Pisani, E.M. DeBiasi, K.T. Bramley, J.T. Puchalski, New Haven, CT, p.A4207**
- 507 The Use of Indwelling Tunneled Pleural Catheters for Refractory Hepatic Hydrothorax: A Multicenter Study/S. Shojaee, N. Rahman, K. Haas, R. Kern, F. Maldonado, J.J. Mullon, M. Alnijoumi, C.R. Lamb, J. Akulian, H.J. Lee, A. Majid, M. Khalid, T. Sanchez, W. Shepherd, P.M. Lee, L. Kang, A.C. Chen, Richmond, VA, p.A4208**

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- 508 **Measurement of Pleural Pressure to Symptoms Developing During Thoracentesis and Remaining of Pleural Effusion/A.H. Alraiyes, K. Teerapuncharoen, D. Khemasuwan, North Chicago, IL, p.A4209**
- 509 **Efficacy of Intrapleural Alteplase and DNase Therapy for Symptomatic Non-Draining Indwelling Pleural Catheters in Malignant Pleural Effusions in a Rural Community Pleural Service/A. Guhan, S. Dissanayaka, H. Rahim, N. Morgan, Ayr, United Kingdom, p.A4210**
- 510 **Pleural Fibrinolytics in Empyema- Could a Shorter Course Lead to Equivalent Outcomes?/C. Harris, H. Collins, J. Herre, S.J. Marciniak, M. Knolle, Cambridge, United Kingdom, p.A4211**
- 511 **Efficacy and Safety of Intrapleural TPA Instillations in Patients with Loculated Pleural Effusions and Nonfunctioning or Infected Tunneled Catheters/G. Thommi, J. Shehan, B. Gale, P.G. Meyers, Omaha, NE, p.A4212**
- 512 **Evaluation of Thoracoscopic Double Loop Ligation of Bullae for Spontaneous Pneumothorax/R. Takahashi, Kanagawa, Japan, p.A4213**
- 513 **Digital Air Flow Measurement Early in Treatment Course for Spontaneous Pneumothorax Predicting Surgical Referral/R. Hallifax, M. Laskawiec, N.M. Rahman, Oxford, United Kingdom, p.A4214**
- 514 **Thoracic Empyema - 20 Year Trends in Management and Outcomes in Ontario, Canada/R. Nayak, M.D.D. Lougheed, S. Brogly, K. Lajkosz, D. Petsikas, Kingston, Canada, p.A4215**
- 515 **Predicting Short-Term Prognosis of Primary Spontaneous Pneumothorax Using Chest Radiographs/K. Yoshimine, K. Tobino, Iizuka City, Japan, p.A4216**
- 516 **Incidence of Asymptomatic Pneumothorax in University Students/S. Takanashi, R. Uruma, Hirosaki, Japan, p.A4217**
- 517 **Readmissions for Malignant Pleural Effusions/T.S. Yang, D.W. Hsia, D.W. Chang, Torrance, CA, p.A4218**
- 518 **Trends in Hospitalizations of Chronic Myeloid Leukemia Patients with Pleural Effusion: An 11-Year Nationwide Analysis/D. Pan, A. Singh, A. Thakkar, S.K. Pondaiah, J. Stoever, J.P. Mathew, New York, NY, p.A4219**
- 519 **Handheld Ultrasound Compared with Standard Ultrasound in the Evaluation of Pleural Effusions/S. Newhouse, J. D'Costa, B. Dougherty, J.J. Bowden, C. Chong, P. Cafarella, A. Rose, Bedford Park, Australia, p.A4220**
- 520 **Diagnostic Value of Presepsin, C-Reactive Protein, and Procalcitonin in Pleural Effusion/N. Watanabe, T. Ishii, N. Kita, N. Kanaji, H. Nakamura, N. Nanki, Y. Ueda, Y. Tojo, N. Kadowaki, S. Bandoh, Kita-gun, Japan, p.A4221**
- 521 **Pleural Fluid Glucose Testing Using a Finger Stick Glucometer; a Novel Bedside Test with Potential for a Prompt Diagnosis and Decision/T. Abdo, H. Bhardwaj, J.I. Keddissi, H.A. Youness, Oklahoma City, OK, p.A4222**
- 522 **Pleurodesis Following Tunneled Pleural Catheter Placement in Non-Malignant Pleural Effusions/J. Hirsh, J. Puchalski, K. Araujo, M.A. Pisani, New Haven, CT, p.A4223**

- 523 **Pleuroscopy with Parietal Pleural Biopsy Followed by Tunneled Pleural Catheter: An Effective Diagnostic and Therapeutic Approach for Recurrent Pleural Effusion/J. Chang, D. Teodoro, V. Murthy, S. Rafeq, J.L. Bessich, G.C. Michaud, New York, NY, p.A4224**
- 524 **Safety and Feasibility of Erector Spinae Plane (ESP) Block in Diagnostic and Therapeutic Pleuroscopy: A Pilot Study/J. Cardenas-Garcia, G.Z. Cheng, S. Adhikary, C.E. Hillenn, S. Rao, W.M. Bullock, M.M. Wahidi, Hershey, PA, p.A4225**
- 525 **Preoperative Trapped Lung Is Associated with Increased Mortality After Orthotopic Liver Transplantation/K. Melamed, D. Dai, N. Cuk, R. Follett, T.S. Wang, F. Kaldas, A.S. Shirali, J. Yanagawa, I. Barjaktarevic, Los Angeles, CA, p.A4226**

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

B102 CLINICAL TRIALS AND STUDIES IN COPD

2:15 p.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER
Room 30 C-E (Upper Level)

Abstract Summaries 2:15-2:45
Viewing/Discussion 2:45-3:15

Chairing: A. Anzueto, MD, San Antonio, TX

- 601 **RPL554, A First-In-Class Dual PDE3/4 Inhibitor, Causes Rapid Additional Bronchodilation When Dosed with Tiotropium in COPD Patients/K.B. Newman, D. Singh, London, United Kingdom, p.A4227**
- 602 **A Randomized, Double-Blind, Placebo Controlled, Multicenter Phase 2a Study to Assess Safety, Daily Respiratory Symptoms, Pharmacokinetics, and Biomarker Variations After Administration of Either YPL-001, or Placebo in Patients with Moderate to Severe Chro/G.J. Criner, M.T. Dransfield, S. Arora, T.J. Rogers, J.F. Pritchard, C. Engel, J. Batonga, F.F. Vickers, Y. Lee, J.S. Yoo, S.-H. Lew, F.A. Fakh, Philadelphia, PA, p.A4228**
- 603 **Pulsed Inhaled Nitric Oxide (NO) Improves Exercise Tolerance in Severe Chronic Obstructive Pulmonary Disease (COPD) Patients with Pulmonary Hypertension (PH)/B. Hajian, B. Shivalkar, J. Leemans, C. Van Holsbeke, W. Vos, J. De Backer, K. Sartoris, D. Quinn, A. Hufkins, P. Parizel, J. Cluckers, W. De Backer, Edegem, Belgium, p.A4229**
- 604 **Mepolizumab for Eosinophilic Chronic Obstructive Pulmonary Disease (COPD): A Meta-Analysis of METREX and METREO Patient-Reported Outcomes, Response to Therapy and Lung Function/K.R. Chapman, I.D. Pavord, P. Paggiaro, F.C. Sciruba, M. Bafadhel, E.S. Bradford, S.S. Harris, B. Mayer, D.B. Rubin, S.W. Yancey, Toronto, Canada, p.A4230**
- 605 **Long-Term Benefits of Pulmonary Rehabilitation Program in COPD Patients in a 2 Year Follow-Up Study/A.M. Yohannes, S. Dryden, N.A. Hanania, Azusa, CA, p.A4231**
- 606 **1-Year Mortality Outcome of Nocturnal Positive Pressure Noninvasive Ventilation and Oxygen Therapy Versus Conventional Long-Term Oxygen Therapy (LTOT) in Severe Stable Chronic Obstructive Pulmonary Disease (COPD) Patients. A Systematic Review and Meta-Ana/M. Azab, T.A. Al-Dawoodi, A. Shafi, Las Vegas, NV, p.A4232**

MONDAY AFTERNOON

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- 607 Aspirin Use Is Associated with Reduced Rate of COPD Exacerbations in the SPIROMICS Cohort: A Propensity Score Matched Analysis/A.** Fawzy, N. Putcha, C.P. Aaron, R.P. Bowler, A.P. Comellas, C.B. Cooper, M.T. Dransfield, M.K. Han, E.A. Hoffman, R.E. Kanner, J.A. Krishnan, W.W. Labaki, L.M. Paulin, S.P. Peters, R.A. Wise, R.G. Barr, N.N. Hansel, Baltimore, MD, p.A4233
- 608 Use of Vitamin K Antagonists Is Associated with Increased Mortality in Chronic Obstructive Pulmonary Disease/I.** Piscoer, G.A. Kalkman, H.W.H.A. Fleuren, W. Janssens, E.F.M. Wouters, F.M.E. Franssen, R. Janssen, Maastricht, Netherlands, p.A4234
- 609 Effect of Twice-Daily Acclidinium/Formoterol versus Monotherapy or Tiotropium on 24-Hour Bronchodilation and Symptom Control in Patients with COPD: Results from AMPLIFY/E.M.** Kerwin, S. Sethi, G.T. Ferguson, R. Mroz, H. Watz, R. Segarra, E. Molins, D. Jarreta, E. Garcia Gil, Medford, OR, p.A4235
- 610 Glycopyrrolate/Formoterol Fumarate Fixed-Dose Combination Delivered by Metered Dose Inhaler Improves Lung Function and Symptoms in Patients with COPD: Results from the PINNACLE-4 Study in Asia, Europe, and the USA/B.** Lipworth, D.J. Collier, Y. Gon, N. Zhong, K. Nishi, R. Chen, S. Arora, A. Maes, S. Siddiqui, C. Reisner, U.J. Martin, Dundee, Scotland, United Kingdom, p.A4236
- 611 Patient-Reported Outcomes of Long-Acting Muscarinic Antagonists (LAMA) or Long-Acting Beta₂-Agonists (LABA) Monotherapy Versus LAMA/LABA Fixed Dose Combination (FDC) in Adult Patients with Chronic Obstructive Pulmonary Disease (COPD) in the Real-World Set/E.** Wittbrodt, L. Millette, J. Tong, M. Carlyle, J. Kurlander, V. Walker, M. DePietro, Wilmington, DE, p.A4237
- 612 Comparative Efficacy of Once-Daily LAMA/LABAs in COPD Patients with High and Low Use of Rescue Medication/I.** Naya, B. Alcázar Navarrete, G.J. Feldman, A.R. Sousa, D.A. Lipson, C. Compton, Brentford, United Kingdom, p.A4238
- 613 Revenfenacin, a Once-Daily, Long-Acting Muscarinic Antagonist for Nebulized Therapy of Chronic Obstructive Pulmonary Disease (COPD): Results of a 52-Week Safety and Tolerability Phase 3 Trial in Participants with Moderate to Very Severe COPD/E.M.** Kerwin, J.F. Donohue, S. Sethi, B. Haumann, S. Pendyala, L. Dean, C.N. Barnes, E.J. Moran, G.D. Crater, Medford, OR, p.A4239
- 614 All-Cause Mortality in COPD Patients Treated with Acclidinium and Other Inhaled Bronchodilators/C.** Rebordosa, J. Castellsague, J. Aguado, S. Thomas, E. Plana, E. Garcia Gil, A. Lei, S. Perez-Gutthann, Barcelona, Spain, p.A4240
- 615 AMPLIFY: A Randomized, Phase III Study Evaluating the Efficacy and Safety of Acclidinium/Formoterol Versus Monotherapy in Patients with COPD/S.** Sethi, E.M. Kerwin, H. Watz, G.T. Ferguson, R. Mroz, R. Segarra, E. Molins, D. Jarreta, E. Garcia Gil, Buffalo, NY, p.A4241
- 616 Single Inhaler Extrafine Triple Therapy Improves Quality of Life in COPD Patients Compared to Indacaterol/Glycopyrronium: Post-Hoc Analysis of The TRIBUTE Study/M.** Scuri, D. Singh, L.M. Fabbri, I. Valente, A. Guasconi, S. Vezzoli, H. Prunier, G. Cohuet, A. Muraro, S. Petruzzelli, A. Papi, Parma, Italy, p.A4242
- 617 Efficacy of Tiotropium/Olodaterol on Lung Hyperinflation, Exercise Capacity, and Physical Activity in Japanese Patients with Chronic Obstructive Pulmonary Disease (VESUTO Study): A Randomized Crossover Trial/M.** Ichinose, Y. Minakata, T. Motegi, J. Ueki, Y. Gon, T. Seki, T. Anzai, S. Nakamura, K. Hirata, Sendai, Japan, p.A4243
- 618 Lung Deflation and Improvement of Cardiac End-Diastolic Volumes with Indacaterol/Glycopyrronium Reduce Dyspnea and Improve Health Status in Hyperinflated COPD Patients: The CLAIM Study/J.M.** Hohlfeld, J. Vogel-Claussen, H. Biller, D. Berliner, K. Berschneider, H.C. Tillmann, S. Hilll, J. Bauersachs, T. Welte, Hannover, Germany, p.A4244
- 619 A Composite Endpoint of Clinically Important Deterioration in Chronic Obstructive Pulmonary Disease and Its Association with Increased Mortality: A Post Hoc Analysis of the UPLIFT Study/M.K.** Han, D.M.G. Halpin, F.J. Martinez, M. Miravittles, D. Singh, A. de la Hoz, F. Voss, K.F. Rabe, Ann Arbor, MI, p.A4245
- 620 Alignment of COPD Medication Use Patterns with GOLD Guidelines: Analysis of the SPIROMICS Cohort/S.** Ghosh, W.H. Anderson, N. Putcha, M.K. Han, J.L. Curtis, G.J. Criner, M.T. Dransfield, R.G. Barr, J.A. Krishnan, S.C. Lazarus, C.B. Cooper, R. Paine, S.P. Peters, N.N. Hansel, F.J. Martinez, M.B. Drummond, S.P. Peters, Chapel Hill, NC, p.A4246
- 621 Prediction Models for the Treatment Response to Long-Acting Bronchodilators, Using Damaged Gene Scores and Clinical Characteristics/J.** Kang, Seoul, Korea, Republic of, p.A4247
- 622 Adherence to Different Types of Inhaled Treatment Using Self-Reporting Questionnaires TAI Questionnaire and MMAS-8 Scale: The LASSYC Study/M.** Montes de Oca, A. Casas, L. Ugalde Gamboa, A.M. Menezes, M.V. Lopez, L. Ramirez, A. Ramirez-Venegas, L. Mendoza, A. Lopez, M. Miravittles, Caracas, Venezuela, p.A4248
- 623 Measure Maximum Forced Inspiratory Flow (FIFmax) to Predict PIFR-Resistance Value in Ambulatory Patients with COPD/L.** Tung, A.G. Duarte, W. Zhang, J. Mills, J. Martinez, G. Sharma, Galveston, TX, p.A4249
- 624 Peak Inspiratory Flow Rate Monitoring and Inhaler Selection in a COPD Population/E.** Backer, Lebanon, NH, p.A4250
- 625 Peak Inspiratory Flow and Spirometry Measures in COPD Patients - The POROS Study/D.B.** Price, S. Yang, C. Cabrera, A. Papaioannou, S. Loukides, S.Z. Bosnic-Anticevich, S. Wan Yau Ming, A. Hardjojo, P.M. Dorinsky, Singapore, Singapore, p.A4251

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

B103 ILD: MANAGEMENT

2:15 p.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Room 6 D (Upper Level)

Abstract Summaries

2:15-2:45

Viewing/Discussion

2:45-3:15

- Chairing:** K. Flaherty, MD, Ann Arbor, MI
M. Porteous, MD, Philadelphia, PA
J. Behr, MD, Munich, Germany
- 201 Safety of Combined Pirfenidone and Nintedanib in Subgroups of Patients with Idiopathic Pulmonary Fibrosis (IPF)/K. Flaherty, C.D. Fell, J.T. Huggins, H. Nunes, R. Sussman, C. Valenzuela, U. Petzinger, J.L. Stauffer, F. Gilberg, M. Bengus, M. Wijsenbeek, Ann Arbor, MI, p.A4252**
- 202 Medication Persistence Rates and Factors of Anti-Fibrotic Agents for Idiopathic Pulmonary Fibrosis: A Real-World Observational Study/K. Oishi, T. Hirano, K. Hamada, S. Uehara, R. Suetake, Y. Yamaji, M. Asami, N. Edakuni, T. Matsumoto, M. Yano, K. Matsunaga, Ube, Japan, p.A4253**
- 203 Saint George's Respiratory Questionnaire (SGRQ) Results in the PRAISE Trial in Idiopathic Pulmonary Fibrosis (IPF)/E. Gorina, J. Swigris, T. Sekayan, S. Porter, M. Zhong, P. Yu, E. Kouchakji, San Francisco, CA, p.A4254**
- 204 Lung Function Response and Changes of Lung Cysts to Rapamycin for Lymphangiomyomatosis: Long-Term Follow-Up Observational Study/C. Kim, K.-H. Do, S.M. Lee, N. Kim, Ansan-si, Korea, Republic of, p.A4255**
- 205 Impact of Antacid Therapy on Transplant Free Survival of Patients with Idiopathic Pulmonary Fibrosis/T. Umeda, B. Webber, R. Tomic, R. Brown, K. Rudser, H. Kim, D.M. Perlman, Minneapolis, MN, p.A4256**
- 206 Safety, Tolerability and Efficacy of Nintedanib Switched from Pirfenidone in Patients with Idiopathic Pulmonary Fibrosis/S. Ikeda, A. Sekine, T. Baba, T. Katano, G. Matama, N. Aiko, K. Isomoto, R. Otoshi, E. Tabata, R. Shintani, S. Sadoyama, H. Yamakawa, T. Niwa, H. Nakagawa, T. Oda, R. Okuda, H. Kitamura, S. Komatsu, E. Hagiwara, T. Ogura, Yokohama, Japan, p.A4257**
- 207 Pattern of Utilization for Antifibrotic Therapy in Idiopathic Pulmonary Fibrosis/K. Sedarati, J.A. Gordon, W.B. Graham, S. Sridhar, N.B. Rawal, K. Mohajer, N. Knowles, K. Wei, R. Patino, Los Angeles, CA, p.A4258**
- 208 Gender and BMI Predict Antifibrotic Tolerance in IPF/N.A. Weir, M. Poreddy, A. Scully, S.D. Nathan, A.W. Brown, K. Ahmad, C. King, O.A. Shlobin, S. Aryal, F.S. Nunes, Falls Church, VA, p.A4259**
- 209 The Effect of Inhaled Granulocyte-Macrophage Colony Stimulating Factor (GM-CSF) for Patients with Mild-to-Moderate Autoimmune Pulmonary Alveolar Proteinosis (APAP) in China/X. Tian, X. Guo, L. Chen, X. Li, S. Meng, Y. Zhao, Y. Xiao, K. Xu, Beijing, China, p.A4260**
- 210 Anti-Fibrotic Therapy and Patient Reported Outcomes in Idiopathic Pulmonary Fibrosis/S. Kay, E.S. White, J.S.V. Sheth, C. Flaherty, C. Getty, C. Holtze, B. Wang, M. Salisbury, E. Belloli, K.R. Flaherty, S. Murray, M. Xia, Ann Arbor, MI, p.A4261**
- 211 Real World Experience of Pirfenidone and Nintedanib for the Treatment of Idiopathic Pulmonary Fibrosis/S.A. Mulholland, K. Al Jbour, H. Steer, M. Gutsche, N. Foley, R. Srivastava, C. Sharp, H.I. Adamali, S. Barratt, Bristol, United Kingdom, p.A4262**
- 212 Effects of Supplemental Oxygen Therapy in Patients with Pulmonary Fibrosis/B. Graney, S.E. Baird, T. Churney, K. Fier, M. Korn, M. McCormick, T.M. Vierzba, F.S. Wamboldt, J.J. Swigris, Aurora, CO, p.A4263**
- 213 Understanding the Informational Needs of Idiopathic Pulmonary Fibrosis (IPF) Patients and Their Caregivers: "You Get Diagnosed, and You Ask this Question Right Away, What Does this Mean?"/D. Ramadurai, S. Corder, T. Churney, B. Graney, A. Harshman, S. Meadows, J.J. Swigris, Aurora, CO, p.A4264**
- 214 Outcomes of Antifibrotic Treatment in Idiopathic Pulmonary Fibrosis (IPF) Patients with Circulating Autoantibodies/A. Smith, G. Ding, J. Kropski, W. Mason, L.H. Lancaster, Nashville, TN, p.A4265**
- 215 Effect of Nintedanib on Exercise Capacity in Patients with Idiopathic Pulmonary Fibrosis (IPF): Results from a Phase IIIb Trial/L.H. Lancaster, C.S. Conoscenti, J. Ilowite, M. Trampisch, N. Mogulkoc, L. Homik, M. Kaye, Nashville, TN, p.A4266**
- 216 Use of Steroids Prior to Hospitalization in Interstitial Lung Disease Patients Admitted with Pneumonia/C. Zhang, H. Iftikhar, M.S. Niederman, G. Nair, Royal Oak, MI, p.A4267**
- 217 Automatic Oxygen Titration Improves Exercise Tolerance in Patients with Idiopathic Lung Fibrosis/C. Dupin, O. Malservet, F.D. Diego, M.C. Dombret, E. Verkaeren, B. Crestani, C. Taille, Paris, France, p.A4268**
- 218 The Impact of Carrying Supplemental Oxygen on Physiologic and Patient-Centered Outcomes in Pulmonary Fibrosis/B. Graney, D. Ramadurai, T. Churney, M. Riordan, J.J. Swigris, Aurora, CO, p.A4269**
- 219 Educational Needs in Idiopathic Pulmonary Fibrosis for Healthcare Providers, Patients, and Caregivers/D. Ramadurai, S. Corder, T. Churney, B. Graney, A. Harshman, S. Meadows, J.J. Swigris, Aurora, CO, p.A4270**
- 220 Longitudinal Changes in Quality of Life in Patients with Idiopathic Pulmonary Fibrosis Treated with Pirfenidone in the PROOF Registry/W. Wuyts, C. Dahlqvist, H. Slabbynck, M. Schlessler, N. Gusbin, C. Compere, S. Maddens, K.-U. Kirchgassler, K. Bartley, B. Bondue, Leuven, Belgium, p.A4271**
- 221 An Analysis of the Effectiveness of the Palliative Care-Psychology-ILD Multidisciplinary Meeting at BILD Service/M. Morales, T. Speirs, K. Al Jbour, H. Lamb, S.A. Mulholland, A. Edwards, R. Gunary, P. Meek, N. Jordan, C. Sharp, S. Barratt, C. Kendall, H.I. Adamali, Bristol, United Kingdom, p.A4272**
- 222 Current Treatment of Patients with Non-IPF Progressive Fibrosing Interstitial Lung Disease/M. Kreuter, A. Olson, A. Fischer, E. Bendstrup, B. Mounir, L. Zouad-Lejour, C.D. Wells, M. Quaresma, M. Wijsenbeek, Heidelberg, Germany, p.A4273**
- 223 Treatment Recommendations for Sarcoidosis: Results of a Delphi Consensus Study/R.P. Baughman, F.F. Rahaghi, L.A. Saketkoo, M.B. Scholand, N. Sweiss, Cincinnati, OH, p.A4274**
- 224 Physician Characteristics Associated with Treatment Initiation Patterns in Idiopathic Pulmonary Fibrosis: Results from an Online, Self-Administered Survey/P. LaCamera, S.L. Limb, T. Haselkorn, E. Morgenthien, J.L. Stauffer, M.L. Wencel, Boston, MA, p.A4275**

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

B104 CRITICAL CARE: BIG DATA IN HEALTH CARE - PREDICTIVE ANALYTICS, CLINICAL DECISION SUPPORT, AND RAPID RESPONSE

2:15 p.m. - 4:15 p.m. **SAN DIEGO CONVENTION CENTER**

Room 31 A-C (Upper Level)

Abstract Summaries 2:15-2:45

Viewing/Discussion 2:45-3:15

Chairing: M.M. Churpek, MD, MPH, Chicago, IL
I. Barbash, MD, Pittsburgh, PA
T.S. Valley, MD, MSc, Ann Arbor, MI

- 701 Comparing Retrospective Methods of Identifying Patients with Infection/J. Dumanian, N. Dussault, S. Bhavani, K. Carey, L.R.R. Venable, D. Edelson, M. Churpek, Chicago, IL, p.A4276**
- 702 Using Machine Learning to Identify Infection Upon Presentation to the Hospital/N. Dussault, J. Dumanian, S. Bhavani, K. Carey, D. Edelson, L.R. Venable, M.M. Churpek, Chicago, IL, p.A4277**
- 703 Derivation and Validation of a Computable Phenotype for Sepsis and Septic Shock Diagnosis in the Intensive Care Unit/P. Dhungana, L.P. Serafim, A. Lopez Ruiz, D. Bruns, T.J. Weister, R. Kashyap, Rochester, MN, p.A4278**
- 704 Predicting Severe Sepsis from the Electronic Health Record Using Machine Learning/S. Gallant, P. Culliton, M. Levinson, A. Ehresman, J. Wherry, J. Steingrub, Cambridge, MA, p.A4279**
- 705 Timing Differences in Diagnosis Between SOFA, qSOFA, and SIRS Criteria in a Large ICU Cohort/J. Willoughby, P.G. Belvitch, Chicago, IL, p.A4280**
- 706 Comparison of Existing Sepsis Criteria with a Novel Machine Learning Algorithm to Predict Acute Respiratory Failure or Death in Admitted Patients with Infection/D. Barnaby, W.N. Southern, P. Mirhaji, M.N. Gong, Bronx, NY, p.A4281**
- 707 Predicting Pediatric Severe Sepsis with Machine Learning Techniques/C. Barton, T. Desautels, J. Hoffman, Q. Mao, M. Jay, J. Calvert, R. Das, Hayward, CA, p.A4282**
- 708 Biosignal Based Pattern Predicts Mortality in Critically Ill Children/S.Y. Kim, S.-H. Lee, S.H. Choi, I.S. Sol, Y.H. Kim, H.-J. Kang, S.E. Lee, K.W. Kim, M.H. Sohn, K.-E. Kim, Seoul, Korea, Republic of, p.A4283**
- 709 Is this ARDS? Identifying Patients Where Physicians Are Likely to Disagree/M.W. Sjoding, I. Co, T.P. Hofer, T.J. Iwashyna, Ann Arbor, MI, p.A4284**
- 710 Developing an EHR Algorithm to Identify Patients with Severe ARDS and Visualizing Treatment Trajectories/A. Agrawal, M. Stewart, D. Clement, M. Narasimhan, M. Zhang, G. Qiu, Y. Senathirajah, N. Hajizadeh, New Hyde Park, NY, p.A4285**
- 711 Prospective Validation of a Machine-Learning Algorithm for Early Warning for Acute Respiratory Failure or Mortality/C. Dahn, Y. Wu, P. Mirhaji, M.N. Gong, Bronx, NY, p.A4286**

- 712 Predicting Hospital Length of Stay After Intensive Care Unit Discharge with Machine Learning/J.C. Rojas, L.R. Venable, J.P. Fahrenbach, K.A. Carey, D.P. Edelson, M.D. Howell, M.M. Churpek, Chicago, IL, p.A4287**
- 713 Retrospective Cohort of a Machine-Learning Algorithm for Early Warning for Acute Respiratory Failure or Mortality as it Relates to Hospital Readmission/C. Dahn, Y. Wu, P. Mirhaji, M.N. Gong, Bronx, NY, p.A4288**
- 714 Validation of an Electronic Sequential Organ Failure Assessment Score in Intensive Care Unit Patients/L.E. Huerta, M.W. Semler, Nashville, TN, p.A4289**
- 715 Regenerating Evidence from Landmark Trials in ARDS Using Structural Causal Models on Electronic Health Record/M. Bikak, M. Adibuzzaman, Y. Jung, Y. Yih, E. Bareinboim, Indianapolis, IN, p.A4290**
- 716 Utilizing an Electronic Health Record Systemic to Explore Genetic Risk Factors for Acute Kidney Injury in Sepsis/V.E. Kerchberger, E. Siew, Y. Xu, L. Chen, A. Vincz, L. Bastarache, S.M. Johnson, N. Zheng, B. McNeil, J.A. Bastarache, L.B. Ware, Nashville, TN, p.A4291**
- 717 Clinician Responses to a Novel Early Alert System Targeting Deteriorating Patients/C.G. Murphy, P. Mirhaji, M.N. Gong, Bronx, NY, p.A4292**
- 718 Use of an Interprofessional ICU Rounding Simulation to Understand EHR Use and Clinical Decision Making/J.A. Gold, J. Bordley, K.K. Sakata, G. Scholl, A. McDougal, J. Bierman, V. Mohan, Portland, OR, p.A4293**
- 719 Impact of an Automated Electronic Acute Respiratory Distress Syndrome Screening Tool on Lung Protective Ventilation/P. Yang, P. Formanek, S. Zelisko, S.B. Patel, M. Afshar, Maywood, IL, p.A4294**
- 720 Minimal Impact of Implemented Early Warning Score and Best Practice Alert for Patient Deterioration/A. Bedoya, M. Clement, M. Phelan, R.C. Steorts, C. O'Brien, B.A. Goldstein, Durham, NC, p.A4295**
- 721 Prevalence, Risk Factors, and Clinical Consequences of Recurrent Activation of aRapid Response Team: A Multicenter Observational Study/K. Kyeremanteng, S. Fernando, P. Reardon, K. Murphy, P. Tanuseputro, D. Heyland, Ottawa, Canada, p.A4296**
- 722 Outcomes and Predictors of Delayed Versus Immediate Intensive Care Unit Transfer Following Rapid Response Team Activation for Suspected Sepsis/A. Pearce, J.R. Beitler, R.E. Sell, San Diego, CA, p.A4297**
- 723 Impact of Night-Time Rapid Response Team Activation on Outcomes of Hospitalized Patients with Acute Deterioration/K. Kyeremanteng, S. Fernando, P. Reardon, S.M. Bagshaw, D. Scales, K. Murphy, J. Shen, P. Tanuseputro, D. Heyland, Ottawa, Canada, p.A4298**
- 724 Predicting Patient Mortality: Using Machine Learning to Identify At-Risk Patients and Improve Outcomes/C. Barton, H. Mohamadlou, A. Lynn-Palevsky, G. Fletcher, L. Shieh, P. Stark, U. Chettipally, D.W. Shimabukuro, M. Feldman, R. Das, Hayward, CA, p.A4299**

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

POSTER DISCUSSION SESSION

B105 MYCOBACTERIAL HOST DEFENSE AND PATHOGENESIS

2:15 p.m. - 4:15 p.m. MARRIOTT MARQUIS SAN DIEGO MARINA

Grand Ballroom 11-13 (North Tower, Lobby Level)

Poster Viewing 2:15-3:00

Discussion 3:00-4:15

Chairing: J.M. Keane, MD, Dublin, Ireland
L. Bermudez, MD, Corvallis, OR
M. Divangahi, PhD, Montreal, Canada

- 801 The Breadth and Spectrum of Antigen Recognition After BCG Vaccination and M. Tuberculosis (Mtb) Infection/S. Singh, M. Bolz, A.R. Cornelius, J.D. Ernst, New York, NY, p.A4300**
- 802 Indoleamine 2,3 Dioxygenase Activity Aggravates the Course and Pathology of Murine Tuberculosis/L. Guo, K.F. Van Der Sluijs, G.J.W. van der Windt, L.M. Kager, B. Baban, C.M. van der Loos, T. Dekker, S. Florquin, C.W. Wieland, B.J. Van den Eynde, A. Mellor, T. van der Poll, P.J. Sterk, R. Lutter, Amsterdam, Netherlands, p.A4301**
- 803 The Roles of Programmed Death-1, Regulatory T Cells and Myeloid Derived Suppressor Cells in Patients with Mycobacterium Avium Complex- or Mycobacterium Abscessus-Lung Disease/C.-C. Shu, Taipei, Taiwan, p.A4302**
- 804 Resident CD4+ T Cells in the M. Tuberculosis-Induced BAL Cell Gene Expression Signature of Individuals with Latent TB Infection/R.F. Silver, J.R. Jarvela, M. Moyer, S. Weigel, P. Leahy, J.-E. Dazard, Cleveland, OH, p.A4303**
- 805 Cigarette Smoke Impairs Macrophage Defense Against Mycobacterium Intracellulare/E.D. Chan, A. Musheyev, A. Bai, Z. Feng, B. Kosmider, J.R. Honda, X. Bai, Denver, CO, p.A4304**
- 806 MR1 Is Capable of Being Loaded Outside of the Endoplasmic Reticulum and Can Be Reused for Antigen Presentation/E. Karamooz, M. Harriff, G.A. Narayanan, A. Worley, D.M. Lewinsohn, Portland, OR, p.A4305**
- 807 TLR1 Polymorphisms Associated with Susceptibility to Latent Tuberculosis Infection and Active Tuberculosis/M.M. Zhang, J.-Q. He, Chengdu, China, p.A4306**
- 808 Association of TLR8 and TLR9 Polymorphism with Tuberculosis Among Chinese Han Population/M. Wang, J.Q. He, Chengdu, China, p.A4307**
- 809 Alpha-1-Antitrypsin Enhances Macrophage Control of Mycobacterium Intracellulare Infection Despite Inducing Macrophage Apoptosis/E.D. Chan, A. Bai, J.R. Honda, A. Musheyev, Z.F. Feng, G. Huit, R. Harbeck, R.A. Sandhaus, X. Bai, Denver, CO, p.A4308**
- 810 Mycobacterial Species Differ in Intracellular Survival, Cytokine mRNA Expression, NF-Kappa B Activation, and Macrophage Apoptosis/E.D. Chan, X. Bai, A. Musheyev, A. Bai, L. Li, J.R. Honda, Z. Feng, Denver, CO, p.A4309**

- 811 NFE2L2 Polymorphisms Associated with Susceptibility to Tuberculosis in Chinese Tibetan Population/J. He, Chengdu, China, p.A4310**
- 812 Does the Form of Tobacco Product Used by Smokers Influence Pulmonary Tuberculosis Mycobacterial Burden and Disease Severity?/A.T. Chua, R.E. Eisenberg, W.B. Mowrey, S. Sahu, N. Joseph, G. Roy, J.J. Ellner, M. Muthuraj, J. Pleskunas, S. Amsaveni, S. Sarkar, N.S. Hochberg, D. Reddy, Bronx, NY, p.A4311**
- 813 Influence of Type of Tobacco Product on Chest X-Ray Findings in Pulmonary Tuberculosis Patients in India/N. Schenk, S. Sahu, G. Roy, J.J. Ellner, C.R. Horsburgh, V. Kumar, S. Amsaveni, J. Pleskunas, S. Sarkar, N. Hochberg, D. Reddy, Boston, MA, p.A4312**
- 814 Association Between Mannose-Binding Lectin (MBL) Polymorphisms and Serum MBL Levels with Pulmonary Tuberculosis/X. Tong, D. Wang, H. Fan, Chengdu, China, p.A4313**
- 815 Mitochondrial Cyclophilin-D Regulates T Cell-Mediated Disease Tolerance to Tuberculosis/N. Khan, F. Tzelepis, J. Blagih, J. Gillard, L. Mendonca, D.G. Roy, E.H. Ma, P. Joubert, R.G. Jones, M. Divangahi, Montreal, Canada, p.A4314**
- 816 Coronin-1: Possible Anti-TB Drug Target?/M. Kohli, V. Upadhyay, S. Sinha, Delhi, India, p.A4315**
- 817 The Effect of Metformin Versus Sulfonylurea on the Risk of Tuberculosis Disease in Patients with Type 2 Diabetes Mellitus: A Population-Based Cohort Study/W.-J. Su, S.-W. Pan, Y.-F. Yen, V.Y. Su, P.-H. Chuang, J.-Y. Feng, Taipei, Taiwan, p.A4316**
- 818 Advanced Glycation End Products (AGE) and Receptor for AGE (RAGE) in Patients with Active Tuberculosis/D. Rossato Silva, L.F. da Silva, E.C. Skupien, T.K. Lazzari, S.R. Holler, L.R. Zampieri, S.E. Coutinho, Porto Alegre, Brazil, p.A4317**
- 819 Immunological Influences of Hepsidin, A Major Iron Metabolism Regulatory Peptide, in Pulmonary Tuberculosis Without HIV Coinfection/K. Tashiro, M. Yamamoto, K. Murohashi, K. Shinada, M. Ikeda, K. Nakashima, R. Ushio, Y. Kimura, K. Nagai, Y. Kentaro, K. Watanabe, M. Shinoda, Y. Hara, T. Sato, M. Shinkai, T. Kaneko, Yokohama, Japan, p.A4318**
- 820 Bronchoscopic PPD Challenge in the Assessment of Parenchymal Lung CD4+ T Cells in Humans with Latent Tuberculosis Infection/R.F. Silver, S. Weigel, M. Moyer, J.R. Jarvela, Cleveland, OH, p.A4319**
- 821 The Microbiota of Non-Tuberculosis Mycobacterium Leads to a Distinct Inflammatory Profile/I. Sulaiman, B. Wu, B.D. Scaglione, J. Wang, A. Basavaraj, Y. Li, A.S. Scott, S. Chung, K. Bantis, J. Clemente, N. Shen, J.L. Bessich, S. Rafeq, G.C. Michaud, J.S. Donington, C. Naidoo, G. Theron, R. Condos, D. Kamelhar, D.J. Addrizzo-Harris, L.N. Segal, , p.A4320**
- 822 Whole Genome DNA Methylation Analysis of Active Pulmonary Tuberculosis Disease Identifies Novel Epigenetic Signatures/Y.-C. Chen, M.-C. Lin, C.-C. Wu, S.Y. Leung, W.-F. Fang, H.-C. Chang, Kaohsiung, Taiwan, p.A4321**
- 823 Rescuing Poly-Functional T Cells by Inhibiting PD-1 Promotes M. Tuberculosis Clearance and Disease Resolution/D. Mitra, D. Kamboj, Delhi, India, p.A7750**

824 **Efficacy of Anti-PD-1 in Immune Reconstitution and Adjunct Immunotherapy Against M. Tuberculosis**/D. Kamboj, D. Mitra, New Delhi, India, p.A7751

POSTER DISCUSSION SESSION

B106 PULMONARY REHABILITATION: OUTCOMES AND EXTRA-PULMONARY MANIFESTATIONS

2:15 p.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER

Room 11 A-B (Upper Level)

Poster Viewing 2:15-3:00

Discussion 3:00-4:15

Chairing: F. Maltais, MD, Quebec City, Canada
E. Hillegass, PT, PhD, Dahlonega, GA
R. Evans, MBChB, PhD, Leicester, United Kingdom

401 **The Effects of Pulmonary Rehabilitation on Blood Neutrophil Activation and Functional Subsets in COPD**/A. Jenkins, N.S. Holden, A.W. Jones, Lincoln, United Kingdom, p.A4322

402 **Effects of Pulmonary Rehabilitation on Sleep Quality in Patients with Chronic Obstructive Pulmonary Disease (COPD)**/M. Roberts, J.-G. Cho, J.R. Wheatley, Wentworthville, Australia, p.A4323

403 **Can Upright Partitioned Exercise, Propulsion of a 3-Wheeled Scooter, Alter Leg Muscle Activity and Shift the Relationship Between Breathing and Leg Heaviness in Patients With Chronic Obstructive Pulmonary Disease (COPD)**/T.E. Dolmage, J. Dubois-Webster, R.S. Goldstein, Toronto, Canada, p.A4324

404 **Whole-Body Aerobic Capacity Is Associated with Locomotor Muscle Oxidative Capacity Across a Wide Range of Function from COPD Patients to Young Healthy Controls**/A. Adami, D.T. Cannon, D.J. Kwan, R.A. Calmelat, A.C. Coelho, J. Porszasz, R. Casaburi, H.B. Rossiter, Kingston, RI, p.A4325

405 **Validation of Transcutaneous PCO₂ to Estimate Deadspace Ventilation (VD/VT) During Exercise in Patients with COPD**/A. Orogian, S.M. Corey, R. Calmelat, R.V. Cao, H.B. Rossiter, R. Casaburi, W.W. Stringer, J. Porszasz, Torrance, CA, p.A4326

406 **Dynamic Hyperinflation in Patients with Severe Asthma**/S. Majid, T.E. Dolmage, S. Hewitt, A. Murphy, S.J. Singh, P. Bradding, R. Green, R. Evans, Leicester, United Kingdom, p.A4327

407 **Measuring Neuromuscular Weakness and Functional Impairment in Post-Intensive Care Syndrome and Correlation with Patient Reported Quality of Life Scores**/D. Meza, B.K. Patel, K.S. Wolfe, A. Pohlman, J.B. Hall, J.P. Kress, Chicago, IL, p.A4328

408 **Responsiveness and Minimum Important Difference of Quadriceps Maximum Voluntary Contraction in Chronic Obstructive Pulmonary Disease**/S. Patel, C.M. Nolan, S.E. Jones, R. Barker, S.S.C. Kon, H.Y. Kwan, W.D.-C. Man, Harefield, United Kingdom, p.A4329

409 **Body Composition Abnormalities Are Associated with Clinical Characteristics and Physical Function in Patients with COPD**/F. Pitta, F.V.C. Machado, L.P. Schneider, J. Fonseca, L.F. Belo, C. Bonomo, L. Martinez, A.A. Morita, A. Rodrigues, K.C. Furlanetto, C.A. Camillo, V.S. Probst, F. Franssen, M.A. Spruit, N.A. Hernandez, Londrina, Brazil, p.A4330

410 **Cachexia and Response to Pulmonary Rehabilitation: A Propensity Matched Analysis**/H.Y. Kwan, M. Maddocks, C.M. Nolan, S.E. Jones, S. Patel, R. Barker, S.S.C. Kon, W. Man, Harefield, United Kingdom, p.A4331

411 **Responsiveness of the Short Physical Performance Battery to Pulmonary Rehabilitation in Patients with Chronic Respiratory Disease and Frailty**/S. Patel, C.M. Nolan, S.E. Jones, R.E. Barker, H.Y. Kwan, M. Maddocks, W.D.-C. Man, Harefield, United Kingdom, p.A4332

412 **Physical Frailty in Idiopathic Pulmonary Fibrosis**/C.M. Nolan, M. Maddocks, T.M. Maher, S. Patel, R.E. Barker, S.E. Jones, H.Y. Kwan, P.M. George, P. Cullinan, W.D.-C. Man, Harefield, United Kingdom, p.A4333

413 **Chronic Obstructive Pulmonary Disease Related with Increased Risk of Mild Cognitive Impairment**/A.M. Yohannes, M. Eakin, J.T. Holbrook, E.M. Sugar, R. Henderson, A.M. Baker, D.A. Kaminsky, A.L. Rea, L.G. Que, J.W. Ramsdell, L.B. Gerald, A. Casper, R.A. Wise, N.A. Hanania, Azusa, CA, p.A4334

414 **Rehabilitation Goals Towards the End of Life: What Matters to People with Advanced Respiratory Disease in Hospice Care?**/M. Maddocks, L. Fettes, W. Gao, I.J. Higginson, S. Ashford, London, United Kingdom, p.A4335

415 **The Minimum Important Difference in Pedometer Step Count in Patients with Chronic Obstructive Pulmonary Disease**/S.E. Jones, C.M. Nolan, S. Patel, R.E. Barker, M. Maddocks, H.Y. Kwan, S.S. Kon, W.D.-C. Man, Harefield, United Kingdom, p.A4336

416 **The Association Between Physical Activity and Vitamin D in (ex-) Smokers (with and Without Airflow Obstruction) and Never Smoking Controls**/H. Demeyer, M. Loeckx, F. Rodrigues, D. Vanderschueren, S. Pauwels, T. Troosters, W. Janssens, Leuven, Belgium, p.A4337

417 **Predictors of Noncompletion for Pulmonary Rehabilitation**/M. Tornatore, E. Stuart, L. Williams, R.L. ZuWallack, Farmington, CT, p.A4338

418 **Analysis of Pulmonary Rehabilitation (PR) Treatment Patterns and Utilization in Patients with Chronic Obstructive Pulmonary Disease (COPD) in the United States (US)**/M. Sikirica, L. Trantham, A.V. Joshi, D. Mohan, D. Neil, S.D. Candrilli, Collegeville, PA, p.A4339

419 **Weight Loss Improves Dyspnea on Exertion in Obese Men**/V. Bernhardt, D.M. Bhammar, R. Marines-Price, T.G. Babb, Commerce, TX, p.A4340

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

B107 MECHANISTIC ADVANCES IN PULMONARY FIBROSIS

2:15 p.m. - 4:15 p.m. **MARRIOTT MARQUIS SAN DIEGO MARINA**
Pacific Ballroom 15-17 (North Tower, First Floor)

Abstract Summaries 2:45-4:15

Viewing/Discussion 2:15-2:45

Chairing: C.T. Jourdan Le Saux, PhD, San Francisco, CA
C.M. Hogaboam, PhD, Los Angeles, CA
A. Lam, MD, Chicago, IL

- 901 H3K9 Methylation-Mediated Gene Repression Is Critical for Fibroblast Activation and Lung Fibrosis/G. Ligresti, D.L. Jones, N. Caporarello, J.A. Meridew, Q. Tan, K.M. Choi, A.J. Haak, D.J. Tschumperlin, Rochester, MN, p.A4341**
- 902 Single Cell Deconvolution of Fibroblast Heterogeneity in Mouse Pulmonary Fibrosis/T. Xie, Y. wang, N. Deng, J. Tang, Y. Geng, N. liu, J.C. Liang, P.W. Noble, D. Jiang, Los Angeles, CA, p.A4342**
- 903 Soluble Thy-1 Reverses Myofibroblast Differentiation and Progressive Pulmonary Fibrosis Via Its Integrin-Binding Domain/S.S. Wong, C. Tan, K. Ceonne, J. Min, C.R. Espinoza1, J.S. Hagood, La Jolla, CA, p.A4343**
- 904 Secreted Frizzled Related Protein 1 (SFRP1) as a Novel Regulator of the RhoA/Rock1 Pathway Is Expressed in a Distinct Subset of Fibroblasts in the Fibrotic Lung/A. Sengupta, B. Oehrle, M. Strunz, H.B. Schiller, O. Eickelberg, G. Burgstaller, Munich, Germany, p.A4344**
- 905 ILC2 Promotes Bleomycin-Induced Pulmonary Fibrosis Though IL-33/ST2 Signaling Pathway/Y. Zhao, T. Liu, F. Gonzalez De Los Santos, Z. Wu, S.H. Phan, Beijing, China, p.A4345**
- 906 OATD-01, a Dual Chitinase Inhibitor, Significantly Ameliorates Pulmonary Fibrosis in the Bleomycin-Induced Mouse Model/B. Dymek, P. Sklepkiwicz, M. Mlacki, A. Zagozdzon, R. Koralewski, M. Mazur, M. Paplinska-Goryca, P. Nejman-Gryz, M. Proboszcz, K. Gorska, M. Maskey-Warzechowska, N. Przysucha, R. Krenke, P. Dobrzanski, A. Golebiowski, K. Dzwonek, Warsaw, Poland, p.A4346**
- 907 Wilms' Tumor 1 Is a Positive Regulator of Fibroblast Activation in Severe Fibrotic Lung Disease/V. Sontake, R.K. Kasam, B.R. Geerreddy, D. Sinner, E.S. White, A. Jegga, S.K. Madala, Cincinnati, OH, p.A4347**
- 908 Multiplexed In Situ Hybridization Gives New Insight into the Pathogenesis of IPF/N. Juul, M. Nagendran, P. Harbury, T. Desai, Palo Alto, CA, p.A4348**
- 909 HDAC8 Inhibition Ameliorates Pulmonary Fibrosis/S. Saito, Y. Zhuang, J.A. Lasky, New Orleans, LA, p.A4349**
- 910 Monocyte-Derived Alveolar Macrophages Drive Asbestos-Induced Pulmonary Fibrosis/R. Jablonski, N. Joshi, P. Cheresch, R. Verma, E. Malsin, S.-J. Kim, C.-I. Chen, A. Mc Quattie-Pimentel, M. Chi, K. Williams, R. Piseaux Aillon, A. Misharin, G.S. Budinger, D.W. Kamp, Chicago, IL, p.A4350**
- 911 Cyb5R3 an External Mitochondrial NADH - Dependent Reductase Confers Protection Against Lung Fibrosis/M. Bueno, B.G. Mays, K. Fiedler, A. Nasser, S.J. Shulkowski, A. Potkonjak, J. Pogue, J.T. Carter, S. Hahn, A.C. Straub, A.L. Mora, Pittsburgh, PA, p.A4351**
- 912 Single-Cell RNA Sequencing of a Transbronchial Cyrobiopsy Identifies Unique Cell Populations in a Patient with Pulmonary Fibrosis/J.M. Walter, P.A. Reyfman, N. Joshi, K.R. Anekalla, A.C. Mc Quattie-Pimentel, S. Chiu, R. Fernandez, C.-I. Chen, Z. Ren, R. Verma, H. Abdala-Valencia, M. Chi, F.J. Gonzalez, S. Soberanes, S. Watanabe, K. Williams, C. Argento, C.T. Gillespie, H. Perlman, J.I. Sznajder, A. Bharat, S.M. Borade, G.S. Budinger, A. Misharin, Chicago, IL p.A4352**
- 913 Fibrocytes in Pulmonary Fibrosis: Double-Blind Placebo-Controlled Crossover Pilot Study of Sirolimus in Idiopathic Pulmonary Fibrosis/D.B. Axell-House, V. Yu, Z. Zhang, M.D. Burdick, R.M. Strieter, B. Mehrad, Charlottesville, VA, p.A4353**
- 914 Exploring the IPF Lung Through the Lens of Single-Cell RNA Sequencing: Identifying Aberrations in Cell Populations Both Big and Small/T. Adams, F. Ahangari, J.C. Schupp, S. Poli De Frias, S. Chu, G.R. Washko, B.A. Raby, A.M.K. Choi, I.O. Rosas, N. Kaminski, New Haven, CT, p.A4354**
- 915 Primary Cilia Are a Critical Component of the Fibroblast-AEC2 Self-Renewal Axis and Contribute to Protection from Pulmonary Fibrosis/C. Trempus, C. Barkauskas, S. Garantzotis, Research Triangle Park, NC, p.A4355**
- 916 Single Cell RNA-Seq Analysis of Idiopathic Pulmonary Fibrosis Reveals Alterations in Lung Cell Populations and in Selective Cell Expression of the Biomarkers MMP-7, CCL-18, and MUC1/E. Valenzi, T. Tabib, C. Morse, M. Rojas, A.L. Mora, R. Lafyatis, Pittsburgh, PA, p.A4356**
- 917 Alveolar and Myofibroblast Foci Specific Genome-Wide Gene Expression Profiling Reveal Common Regulatory Events Across Cell Types/M. Vukmirovic, A. Fabre, X. Yan, G. Deluliusi, T. Woolard, B. Hu, A. Mihaljinec, R. Homer, J.H. Maya, F. Ahangari, D. Smart, F. Conforti, B. Marshall, A. Alzetani, D.E. Davies, L. Richeldi, N. Kaminski, M. Jones, New Haven, CT, p.A4357**
- 918 PTP-Alpha Promotes TGF-Beta Profibrotic Responses Via Activation of Src/Y. Aschner, M.R. Nelson, M.I. Wong, H. Roybal, R. Holly, G.P. Downey, Aurora, CO, p.A4358**
- 919 Elk1 Gene Deletion Leads to Spontaneous Early Fibrotic Changes and Up-Regulation of Fibrotic Genes in the Ageing Lung/J. Cairns, A.N. Habgood, M.U. Castellanos, S.T. May, A.E. John, S. Alberti, A. Nordheim, G. Jenkins, A.L. Tatler, Nottingham, United Kingdom, p.A4359**
- 920 S100a4 Mediates Murine Pulmonary Fibrosis Through Matrix Stiffness-Dependent Recruitment of Contractile Proteins to Central Stress Fibers/B.D. Southern, L. Grove, R.G. Scheraga, J.F. Crish, M.A. Olman, Cleveland, OH, p.A4360**
- 921 In Vitro Modeling of Fibroblast-Derived Matrix Deposition, Stiffness, and Remodeling/A. Haak, D. Sicard, A.M. Diaz Espinosa, D.J. Tschumperlin, Rochester, MN, p.A4361**

- 922 Expression of an Interstitial Lung Disease Associated Surfactant Protein C (SFTPC) Mutation Produces Dynamic Alterations in the Alveolar Type 2 Epithelial Cell Transcriptome and a Fibrotic Lung Phenotype in Mice/M.F. Beers, J. Katzen, A. Venosa, Y. Tomer, S.-I. Nureki, M. Shumayatcher, S. Mulugeta, B.E. Himes, Philadelphia, PA, p.A4362**
- 923 Epithelial Specific ROCK1 Deletion Protects from Bleomycin-Induced Pulmonary Fibrosis/R.S. Knipe, J.J. Spinney, A. Franklin, C.K. Probst, A. Pardo Saganta, B.D. Medoff, J.K. Liao, A.M. Tager, Boston, MA, p.A4363**
- 924 Tyrosine Phosphatase SHP-1 Regulates Pulmonary Fibrosis Through Inhibition of β -Catenin Activation in Lung Epithelial Cells/Z. Chen, S.Y. Oh, P. Fang, Q. Li, F. Zhang, H. Tang, R. Homer, X. Zhang, N. Kaminski, T. Zheng, Z. Zhu, New Haven, CT, p.A4364**
- 925 ER-Stress Transcription Factor C/EBP Homologous Protein (CHOP) Causes Alveolar Epithelial Apoptosis and Provokes Fibrotic Responses/M. Korfei, O. Klymenko, M. Huehn, J. Wilhelm, R. Wasnick, C. Ruppert, I. Henneke, S. Hezel, K. Guenther, I. Shalashova, P. Mahavadi, C. Samakovlis, W. Seeger, A. Guenther, Giessen, Germany, p.A4365**
- 1005 Regional Vascular Transit Times in the Human Lung: A Potential New Noninvasive Biomarker for Detection and Evaluation of Pulmonary Arterial Hypertension/R.C. Sá, A.R. Elliott, Y.S. Moon, N.H. Kim, R.B. Buxton, G.K. Prisk, S.R. Hopkins, La Jolla, CA, p.A4370**
- 1006 Synchrotron-Based Phase Contrast Micro-CT; a Novel Tool for Investigating Disease Distribution in Pulmonary Arterial Hypertension in 3D Space/C. Westoo, C. Norvik, M. Bech, N. Peruzzi, R. Mokso, G. Lovric, H. Brunnstrom, K. Tran-Lundmark, Lund, Sweden, p.A4371**
- 1007 Right Ventricular-Pulmonary Arterial Uncoupling During Exercise in Pulmonary Hypertension/I. Singh, F.N. Rahaghi, M. Faria Urbina, R.K.F. Oliveira, T. Bachman, A.B. Waxman, D.M. Systrom, Boston, MA, p.A4372**
- 1008 Whole-Genome-Sequencing Reveals Involvement of Mitochondria-Dependent Apoptotic Genes in High Altitude Pulmonary Hypertension/T. Stobdan, A. Iranmehr, D. Zhou, O. Poulsen, K.P. Strohl, A.A. Aldashev, A. Telenti, E.H.M. Wong, E.F. Kirkness, J.C. Venter, V. Bafna, G.G. Haddad, La Jolla, CA, p.A4373**
- 1009 Interleukin 33-Dependent Pulmonary Vascular Remodeling in Mouse Pulmonary Hypertension Induced by Hypoxia/Sugen/A.K. Gutierrez Gonzalez, E. Alberch Camprubi, J. Platero Diago, M.M. Fuster, T.D. Bigby, E.C. Breen, San Diego, CA, p.A4374**
- 1010 EIPAH and PAH Subjects Have Different Regional Perfusion Patterns After Vasodilation/P. Kohli, T. Winkler, V.J. Kelly, E. Gladysheva, M. Kone, K. Hibbert, J.M. Rodriguez-Lopez, J.G. Venegas, R.N. Channick, R.S. Harris, Boston, MA, p.A4375**
- 1011 Paracoccidiodomycosis-Induced Pulmonary Hypertension/P. Leao, S. Setembro Batah, A.L. dos Santos, M.F. Hrycyk, J. Veronez Franco, D. de Souza Veronez, E. Nascimento, R. Martinez, E. Bagagli, A.I. de Padua, J. Baddini-Martinez, V.L. Capelozzi, A.T. Fabro, Ribeirao Preto, Brazil, p.A4376**
- 1012 Comparison of Whole Body Impedance Cardiography with Thermodilution and Modified Fick Measures of Cardiac Output, in Patients with Pulmonary Hypertension/B.W. Allwood, A.S. Witkin, J.M. Rodriguez-Lopez, R.N. Channick, Cape Town, South Africa, p.A4377**
- 1013 Pulmonary Hypertension Due to the Human Paracoccidiodomycosis/S. Batah, P. dos Santos Leao, J. Veronez, D. Veronez, A. Ignacio de Padua, J.A. Baddini Martinez, A. Todorovic Fabro, Ribeirao Preto, Brazil, p.A4378**
- 1014 ACE2 Activator Ameliorates Severe Pulmonary Hypertension in a Murine Model of VEGF Inhibitor and Left Pneumonectomy/I.-C. Chen, Y.-C. Liu, M.-S. Tan, Z.-K. Dai, Kaohsiung, Taiwan, p.A4379**
- 1015 A New Animal Model of Pulmonary Hypertension with Pre-Existing Pulmonary Fibrosis Closely Recapitulates Characteristic Hallmark of Vascular Remodeling in Patients/G. Ruffenach, M. Vaillancourt, S. Sarji, S. Moazeni, C. Eshraghi, N. Cao, C. Cunningham, L. Arayan, J. Hong, G. Fishbein, S. Umar, M. Eghbali, Los Angeles, CA, p.A4380**

POSTER DISCUSSION SESSION

B108 PULMONARY HYPERTENSION: THE LATEST FINDINGS

2:15 p.m. - 4:15 p.m. **MARRIOTT MARQUIS SAN DIEGO MARINA**

Pacific Ballroom 24-26 (North Tower, First Floor)

Poster Viewing 2:15-3:00
Discussion 3:00-4:15

- Chairing:** J.U. Raj, MD, Chicago, IL
 S. Dakshinamurti, MD, MS, Winnipeg, Canada
 K.R. Stenmark, MD, Aurora, CO
- 1001 An Implication of NOX4 in Pulmonary Vascular Remodeling Contributes to Pulmonary Hypertension in COPD/C. Jieda, X. Guo, Y. Fan, J. Chen, X. Liu, Yinchuan, China, p.A4366**
- 1002 Prognostic Value of T1 Mapping in Pulmonary Arterial Hypertension/L. Saunders, C.S. Johns, N. Stewart, D. Capener, D. Kiely, M. Graves, J.M. Wild, A. Swift, Sheffield, United Kingdom, p.A4367**
- 1003 Diastolic Septal Angle Is an Independent Predictor of Right Ventricular Insertion Point T1 in Pulmonary Hypertension/L. Saunders, C.S. Johns, N. Stewart, D. Capener, D. Kiely, M. Graves, J.M. Wild, A. Swift, Sheffield, United Kingdom, p.A4368**
- 1004 The Pulmonary Blood Flow Distribution Measured with MRI Shows Large Regions with Undetectable Flow in PAH Patients/G.K. Prisk, A.R. Elliott, B. Pazár, N.H. Kim, S.R. Hopkins, La Jolla, CA, p.A4369**

- 1016 Microbial Dysbiosis and Altered Gut Pathology in Monocrotaline-Induced Pulmonary Hypertension/R.K. Sharma, A. Oliviera, R. Goel, V. Aquino, G. Lobaton, S. Kim, E.M. Richards, M.J. Katovich, M.K. Raizada, Gainesville, FL, p.A4381**
- 1017 Free Heme-Mediated Endothelial Barrier Dysfunction Contributes to the Development of Pulmonary Hypertension/R. Rafikov, A. Srivastava, A.A. Desai, P. Langlais, E. Zemskov, L. Mandarino, O. Rafikova, Tucson, AZ, p.A4382**
- 1018 Implication of NUDT1 in Pulmonary Arterial Hypertension./A. Binabout, M.-C. Lampron, S. Breuils-Bonnet, S. Provencher, S. Bonnet, Quebec, Canada, p.A4383**
- 1019 PBI-4050 Therapy Selectively Improves Pulmonary Hypertension, Lung Remodeling and Right Ventricular Function in Heart Failure with Reduced Ejection Fraction/L. Gagnon, Q.T. Nguyen, B. Grouix, A. Laverdure, P. Laurin, M. Sirois, A. Calderone, J.C. Tardif, Y. Shi, J. Dupuis, Laval, Canada, p.A4384**
- 1020 PBI-4050, a Novel First-in-Class Antifibrotic Agent, Improves Pulmonary Hypertension and Fibrosis, as Well as Right Ventricular Hypertrophy and Fibrosis in Monocrotaline-Treated Rats/Q.T. Nguyen, J.C. Tardif, Y. Shi, E. Plante, E. Nguyen-Duong, B. Grouix, P. Laurin, L. Gagnon, J. Dupuis, Montreal, Canada, p.A4385**
- 1021 Impact of BMI on Cardiopulmonary Exercise Test Variables in Pulmonary Arterial Hypertension/A. Sharma, L. Orr, N.K. Burki, R.J. Foley, D. Datta, Farmington, CT, p.A4386**
- 1022 A New Score to Differentiate Idiopathic Pulmonary Arterial Hypertension from Pulmonary Hypertension Due to Heart Failure with Preserved Ejection Fraction/F. Dardi, N. Tanese, S. Caravita, A. Rinaldi, C. Dewachter, E. Gotti, T. Nguyen, E. Monti, A. Albini, M. Palazzini, A. Manes, J.-L.E. Vachieri, N. Galie, Bologna, Italy, p.A4387**
- 1023 PBI-4050, a Novel First-in-Class Agent, Improves Hypoxia/Sugen Induced Pulmonary Arterial Hypertension in Rats/Q.T. Nguyen, J.C. Tardif, Y. Shi, E. Plante, E. Nguyen-Duong, B. Grouix, P. Laurin, L. Gagnon, J. Dupuis, Montreal, Canada, p.A4388**
- 1024 Pulmonary Vascular Dysfunction Among Patients with Lung Disease and Normal Pulmonary and Systemic Pressures During Exercise/D.R. Ziehr, R.S. Harris, K. Bakken, C.G. White, P.P. Pappagianopoulos, G.D. Lewis, R. Malhotra, C.C. Hardin, Boston, MA, p.A4389**
- 1025 CD4+ T Cells Are Necessary and Sufficient for Th2 Inflammation in Schistosoma-PH/R. Kumar, C. Mickael, B. Kassa, L. Sanders, D. Koyanangi, D. Hernandez-Saavedra, R.M. Tuder, B.B. Graham, Denver, CO, p.A4390**

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

B109 TREATMENT OPTIONS IN SLEEP DISORDERED BREATHING: ADHERENCE AND HEALTH OUTCOMES

2:15 p.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Room 6 E (Upper Level)

Abstract Summaries 2:15-2:45
Viewing/Discussion 2:45-3:15

Chairing: B. Mokhlesi, MD, MS, Chicago, IL
 P.J. Strollo, MD, Pittsburgh, PA
 F. Barbe, MD, Lleida, Spain

- 301 Real World PAP Adherence: Results from a Big Data Approach in More than Two Million Patients/P.A. Cistulli, J.P. Armitstead, D. Liu, Y. Yan, J.-L. Pepin, H. Woehrle, C. Nunez, A. Benjafield, A. Malhotra, Sydney, Australia, p.A4391**
- 302 Positive Airway Pressure (PAP) Therapy Compliance on a Resupply Program: A Retrospective Analysis/A. Benjafield, L. Cooper, L. Willes, C. Kelly, C. Nunez, A. Malhotra, San Diego, CA, p.A4392**
- 303 Impact of Pressure Setting Changes During Positive Airway Pressure (PAP) Therapy on Treatment Adherence/H. Woehrle, P.A. Cistulli, D. Liu, Y. Yan, A. Benjafield, C. Nunez, J.-L. Pepin, A. Malhotra, J.P. Armitstead, Baden-Wuerttemberg, Germany, p.A4393**
- 304 Impact of CPAP Treatment on Depression in Patients with Coronary Artery Disease and Nonsleepy Obstructive Sleep Apnea: The RICCADSA Randomized Controlled Trial/Y. Peker, B. Balcan, E. Thunstrom, Istanbul, Turkey, p.A4394**
- 305 A Supervised Community Physical Activity Program as an Effective Treatment in Moderate Obstructive Sleep Apnea: A Randomized Controlled Trial/M. Berger, J.-C. Barthelemy, D. Hupin, P. Labeix, M. Donnat, H. Iddir, F. Costes, F. Roche, Saint-Etienne, France, p.A4395**
- 306 Excessive Sleepiness Treated with Solriamfetol in a Phase 3 Study of Participants with Obstructive Sleep Apnea: Stratification by Adherence or Nonadherence to Primary Obstructive Sleep Apnea Therapy/P. Schweitzer, R. Rosenberg, A. Malhotra, G. Zammit, M.H. Gotfried, D. Chen, J. Li, L. Carter, J. Black, R. Ryan, K.P. Strohl, Chesterfield, MO, p.A4396**
- 307 Effect of Supplemental Oxygen on the Return of Sleepiness During CPAP Withdrawal: Which Derivative of the Osler Maintenance of Wakefulness Test Should Be Used?/C.D. Turnbull, D. Sen, N. Petousi, J.R. Stradling, Oxford, United Kingdom, p.A4397**
- 308 The Efficacy of a Titrated Tongue Stabilizing Device on Obstructive Sleep Apnea/W. Alshhrani, K. Okuno, Y. Kohzuka, M. Hamoda, B.U. Peres, J.A. Fleetham, N. Ayas, R. Comey, F.R. Almeida, Vancouver, Canada, p.A4398**
- 309 Continuous Positive Airway Pressure (CPAP) Treatment Reduces Mortality at the Population Level/J. de Batlle, S. Bertran, C. Turino, J. Escarrabill, M. Sánchez-de-la-Torre, H. Woehrle, F. Barbé, Lleida, Spain, p.A4399**

- 310 Adaptive Servo Ventilation in Patients with Heart Failure and Sleep-Disordered Breathing: A Cumulative Meta-Analysis and Meta-Regression/S. Parthasarathy, C. Poongkunran, D. Combs, S. Shetty, R.S. Rosenberg, Tucson, AZ, p.A4400**
- 311 Can Tongue Deformation During Mandibular Advancement Help to Predict Mandibular Advancement Treatment Outcomes?/L. Juge, F. Knapman, P. Burke, E. Brown, J. Butler, D.J. Eckert, J. Ngiam, K. Sutherland, P.A. Cistulli, L.E. Bilston, Sydney, Australia, p.A4401**
- 312 Hypoglossal Nerve Stimulation for Obstructive Sleep Apnea-Results from the Adhere Registry/R. Mehra, K. Doghramji, R.J. Schwab, P.J. Strollo, K.P. Strohl, Cleveland, OH, p.A4402**
- 313 2 Year Follow-Up (FU) Results of ORCADES Study: Long-Term Mandibular Repositioning Device (MRD) Therapy in Patients Treated for Obstructive Sleep Apnea (OSA)/J.-C. Meurice, V. Attali, J.-M. Collet, M.-P. D'ortho, F. Goutorbe, J.-B. Kerbrat, H. Khemliche, D. Leger, L. Lerousseau, F. Martin, C. Monaca, P.-J. Monteyrol, L. Morin, F. Lavergne, E. Mullens, B. Pigearias, M.F. Vecchierini, Poitiers, France, p.A4403**
- 314 Primary Care Physicians Can Comprehensively Manage Sleep Apnea Patients: A Non-Inferiority Randomized Controlled Trial with Semi-Automatic Algorithm for OSA Management/M.A. Sánchez Quiroga, J. Corral, F.J. Gómez-de-Terreros, C. Carmona-Bernal, M.I. Asensio-Cruz, M. Cabello, M.A. Martínez-Martínez, C. Egea, E. Ordax, E. Ordax, F. Barbe, J.F. Masa, Plasencia, Spain, p.A4404**
- 315 Effect of Custom Made Vs Thermoplastic Heat-Molded Mandibular Advancement Devices (MADs) for Obstructive Sleep Apnea (OSA): A Randomized Non-Inferiority Trial/J.L. Pépin, N. Raymond, O. Lacaze, N. Aisenberg, J. Forcioli, E. Bonte, A. Bourdin, S. Launois, R. Tamisier, N. Molinari, Grenoble, France, p.A4405**
- 316 Is Autotitration as Effective as In-Laboratory Titration for Determining Optimal CPAP Pressure in Children with OSA?/M.A. Carno, L. Gersz, B. Seaman, K. Chalanick, H.V. Connolly, Rochester, NY, p.A4406**
- 101 Patient-Level Trajectories and Outcomes After Low-Dose CT Screening in the National Lung Screening Trial/J. Iaccarino, G.A. Silvestri, R.S. Wiener, Boston, MA, p.A4407**
- 102 Referrals for Lung Cancer Screening: Frontline Health Care Professional Participation Remains Low in the Community/K.M. Spiegel, C.L. Wilshire, C.R. Gilbert, R.K. Weerasinghe, J.A. Gorden, Seattle, WA, p.A4408**
- 103 Validation of a Natural Language Processing Algorithm to Extract Nodule Characteristics from Dictated Radiology Transcripts/M.K. Gould, A.L. Liu, C. Zheng, J.S. Lee, D.E. Altman, B. Huang, B. Creekmur, Pasadena, CA, p.A4409**
- 104 Simplified Criteria for Predicting Lung Cancer Screening Eligibility: A Potential Clinical and Research Tool/M. Triplette, L.M. Donovan, P.J. Rise, S.B. Zeliadt, D.K. Madtes, R.A. Mularski, P.K. Lindenauer, J.A. Krishnan, S.S. Carson, M.A. McBurnie, K.A. Crothers, D.H. Au, Seattle, WA, p.A4410**
- 105 The Relationship Between Lung Cancer Risk According to the Brock PLCO2012 Model and Prevalence or Presence of COPD in the NLST-ACRIN Sub-Study (N=10,054)/R.P. Young, R.J. Hopkins, F. Duan, C. Chiles, D. Aberle, G.D. Gamble, Auckland, New Zealand, p.A4411**
- 106 Early Diagnosis of Pulmonary Nodules: Relative Contributions by Clinical Factors, Imaging, and Proteomics to a Clinical Biomarker/S.C. Springmeyer, A. Porter, P. Kearney, P.J. Mazzone, Seattle, WA, p.A4412**
- 107 Pulmonary Nodule Biomarker Panoptic Study Results at 1 Year Supported by 2-Year Results/N.T. Tanner, A. Porter, S.C. Springmeyer, P. Kearney, G.A. Silvestri, Charleston, SC, p.A4413**
- 108 Improvement in Compliance with Lung Cancer Screening Implementation in an Urban Teaching Hospital Internal Medicine Clinic, Following Institution of an Education Initiative/C. Olazagasti, A. Rothman, D. Sampat, D. Chow, D. Steiger, Boston, MA, p.A4414**
- 109 Using Optical Coherence Tomography to Increase Tumor Biopsy Yield in Lung Nodules/L.P. Hariri, D.C. Adams, A.J. Miller, M.J. Suter, Boston, MA, p.A4415**
- 110 Histology and Staging of Lung Cancer in Veterans Who Underwent Baseline Low-Dose CT Screening: Data from the Providence VA Medical Center/M.D. Jankowich, E.J. Gartman, J. Baptiste, L. Nici, Providence, RI, p.A4416**
- 111 Quantitative Imaging of the Indeterminate Pulmonary Nodule and Surrounding Parenchyma for Lung Cancer Diagnosis Within the DECAMP Consortium/E. Billatos, E. Moses, F. Duan, H. Marques, C. Stevenson, M. Lorenzi, M.E. Lenburg, A. Spira, G.R. Washko, Boston, MA, p.A4417**
- 112 Outcomes of Lung Cancer Screening with Low-Dose Computed Tomography Among Individuals with Self-Reported Asbestos Exposure in the National Lung Screening Trial/C. Donatelli, A.M. May, M. Matta, F. Jacono, Cleveland, OH, p.A4418**
- 113 Quantification of Perinodular Emphysema for Risk Stratification for Malignancy Potential/W.H. Amundson, E.J. Swanson, B.J. Bell, C. Hatt, E. Loukusa, C.H. Wendt, Minneapolis, MN, p.A4419**

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

B110 LUNG CANCER SCREENING AND PULMONARY NODULES: REFINEMENTS AND REDEFINEMENTS

2:15 p.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Room 5 A-B (Upper Level)

Abstract Summaries 2:15-2:45
Viewing/Discussion 2:45-3:15

Chairing: J.A. Gorden, MD, Seattle, WA
 A.C. Melzer, MD, MS, Minneapolis, MN
 R.S. Wiener, MD, MPH, Boston, MA
 C.C. Thomson, MPH, MD, Cambridge, MA

- 114 **Role of PET-CT in the Diagnosis and Staging of Suspected Lung Cancer Limited to the Chest: The Importance of Following the Guidelines**/C.A. Aravena Leon, Y. Sarda, J.C. Cicensia, T.R. Gildea, M. Machuzak, S. Sethi, A.C. Mehta, M.L. Ribeiro Neto, H. Choi, B.P. Young, P.J. Mazzone, L.S.H. Lam, F.A. Almeida, Santiago, Chile, p.A4420
- 115 **PET Imaging of Indeterminate Pulmonary Nodules with 18F-FSPG**/C. Connolly, C. Shah, C. Myczkowski, A. Muterspaugh, H.C. Manning, R. Walker, P.P. Massion, Nashville, TN, p.A4421
- 116 **Genetic-Based Approach to Stratifying Risk of Lung Cancer Outperforms the Brock PLCO2012 Model - Optimization of CT Screening Outcomes in the NLST-ACRIN Sub-Study (N=10,054)**/R.P. Young, R.J. Hopkins, F. Duan, C. Chiles, D. Aberle, G.D. Gamble, Auckland, New Zealand, p.A4422
- 117 **Pulmonary Nodule Resection Characteristics: Experience from Lung Cancer Screening Programs in a Multi-State, Community-Based Health Care Network**/K.M. Spiegel, C.L. Wilshire, C.R. Gilbert, R.K. Weerasinghe, J.A. Gorden, Seattle, WA, p.A4423
- 118 **Screening High-Risk Patients with Low-Dose Chest CT (LDCT) Scans Over a Four-Year Period Provided a Relatively Safe and Effective Approach for Early Detection of Lung Cancers in a Veterans Health Administration Medical Center**/T.K. Rubenstein, J. Demp, B. Giang, B. Elicker, M. Arjomandi, N. Trivedi, J.K. Brown, San Francisco, CA, p.A4424
- 119 **Lung Nodule Risk Assessment Achievable Using Imaging Biomarkers from Tumor and Surrounding Structures**/J.M. Uthoff, J.S. Larson, F.A. De Stefano, J.C. Sieren, Iowa City, IA, p.A4425

4:30 p.m. - 7:00 p.m

ASSEMBLY MEMBERSHIP MEETINGS

The fourteen Assemblies are the primary groups of the American Thoracic Society. Each Assembly holds an annual Membership Meeting at the International Conference. All Assembly members and other interested individuals are invited to attend.

The Assembly Membership Meetings provide an update on the Assembly's activities via the Assembly's Leadership and provide Assembly members the chance to have input on future directions, information on how to get involved and networking opportunities. Voting results for the Assembly's future leaders will also be announced.

The Assemblies on Behavioral Science and Health Services Research and Pediatrics meetings are held on Sunday, May 20th.

ALLERGY, IMMUNOLOGY AND INFLAMMATION

MANCHESTER GRAND HYATT SAN DIEGO

Harbor Ballroom G-I (Second Level, Harbor Tower)

Chairing: Bethany B. Moore, PhD, Ann Arbor, MI

BEHAVIORAL SCIENCE AND HEALTH SERVICES RESEARCH

MANCHESTER GRAND HYATT SAN DIEGO

Seaport Ballroom F (Second Level, Seaport Tower)

Chairing: Christopher H. Goss, MD, MSc, Seattle, WA *This meeting will be held on Sunday, May 20th.*

CLINICAL PROBLEMS

MANCHESTER GRAND HYATT SAN DIEGO

Grand Hall B (Lobby Level)

Chairing: Sanjay Sethi, MD, Buffalo, NY

CRITICAL CARE

MANCHESTER GRAND HYATT SAN DIEGO

Grand Hall A (Lobby Level)

Chairing: John P. Kress, MD, Chicago, IL

ENVIRONMENTAL OCCUPATIONAL AND POPULATION HEALTH

MANCHESTER GRAND HYATT SAN DIEGO

Coronado Ballroom D-E (Fourth Level)

Chairing: Howard M. Kippen, MD, MPH, Piscataway, NJ

PULMONARY INFECTIONS AND TUBERCULOSIS

MANCHESTER GRAND HYATT SAN DIEGO

Seaport Ballroom E (Second Level, Seaport Tower)

Chairing: Kevin P. Fennelly, MD, MPH, Bethesda, MD

THORACIC ONCOLOGY

MANCHESTER GRAND HYATT SAN DIEGO

Seaport Ballroom D (Second Level, Seaport Tower)

Chairing: M. Patricia Rivera, MD, Chapel Hill, NC

NURSING

MANCHESTER GRAND HYATT SAN DIEGO

Coronado Ballroom A-B (Fourth Level)

Chairing: Eileen G. Collins, PhD, Chicago, IL

PEDIATRICS

MANCHESTER GRAND HYATT SAN DIEGO

Harbor Ballroom A-C (Second Level, Harbor Tower)

Chairing: Stephanie D. Davis, MD, Indianapolis, IN

This meeting will be held on Sunday, May 20th.

PULMONARY CIRCULATION

MANCHESTER GRAND HYATT SAN DIEGO

Grand Hall C (Lobby Level)

Chairing: Karen A. Fagan, MD, Mobile, AL

PULMONARY REHABILITATION

MANCHESTER GRAND HYATT SAN DIEGO

Seaport Ballroom A-B (Second Level, Seaport Tower)

Chairing: Richard Casaburi, MD, PhD, Torrance, CA

RESPIRATORY CELL AND MOLECULAR BIOLOGY

MANCHESTER GRAND HYATT SAN DIEGO

Harbor Ballroom A-C (Second Level, Harbor Tower)

Chairing: Irina Petrache, MD, Denver, CO

RESPIRATORY STRUCTURE AND FUNCTION

MANCHESTER GRAND HYATT SAN DIEGO

Grand Hall D (Lobby Level)

Chairing: Blanca Camoretti-Mercado, PhD, Tampa, FL

SLEEP AND RESPIRATORY NEUROBIOLOGY

MANCHESTER GRAND HYATT SAN DIEGO

Seaport Ballroom G-H (Second Level, Seaport Tower)

Chairing: Sanjay R. Patel, MD, Pittsburgh, PA

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

7:00 p.m. - 10:00 p.m.

ASSEMBLY RECEPTIONS

Assembly members and non-members, students and fellows are invited to join us for an evening of networking, great company, and camaraderie. This is a wonderful opportunity to introduce young members and trainees to Assembly leaders, to connect with old friends and to set up new interactions and collaborations.

R Pre-registration and an additional fee are required. Seating is limited.

The following Assemblies will hold a reception from 7:00 p.m. - 10:00 p.m. immediately following the Assembly Membership Meetings.

**Assembly on Allergy, Immunology and Inflammation
&**

**Assembly on Respiratory Cell and Molecular Biology
MANCHESTER GRAND HYATT SAN DIEGO**

Harbor Ballroom D- F (Second Level, Harbor Tower)

Joint Reception
Fellow - \$22.00
Member - \$42.00
Non-Member - \$52.00

Assembly on Sleep and Respiratory Neurobiology Reception

MANCHESTER GRAND HYATT SAN DIEGO

Seaport Ballroom F (Second Level, Seaport Tower)

Fellow - \$25.00
Member - \$65.00
Non-Member - \$75.00



ATS 2018
Where today's science
meets tomorrow's care™

International Conference

San Diego, CA

Tuesday Morning, May 22

CLINICAL

PEDIATRIC CLINICAL CORE CURRICULUM

CME Credits Available: 1
MOC Points Available: 1

PCC3 PEDIATRIC CLINICAL CORE CURRICULUM

7:00 a.m. - 8:00 a.m. **SAN DIEGO CONVENTION CENTER**
Room 1 A-B (Upper Level)

Target Audience

Pediatric pulmonary and critical care physicians who work in a clinical setting and are currently engaged in maintenance of certification

Objectives

At the conclusion of this session, the participant will be able to:

- remain current with medical knowledge relevant to their practice in pediatric pulmonology;
- evaluate their understanding of key skills and content areas in pediatric pulmonology as well as receive feedback on their comprehension of a result of a pre-test/post-test comparison;
- support clinicians who are engaged in maintenance of certification activities by providing updates on subjects included in recertification requirements.

The Pediatric Core Curriculum symposia promote lifelong learning and the enhancement of the clinical judgment and skills essential for practicing pediatrician. The symposia will address topics that have been identified by an ATS pediatric working group, which is comprised of members of the ATS Education Committee and the International Conference Committee, who have identified important areas within pediatric medicine (including severe asthma, ILD, BPD, pulmonary hypertension and pulmonary manifestations of pulmonary disease). Attendees will increase their medical knowledge as a result of attending this symposium, and this will be measured by a comparison of pre-test vs. post-test results on the corresponding maintenance of certification module. The ATS Pediatric Core Curriculum will focus on a 3-year content cycle of key medical content in the area of pediatric medicine.

Chairing: D.M. Boyer, MD, Boston, MA

7:00 Dysphagia and Aspiration (Diagnosis)
S.L. Peterson-Carmichael, MD, Indianapolis, IN

7:30 Multidisciplinary Approaches to the Care of Children with Aerodigestive Disorders
R.L. Rosen, MD, MPH, Boston, MA

SUNRISE SEMINARS

CME Credits Available: 1

R Registration Fee: \$50.00 (includes continental breakfast.)
Attendance is limited. Pre-registration is required.

7:00 a.m. - 8:00 a.m. MARRIOTT MARQUIS SAN DIEGO MARINA

- SS201 UNIFYING DIAGNOSIS: IMPLEMENTATION AND UTILITY OF A MULTIDISCIPLINARY APPROACH TO CTD-ILD**
L. Pourzand, MD, Los Angeles, CA
E. Volkmann, MD, MS, Los Angeles, CA
S. Weigt, MD, MS, Los Angeles, CA
J. Goldin, MD, PhD, Santa Monica, CA
Grand Ballroom 1 (North Tower, Lobby Level)
- SS202 THE IMMUNOLOGY OF SEPSIS FROM AN INTENSIVIST'S PERSPECTIVE**
P.A. Verhoef, PhD, MD, Chicago, IL
Grand Ballroom 2 (North Tower, Lobby Level)
- SS203 SHARED DECISION MAKING FOR PULMONOLOGISTS**
C.C. Dobler, MD, PhD, Rochester, MN
M.E. Wilson, MD, Rochester, MN
Grand Ballroom 3 (North Tower, Lobby Level)
- SS204 WHEN INHALERS AREN'T ENOUGH: TREATING AND PREVENTING COPD EXACERBATIONS**
M. Duloher, MD, Rochester, MN
Grand Ballroom 4 (North Tower, Lobby Level)
- SS205 RECOGNIZING AND MANAGING COMPLICATIONS AND COMORBIDITIES AFTER LUNG TRANSPLANTATION**
K.K. Patel, MD, Tampa, FL
V.G. Valentine, MD, Birmingham, AL
C. Caldeira, MD, Tampa, FL
Presidio 1 (North Tower, Lobby Level)
- SS206 COPD 2018: COMPREHENSIVE MANAGEMENT**
N.-C. Liang, MD, La Jolla, CA
D.R. Crouch, MD, MS, La Jolla, CA
K. Afshar, DO, Los Angeles, CA
Presidio 2 (North Tower, Lobby Level)
- SS207 ADVANCED THERAPIES FOR SARCOIDOSIS: RESEARCH AND CLINICAL APPLICATION**
R. Rissmiller, MD, Charleston, SC
W.E. James, MD, Charleston, SC
Temecula 1-2 (North Tower, First Floor)
- SS208 BRONCHOSCOPIC MANAGEMENT OF HEMOPTYSIS**
A.H. Alraiyes, MD, Zion, IL
F. Kheir, MSCR, MD, New Orleans, LA
Temecula 3-4 (North Tower, First Floor)
- SS209 DIFFUSE CYSTIC LUNG DISEASE: EVALUATION AND MANAGEMENT**
B. Collins, MD, Seattle, WA
Leucadia (South Tower, First Floor)

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- SS210 PULMONARY TOXICITY DUE TO CHECKPOINT IMMUNOTHERAPY**
K. Suresh, MD, Baltimore, MD
Point Loma (South Tower, First Floor)
- SS211 CHALLENGING CASES IN CRITICAL CARE ULTRASOUND**
D. Pradhan, MD, New York, NY
Solana (South Tower, First Floor)
- SS212 INNOVATIVE APPROACHES TO IMPROVING INTER-PROFESSIONAL RESUSCITATION CARE: NOVEL TECHNOLOGIES AND EDUCATIONAL STRATEGIES**
S.M. Kassutto, MD, Philadelphia, PA
Balboa (South Tower, Third Floor)
- SS213 AN UPDATE IN PULMONARY ALVEOLAR PROTEINOSIS**
A. Kumar, Michigan, Grand Rapids, MI
Mission Hills (South Tower, Third Floor)
- SS214 THE INS AND OUTS OF PLEURAL SPACE INFECTION**
O. Ibrahim, MD, Farmington, CT
Cardiff (South Tower, Third Floor)
- SS215 EVALUATION AND MANAGEMENT OF SEVERE ASTHMA IN CHILDREN: A PERSONALIZED APPROACH**
C. Rosas-Salazar, MD, MPH, Nashville, TN
Del Mar (South Tower, Third Floor)
- SS216 LIFE AFTER LYTICS: UPDATES ON POST PULMONARY EMBOLISM CARE**
S. Pugliese, MD, Philadelphia, PA
Miramar (South Tower, Third Floor)
- SS217 SMALL AIRWAY TESTS: READY FOR CLINICS?**
P. Robinson, MD, PhD, Westmead, Australia
Palomar (South Tower, Third Floor)
- SS218 NON-INVASIVE VENTILATION IN CHILDREN**
H.-L. Tan, MBBS, London, United Kingdom
La Costa (South Tower, Fourth Floor)
- SS219 MANAGING THE AIRWAYS COMPLICATIONS OF THORACIC MALIGNANCIES**
S. Shojaee, MD, CHDA, Richmond, VA
Catalina (South Tower, Fourth Floor)

BASIC • CLINICAL • TRANSLATIONAL**ATS KEYNOTE SERIES**

CME Credits Available: .75

The Keynote Series provides state of the art lectures on selected topics in an unopposed format showcasing timely and diverse topics which relate to pulmonary, critical care and sleep medicine.

*Two sessions are presented each morning during the conference.
Below are the topics for Tuesday, May 22nd*

K5 HYPOXEMIC AND ISCHEMIC PROTECTION IN DEEP-DIVING SEALS

8:15 a.m. - 9:00 a.m. SAN DIEGO CONVENTION CENTER
Room 6 B (Upper Level)

Speaker: Paul Ponganis, MD, La Jolla, CA

K6 BACTERIOPHAGE THERAPY FOR SERIOUS MULTIDRUG RESISTANT BACTERIAL INFECTIONS

8:15 a.m. - 9:00 a.m. SAN DIEGO CONVENTION CENTER
Room 6 C/F (Upper Level)

Speakers: Robert T. Schooley, MD, La Jolla, CA
Steffanie A. Strathdee, PhD, La Jolla, CA
Thomas Patterson, PhD, La Jolla, CA

FACULTY DEVELOPMENT SEMINAR**FD2 USING SOCIAL MEDIA AS A TOOL AND NOT JUST A TOY: HOW TO USE SOCIAL MEDIA FOR CAREER DEVELOPMENT AND NETWORKING**

Conference badges are required for admission.

Space is limited and admittance is on a first-come, first-served basis.

There is no additional fee

7:00 a.m. - 8:00 a.m. SAN DIEGO CONVENTION CENTER
Room 2 (Upper Level)

Target Audience

Early and mid-career clinical and/or research faculty, clinical & postdoctoral fellows, medical and graduate students, residents, nurses, and allied health professionals involved in or seeking careers in academic pulmonary, critical care and/or sleep medicine

Objectives

At the conclusion of this session, the participant will be able to:

- sign up for Twitter and understand the lingo associated with the online social media platform;

- identify strategies and practical ideas to be able to promote their professional academic career development;
- engage in networking with colleagues using social media tools.

Social media can advance your career, but trainees are not taught how to productively use social media in this manner. This seminar provides concrete social media strategies for trainees and early career faculty to promote their work, engage trainees, and network. A faculty panel with knowledge in leveraging social media will provide concrete advice for effectively using social media for career advancement and scholarly success. Specifically, speakers will provide general overviews of tools, strategies, and best practices for academic success using social media. Subsequently, speakers and participants will participate in small group interactive discussions based on specific areas of interest.

Chairing: M.N. Ballinger, PhD, Columbus, OH

Speakers: N. Seam, Bethesda, MD
M. Koenigshoff, MD, PhD, Aurora, CO
G.S. Martin, MD, MSc, Atlanta, GA

CLINICAL
YEAR IN REVIEW
CME Credits Available: 2
MOC Points Available: 2

C1 CLINICAL YEAR IN REVIEW 3

9:15 a.m. - 11:15 a.m. SAN DIEGO CONVENTION CENTER

Hall H (Ground Level)

Target Audience

Providers including physicians, nurses, respiratory therapists, nurse practitioners, physician assistants; trainees including residents and fellows; clinical researchers

Objectives

At the conclusion of this session, the participant will be able to:

- apply new clinical research knowledge to clinical practice;
- learn new findings about key conditions in pulmonary, critical care and sleep;
- have new strategies to manage the care of common conditions in pulmonary, critical care, and sleep.

The annual Clinical Year in Review symposia provides concise summaries of the most impactful clinical research publications related to specific clinical topics. Speakers will highlight 5 of the most important and influential publications on their topic in written format and during their talks.

Chairing: D.W. Ford, MD, Charleston, SC
V.E. Ortega, MD, PhD, Winston Salem, NC
J.S. Lee, MD, Aurora, CO

9:15 Genomics and Precision Medicine in Lung Disease
V.E. Ortega, MD, PhD, Winston Salem, NC

9:45 ARDS
A.J. Goodwin, MD, MSCR, Charleston, SC

10:15 Cystic Fibrosis
N.E. West, MD, Baltimore, MD

10:45 Sleep Disordered Breathing
S. Shafazand, MD, MS, Miami, FL

This session and the International Conference are supported by an educational grant from Vertex Pharmaceuticals Inc.

All CME sessions have been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) and are free of the control of commercial interests.

CLINICAL
CLINICAL TOPICS IN PULMONARY MEDICINE
CME Credits Available: 2
MOC Points Available: 2

C2 INTERSTITIAL LUNG DISEASE FROM CRADLE TO GRAVE

Assemblies on Clinical Problems; Pediatrics

9:15 a.m. - 11:15 a.m. SAN DIEGO CONVENTION CENTER

Ballroom 20 B-C (Upper Level)

Target Audience

Providers caring for patients with interstitial lung disease

Objectives

At the conclusion of this session, the participant will be able to:

- improve knowledge on the state of the art comprehensive care of patients with interstitial lung disease;
- enable participants to develop new strategies to address management dilemmas in the care of patients with interstitial lung disease;
- integrate patient' needs to facilitate the discussion of palliative care.

This session will review the current knowledge on state of the art comprehensive care of interstitial lung disease from the entire life and disease spectrum. It will cover evolving areas in the management of interstitial lung disease. Case vignettes will illustrate the clinical relevance and introduce each of the topics. An audience response system will be used to engage the audience and gauge the clinical practices and management decisions of attendees before and after each presentation.

Chairing: J. Morisset, MD, Montreal, Canada
M. Wijsenbeek, MD, PhD, Rotterdam, Netherlands
H.R. Collard, MD, San Francisco, CA

9:15 Introduction
J. Morisset, MD, Montreal, Canada

9:20 Case Vignette 1
M. Wijsenbeek, MD, PhD, Rotterdam, Netherlands

9:25 CHILD: From Infancy to Puberty and Beyond
R.R. Deterding, MD, Aurora, CO

9:50 Case Vignette 2
M. Wijsenbeek, MD, PhD, Rotterdam, Netherlands

9:55 ILA: The Unexpected Detected and What Now?
G.M. Hunninghake, MD, MPH, Boston, MA

10:20 Case Vignette 3
M. Wijsenbeek, MD, PhD, Rotterdam, Netherlands

10:25 Pulmonary Fibrosis: One Size Fits All?
K.K. Brown, MD, Denver, CO

10:50 Case Vignette 4
M. Wijsenbeek, MD, PhD, Rotterdam, Netherlands

10:55 ILD Care: A Matter of Life and Death
J. Morisset, MD, Montreal, Canada

CLINICAL

CLINICAL TOPICS IN PULMONARY MEDICINE

CME Credits Available: 2

C3 STATE OF THE ART PLEURAL DISEASE MANAGEMENT: CLINICAL TRIALS CHANGING CARE PRACTICE

9:15 a.m. - 11:15 a.m. SAN DIEGO CONVENTION CENTER
Ballroom 20 D (Upper Level)

Target Audience

Clinicians and allied health professionals with clinical & research responsibilities in respiratory diseases; chest physicians, pulmonologists, oncologists, nurses, surgeons, internists, GP, junior staff & scientists engaged in translational research

Objectives

At the conclusion of this session, the participant will be able to:

- understand and review the latest clinical trial evidence on best management of malignant pleural effusions, especially regarding the use of indwelling pleural catheters vs pleurodesis; especially recently published trials in the field;
- review the latest clinical trial evidence on best management of pleural infection, especially intrapleural therapy with tPA DNase, and the ongoing work on their best delivery regime;
- review the latest research finding in TB pleural effusion and in pneumothorax management. How these work would influence clinical care will be discussed.

Recent years have seen many multicentered pleural disease trials completed with immediate impact on clinical care. These studies have been published in high impact journals: including trials on malignant effusions (eg TIME-1 and -2 trials - both in JAMA), mesothelioma (SMART trial - Lancet Oncology; MAPPs and Meso-VATS - Lancet), and pleural infection (eg MIST-2 - NEJM), and pneumothorax. Several large trials eg the AMPLE-1, IPC-PLUS, ASAP, PLEASE and MIST-3 are completed and will report results in 2017/early 2018. The proposed session will update the audience of the latest exciting advances from RCTs that impact care.

Chairing: V.C. Broaddus, MD, San Francisco, CA
D.J. Feller-Kopman, MD, Baltimore, MD

9:15 State of the Art Management of Malignant Pleural Effusions
N. Maskell, MD, Bristol, United Kingdom

9:40 State of the Art Management of Pleural Infection
Y.C.G. Lee, MBChB, PhD, Perth, Australia

10:05 State of the Art Translational Advances in Tuberculous Pleural Effusions
C.F. Koegelenberg, MD, PhD, Cape Town, South Africa

10:25 State of the Art Management of Pneumothorax
N. Rahman, BM BCH, MSc, DPhil, Oxford, United Kingdom

10:50 State of the Art Application of Biomarkers for Pleural Diseases
J.M. Porcel, MD, Lleida, Spain

BEHAVIORAL • CLINICAL

CRITICAL CARE TRACK

CME Credits Available: 2

C4 MODERN DILEMMAS IN CRITICAL CARE: WHY A LITTLE BIT OF KNOWLEDGE CAN BE A DANGEROUS THING

Assemblies on Critical Care; Behavioral Science and Health Services Research; Clinical Problems

9:15 a.m. - 11:15 a.m. SAN DIEGO CONVENTION CENTER
Ballroom 20 A (Upper Level)

Target Audience

Critical care physicians/providers, nurses, and researchers; clinicians-in-training

Objectives

At the conclusion of this session, the participant will be able to:

- learn the state of current evidence on 5 major topics within critical care—airway management, early mobilization, palliative care communication, when to allow ARDS patients to breathe spontaneously, and shock management in the setting of sepsis;
- integrate new evidence into one's own understanding of best-practices;
- learn how to approach reconciling new evidence that contradicts preconceptions of good clinical care.

We aim to provide evidence-based care as a means to ensure quality, effectiveness, and safety to our critically ill patients. It often feels like the more we "learn", however, the more confused our understanding of critical illness and its optimal therapies becomes. In this session, speakers will outline the challenges in performing quality critical care research and, using a heterogeneous array of topics—airway management, early mobilization in the ICU, palliative care communication strategies, and ARDS—with recent evidence, help us to understand how they incorporate unexpected and often conflicting study findings into the care of their patients.

Chairing: K. Hibbert, MD, Boston, MA
M. Hua, MD, MSc, New York, NY
H.B. Gershengorn, MD, Miami, FL

9:15 Why the Data in Critical Care Are so Difficult
T.J. Iwashyna, MD, PhD, Ann Arbor, MI

9:33 Should We Teach the Old Ways? DL vs VL in Airway Management
M.W. Semler, MD, MSc, Nashville, TN

9:51 Should We Re-Evaluate the Evidence? Early Physical and Occupational Therapy in the ICU
R. Bakhru, MD, Winston-Salem, NC

10:09 Should We Believe Counter-Intuitive Data? Palliative Care Communication and Increased Symptomatology
J.E. Nelson, MD, New York, NY

10:27 How Far Should We Extrapolate Data? Spontaneous Breathing in ARDS
M.B. Amato, MD, Sao Paulo, Brazil

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

10:45 How Do We Reconcile Conflicting Data? Fluids Are Harmful, but so Are Pressors
N. Shapiro, MD, MPH, Boston, MA

11:03 Panel Discussion
K. Hibbert, MD, Boston, MA

BASIC • TRANSLATIONAL

BASIC SCIENCE CORE

CME Credits Available: 2

C5 MITOCHONDRIA-TARGETED THERAPEUTICS FOR PREVENTING OR TREATING LUNG DISEASES

Assemblies on Respiratory Structure and Function; Allergy, Immunology and Inflammation; Environmental, Occupational and Population Health; Respiratory Cell and Molecular Biology

9:15 a.m. - 11:15 a.m. MARRIOTT MARQUIS SAN DIEGO MARINA
Pacific Ballroom 21 (North Tower, First Floor)

Target Audience

Basic and translational researchers in respiratory disease biology and clinical researchers interested in exploring new frontiers

Objectives

At the conclusion of this session, the participant will be able to:

- learn new findings about how mitochondrial health is a critical determinant of the ability of the lung to appropriately respond to stress and how mitochondria-targeted therapeutics are showing promise in chronic lung diseases and acute lung injury;
- apply knowledge about the use of mitochondria-targeted antioxidants to improve quality of life of patients;
- apply knowledge of mitochondrial metabolism and nutritional stress to better understand preventive strategies in lung disease.

Positioned at the hub of cellular metabolic flux, mitochondria are uniquely adapted to communicate with the nucleus to bring about cellular as well as extra-cellular responses to perceived threats. Lung epithelial cells are exposed to high levels of environmental stress and mitochondrial dysfunction critically contributes to the pathogenesis of a variety of lung diseases ranging from development of smoking related COPD to hypoxia induced pulmonary arterial hypertension (PAH). Mitochondria targeted antioxidants substantially improve abnormal cellular biology of airway smooth muscle from COPD patients. This session will review the current knowledge on the role of mitochondrial dysfunction in connecting environmental stress to lung disease, recent advances in targeting mitochondria and the therapeutic potential for such strategies.

Chairing: A. Agrawal, MD, PhD, New Delhi, India
J. Bhattacharya, MD, New York, NY

9:15 Mitochondrial Redox Signals Regulate Cell Stress Responses
P.T. Schumacker, PhD, Chicago, IL

9:35 Mitochondrial Mechanisms in Pulmonary Vascular Disease
S.C. Erzurum, MD, Cleveland, OH

9:55 Smoke Induced Mitochondrial Dysfunction in Pathogenesis of Airway Disease
C.M. Pabelick, MD, Rochester, MN

10:15 Accelerated Lung Aging in COPD: The Role of Mitochondrial Dysfunction and the Promise of Mitochondria-Targeted Antioxidants
P.J. Barnes, MD, DSc, London, United Kingdom

10:35 Acute Lung Injury Is a Mitochondrial Disease
M.N. Islam, PhD, New York, NY

10:55 Delivery of Exogenous Functional Mitochondria into Damaged Cells
A. Krasnodembskaya, PhD, Belfast, United Kingdom

BASIC • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

C6 COPD PROGRESSION: CULPRITS AND MODIFIERS

Assemblies on Respiratory Cell and Molecular Biology; Allergy, Immunology and Inflammation

9:15 a.m. - 11:15 a.m. MARRIOTT MARQUIS SAN DIEGO MARINA
Pacific Ballroom 18-19 (North Tower, First Floor)

Target Audience

Basic and translational investigators and trainees who wish to understand how alterations in the immune system induced by cigarette smoke exposure perpetuate lung inflammation and damage after smoking cessation

Objectives

At the conclusion of this session, the participant will be able to:

- appreciate that in COPD lung inflammation persists long after smoking cessation;
- understand how alterations in the airway epithelium, immune system, or microbiome induced by cigarette smoke become self-perpetuating after smoking cessation.

Chronic exposure to cigarette smoke or other combustible organic matter is the strongest known risk factor for the development of chronic obstructive pulmonary disease (COPD). However, inflammation and lung damage persist in many patients with COPD despite smoking cessation. This session will highlight recent basic and translational studies that address why inflammation is disproportionately increased in COPD patients compared to smokers without COPD and why disease progression persists in some COPD patients even after smoking cessation.

Chairing: B.W. Richmond, MD, PhD, Nashville, TN
I. Petrache, MD, Denver, CO
J.L. Curtis, MD, Ann Arbor, MI

9:15 A Patient's Perspective
A. Merckens, Oceanside, CA

9:20 Cellular Senescence and Oxidative Stress Drive Persistent Inflammation and Disease Progression in COPD
P.J. Barnes, MD, DSc, London, United Kingdom

9:40 Biologic Changes to the Human Small Airway Epithelium Following Smoking Cessation
R.G. Crystal, MD, New York, NY

10:00 SigA Deficiency Drives Chronic Airway Inflammation in COPD
B.W. Richmond, MD, PhD, Nashville, TN

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- 10:15 Microbiome: Breaking Bad in Chronic Lung Disease**
K. Yadava, PhD, Oxford, United Kingdom
- 10:30 Immunity and Autoimmunity in COPD: Two Faces of the Same Coin?**
F. Polverino, MD, PhD, Boston, MA
- 10:45 Dendritic Cells Drive NK Cytotoxicity in COPD, Even After Smoking Cessation**
C.M. Freeman, PhD, Ann Arbor, MI
- 11:00 When Smoke Doesn't Clear: Nano Carbon Black Induces Th17 Cell-Mediated Emphysema**
F. Kheradmand, MD, Houston, TX

This session and the International Conference are supported by educational grants from AstraZeneca LP, GlaxoSmithKline, Sunovion Pharmaceuticals Inc.

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CLINICAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

Nursing Contact Hours Available: 2.4

C7 MEDICATION AND BEYOND: TARGETED SYMPTOM MANAGEMENT FOR THE MECHANICALLY VENTILATED PATIENT

Assemblies on Nursing; Critical Care

9:15 a.m. - 11:15 a.m. **SAN DIEGO CONVENTION CENTER**
Room 30 A-B (Upper Level)

Target Audience

Clinicians and researchers, including registered nurses and advanced practice nurses who interact with individuals receiving mechanical ventilation

Objectives

At the conclusion of this session, the participant will be able to:

- assess common symptoms experienced by mechanically ventilated patients;
- integrate safe and effective targeted interventions into clinical practice to manage mechanically ventilated patients' symptoms of anxiety, pain/discomfort, ventilator dyssynchrony, and dyspnea;
- identify current knowledge gaps and directions for future research and clinical practice relevant to targeted management of mechanically ventilated patient symptoms.

This session will provide an overview of the current state of the science surrounding symptom assessment and targeted interventions for the management of distressful symptoms experienced by patients during mechanical ventilation. Speakers will first summarize the evidence on common patient reported symptoms, symptom assessment tools, and communication strategies to facilitate symptom assessment with this nonvocal patient population. Current knowledge in the use of targeted interventions including nonpharmacological management of pain/discomfort, anxiety, ventilator dyssynchrony, and dyspnea will be featured. Implications for clinical practice and research will be discussed.

Chairing: J.L. Guttormson, PhD, Milwaukee, WI
R.O. Hopkins, PhD, Murray, UT

- 9:15 The Patient Experience of Mechanical Ventilation: What Symptoms Should We Be Assessing?**
B.A. Khan, MD, Indianapolis, IN
- 9:30 Symptom Assessment During Mechanical Ventilation: Strategies to Address Challenges with Self-Report in Nonvocal Patients**
J.L. Guttormson, PhD, Milwaukee, WI
- 9:45 Management of Anxiety During Mechanical Ventilation**
L.L. Chlan, PhD, RN, Rochester, MN
- 10:05 Managing Pain and Discomfort During Mechanical Ventilation**
C. Gelinas, BScN, MScN, PhD, Montreal, Canada
- 10:25 Management of Ventilator Dyssynchrony and Dyspnea During Mechanical Ventilation**
K.G. Mellott, PhD, MSN, BSN, RN, Houston, TX
- 10:45 Pediatric Patients on the Ventilator: Targeted Symptom Management**
M.A. Curley, PhD, RN, Philadelphia, PA
- 11:05 Panel Discussion: Integrating Targeted Symptom Assessment and Management into Your Clinical Practice**
J.L. Guttormson, PhD, Milwaukee, WI

BASIC • CLINICAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

C8 TRANSLATIONAL IMMUNOLOGY AND LUNG DISEASE: INTEGRATING PATHOBIOLOGY TO THERAPY

Assembly on Allergy, Immunology and Inflammation

9:15 a.m. - 11:15 a.m. **MARRIOTT MARQUIS SAN DIEGO MARINA**
Grand Ballroom 5-6 (North Tower, Lobby Level)

Target Audience

Pulmonary and allergy physicians, and physicians in training, who are focused on care of patients with immune based lung disease. Clinical, translational, and basic science researchers involved in studies of lung immunology and immunotherapy

Objectives

At the conclusion of this session, the participant will be able to:

- learn new information about the immune basis of lung diseases;
- understand the scientific basis for new immunotherapies and how to best utilize these new therapies;
- gain new strategies for the management of patients with immune based lung disease.

This session will provide a review of several important immune based lung diseases by experts in the field of translational immunology. The talks will emphasize the immune basis of the disorders as well as the prospects for immunotherapy.

Chairing: B.D. Medoff, MD, Boston, MA
L. Koth, MD, San Francisco, CA

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- 9:15 COPD: Therapeutic Implications of Novel Immunologic Insights**
G.G. Brusselle, MD, PhD, Ghent, Belgium
- 9:40 Asthma: Is Inflammation Only Half of the Story?**
J.L. Cho, MD, Boston, MA
- 10:05 IPF: T Cell Co-Stimulatory Molecules in Idiopathic Pulmonary Fibrosis: Biomarkers or Players?**
A.I. Sperling, PhD, Chicago, IL
Parker B. Francis Speaker
- 10:30 Occupational: What Have We Learned About Lung Immunity from Berylliosis?**
A.P. Fontenot, MD, Aurora, CO
- 10:55 Uncovering Mechanisms of Autoimmune-Mediated Lung Disease Through Studies of Rare Mendelian Disorders**
A. Shum, MD, San Francisco, CA

This session and the International Conference are supported by educational grants from GlaxoSmithKline, Mallenckrodt Pharmaceuticals, Sanofi Genzyme and Regeneron Pharmaceuticals.

All CME sessions have been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) and are free of the control of commercial interests.

CLINICAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

C9 MAKING TUBERCULOSIS PREVENTION GREAT AGAIN

Assemblies on Pulmonary Infections and Tuberculosis; Clinical Problems

9:15 a.m. - 11:15 a.m. **MARRIOTT MARQUIS SAN DIEGO MARINA**

Grand Ballroom 8-9 (North Tower, Lobby Level)

Target Audience

Providers of lung health, public health officials, researchers interested in tuberculosis, policy makers

Objectives

At the conclusion of this session, the participant will be able to:

- apply current tests for latent tuberculosis infection (LTBI);
- treat LTBI using short-course regimens;
- learn new findings about predictive biomarkers and novel drug regimens that could facilitate further scale-up of targeted testing and treatment of LTBI.

More than 50 years ago, Comstock and colleagues demonstrated among Inuit communities in Alaska that mass testing and treatment of latent tuberculosis infection (LTBI) could achieve the levels of decline in tuberculosis (TB) incidence required for elimination. With the renewed emphasis on TB elimination globally and in the United States, there is increasing momentum for scale-up of LTBI testing and treatment. This symposium will explore the following: impact and cost-effectiveness of scale-up; how current tests and treatment regimens should be utilized; novel approaches in the pipeline to further improve testing and treatment; and gaps in implementation of LTBI testing and treatment.

Chairing: A. Cattamanchi, MD, San Francisco, CA
P.A. Lobue, MD, Atlanta, GA
C.D. Hamilton, MD, Durham, NC

- 9:15 Making the Case for Scaling-Up LTBI Testing and Treatment: Insights From Modeling Studies**
P.B. Shete, MD, San Francisco, CA
- 9:30 Accuracy and Recommended Use of Current Blood Tests for Diagnosing LTBI**
J.E. Stout, MD, Durham, NC
- 9:45 Decoding the Immune Response to Predict Risk of Progression to Active TB**
D.M. Lewinsohn, MD, PhD, Portland, OR
- 10:00 Current Options for Short-Course LTBI Treatment**
C.D. Hamilton, MD, Durham, NC
- 10:15 Can We Go Even Shorter? Novel Approaches to LTBI Treatment**
T.R. Sterling, MD, Nashville, TN
- 10:30 The TB Prevention Continuum of Care: Where Are the Gaps and How Can We Close Them?**
A. Cattamanchi, MD, San Francisco, CA
- 10:45 Panel Discussion: Scaling-Up LTBI Testing and Treatment**
P.A. Lobue, MD, Atlanta, GA

CLINICAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

MOC Points Available: 2

C10 NOVEL STRATEGIES TO COMPLEMENT PULMONARY REHABILITATION IN COPD

Assemblies on Pulmonary Rehabilitation; Behavioral Science and Health Services Research; Clinical Problems

9:15 a.m. - 11:15 a.m.

SAN DIEGO CONVENTION CENTER

Room 16 A-B (Mezzanine Level)

Target Audience

Pulmonologists, nurses, respiratory therapists, physical therapists and exercise physiologists with clinical and research interests in pulmonary rehabilitation in COPD, and newer ways of delivering rehabilitation

Objectives

At the conclusion of this session, the participant will be able to:

- learn applicability of telehealth interventions for pulmonary rehabilitation and patient education;
- using alternative strategies such as yoga, tai chi and electrical stimulation to complement aerobic training;
- understand differences in enhancing physical activity is complementary but distinct from pulmonary rehabilitation, and learn strategies to increase physical activity.

Pulmonary rehabilitation is effective in improving the quality of life of patients with COPD. However, there are significant barriers to access to PR. In this session, speakers will describe novel strategies to enhance and deliver PR, including using smart technology for remote tele-rehabilitation, novel use of yoga, tai chi and neuromuscular electrical stimulation to complement traditional pulmonary rehabilitation, and also increase physical activity beyond the period of rehabilitation.

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- Chairing:** S.P. Bhatt, MD, Birmingham, AL
C. Garvey, FNP, MSN, MPH, San Francisco, CA
R.S. Goldstein, MD, Toronto, Canada
- 9:15 Newer Devices for Rehabilitative Training**
M.A. Spruit, PT, PhD, Horn, Netherlands
- 9:35 Neuromuscular Electrical Stimulation: Can It Replace or Augment Conventional Pulmonary Rehabilitation?**
M. Maddocks, PhD, London, United Kingdom
- 9:55 Telehealth Interventions for Pulmonary Rehabilitation**
S.P. Bhatt, MD, Birmingham, AL
- 10:15 Strategies to Enhance the Physical Activity Benefits of Pulmonary Rehabilitation**
R. Casaburi, MD, PhD, Torrance, CA
- 10:35 Web-Based Self Management Programs**
S.J. Singh, PhD, Leicester, United Kingdom
- 10:55 Tai Chi and Yoga to Maintain Benefits of Pulmonary Rehabilitation Over the Long-Term**
M. Moy, MD, MSc, Boston, MA

TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

MOC Points Available: 2

C11 NEW PARADIGMS FOR RESOLVING SLEEP APNEA HETEROGENEITY: DEEP PHENOTYPING AND GENOMICS

Assembly on Sleep and Respiratory Neurobiology
9:15 a.m. - 11:15 a.m. SAN DIEGO CONVENTION CENTER
Room 7 A-B (Upper Level)

Target Audience
Providers of respiratory and sleep medicine; trainees in pulmonary and sleep medicine; translational, clinical and basic researchers

Objectives
At the conclusion of this session, the participant will be able to:

- identify national/international resources for supporting large scale genomics studies of respiratory and sleep traits;
- describe methods for deriving physiological informative risk/susceptibility phenotypes from polysomnography studies, better characterizing subgroups with sleep apnea related risk and etiology;
- understand modern approaches for analysis of large scale omics data and identify molecular pathways that influence risk of sleep apnea.

This session will bring together international leaders in Precision Medicine initiatives as well as an inter-disciplinary group of researchers who have made advances in sleep apnea phenotyping and genomic studies of sleep apnea-related traits. The session aims to describe a modern paradigm for resolving heterogeneity of sleep apnea and for identifying risk factors for sleep apnea susceptibility that utilize quantitative phenotyping and genetic analyses. The goals are to challenge clinicians and researchers to consider a broader array of sleep apnea phenotypes both for clinical assessments and in research

studies, including use in small and large-scale genetic studies. The session also will make the community aware of recent progress in linking novel sleep apnea phenotypes to genomic risk factors.

- Chairing:** S.S. Redline, MD, Boston, MA
S.A. Sands, BSc, PhD, Cambridge, MA
S. Chowdhuri, MD, MS, Detroit, MI
- 9:15 A Patient's Perspective**
S. Baker-Goodwin, EdD, East Lyme, CT
- 9:20 National Investments in Precision Medicine**
C.J. O'Donnell, MD, MPH, Boston, MA
- 9:30 Deep Phenotyping and Tailored Interventions**
B.A. Edwards, PhD, Melbourne, Australia
- 9:55 Clinical Sleep Apnea Phenotypes and Cardiovascular Disease**
A. Zinchuk, MD, New Haven, CT
- 10:15 Predicting Metabolic and Hemodynamic Responses to Sleep Apnea Treatment**
J.C. Jun, MD, Baltimore, MD
- 10:35 Genetic Associations for Novel Sleep Apnea Phenotypes From Large Population Studies**
B.E. Cade, PhD, Boston, MA
- 10:55 Lessons Learned From Pulmonary Genomics Studies**
S.A. Gharib, MD, Seattle, WA

BEHAVIORAL • CLINICAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

Nursing Contact Hours Available: 2.4

MOC Points Available: 2

C12 CHOOSING RIGHTLY: AT THE INTERSECTION OF PERSONALIZED MEDICINE AND DE-ADOPTION OF LOW-VALUE CARE

Assemblies on Behavioral Science and Health Services Research; Clinical Problems; Critical Care; Nursing; Pulmonary Circulation; Thoracic Oncology
9:15 a.m. - 11:15 a.m. SAN DIEGO CONVENTION CENTER
Room 14 A-B (Mezzanine Level)

Target Audience
Clinicians, including registered nurses and advanced practice nurses, and scientists seeking to evaluate value in decision-making or interested in original research aimed at personalized medicine and de-adoptive practices will benefit from attending this session

Objectives
At the conclusion of this session, the participant will be able to:

- apply new strategies to evaluate value in health care;
- discuss unique areas of research across pulmonary medicine focused on the intersection between patient selection and optimizing value;
- evaluate future directions for patients and clinicians in value-based care.

Choosing Wisely® and other interventions to reduce low-value health care are vital. Yet, de-adoption of unnecessary care has proved difficult, partly due to the

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challenges of recognizing which patients are actually receiving low-value care. This session emphasizes how de-adoptive practices and personalized medicine can work together to reduce low-value care while also selecting patients likely to benefit from therapies. The session looks at quality of care across pulmonary medicine as leading experts discuss: areas where appropriate therapies are underutilized or misused; cutting-edge research aimed at preventing overuse; and future directions targeted to improve value in health care.

Chairing: T.S. Valley, MD, MSc, Ann Arbor, MI
R.S. Wiener, MD, MPH, Boston, MA
L.C. Feemster, MSc, MD, Seattle, WA

9:15 Identifying Pneumonia Patients Who Need Intensive Care (and Those Who Don't)

T.S. Valley, MD, MSc, Ann Arbor, MI

9:35 Personalizing Lung Cancer Screening Through Risk Modeling and Shared Decision-Making

G.A. Silvestri, MD, Charleston, SC

9:55 Take a Deep Breath: Approaches to Selecting Patients with Chronic Lung Diseases for Self-Management

D.M. Donesky, PhD, ANP-BC, San Francisco, CA

10:15 Don't Take Five: How Can We Reduce Inappropriate Use of PDE5 Inhibitors in Pulmonary Hypertension?

R.S. Wiener, MD, MPH, Boston, MA

10:35 Improving Safety Through De-Implementation of Unnecessary Inhaled Corticosteroids in COPD

L.C. Feemster, MSc, MD, Seattle, WA

10:55 What Do We Do After We're Done Choosing Wisely®

S.D. Halpern, MD, PhD, Philadelphia, PA

MINI SYMPOSIUM

C13 THE MICROBIOME IN CHRONIC AIRWAYS DISEASE

9:15 a.m. - 11:15 a.m. SAN DIEGO CONVENTION CENTER

Room 32 A-B (Upper Level)

Chairing: G. Kitsios, MD, PhD, Pittsburgh, PA
L.N. Segal, MD, New York, NY
Y.J. Huang, MD, Ann Arbor, MI

Featured Speaker

9:15 The Relevance of Microbiome, Lessons from Outside the Lung/A.M. Morris, MD, MS, Pittsburgh, PA

Oral Presentations

9:30 Outcomes of COPD Patients Colonized by Methicillin Resistant Staphylococcus Aureus/J. Aponte, A. Espinosa Hernandez, E. Jirru, A. Singh, R.E. Jean, New York, NY, p.A4426

9:45 Differences Between Sputum and Saliva Microbiome Profiles in COPD Patients Admitted for Acute Exacerbations/F.S.S. Leitao Filho, N.M. Alotaibi, D.A. Ngan, S. Tam, J.S.W. Yang, Z. Hollander, V. Chen, J.M. Fitzgerald, J. Leung, S.F. Man, D.D. Sin, Vancouver, Canada, p.A4427

10:00 Distinct Airway Microbiome Patterns Associated with Lung Cancer Development in a COPD Cohort/M.J. Mammen, M. Buck, Y. Sun, N. Waldron, S. Vallyaparambil, C. Wrona, C. Wrona, S. Sethi, Buffalo, NY, p.A4428

10:15 Sputum Microbiome Is Associated with 1-Year Mortality in COPD Exacerbations/F.S.S. Leitao Filho, N.M. Alotaibi, D.A. Ngan, S. Tam, J.S.W. Yang, Z. Hollander, V. Chen, J.M. Fitzgerald, J. Leung, S.-F.P. Man, D.D. Sin, Vancouver, Canada, p.A4429

10:30 Comparisons Between Sputum Molecular Pathogen Detection Methods and Microbiome Sequencing in COPD Exacerbations/F.S.S. Leitao Filho, N.M. Alotaibi, D.A. Ngan, S. Tam, J.S.W. Yang, Z. Hollander, V. Chen, R. Ng, C. Nislow, J.M. Fitzgerald, J. Leung, S.-F.P. Man, D.D. Sin, Vancouver, Canada, p.A4430

10:45 Distinct Airway Microbiome Patterns Associated with Frequent Exacerbator Phenotype in COPD/M.J. Mammen, N. Waldron, S. Vallyaparambil, C. Wrona, S. Sethi, Buffalo, NY, p.A4431

11:00 Multiplex Molecular Detection of Respiratory Pathogens of Adult Patients Admitted to Hospital for Acute Exacerbation Chronic Obstructive Pulmonary Disease and Their Clinical Outcomes/F.W.S. Ko, P.K.S. Chan, A. Ip, K. Ling, A. Kwok, K.P. Chan, T.-O. Chan, D.S.C. Hui, Hong Kong, Hong Kong, p.A4432

MINI SYMPOSIUM

C14 NEW DEVELOPMENTS IN INTERVENTIONAL PULMONARY MEDICINE

9:15 a.m. - 11:15 a.m. SAN DIEGO CONVENTION CENTER

Room 33 A-C (Upper Level)

Chairing: M.M. Wahidi, MD, MBA, Durham, NC
J.C. Cicensia, MD, Cleveland, OH

Oral Presentations

9:15 Treatment of Complex Central Airway Stenoses Using Computer-Assisted Customized 3d Stents/N. Guibert, A. Didier, B. Moreno, P. Leyx, G. Plat, L. Mhanna, L. Brouchet, S. Amigues, J. Mazieres, C. Hermant, Toulouse, France, p.A4433

9:30 EBUS-TBNA Versus EUS-B-FNA for Needle Aspiration of Mediastinal Lesions(TEAM): A Randomized Controlled TrialTEAM - Tracheal Versus Esophageal Approach for Aspiration of Mediastinal Lesions/ Madan, S. Mittal, A. Mohan, V. Hadda, D. Jain, G.C. Khilnani, R. Guleria, New Delhi, India, p.A4434

9:45 Performance of Endobronchial-Ultrasound Guided Miniforceps Biopsy of Targeted Mediastinal and Hilar Lesions/C. Radchenko, T. Saettele, L. Kang, Richmond, VA, p.A4435

10:00 Nationwide Lung-Volume-Reduction Surgery (LVRS) Trends from 2007-2013/A. Attaway, U.S. Hatipoglu, J.G. Zein, Cleveland, OH, p.A4436

- 10:15 Significant Reduction in Dyspnea After Zephyr Endobronchial Valve (EBV) Treatment in Patients with Severe Emphysema; Results from TRANSFORM, a Multicenter RCT/S.** Kemp, N.S. Shargill, D.-J. Slebos, A. Kirk, M. Kornaszewska, K. Carron, L. Ek, H. Mal, C. Pison, N. Downer, C.-H. Marquette, London, United Kingdom, p.A4437
- 10:30 Coil Treatment and Quantitative CT Emphysema Measures: A Post Hoc Analysis of RENEW Trial Outcomes/J.C. Cicensia, U.S.** Hatipoglu, D.-J. Slebos, P. Shah, C.B. Strange, G.J. Criner, F.C. Scirba, A.C. Mehta, Cleveland, OH, p.A4438
- 10:45 Factors Associated with Complications in Patients Undergoing Bronchoscopy with Biopsy: A Five-Year Analysis/V.** Santibanez, D. Pan, F. Vazquez de Lara, A. Singh, J.P. Mathew, New York, NY, p.A4439
- 11:00 Cryobiopsy Followed by Surgical Lung Biopsy or Autopsy: A Retrospective Case Series of Biopsy Concordance/J.C. Hewlett, J.K. Pannu, J.A. Kropski, O.B. Rickman, F. Maldonado, R.J. Lentz, Nashville, TN, p.A4440**

MINI SYMPOSIUM

C15 CRITICAL CARE: BIG DATA AND ARTIFICIAL INTELLIGENCE IN CRITICAL ILLNESS

9:15 a.m. - 11:15 a.m. SAN DIEGO CONVENTION CENTER

Room 29 A-D (Upper Level)

Chairing: M.N. Gong, MS, MD, Bronx, NY
M.W. Sjoding, MD, Ann Arbor, MI
C.R. Cooke, MD, Ann Arbor, MI

Oral Presentations

- 9:15 What Comes First in Sepsis- Systemic Inflammatory Response Syndrome (SIRS), the Sequential Organ Failure Assessment (SOFA), or the Quick Sepsis Related Organ Failure Assessment (qSOFA)?/P.A. Prasad, M.C. Fang, N. Van Groningen, Y. Abe-Jones, C.S. Calfee, M.A. Matthay, K.N. Kangelaris, San Francisco, CA, p.A4441**
- 9:30 Feasibility of Sepsis Phenotyping Using Electronic Health Record Data During Initial Emergency Department Care/C.W.** Seymour, J. Kennedy, S. Wang, Z. Xu, C.-C.H. Chang, Q. Mi, Y. Vodovotz, G. Clermont, S. Visweswaran, J.C. Weiss, G. Cooper, H. Gomez, J.A. Kellum, D.C. Angus, Pittsburgh, PA, p.A4442
- 9:45 EMR Clinical Signatures with Unsupervised Topic Modeling in Early Infection and Sepsis/A. Fohner, J. Chen, J. Greene, P. Kipnis, G. Escobar, V. Liu, Oakland, CA, p.A4443**
- 10:00 Less Is More: Detecting Clinical Deterioration in the Hospital with Machine Learning Using Only Age, Heart Rate and Respiratory Rate/D.P. Edelson, K. Carey, C.J. Winslow, M.M. Churpek, Chicago, IL, p.A4444**
- 10:15 From Pictures to Prediction: Combining Data Visualization with Deep Learning to Predict Clinical Deterioration/A.** Mayampurath, K. Carey, L.-R. Venable, D. Edelson, M.M. Churpek, Chicago, IL, p.A4445

- 10:30 Natural Language Processing and Machine Learning for Identification of Acute Respiratory Distress Syndrome/A.** Oakey, D. Dligach, P. Yang, P. Formanek, S. Zelisko, R. Price, C. Joyce, R. Cooper, M. Afshar, Chicago, IL, p.A4446
- 10:45 Predicting Intensive Care Unit Readmission with Machine Learning Using Electronic Health Record Data/J.C. Rojas, K.A.** Carey, D.P. Edelson, L.R. Venable, M.D. Howell, M.M. Churpek, Chicago, IL, p.A4447
- 11:00 Prediction for Hypotension Episode with Multigranular Data in the Intensive Care Unit/J.H. Yoon, V. Jeanselme, Y. Chen, A.** Dubrawski, M. Hravnak, M. Pinsky, G. Clermont, Pittsburgh, PA, p.A4448

MINI SYMPOSIUM

C16 CIGARETTE, E-CIGARETTE, AND MARIJUANA SMOKING: HUMAN AND MOUSE STUDIES

9:15 a.m. - 11:15 a.m. SAN DIEGO CONVENTION CENTER

Room 15 A-B (Mezzanine Level)

Chairing: I. Jaspers, PhD, Chapel Hill, NC
A.K. Bauer, PhD, Aurora, CO

Oral Presentations

- 9:15 Life Course Cigarette Smoking and Lung Health from Young Adulthood to Middle Age: Findings from the CARDIA Lung Study/A. Mathew, L. Colangelo, N. Allen, D. Jacobs, G. Washko, R. San Jose Estepar, R. Auer, R. Widome, S.P. Bhatt, M.T. Dransfield, B. Hitsman, R. Kalhan, Chicago, IL, p.A4449**
- 9:30 Marijuana Smoking in the Middle-Aged and Elderly Population Is Associated with Rapid Decline in FEV1/W.-C. Tan, J.** Bourbeau, F. Maltais, P. Hernandez, D. Marciniuk, D. O'Donnell, B. Walker, K. Chapman, M. Fitzgerald, J. Road, J. Hogg, S. Aaron, D. Sin, Vancouver, Canada, p.A4450
- 9:45 Prospective Follow-Up of Respiratory Symptoms Among Young Adults with a History of Electronic Cigarette Use/R.** Urman, J. Barrington-Trimis, F. Liu, H. Hong, K. Berhane, A. Leventhal, R. McConnell, Los Angeles, CA, p.A4451
- 10:00 Chronic Inhalation of Unflavored Nicotine and No-Nicotine Containing Electronic Cigarette Vapor Leads to Impaired Lung Function/V. Chun, A. Moshensky, J. Shin, A. Du, N. Nguyen, E. Le, C.J. Javier, A. Tran, R. Al Kolla, L.J. Ma, L.E. Crotty Alexander, San Diego, CA, p.A4452**
- 10:15 Comparison of Biomarkers of Inflammation and Immune Status in the Nose, Airways, and Serum of E-Cigarette Users and Cigarette Smokers/A. Perryman, J.R. Hoffman, M.E. Rebuli, N.E. Alexis, I. Jaspers, Chapel Hill, NC, p.A4453**
- 10:30 E-Cigarettes and Cigarettes Differentially Modify Nasal Mucosal Immune Response to Infection with Live-Attenuated Influenza Virus (LAIV)/M. Rebuli, E. Glista-Baker, E. Pawlak, A. Speen, J. Hoffman, H. Dang, A. Ghosh, R. Tarran, T. Noah, I. Jaspers, Chapel Hill, NC, p.A4454**

- 10:45 Electronic Cigarette Exposures Before and During Embryogenesis Impair Lung Development in Mice/A. Noel, S. Hansen, K.B. Spataro, A. Zaman, Z. Perveen, C.A. Leisinger, C.R. Pinto, A.L. Penn, Baton Rouge, LA, p.A4455**
- 11:00 Age-Related Modulation of Pulmonary Innate Immunity by Environmental Tobacco Smoke Against Influenza A/PR/8/34 in Mice/M. Rajavel, L. Wang, M. Poindexter, T. Mar, C.B. Fulgar, J. Singh, K.E. Pinkerton, Davis, CA, p.A4456**

- 10:45 Practice Patterns for Hospital-Acquired Pneumonia at All Veterans Affairs Medical Centers/A. Bostwick, B.E. Jones, M. Goetz, M. Samore, R. Paine, M. Jones, Salt Lake City, UT, p.A4462**
- 11:00 Comparative Risk of Hospitalized Respiratory Infection in U.S. Medicare Patients Treated with Non-Acute Inhaled Corticosteroids or Macrolide Monotherapy/E. Henkle, B. Chan, J.R. Curtis, L. Chen, T.R. Aksamit, C.L. Daley, D.E. Griffith, K.L. Winthrop, Portland, OR, p.A4463**

MINI SYMPOSIUM

C17 NEW INSIGHTS IN ACUTE PULMONARY INFECTIONS

**9:15 a.m. - 11:15 a.m. MARRIOTT MARQUIS SAN DIEGO MARINA
Pacific Ballroom 22 (North Tower, First Floor)**

Chairing: Y. Shindo, MD, Nagoya, Japan
N.C. Dean, MD, Murray, UT
F. Blasi, MD, Milan, Italy

Oral Presentations

- 9:15 A Phase 2b, Randomized, Double-Blind, Placebo-Controlled Trial of Presatovir (GS-5806), a Novel Oral RSV Fusion Inhibitor, for the Treatment of Respiratory Syncytial Virus (RSV) in Hospitalized Adults/D. Hanfelt-Goade, N. Maimon, A. Nimer, F. Riviere, E. Catherinot, M. Ison, S.H. Jeong, E. Walsh, A. Gafter-Gvili, S.R. Nama, P. Napora, M. Chowers, A. Bergeron, D. Zeltser, H. Moudgil, A.P. Limaye, F. Couturaud, W. Nseir, M. McKeivitt, D. Porter, R. Jordan, Y. Guo, P. German, T.R. Watkins, D.L. Gossage, J.W. Chien, A.R. Falsey, Tauranga, New Zealand, p.A4457**
- 9:30 Early Clinical Response of Omadacycline Versus Moxifloxacin in the Treatment of Community-Acquired Bacterial Pneumonia by PORT Risk Class: Results from the OPTIC Study/J.A. Ramirez, L. Garrity-Ryan, P.B. Eckburg, A. Das, C. Kirsch, A. Manley, E. Tzanis, P. McGovern, Louisville, KY, p.A4458**
- 9:45 Precision Diagnosis of Lower Respiratory Tract Infections in the ICU Via Metagenomic Next Generation Sequencing/C. Langelier, K.K. Kalantar, S. Christenson, F. Moazed, T.J. Deiss, A. Belzer, K. Vessel, S. Bolourchi, A. Jauregui, S. Ortiz, M.A. Matthay, J. Derisi, C.S. Calfee, San Francisco, CA, p.A4459**
- 10:00 Shotgun Metagenomic Sequencing Analysis of BAL Fluid in Patients with Suspected Pneumonia/P. Hountras, C. Pickens, J.M. Walter, J.M. Kruser, C. Qi, B.D. Singer, S. Green, R.G. Wunderink, Chicago, IL, p.A4460**

Featured Speaker

- 10:15 Should I Treat my Patients with CAP with Corticosteroids?/G.W. Waterer, MBBS, MBA, PhD, Perth, Australia**

Oral Presentations

- 10:30 Effects of Particulate Matter on the Developments of Community-Acquired Pneumonia: A Nationwide Population-Based Cohort Study/W. Ji, Y.R. Park, H.R. Kim, H.R. Kim, J.C. Lee, S. Song, C.-M. Choi, Seoul, Korea, Republic of, p.A4461**

MINI SYMPOSIUM

C18 BEST OF PEDIATRICS

**9:15 a.m. - 11:15 a.m. SAN DIEGO CONVENTION CENTER
Room 1 A-B (Upper Level)**

Chairing: P.E. Moore, MD, Nashville, TN
S.D. Dell, MD, Toronto, Canada

Oral Presentations

- 9:15 DNA Methylation Changes During Alveolar Septation/D. Chhabra, C. Espinoza, M. Chan, T. Nicola, T. Duong, T.J. Mariani, H.L. Huyck, D. Krenitsky, K. Fisch, G.S. Pryhuber, N. Ambalavanan, J.S. Hagood, La Jolla, CA, p.A4464**
- 9:30 Long-Term Evaluation of Pulmonary Macrophage Transplantation Therapy in Csf2ra Gene-Deficient Mice, a Clinically Relevant Model of Hereditary Pulmonary Alveolar Proteinosis/K. Shima, T. Suzuki, P.I. Arumugam, N. Lachmann, T. Moritz, Y. Ma, D. Black, C. Chalk, B.C. Carey, B.C. Trapnell, Cincinnati, OH, p.A4465**
- 9:45 Quantitative Assessment of Tracheomalacia Using Ultra-Short Echo Time MRI/E. Hysinger, A. Bates, N.S. Higano, C.K. Hart, D. Benscoter, A. de Alacron, S.B. Fain, P.S. Kingma, J.C. Woods, Cincinnati, OH, p.A4466**
- 10:00 Different Mutations in Cilia Preassembly Gene HEATR2 Are Associated with Variable Clinical Phenotypes and Defects in Proteostasis/A. Horani, T. Huang, S.L. Brody, St. Louis, MO, p.A4467**
- 10:15 Amoxicillin-Clavulanate Vs Azithromycin for Respiratory Exacerbations of Bronchiectasis in Children -A Multi-Centre Double Blind Non-Inferiority Randomised Controlled Trial/V. Goyal, K. Grimwood, C.A. Byrnes, I.B. Masters, J. Marchant, P. Morris, R. Ware, P. Van Asperen, K.-A. O'Grady, P. Torzillo, G. McCallum, A. Champion, H. Buntain, I. Mackay, T.P. Sloots, J. Ungerer, M. Binks, A.B. Chang, South Brisbane, Australia, p.A4468**
- 10:30 Early Childhood Asthma and the Risk of New Onset Obesity: An Individual Participant Meta-Analysis of 16 European Birth Cohorts/Z. Contreras, Z. Chen, T. Roumeliotaki, I. Annesi-Maesano, N. Baiz, A. Von Berg, A. Bergstrom, C. Bindsvlev-Jensen, S. Crozier, L. Duijts, S. Ekstrom, E. Eller, M. Fantini, F. Forastiere, B. Gerhard, D. Gori, M. Harskamp-van Ginkel, J. Heinrich, C. Iñiguez, H. Inskip, T. Keil, M. Kogevinas, S. Lau, I. Lehmann, D. Maier, E. van Meel, M. Mommers, M. Murcia, D. Porta, H. Smit, M. Standl, N. Stratakis, J. Sunyer, C. Thijs, M. Torrent, T. Vrijkotte, A. Wijga, K. Berhane, F. Gilliland, L. Chatzi, Los Angeles, CA, p.A4469**

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

10:45 Transfusion Related Acute Lung Injury (TRALI) in Pediatric Intensive Care Unit: A Multicenter Cohort Study/G. Emeriaud, G. Du Pont Thibodeau, K. Menon, P. Fontela, E. Gilfoyle, J. Hutchison, N. Robitaille, F. Gauvin, J. Lacroix, Montreal, Canada, p.A4470

Featured Speaker

11:00 Rethinking Pediatric Bronchiectasis/S.D. Dell, MD, Toronto, Canada

MINI SYMPOSIUM

C19 MECHANICAL VENTILATION: VISUALIZING PARENCHYMAL STRAIN AND ACUTE LUNG INJURY

**9:15 a.m. - 11:15 a.m. SAN DIEGO CONVENTION CENTER
Room 3 (Upper Level)**

Chairing: C.E. Perlman, PhD, Hoboken, NJ
G.R. Zosky, PhD, Hobart, Australia
M. Cereda, MD, Philadelphia, PA

Featured Speaker

9:15 Regional Aeration and Strain in the Heterogeneous Lung: Implications for Ventilator Management/D.W. Kaczka, MD, PhD, Iowa City, IA

Oral Presentations

9:30 Spatial Distribution of Cell Injury During the Progression of Ventilator-Induced Lung Injury/C. Mattson, K. Okamura, M. Kiselevach, B.J. Smith, Aurora, CO, p.A4471

9:45 Inflammatory Gene Expression Is Associated with Regional Lung Distension During Mechanical Ventilation/S. Yen, M. Preissner, B. Ellen, A. Fouras, P. Dargaville, G.R. Zosky, Hobart, Australia, p.A4472

10:00 Estimating Fiber Stresses from Pressure-Volume Curves for Reducing Lung Injury During Mechanical Ventilation of Emphysematous Patients/S.A.M. Bou Jawde, B. Suki, Boston, MA, p.A4473

10:15 Regional Fraction Imaging Using Multibreath Wash-In of Hyperpolarized Xenon-129/H. Hamedani, R. Baron, Y. Xin, S. Siddiqui, S. Kadlecck, K. Ruppert, S. Mary, F. Amzajerjian, D. Ian, L. Loza, M. Cereda, J.M. Diamond, R.R. Rizi, Philadelphia, PA, p.A4474

10:30 Tidal Strain Is Redirected to High Aeration Regions During the First 24h of Mechanical Ventilation/G.C. Motta Ribeiro, S. Hashimoto, T. Winkler, M.C. Negron, K. Grogg, L.F.S.C. Paula, A.D.J. Santos, K. Hibbert, R.S. Harris, M.V. Melo, Boston, MA, p.A4475

10:45 Voxel-Wise Measurement of Lung Inflation Changes in Prone Vs. Supine Positions in Pigs with Lung Injury/Y. Xin, M. Cereda, N. Tustison, H. Hamedani, S. Na, M. Pourfathi, S. Siddiqui, F. Amzajerjian, N. Meeder, I. Duncan, L. Loza, R. Baron, A. Roberts, J. Ehrich, H. Profka, S. Kadlecck, J. Gee, B.P. Kavanagh, R.R. Rizi, Philadelphia, PA, p.A4476

11:00 Xenon-Enhanced CT for Measurement of Regional Gas Transport During Oscillatory Ventilation/J. Herrmann, J.M. Reinhardt, E.A. Hoffman, D.W. Kaczka, Iowa City, IA, p.A4477

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

C21 ALVEOLAR MACROPHAGE DIVERSITY IN LUNG INJURY AND REPAIR

**9:15 a.m. - 11:15 a.m. MARRIOTT MARQUIS SAN DIEGO MARINA
Grand Ballroom 11-13 (North Tower, Lobby Level)**

Abstract Summaries 9:15-9:45

Viewing/Discussion 9:45-11:15

Chairing: G.S. Budinger, MD, Chicago, IL
A. Lam, MD, Chicago, IL
W.J. Janssen, MD, Denver, CO

801 Alveolar Macrophage Numbers Are Decreased During Acute S. Pneumoniae Pneumonia, and Are Repopulated by Both Lung and Bone Marrow-Derived Cells During Recovery/O.K. Giddings, W.J. Brickey, J.R. Martin, J.C. Gomez, J.C. Gomez, C.M. Doerschuk, Chapel Hill, NC, p.A4478

802 Resveratrol Suppresses Ly6C+ Subtype Macrophages in a Mouse Model with Acute Lung Injury/Z. Jiang, L. Li, L. Zhu, Shanghai, China, p.A4479

803 Single Cell Analysis of Disease-Associated Macrophages in Lung Fibrosis/A. Looney, D. Aran, L. Liu, A. Hsu, V. Fong, D. Sheppard, A. Abate, A. Butte, M. Bhattacharya, San Francisco, CA, p.A4480

804 The Role of TLR Signalling Regulating Collagen Degradation by Macrophages in Pulmonary Fibrosis/B. Hay, B. Reader, J.W. Christman, M.N. Ballinger, Columbus, OH, p.A4481

805 Role of Macrophage Migration Inhibitory Factor (MIF) in Post-Influenza Bacterial Pneumonia/J.L. Koff, S. Roberts, Y. Sun, M. Piecychna, L. Leng, B.M. Juan Guardela, A. Mulenios, F. Ahangari, N. Kaminski, R. Bucala, New Haven, CT, p.A4482

806 Macrophage Subpopulations in Murine Lungs Have Distinct Gene Expression Profiles and Show Differential Responses to Chronic Cigarette Smoke In Vivo/M. Engle, J. Dow, L.T. Randall, S.N. Ahmed, M. Lemma, H. Dang, J.S. Parker, C.M. Doerschuk, Chapel Hill, NC, p.A4483

807 TREK1 Deficiency Abrogates LPS-Induced Alveolar Macrophage Inflammasome Priming and Activation/C.N. Immanuel, B. Teng, B. Dong, J. Kennedy, J. Tatum, C. Luellen, E.A. Fitzpatrick, S. Cormier, A. Schwingshackl, C.M. Waters, Memphis, TN, p.A4484

808 Proteomic Analysis of Rat Alveolar Macrophage-Derived Microvesicles Using Tandem Mass Tag Isobaric Labeling/D. Claar, S.H. Wettlaufer, V. Basrur, M. Peters-Golden, Ann Arbor, MI, p.A4485

809 Apoptotic Cell Engulfment Triggers Anti-Inflammatory Metabolic Reprogramming of Macrophages/A. McCubbrey, P.M. Henson, W.J. Janssen, Denver, CO, p.A4486

- 810 Distinctive Actions of Colony-Stimulating Factors on Proliferation and Activation of Two Main Pulmonary Macrophage Populations/** C. Draijer, R. Penke, M. Peters-Golden, Ann Arbor, MI, p.A4487
- 811 Reactive Oxygen Species Enhance Suppressor of Cytokine Signaling 3 Packaging into Alveolar Macrophage-Derived Microvesicles/M.D. Haggadone, P. Mancuso, J. Bazzill, J.J. Moon, M. Peters-Golden, Ann Arbor, MI, p.A4488**
- 812 Effect of Galectin-3 on Macrophage Efferocytosis in Asthma/K. Pabreja, M. Erriah, K.J. Baines, M. Fricker, A. Karlsson, J. Bylund, L.E. Donnelly, J.L. Simpson, Newcastle, Australia, p.A4489**
- 813 Macrophage Regulation of Collagen and Alpha-Smooth Muscle Actin in Fibroblasts in the setting of Pulmonary Fibrosis/S. Sethuraman, B. Reader, J.W. Christman, M.N. Ballinger, Columbus, OH, p.A4490**
- 814 Sex Differences and STAT6-Dependent Regulation of IL-33 Induced Eosinophilic Airway Inflammation and Alternatively Activated Macrophage Differentiation/H. Zhao, V. Moarbes, H. Aldossary, K. Restori, V. Gaudreault, J. Shan, E.D. Fixman, Montreal, Canada, p.A4491**
- 815 The NLRP3 Inflammasome and IL-1 β Pathway Have a Pivotal Role in Granuloma Formation of Sarcoidosis/A. Prasse, P. Engelhard, L. Plappert, V. Hornung, F. Bauernfeind, B. Jäger, Hannover, Germany, p.A4492**
- 816 Clusterin Modulates the Recruitment and Function of Lung Macrophages/K. Bernard, Y. Wang, N.J. Logsdon, D. Kurundkar, J.S. Deshane, V.J. Thannickal, Birmingham, AL, p.A4493**
- 817 Single Cell Analysis to Identify Macrophage Phenotype and Function in COPD/S. Vasudevan, J.J. Vasquez, W. Chen, S. Zeng, E. Niemi, C. Wozniak, A. Hill, M. Julien, B. Trinh, S. Pribyl, J. Gustafson, M. Arjomandi, San Francisco, CA, p.A4494**
- 818 Phagocytic Function of Different Lung Macrophage Phenotypes in COPD/K. Yamasaki, D. Ngan, S.W. Ra, F.S. Leitao Filho, H. Kim, Y.J. Cho, J. Leung, S.-F. Man, D. Sin, S. van Eeden, Vancouver, Canada, p.A4495**
- 819 Novel Role for the BK Channel in Macrophage Phagocytosis/** M.P. Goldklang, T. Jean-Louis, J. Chen, A. Gerber, K. Stearns, T. Zelonina, S. Marx, J.M. D'Armiento, New York, NY, p.A4496
- 820 Single-cell RNA Sequencing Identifies Two New Subpopulations of Alveolar Macrophages Following Acute Lung Injury/K. Mould, N. Jackson, M.A. Seibold, W.J. Janssen, Denver, CO, p.A4497**
- Chairing:** W.G. Carlos, MD, MSCR, Indianapolis, IN
R. Adamson, MBBS, Seattle, WA
J.B. Richards, MD, MA, Boston, MA
- 401 An Innovative, Evidence-Based, Fellow-Driven Bundle to Improve Professional Satisfaction and Wellness/S. Callahan, K.B. Enfield, J. Sturek, R. Richard, G. Lyles, C. Etelvari, S. Kilbourne, E. Davis, Charlottesville, VA, p.A4498**
- 402 Incorporating Medical Sociologist Interviews (MSI) to Evaluate Efficacy of Wellbeing Interventions in Surgical Intensive Care Unit (ICU) Fellow Training - A Pilot Study at a Tertiary Academic Care Center/C.L. Russell, C. Barshied, V. Danhakl, V.K. Moitra, G. Gallos, New York, NY, p.A4499**
- 403 Interventions to Reduce Burnout Within Pulmonary Critical Care Medicine Fellowship Training Programs: One Institution's Experience/J.K. Heath, K. Patel, M.P. Kerlin, O. Tomescu, M. Kreider, Philadelphia, PA, p.A4500**
- 404 Cultivating Compassion to Lessen Burnout: The Implementation of an Intensive Care Unit (ICU) Follow Up Conference to Encourage Reflection on ICU Survivors/J.S. Deters, M.M. Hayes, G. Huang, J.W. Weiss, J.I. McSparron, Boston, MA, p.A4501**
- 405 Identification of Gender-Based Linguistic Differences Within Trainee Evaluations of Faculty Using Natural Language Processing Techniques/J.K. Heath, G.E. Weissman, C. Baston, J. Bittner, C.J. Dine, Philadelphia, PA, p.A4502**
- 406 Development of a Multidisciplinary Consensus-Based Focused Cardiac Ultrasound Assessment Tool/R. Adamson, A.E. Morris, J.S. Woan, I.W.Y. Ma, D. Schnobrich, N.J. Soni, Seattle, WA, p.A4503**
- 407 Attitudes and Perceptions of Medical Trainees Towards an Electronic Medical Alert System for Sepsis/K. Swenson, J. Ferguson, L. Shieh, A. Rogers, Stanford, CA, p.A4504**
- 408 Creation, Implementation and Evaluation of a Novel "Flipped Classroom" Approach to ICU Intern Bootcamp/L. Santhosh, A.D. Gomez, San Francisco, CA, p.A4505**
- 409 The Effectiveness of Structured Echocardiography Simulation Training for Internal Medicine Residents/A. Alsaad, S. Davuluri, L. Simon, M. Maniaci, Jacksonville, FL, p.A4506**
- 410 corECMO: e-Learning Within a Multimodality ECMO Curriculum for Critical Care Fellows/J. Badulak, P. Sanchez, A. Luks, M. Plourde, B. Coruh, Seattle, WA, p.A4507**
- 411 Mapping Content of a Clinical Case Conference to Published Curricular Blueprints and Milestones/B. Block, L. Santhosh, L.E. Leard, San Francisco, CA, p.A4508**
- 412 Taking Off the Training Wheels: Moonlighting in Pulmonary and Critical Care Fellowship/J. Town, M.R. Tonelli, Seattle, WA, p.A4509**
- 413 Expanding Training Opportunities in Patient Safety for Pulmonary and Critical Care Fellows Through a Multispecialty Graduate Medical Education Curriculum/A. Neumeier, A. Levy, E. Gottenborg, R. Pierce, D. Tad-y, Aurora, CO, p.A4510**
- 414 A Study of ICU Rounding Artifacts after the Implementation of a Standardized ICU Note Template/P. Liu, B. Arthurs, A. Bhushan, S.A. Nonas, J.A. Gold, K. Artis, Portland, OR, p.A4511**

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

C22 ENHANCING PROVIDER WELL-BEING, COMPETENCY, AND COMMUNICATION SKILLS: HIGHLIGHTS OF MEDICAL EDUCATION RESEARCH

9:15 a.m. - 11:15 a.m. SAN DIEGO CONVENTION CENTER

Room 11 A-B (Upper Level)

Abstract Summaries 9:15-9:45
Viewing/Discussion 9:45-11:15

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- 415 **Comparison of Structure, Process, and Outcomes of ICU-Ward Handoffs: A Multi-Site Study/L. Santhosh, J.C. Rojas, P. Lyons, V. Arora, San Francisco, CA, p.A4512**
- 416 **Resident Perceptions of Handoff Communication and Adverse Events After ICU-Ward Transfer: A Multicenter Survey/P. Lyons, L. Santhosh, J.C. Rojas, V. Arora, St. Louis, MO, p.A4513**
- 417 **On the Brink of Critical Illness: Evaluating Medical Students' Approaches to Uncertainty in Critically Ill Patients/M. Soffler, A. Law, S. Boubherhan, J.I. McSparron, A. Cohen, A. Sullivan, R.M. Schwartzstein, M.M. Hayes, Boston, MA, p.A4514**
- 418 **Teaching the Intangible: Implementation of a Simulation Program to Improve Communication and Teamwork During Code Blue Responses at an Academic Medical Center/S.V. Srinivas, A. Ratwani, K. Davison, S.R. O'Brien, D.B. Jamieson, Washington, DC, p.A4515**
- 419 **Improving Resident Led Patient Care Conversations in the Medical Intensive Care Unit/G. Piscitello, H.T. Duong, W. Parker, S. Martin, J.T. Poston, Chicago, IL, p.A4516**
- 420 **Physician Competency in the Use of Choice Architecture/J. Hart, K. Yadav, S. Szymanski, A. Summer, J. Zlatev, D. Daniels, S.D. Halpern, Philadelphia, PA, p.A4517**
- 421 **Evaluating the Evidence Base for the American Thoracic Society Clinical Practice Guidelines/R.C. Schumacher, K. Deshpande, O. Nguyen, A. Makam, Dallas, TX, p.A4518**
- 422 **Is Peer Review Still Anonymous?/A.I. Ritchie, M.I. Polkey, G.C. Donaldson, J.A. Wedzicha, London, United Kingdom, p.A4519**
- 423 **Impact of Social Media on Engagement with American Thoracic Society Journals/V. Kaul, A. Alexander, N. Stewart, D. Behrens, A. Gutman, N. Dangayach, B. Geisler, C.L. Carroll, Elmhurst, NY, p.A4520**
- 203 **Outcomes and Mortality Prediction Model of Critically Ill Adults with Acute Respiratory Failure and Interstitial Lung Disease/W. Gannon, D.J. Lederer, M. Biscotti, A. Javaid, N. Patel, D. Brodie, M.D. Bacchetta, M.R. Baldwin, New York, NY, p.A4523**
- 204 **Clinical Characteristics Based on the New Criteria of Acute Exacerbation of Idiopathic Pulmonary Fibrosis Patients/T. Kishaba, Y. Nei, M. Momose, H. Nagano, S. Yamashiro, Uruma City, Japan, p.A4524**
- 205 **Exacerbations, Hospitalisations and Mortality in Patients with Idiopathic Pulmonary Fibrosis: 5-Year Follow-Up of the INSIGHTS-IPF Registry/J. Behr, M. Kreuter, A. Prasse, H.R. Wirtz, D. Pittrow, J. Klotsche, M. Claussen, C. Groh, S. Andreas, D. Skowasch, S. Geier, F.J. Meyer, C. Neurohr, H. Wilkens, L. Hagmeier, J. Kirschner, M. Schwaiblmair, T. Bahmer, S. Glaeser, M. Held, M. Frankenberger, D. Koschel, Munchen, Germany, p.A4525**
- 206 **The Effect of Season on Hospitalization and Mortality in Patients with Idiopathic Pulmonary Fibrosis Treated with Pirfenidone Versus Placebo/B. Ley, R. Raj, B. Trzaskoma, E. Morgenthien, J. Stauffer, S. Limb, J. Swigris, San Francisco, CA, p.A4526**
- 207 **Predictors of 30-Day Readmission in Patients with Idiopathic Pulmonary Fibrosis/M. Ghobrial, A. Chowdhury, J.G. Zein, Cleveland, OH, p.A4527**
- 208 **Risk Factor Evaluation of Programmed Death 1 Inhibitor Related Pneumonitis in Patients with Non-Small Cell Lung Cancer/J. Fukihara, K. Sakamoto, S. Iwano, M. Morise, N. Hashimoto, Y. Hasegawa, Nagoya, Japan, p.A4528**
- 209 **Chemotherapy-Induced Pneumonitis from a Bronchoalveolar Lavage Perspective: The Chemolung Study/C.D. Onofrei, P. Smith, R.B. Day, J. Saliba, H. Twigg, Indianapolis, IN, p.A4529**
- 210 **Immune-Related Adverse Events, Specifically Pneumonitis, with the Use of Programmed Death-1 Inhibitors/W.J. Chang, A. Dowlati, C.V. Teba, J. Kazakov, Cleveland, OH, p.A4530**
- 211 **Role of Immunosuppressive Regimen in Post-Transplant Lymphoproliferative Disorders Among Thoracic Organ Transplant Recipients/S.P. Kukrety, J.D. Parekh, R. Walters, M. Anantha Narayanan, R. Vivekanandan, Omaha, NE, p.A4531**
- 212 **Are Higher Lung Allocation Scores Associated with Post-Transplant Hospital Length of Stay?/M. Howsare, G.S. Bauldoff, A.M. Ramirez, D.R. Nunley, Louisville, KY, p.A4532**
- 213 **Predictive Utility of Lung Allocation Score for Lung Re-Transplantation Outcomes/S. Doyle, D. Hayes, W.C.L. Stewart, B.A. Whitson, J.D. Tobias, D. Tumin, Columbus, OH, p.A4533**
- 214 **Predictors and Outcomes of Acute Kidney Injury After Lung Transplantation: Single Center Experience/A. Banga, R. Kanade, M. Mohanka, S. Bollineni, J. Mullins, V. Kaza, M. Wait, F. Torres, Dallas, TX, p.A4534**
- 215 **Unexplained Macrocytosis for the Identification of Short Telomere Syndrome in Lung Transplant Referrals/D. Leone, R.K. Putman, S. Gampala-Sagar, J. Vasquez, K. Regan, N. Carmichael, L. DiGianni, G.M. Hunninghake, H.J. Goldberg, I.O. Rosas, S.Y. El-Chemaly, B.A. Raby, Boston, MA, p.A4535**

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

C23 LUNG TRANSPLANT AND ACUTE ILD

9:15 a.m. - 11:15 a.m. SAN DIEGO CONVENTION CENTER

Room 6 D (Upper Level)

Abstract Summaries 9:15-9:45
Viewing/Discussion 9:45-11:15

Chairing: B.J. Ley, MD, MS, San Francisco, CA
 S. Weigt, MD, Los Angeles, CA
 R. Raj, MD, Palo Alto, CA

- 201 **Response to Rituximab in Patients with Autoimmune Myopathies/Antisynthetase Syndrome and Interstitial Lung Disease: A Retrospective Cohort/R.B. Filho, H.S. Pinto Souza, T.N. Beder, M. Sawamura, A.F. Amaral, S.K. Shinjo, R.A. Kairalla, B.G. Baldi, Sao Paulo, Brazil, p.A4521**
- 202 **Novel Phenotypic Clusters Predict Hospitalization Risk in Patients with Interstitial Lung Disease/A.O. Adegunsoye, J. Oldham, J.H. Chung, S. Montner, C. Lee, D. Stahlbaum, R.S. Bermea, S. Hsu, A. Husain, I. Noth, R. Vij, M.E. Streck, M.M. Churpek, Chicago, IL, p.A4522**

TUESDAY MORNING

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- 216 Acute Kidney Injury Risk Factors and Outcomes After Lung Transplantation Are Independent of Primary Graft Dysfunction/M.G.S. Shashaty, C.M. Forker, Q. Wu, W. Yang, M. Oyster, M. Porteous, E.I. Cantu, J.M. Diamond, J.D. Christie, Philadelphia, PA, p.A4536**
- 217 Double Versus Single Listing Preference and “Intention-to-Treat” Survival in the United States/A. Tabah, M.R. Anderson, A. RoyChoudhury, D.J. Lederer, New York, NY, p.A4537**
- 218 Mesenchymal Cells Cultured from Bronchoalveolar Lavage Are Associated with Decreased Survival in Restrictive Allograft Syndrome/M.P. Combs, M. Xia, D.S. Wheeler, N.M. Walker, S. Murray, V.N. Lama, Ann Arbor, MI, p.A4538**
- 219 Post-Transplant Lymphoproliferative Disorder: A Retrospective 17-Year Analysis/J.W. Whitson, L.D. Snyder, L. Zaffiri, Durham, NC, p.A4539**
- 220 Practice Patterns of Combined Lung Kidney Transplantation Among Lung Transplant Candidates with Chronic Kidney Disease/F. Woll, M. Mohanka, J. Mullins, S. Bollineni, V. Kaza, F. Torres, B. Tanriover, A. Banga, Dallas, TX, p.A4540**
- 221 Feasibility and Validity of a Home-Based Spirometry Program After Hematopoietic Stem Cell Transplantation for the Early Detection of Pulmonary Impairment/A. Sheshadri, A. Balagani, A.M. Alousi, L. Bashoura, K. Stolar, M.H. Arain, L. Noor, D.W. Blanco, A. Ortiz, N.A. Goodwin, M. Chen, L. Li, K.R. Hess, R.F. Chemaly, D.E. Ost, S.K. Peterson, R.E. Champlin, B.F. Dickey, Houston, TX, p.A4541**
- 222 Cytomegalovirus Infection Is Associated with Increased Mortality in the New Era of Antiviral Prophylaxis for Lung Transplant Recipients/G.S. Chandrarathne, H. Malhi, C. Hernandez Garcia, J. Preiksaitis, K. Halloran, J.G. Weinkauff, A. Kapasi, D.C. Lien, D. Kabbani, C. Cervera, A. Hirji, Edmonton, Canada, p.A4542**
- 223 Likelihood of Donor Utilization After Refusals Due to Donor Quality/M. Schechter, E. Singh, C. Towe, J. Steger, R. Bryant III, D.L. Morales, J. Tweddell, F. Zafar, Cincinnati, OH, p.A4543**
- 224 Recent Alcohol Use Prolongs Hospital Length of Stay Following Lung Transplant in People with Advanced Lung Disease/E.M. Lowery, C. Joyce, E.J. Kovacs, Maywood, IL, p.A4544**
- 602 Efficacy and Costs of Telehealth for the Management of COPD: A Multicenter, Randomized Controlled Trial/J.B. Soriano, F. García-Río, E. Vázquez Espinosa, J. Díaz de Atauri, L. López Yepes, R. Galera Martínez, G. Peces Barba, M.T. Pérez Warnisher, M. García Salmones, G. Segrelles, I. Ramos, J. Conforto, P. Gonzalez, S. Jafri, J. Ancochea, Madrid, Spain, p.A4546**
- 603 Tele-Health with Chronic Obstructive Pulmonary Disease (COPD)/A. Alrajeh, Y. Aldabayan, E. Pickett, S. Quaderi, M. Lipman, J. Hurst, London, United Kingdom, p.A4547**
- 604 Feasibility of Using a Novel Smartphone Application to Improve Compliance and Engagement in Chronic Obstructive Pulmonary Disease (COPD)/J.T.W. Krall, R. Alva, Greensboro, NC, p.A4548**
- 605 Natural Language Processing (NLP) to Identify Acute Exacerbations of COPD in Real Time: A Pilot Program/J.M. Wells, J.D. Osborne, J.K. Nichols, C.C. Blackburn, H. Chitkara, A. Khare, D.P. Kirkpatrick, M. Wyatt, G. Gordon, J.H. Willig, J.J. Cimino, M.T. Dransfield, Birmingham, AL, p.A4549**
- 606 Daily Measurements of Nocturnal Respiratory Rate Variability May Predict COPD Exacerbations/J.Y. So, S.P. Duffy, H. Markus, K. Rybicki, J. Dormer, A. Zaffaroni, H. Kilroy, A. Blase, B.N. Smith, V. Tauch, A.J. Criner, G.J. Criner, Philadelphia, PA, p.A4550**
- 607 Ultrasound Use in Pulmonary Consultation/R. Shah, M. Korotun, L.D. Quintero, K. Singh, S. Koenig, New Hyde Park, NY, p.A4551**
- 608 Combining Non-Contact Nocturnal Respiratory Monitoring with Respiratory Symptom Characterization to Enhance Early Detection of COPD Exacerbation/S.P. Duffy, J.Y. So, H. Markus, K. Rybicki, J. Dormer, A. Zaffaroni, H. Kilroy, A. Blase, B.N. Smith, V. Tauch, A.J. Criner, G.J. Criner, Philadelphia, PA, p.A4552**
- 609 Comparison in Clinical Outcomes Between Patients of Chronic Respiratory Disease with and Without Nocturnal Hypercapnia by Using Transcutaneous PCO₂ Monitoring/M. Nonaka, Y. Yabuuchi, H. Goto, T. Akiyama, H. Tachi, N. Arai, H. Ishikawa, K. Hyodo, K. Nemoto, Y. Miura, S. Oishi, K. Hayashihara, T. Saito, Ibaraki, Japan, p.A4553**
- 610 Can Smartphone-Based Pulse Oximeters Be Used for Monitoring Patients with Chronic Obstructive Pulmonary Disease/C. Brillante, A. Binder, J. Luo, V. Prieto-Centurion, Chicago, IL, p.A4554**
- 611 Automated Oxygen Titration and Weaning with FreeO₂ During Acute Exacerbation of COPD/F. Lellouche, P.-A. Bouchard, M. Morissette, M. Simon, E. L’her, Québec, Canada, p.A4555**
- 612 Optimization of Oxygen Titration and Weaning with FreeO₂: Update on Clinical Evaluation in More than 600 Subjects/F. Lellouche, Québec, Canada, p.A4556**
- 613 Oxygen Wristbands: A Visual Aid to Aid Safer Practice/S.J. Patel, J. Proctor, S. Walker, S. Haddad, S. Lakehal, A. Jackson, J. Marlow, S. Church, Warrington, United Kingdom, p.A4557**
- 614 Trends in Long-Acting Bronchodilator Adherence During Electronic Inhaler Monitoring/K. Alshabani, M. Smith, A. Attawy, R. Rice, X. Wang, X. Han, U.S. Hatipoglu, Cleveland, OH, p.A4558**

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

C24 NEW TECHNOLOGIES FOR MANAGING COPD

9:15 a.m. - 11:15 a.m. SAN DIEGO CONVENTION CENTER

Room 30 C-E (Upper Level)

Abstract Summaries 9:15-9:45

Viewing/Discussion 9:45-11:15

Chairing: N. Marchetti, DO, Philadelphia, PA

- 601 Telehealth Exercise Intervention Reduces COPD Readmissions/ S.P. Bhatt, J.G. Sanders, E.M. Anderson, D. Baugh, T.H. Givens, C.D. Schumann, J.M. Wells, M.M. Bamman, C.S. Bickel, J. Lowman, G.R. Cutter, S.T. Windham, M.T. Dransfield, Birmingham, AL, p.A4545**

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- 615 **Real-Time Data Collection of Rescue Inhaler Use in COPD Patients: An Important Step to Achieving the New GOLD Standard**/A.L. Miller, R.P. Bowler, M. Allinder, S. Jacobson, B. Miller, R. Tal-Singer, N. Locantore, Aurora, CO, p.A4559
- 616 **Reduction in COPD Related Healthcare Utilization with Use of Electronic Inhaler Monitoring**/K. Alshabani, M. Smith, A. Attawy, R. Rice, X. Wang, X. Han, U.S. Hatipoglu, Cleveland, OH, p.A4560
- 617 **Novel Monitoring Tools for Predicting Stable Discharge from the Emergency Department Observation Unit in Acute Exacerbation of COPD**/R. Sengupta, M. Phillips, J. Ko, T. Loftus, R.J. Panos, M.A. Zafar, Cincinnati, OH, p.A4561
- 618 **An Innovative Point of Care Tool to Implement the 2017 GOLD Report in Practice**/C. Poirier, J. Bouchard, M. Bhutani, P. Hernandez, D. Ngui, R. Tytus, Montreal, Canada, p.A4562
- 619 **Internet Health Behaviors of Patients with Chronic Obstructive Pulmonary Disease and Their Perspectives on Disease Websites**/D.A. Mahler, F. Cerasoli, L. Della, M. Rudzinski, Hanover, NH, p.A4563
- 620 **Effectiveness of the Zephyr Endobronchial Valves (EBV®) in Patients with Severe Emphysema: Clinical Outcomes From LIBERATE, a Multicenter RCT**/G.J. Criner, S. Wright, R. Sue, M.T. Dransfield, H.L. Rivas-Perez, T.A. Wiese, F.C. Sciruba, P.L. Shah, M.M. Wahidi, H. Goulart de Oliveira, B.M. Morrissey, P.F.G. Cardoso, S. Hays, A. Majid, N. Pastis, L.M. Kopas, M.A. Vollenweider, P. McFadden, M. Machuzak, D.W. Hsia, A.W. Sung, N. Jarad, M. Kornaszewska, S. Hazelrigg, G. Krishna, N.S. Shargill, D.-J. Slebos, Philadelphia, PA, p.A7752
- 621 **The EMPROVE Trial - a Randomized, Controlled Multicenter Clinical Study to Evaluate the Safety and Effectiveness of the Spiration® Valve System for Single Lobe Treatment of Severe Emphysema**/G.J. Criner, A. Delage, K.G. Voelker, Philadelphia, PA, p.A7753
- 622 **Evaluation of the Safety and Effectiveness of the Spiration Valve System for Single Lobe Treatment of Severe Emphysema in Patients with Alpha-1 Antitrypsin Deficiency**/D.K. Hogarth, A. Delage, M.A. Zgoda, M.F. Reed, Chicago, IL, p.A7754
- 702 **Structured Interprofessional Bedside Rounds Increase Engagement in a Medical Intensive Care Unit**/A. Chowdhury, C.J. Lehr, S. Gadre, H. Torbic, S. Smith, P. Rajendram, Cleveland, OH, p.A4565
- 703 **Surrogate- and Physician-Level Predictors of Physician Trust in the Intensive Care Unit**/T.E. Lincoln, P. Buddadhumaruk, R.M. Arnold, S.S. Carson, C.L. Hough, J.R. Curtis, W. Anderson, J. Steingrub, M.W. Peterson, B. Lo, M.A. Matthay, D.B. White, Pittsburgh, PA, p.A4566
- 704 **Information Sharing in the ICU: An Opportunity for Meaningful Engagement?**/D.K. Costa, E. Mosley, E.M. Boltey, T. Iwashyna, M. Manojlovich, Ann Arbor, MI, p.A4567
- 705 **Developing a Web-Based Tool to Enhance Communication and Shared Decision Making for Families of Critically Ill Patients Through User-Centered Methods**/A. Argenas, B. Myers, H. Wittman, R.M. Arnold, A.-M. Shields, P. Buddadhumaruk, C. Cox, D.B. White, Pittsburgh, PA, p.A4568
- 706 **A Multidisciplinary Team-Based Approach to Facilitate Surrogate Decision Making for Patients Requiring Prolonged Mechanical Ventilation- A Pilot Study**/J.N. Horst, J. Gerhart, R. Hunter, R.C. Shah, J.A. Greenberg, Chicago, IL, p.A4569
- 707 **"I Could See the Stress in Her Face and It Was Very Scary...": Experiences of Family Members of Patients Admitted to the Intensive Care Unit from the Acute Care Floor**/A.C. Long, M. Hobler, R.K. Sharma, R.A. Engelberg, J.R. Curtis, Seattle, WA, p.A4570
- 708 **Does Family-Reported Satisfaction Vary Between MICU Families with and Without Risk for Unmet Palliative Care Needs?**/N. Roeder, N.M. Kashyap, R. McCorkle, M.D. Siegel, K.M. Akgun, New Haven, CT, p.A4571
- 709 **Co-Designing Peer Support to Improve Critical Care Recovery: icuRESOLVE ICU Recovery Solutions Co-Led Through Survivor Engagement Study Phase 1**/K.J. Haines, C. Holdsworth, B. Macleod-Smith, S. Bates, K. Cranwell, J. Carmody, K. Schornikow, L. Henningham, B. Rasmussen, E.H. Skinner, M. Shackell, G. Searle, C. French, L. Maher, Melbourne, Australia, p.A4572
- 710 **Factors Associated with Physicians' Predictions of Long-Term Mortality of Critically Ill Patients**/B.L. Ferreyro, M.O. Harhay, S.D. Halpern, M.E. Detsky, Toronto, Canada, p.A4573
- 711 **Pre-Hospital Disability and the Serial Evaluation of the SOFA Score to Predict Hospital Outcomes in Critically Ill Adults**/R. Nair, M. Munoz, J.-T. Chen, M.N. Gong, A.A. Hope, Bronx, NY, p.A4574
- 712 **Prospective Validation of the End-of-Life Scoring-System (Ending-s) to Identify Patients at Risk for Death in the ICU**/T. Amass, G. Villa, R. McFadden, T. Walsh, A. Palmisciano, M.-E. Yeow, R. De Gaudio, S. OMahony, J.R. Curtis, M.M. Levy, Providence, RI, p.A4575
- 713 **Over-Utilization of Non-Beneficial Invasive Procedures in Critically Ill Patients**/C.K. Hwe, B. Berry, O. Stens, D.W. Chang, Torrance, CA, p.A4576
- 714 **Trends in Palliative Care Utilization and Factors Associated with Its Use in Geriatric Patients with Septic Shock: A 10-Year Analysis**/D. Pan, L.M.-Y. Chen, F. Vazquez de Lara, V. Santibanez, I. Kejo, J.P. Mathew, New York, NY, p.A4577

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

C25 CRITICAL CARE: PATIENT AND FAMILY ENGAGEMENT, ETHICS, AND PALLIATIVE CARE

9:15 a.m. - 11:15 a.m. **SAN DIEGO CONVENTION CENTER**

Room 31 A-C (Upper Level)

Abstract Summaries 9:15-9:45
Viewing/Discussion 9:45-11:15

Chairing: R.D. Stapleton, MD, PhD, Burlington, VT
 N. Hajizadeh, MD, MPH, Manhasset, NY
 D.B. White, MD, Pittsburgh, PA

701 **Climate of Care, Nursing Family Care and Family Well-Being in the Intensive Care Unit**/N.S. McAndrew, Milwaukee, WI, p.A4564

TUESDAY MORNING

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- 715 **Trends in Palliative Care Consultation Among Older Adults Who Receive Invasive Mechanical Ventilation During Hospitalization/S.L. Feder, R.A. Jean, K.M. Akgun, New Haven, CT, p.A4578**
- 716 **Variability in Rates of Do-Not-Intubate Orders in Patients with Acute Respiratory Failure: A Systematic Review/A. Mittal, A.M. Majzoub, C.C. Dobler, O. Gajic, M.E. Wilson, Rochester, MN, p.A4579**
- 717 **Predictors of Code Status Change and Palliative Care Consult in the Intensive Care Unit/H. Sharifi, J. Chen, A. Rogers, Stanford, CA, p.A4580**
- 718 **Improving Goals of Care Meetings in the Intensive Care Unit/S. Razvi, S. Rubino, B. Digiovine, Detroit, MI, p.A4581**
- 719 **A Palliative Care Model for Intensive Care Units in Low to Medium Resource Hospitals/L.D.S. Ligasaputri, E. Ruderman, R. Salgunan, E. Kavanagh, P. Gulani, Bronx, NY, p.A4582**
- 720 **Multidisciplinary Perspectives on the Withdrawal of ECMO in Anticipation of Death: A Qualitative Study/N.A. Braus, C. Jaramillo, S.H. Curtis, M.E. Wilson, E.S. DeMartino, G.J. Schears, P.S. Mueller, Rochester, MN, p.A4583**
- 721 **Effects of Temperature and Flow on Patients' Comfort During Respiratory Support by High Flow Nasal Cannula/T. Mauri, A. Galazzi, N. Corcione, E. Carlesso, L. Masciopinto, I. Adamini, F. Binda, E. Spinelli, A. Pesenti, G. Grasselli, Milan, Italy, p.A4584**
- 722 **Pregnancy as an Exception to Self-Determination: An Appraisal of US Statutes Regulating the Care of Incapacitated Pregnant Women/B.P. Sperry, C.K. Doyle, J. Chor, D.B. Kramer, D.M. Dudzinski, M. Siegler, D.P. Sulmasy, P.S. Mueller, E.S. DeMartino, Rochester, MN, p.A4585**
- 723 **Variation in Ethics Approval and Contract Execution Processes in an International Observational Study of Mechanical Ventilation Discontinuation Practices: A Nested Study/K. Burns, K. Griffin, J. Sykes, N. Zytaruk, D.J. Cook, L. Rizvi, Toronto, Canada, p.A4586**
- 724 **Use of Bundled Informed Consent in United States Academic Medical Intensive Care Units: A National Survey/A.M. Anandaiah, N.S. Ward, Boston, MA, p.A4587**
- 725 **Bundled Consent in U.S. Intensive Care Units (ICUs)/M.L. Espinosa, A. Tannenbaum, M. Kilaru, J. Stevens, M. Siegler, M.D. Howell, W.F. Parker, Chicago, IL, p.A4588**
- 301 **Early Introduction of Complementary Foods and Its Association with Food Allergy and Asthma in Nigerian Children/C.I. Ndukwu, A.C. Ayuk, J.C. Elo-Ilo, O.C. Ofiaeli, Awka, Nigeria, p.A4589**
- 302 **The Dietary Inflammatory Index and Current Wheeze Among U.S. Children and Adults/E. Forno, Y.Y. Han, N. Shivappa, M. Wirth, J. Hébert, J.C. Celedon, Pittsburgh, PA, p.A4590**
- 303 **Pattern of Allergen-Specific IgE at 2 Years- Predicts Atopic Asthma at 10 Years-of-Age in an ECHO Cohort/D.R. Ownby, S. Havstad, G. Wegienka, A.M. Levin, E.M. Zoratti, A.R. Sitarik, N.W. Lukacs, S. Lynch, H.A. Boushey, C.C. Johnson, Augusta, GA, p.A4591**
- 304 **Early Life Intestinal Metabolites Are Associated with Risk of Childhood Asthma/K. Lee-Sarwar, R.S. Kelly, J.A. Lasky-Su, R.S. Zeiger, G.T. O'Connor, M. Sandel, L.B. Bacharier, N. Laranjo, D.R. Gold, S.T. Weiss, A.A. Litonjua, Boston, MA, p.A4592**
- 305 **Effect of Maternal Asthma and Asthma Control on Risk of Asthma and Recurrent Wheeze in Offspring by Age 3 Years/H. Mirzakhani, V. Carey, R. Zeiger, L. Bacharier, G. O Connor, N. Laranjo, S. Weiss, A. Litonjua, Boston, MA, p.A4593**
- 306 **Asthma as an Outcome: Exploring Multiple Definitions across Birth Cohorts in the Children's Respiratory and Environmental Workgroup/C. Visness, T. Gebretsadik, D.J. Jackson, J.E. Gern, J. Biagini Myers, S. Havstad, R.F. Lemanske, T.V. Hartert, G.K. Khurana Hershey, E.M. Zoratti, L. Martin, C.C. Johnson, Chapel Hill, NC, p.A4594**
- 307 **Heart Rate Variability Measured Shortly After Birth Associated with Wheeze at Age 2-3 Years, Especially Among Girls/L.A. Lautenbacher, K.W. Savary, E. Arteaga-Solis, N.H. Brito, V.A. Rauh, J.D. Nugent, A.J. Elliott, M.M. Meyers, W.P. Fifer, M.S. Perzanowski, New York, NY, p.A4595**
- 308 **Estimating Wheezing Severity in Young Children Using a Latent Variable Approach with the ISAAC Wheezing Module/S. Brunwasser, T. Gebretsadik, D.R. Gold, K.N. Turi, C. Stone, Jr, J.E. Gern, T.V. Hartert, Nashville, TN, p.A4596**
- 309 **Differential Roles of Rhinovirus (RV) A and RV-C Species in Respiratory Illnesses in Early Vs. Late Childhood/Y. Bochkov, M.D. Evans, K.A. Grindle, T.E. Pappas, R.F. Lemanske, D.J. Jackson, J.E. Gern, Madison, WI, p.A4597**
- 310 **Asthma Control in Preschool Years Predicts the Likelihood of Subsequent Disease Remission/F.M. Ducharme, L. Blais, M.D. Brownell, J. Quail, A. Forget, Y. Nie, W. Li, Y. Fan, R.W. Platt, Montreal, Canada, p.A4598**
- 311 **Effect of Obesity on Incident Childhood Asthma: Results from the National PEDSnet Clinical Data Research Network/J. Lang, M. Hossain, T. Wysocki, T. Bunnell, Durham, NC, p.A4599**
- 312 **Adherence to a Mediterranean Diet Attenuates the Adverse Effect of Indoor Particulate Matter on Asthma Symptoms in Children/J. Rice, E.P. Brigham, K. Koehler, M.C. McCormack, G.B. Diette, H. Woo, C. Hanson, S. Sharma, F. Kolahdooz, N.N. Hansel, Baltimore, MD, p.A4600**
- 313 **Number of Asthma Emergency Department Visits as a Predictor of Asthma Hospitalizations in Children/S. Giangio, P. N. Barrowman, V. Bijelic, D. Radhakrishnan, Ottawa, Canada, p.A4601**

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

C26 PEDIATRIC ASTHMA: EPIDEMIOLOGY AND EPIGENETICS

9:15 a.m. - 11:15 a.m. **SAN DIEGO CONVENTION CENTER**

Room 6 E (Upper Level)

Abstract Summaries 9:15-9:45

Viewing/Discussion 9:45-11:15

Chairing: A.A. Litonjua, MD, Rochester, NY
E. Forno, MD, MPH, Pittsburgh, PA
S. Lovinsky-Desir, MD, New York, NY

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- 314 Epigenome- and Transcriptome-Wide Analyses of Childhood Atopic Asthma in Nasal Epithelium and White Blood Cells/E.** Forno, T. Wang, Y.Y. Han, N. Boutaoui, Q. Yan, E. Acosta-Perez, A. Colon-Semidey, M. Alvarez, G.J. Canino, W. Chen, J.C. Celedon, Pittsburgh, PA, p.A4602
- 315 The Nasal Methylome as Biomarker of Asthma and Airway Inflammation in Children/J.** Sordillo, A. Cardenas, S. Rifas-Shiman, B. Coull, M.-F. Hivert, P. Lai, A.A. Litonjua, D.L. DeMeo, K. Brennan, A. Baccarelli, E. Oken, D.R. Gold, Boston, MA, p.A4603
- 316 Combined Admixture Mapping and Transcriptomics Identifies a Novel Asthma Risk Locus Associated with Childhood Onset Disease in African Americans/A.M.** Levin, H. Gui, S. Xiao, M. Yao, S. Hochstadt, K. Whitehouse, D. Lanfear, R. Kumar, E.G. Burchard, L.K. Williams, Detroit, MI, p.A4604
- 317 Longitudinal Analysis of Bronchodilator Response in Asthmatics and Effect Modification of Age-Related Trends by Genotype/J.** Sordillo, J.A. Lasky-Su, M. McGeachie, K.G. Tantisira, C.H. Tsai, A. Dahlin, R.S. Kelly, A.C. Wu, Boston, MA, p.A4605
- 318 Network of Year-3 Metabolites Indicative of Early-Life Asthma/M.** McGeachie, R.S. Kelly, A.A. Litonjua, S.T. Weiss, J.A. Lasky-Su, Boston, MA, p.A4606
- 319 DNA Methylation Mediates Effect of Early-Life Chest Illness on Asthma Among Minority Children/S.** Oh, D. Hu, C. Eng, S. Huntsman, J. Liberto, P. Goddard, L. Borrell, J. Rodriguez-Santana, H.J. Farber, P. Avila, R. Kumar, E. Brigino-Buenaventura, A. Davis, M. LeNoir, K. Meade, S. Sen, F. Lurmann, W. Rodriguez-Cintron, S. Thyne, D. Serebrisky, E.G. Burchard, San Francisco, CA, p.A4607
- 320 NLRP3 and CASP1 Genetic Variants Are Associated with Increased Risk for Asthma in a Brazilian Population/C.** Figueiredo, G.A. Queiroz, R. Rios, A. Pires, H.B. Silva, V. Carneiro, R.S. Costa, S.C. Oliveira, M.L. Barreto, Salvador, Brazil, p.A4608
- 321 Circulating MicroRNA as a Predictor of Incident Asthma in Project Viva/J.** Li, A. Kho, S. Rifas, M.-F. Hivert, L. Farnam, R. Chase, S. Amr, D.R. Gold, M. McGeachie, A.A. Litonjua, K.G. Tantisira, Boston, MA, p.A4609
- 322 Prenatal and Neonatal Vitamin D Sufficiency Are Associated with Reduced Risk of Childhood Asthma/Recurrent Wheeze/M.** Lu, V.J. Carey, G.T. O'Connor, L.B. Bacharier, R.S. Zeiger, B. Hollis, A.A. Litonjua, S.T. Weiss, Boston, MA, p.A7755
- 323 Moraxella Dominates the Airway of Infants with Early Wheeze/K.M.** Klopfer, S. Ross, C. Hemmerich, J. Slaven, D. Rusch, S.D. Davis, Indianapolis, IN, p.A7756
- Chairing: B.B. Graham, MD, Aurora, CO
L.A. Shimoda, PhD, Baltimore, MD
W.M. Oldham, MD, PhD, Boston, MA
- 501 Histone Deacetylase Inhibitors Synergize with Sildenafil to Disrupt Purinergic Signaling and Stop Proliferation of Pulmonary Hypertensive Fibroblasts/A.** D'Alessandro, H. Zhang, M. Li, J.A. Reisz, S. Gehrke, S. Riddle, M. Akshay, T.M. Bull, K.L. Jones, K.C. El Kasmi, K.R. Stenmark, Aurora, CO, p.A4610
- 502 Targeting Epigenetic Regulators Is More Effective than Targeting Individual Transcription Factors in Normalizing the Persistent Activation of Vascular Cells in Pulmonary Hypertension/H.** Zhang, A. Laux, A. Flockton, M. Li, C.-J. Hu, K.R. Stenmark, Aurora, CO, p.A4611
- 503 Red Blood Cell Derived Microparticles Contribute to Development of Post-Splenectomy Pulmonary Hypertension in a Thalassaemic Murine Model/L.** Wang, J.T. Sertorio, C.F. McTiernan, T. Bachman, J. Baust, Z. Xiong, T. Kanas, J. Lee, M.T. Gladwin, Pittsburgh, PA, p.A4612
- 504 Receptor for Advanced Glycation End Products (RAGE) Regulates Metabolic Reprogramming Induced Over-Proliferation in Pulmonary Hypertension/O.** Rafikova, M.L. McBride, P.R. Langlais, R. Rafikov, Tucson, AZ, p.A4613
- 505 2-Methoxyestradiol Attenuates Hypoxia-Induced Pulmonary Hypertension Via Alterations in Hypoxia Inducible Factor α /C.K.** Docherty, M. Nilsen, L. Loughlin, M.R. MacLean, Glasgow, United Kingdom, p.A4614
- 506 Circ-012559/miR-223 Potentially Targets AIF And PARP-1 Induced Cell Death in Pulmonary Hypertension/P.** Yuan, Shanghai, China, p.A4615
- 507 MiR-212-5p Is a Potential Therapeutic Tool in Treatment of Pulmonary Hypertension/T.** Chen, M. Sun, R. Ramchandran, Q. Zhou, J.U. Raj, Chicago, IL, p.A4616
- 508 Vascular Hyaluronan Remodeling and Regulation of Lung Hyaluronidases in Hypoxic Pulmonary Hypertension/V.** Tseng, K.C. Ni, C. Prohaska, A. Trumple, A.-L. Hernandez, J. Maltzahn, R. Midura, I. Petrache, E.N. Grayck, Aurora, CO, p.A4617
- 509 TGF β , SMAD2/3 and Akt Signaling in Pulmonary Vascular Smooth Muscle Cells in Pulmonary Arterial Hypertension/T.** Kudryashova, D. Goncharov, A. Pena, A. Ray, A.N. Rode, A.N. Eichler, E.A. Goncharova, Pittsburgh, PA, p.A4618
- 510 Expression of the Tumor Suppressor WWOX in Pulmonary Artery Smooth Muscle Cells Is Lost During Hypoxia/M.T.** Gomes, S. Singla, J. Chen, R.F. Machado, Indianapolis, IN, p.A4619
- 511 In Hypoxia-Exposed Human Pulmonary Artery Smooth Muscle Cells, Loss of PTEN-Induced Kinase 1 (PINK1) Occurs Through Posttranscriptional Mechanisms and Alters the Cellular Glycolytic Phenotype/D.E.** Green, T.C. Murphy, C.M. Hart, Atlanta, GA, p.A4620
- 512 The Vascular LncRNA VELRP Defines an Epigenetic Checkpoint in Hyperproliferation of Pulmonary Arterial Smooth Muscle Cell/J.** Chen, J. Guo, J. Chen, D. Gou, Shenzhen, China, p.A4621

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

C27 BALLROOM (PH) BLITZ: BASIC BIOLOGY

9:15 a.m. - 11:15 a.m. SAN DIEGO CONVENTION CENTER

Room 28 C-E (Upper Level)

Abstract Summaries 9:15-9:45

Viewing/Discussion 9:45-11:15

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- 513 Hypoxia-Induced Pulmonary Inflammation and Remodeling Are Dependent on Perivascular-Specific Complement Activation Via the Alternative Pathway/M. Frid, A. McKeon, M. Li, T. Sullivan, H. Zhang, S. Riddle, A. Flockton, S. Kumar, K. El Kasmi, J. Laskowski, J. Thurman, K.R. Stenmark, Aurora, CO, p.A4622**
- 514 Role of Secreted Protein Acidic and Rich in Cysteine in Pulmonary Vascular Remodeling in Pulmonary Hypertension/I. Vartürk-Özcan, O. Pak, F.C. Weisel, S. Kraut, K. Quanz, J. Wilhelm, K. Schäfer, E. Morbitzer, F. Veit, W. Seeger, N. Weissmann, C. Veith, Giessen, Germany, p.A4623**
- 515 Hypoxia- and SU5416-Induced Downregulation of Nestin Causes Cell Cycle Arrest and Promotes Apoptosis in Bone Marrow Mesenchymal Stem Cells/D. Farkas, S. Hultman, K. Dandamudi, A.R. Bhagwani, L. Farkas, Richmond, VA, p.A4624**
- 516 Anti-Inflammatory Properties of Insulin Receptor Substrate Protein in Macrophages Under Hypoxic Conditions/K. Kegan, R.A. Johns, Baltimore, MD, p.A4625**
- 517 ML290, an Allosteric Relaxin-RXFP1 Agonist, Attenuates Experimental Pulmonary Hypertension/P. Yang, L.-M. Yung, C. van Deusen, G. Bocobo, T. Dinter, J. Cavallo, D. Chain, S.C. Dwyer, M. Southwood, Z. Jia, N.W. Morrell, S. Illiano, M. Ferrer, N. Southall, K.J. Wilson, J.J. Marugan, A.I. Agoulnik, P.B. Yu, Boston, MA, p.A4626**
- 518 Therapeutic Targeting of High Mobility Group Box 1 in Pulmonary Hypertension/N.M. Goldenberg, Y. Hu, A. Volchuk, G. Wei, Y. Zhao, X. Hu, K.J. Tracey, Y. Al-Abed, M. de Perrot, B.E. Steinberg, W.M. Kuebler, Toronto, Canada, p.A4627**
- 519 Apabetalone (RVX-208) Alone and in Combination with Standard of Care Improves Experimental PAH in Sugen-Hypoxia Rat Model/E. Tremblay, S. Paquet-Marceau, M.-C. Lampron, R. Jahagirdar, E. Kulikowski, S. Provencher, S. Bonnet, Quebec City, Canada, p.A4628**
- 520 Effect of Single Lung Transplantation on Native Lung Pulmonary Vascular Remodeling in Pulmonary Arterial Hypertension/A. Gibbs, J.D. Cooper, J. Robinson, R.M. Tuder, Portland, OR, p.A4629**
- 521 Human Group 2 Pulmonary Hypertension Platelets Show Increased Glycolysis and Oxygen Consumption/Q. Nguyen, C. Corey, N. Helbling, M. Simon, M.T. Gladwin, S. Shiva, Pittsburgh, PA, p.A4630**
- 522 First Identification of Krüppel-Like Factor 2 Mutation in Heritable Pulmonary Arterial Hypertension/C. Eichstaedt, J. Song, R. Rodríguez Viales, Z. Pan, N. Benjamin, C. Fischer, M. Hoepfer, S. Ulrich, K. Hinderhofer, E. Gruenig, Heidelberg, Germany, p.A4631**
- 523 Salutary Effects of Estrogen Receptor (ER)- α on the Pulmonary Vasculature in Experimental Pulmonary Hypertension (PH)/A.L. Frump, B. Yakubov, L. Zeng, M. Albrecht, A. Essex, T. Cook, A. Fisher, D. Martinez, J.L. Philip, R. Li, X. Sun, N.C. Chesler, T. Lahm, Indianapolis, IN, p.A7757**

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

C28 ROLE OF CELLULAR CROSS TALK IN LUNG HOMEOSTASIS AND AGING

9:15 a.m. - 11:15 a.m.

MARRIOTT MARQUIS SAN DIEGO MARINA

Pacific Ballroom 15-17 (North Tower, First Floor)

Abstract Summaries 9:15-9:45
Viewing/Discussion 9:45-11:15

- Chairing:** L. Hecker, PhD, Tucson, AZ
M. Bueno, PhD, Pittsburgh, PA
- 901 Structural and Functional Changes of Alveolar Type II Cells with Age and Acute Lung Injury/C. Brandenberger, C.C. von Ziegner, C. Mühlfeld, Hannover, Germany, p.A4632**
- 902 Influenza A-Induced Pneumonia Accelerates Aging Related Cognitive Decline in Mouse Models/F.J. Gonzalez, A.C. Mc Quattie-Pimentel, J. Yuan-Shih Hu, C.-I. Chen, S. Watanabe, D. Bowdish, A. Misharin, K.M. Ridge, G.S. Budinger, Chicago, IL, p.A4633**
- 903 Macrophage Migration Inhibitory Factor Protects Against Cigarette Smoke-Induced Senescence/S.-J. Kim, I.S. Bazan, P. Shan, M. Sauler, L. Leng, R. Bucala, P. Lee, New Haven, CT, p.A4634**
- 904 The Lung Microenvironment Shapes the Alveolar Macrophage Transcriptome During Aging/A.C. Mc Quattie-Pimentel, C.-I. Chen, Z. Ren, P.A. Reyfman, K.M. Ridge, H. Perlman, A. Misharin, G.S. Budinger, Chicago, IL, p.A4635**
- 905 Investigating the Consequences of Selective Inhibition of AT2 Stem Cell Activity on Lung Alveolar Maintenance/M.B. McCarra, Y. Kazadaeva, T. Desai, Stanford, CA, p.A4636**
- 906 Measuring Endoplasmic Reticulum Viscosity in Cell Models of α 1-Antitrypsin Deficiency/J. Chambers, M. Kubankova, R. Huber, P. Bond, S. Marciniak, M. Kuimova, Cambridge, United Kingdom, p.A4637**
- 907 Molecular Evidences for Antifibrotic Potentials of Nintedanib in Interstitial Lung Disease Associated with Systemic Sclerosis/T. Akter, I. Atanelishvili, A. Noguchi, L. Wollin, R.M. Silver, G.S. Bogatkevich, Charleston, SC, p.A4638**
- 908 Cell Division Cycle 7 Kinase Regulates the Cellular Basis of Collagen Degradation/M. Podolsky, D. Gupta, R. Ta, A. Ha, K. Atabai, San Francisco, CA, p.A4639**
- 909 Divergent Regulation of ATII Cell and Fibroblast Apoptosis Sensitivity by PAI-1 in Aged Mice/C. Jiang, G. Liu, J. Deshane, V.B. Antony, V.J. Thannickal, R.-M. Liu, Birmingham, AL, p.A4640**
- 910 NAD Regulation of Cellular Senescence Is Mediated by Telomerase Reverse Transcriptase Expression/T. Liu, J. Lu, B. Hu, Z. Wu, M. Harada, Y. Zhao, S.H. Phan, Ann Arbor, MI, p.A4641**
- 911 Mitochondrial 8-Oxoguanine DNA Glycosylase (mtOGG1) Mitigates Asbestos-Induced AEC Mitophagy Defects, Mitochondrial DNA Damage, Apoptosis and Lung Fibrosis/S.-J. Kim, P. Chereshe, E. Malsin, R. Jablonski, A. Yeldandi, K.M. Ridge, D.W. Kamp, Chicago, IL, p.A4642**

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- 912 PI3kinase/mTOR Inhibition Alters Global Metabolism in IPF Patients: Exploratory Biomarker Analysis from a Phase I Proof of Mechanism Study/C.B. Nanthakumar, Y. Man, A. Taylor, P.F. Mercer, R.C. Chambers, R. Marshall, P.T. Lukey, W.A. Fahy, T.M. Maher, Hertfordshire, United Kingdom, p.A4643**
- 913 Naphthalene-Based Fluorescent Probes for Glutathione and Their Applications in Living Cells and Patients with Sepsis/B. Kim, J. Yoon, J.-H. Ryu, Seoul, Korea, Republic of, p.A4644**
- 914 Absence of Zmpste24 Protects Aging Mice from the Development of Bleomycin Induced Pulmonary Fibrosis Through microRNAs Expression/M.D.J. Calyeca, R. Olmos, R. Jasso, Y.I. Balderas-Martinez, Q. Rivera, V. Maldonado, M. Gaxiola, M. Selmán, A. Pardo, Mexico City, Mexico, p.A4645**
- 915 Telomere Dysfunction in Clara Cells Leads to Airway-Centric Lung Remodeling and Fibrosis/R.P. Naikawadi, G. Green, P.J. Wolters, San Francisco, CA, p.A4646**
- 916 Idiopathic Pulmonary Fibrosis After Lung Transplantation: Shortened Telomere Length, the DNA Damage Response, and Immune Senescence/S. Winters, A. Hoji, I. Popescu, J.K. Alder, M. Armanios, J.F. McDyer, Pittsburgh, PA, p.A4647**
- 917 A High Throughput Drug Screen Identifies Glycogen Synthase Kinase (GSK)-3 β Inhibition as a Key Regulator of Lymphangiogenesis/B. Stump, Y. Cui, A. Lamattina, X. Ai, C. Priolo, M.A. Perrella, I.O. Rosas, S.Y. El-Chemaly, Boston, MA, p.A4648**
- 918 TAS-116, a Novel Heat Shock Protein 90 Inhibitor, Enhances Radiosensitivity of Lung Cancer Cells/B. Chang, M.J. Park, J.-H. Yoo, S.H. Lee, J.M. Lee, M.H. Kang, S. Han, Seoul, Korea, Republic of, p.A4649**
- 919 Molecular Analysis of ADGRF5, an Adhesion G Protein-Coupled Receptor Required for Alveolar Homeostasis/J.P. Bridges, K. Brown, A. Filuta, W. Miller, Cincinnati, OH, p.A4650**
- 920 Transcriptome Dynamics During Prenatal-to-Postnatal Lung Development in Nfe2l2 (Nrf2)-Sufficient and -Deficient Mice/H.-Y. Cho, L. DeGraff, S.R. Kleeberger, Research Triangle Park, NC, p.A4651**
- 921 Induction of Antibody Against Granulocyte/Macrophage Colony Stimulating Factor (GM-CSF) Through Repeated Inhalation of Recombinant Human GM-CSF in No Human Primates/R. Tazawa, K. Nakagaki, Y. Ito, M. Iizuka, A. Hashimoto, R. Nakano, U. Seino, T. Tanaka, A. Keiichi, S. Takeuchi, K. Nakata, Niigata, Japan, p.A4652**
- 922 Alveolar-Type I Like Cells and Alveolar Type II Cells Release ATP Differentially After Trauma Induction in an Alveolar-Capillary Barrier Model/V.E. Winkelmann, G. Fois, M. Fauler, N. Hobi, M. Huber-Lang, P. Dieltl, M. Frick, Ulm, Germany, p.A4653**
- 923 Restoration of GM-CSF Signaling and Pulmonary Macrophage Transplantation Therapy of Hereditary Pulmonary Alveolar Proteinosis Is Safe, Efficacious, and Durable in Csf2ra Deficient Mice/P.I. Arumugam, T. Suzuki, K. Shima, M. Wessendarp, Y. Ma, C. McCarthy, J. Meyer, D. Black, C. Chalk, B.C. Carey, N. Lachmann, T. Moritz, B.C. Trapnell, Cincinnati, OH, p.A4654**

924 Foundational Mapping of the Neural Circuits that Control Intrinsic Lung Function/J. Verheyden, J. Xu, T. Zhang, W. Paltzer, Y. Xu, X. Sun, La Jolla, CA, p.A4655

925 Cigarette Smoke Induced Cellular Senescence Program Gene Profile Is Independent of Aging in Mouse Model of COPD/Emphysema/K. Rashid, I.K. Sundar, D. Li, I. Rahman, Rochester, NY, p.A4656

POSTER DISCUSSION SESSION

C29 LUNG STRUCTURE AND FUNCTION: NEW INSIGHTS FROM MEASUREMENT AND MODELING

**9:15 a.m. - 11:15 a.m. MARRIOTT MARQUIS SAN DIEGO MARINA
Pacific Ballroom 24-26 (North Tower, First Floor)**

Poster Viewing 9:15-10:00

Discussion 10:00-11:15

Chairing: G.N. Maksym, PhD, Halifax, Canada
G.M. Donovan, PhD, Auckland, New Zealand
B. Suki, PhD, Boston, MA

1001 Forty Years of Reference Values for Respiratory System Impedance in Adults: 1977-2017/O. Kalchiem-Dekel, S. Hines, Baltimore, MD, p.A4657

1002 On the Three Dimensional Growth, Form and Function of the Distal Air Exchange Surfaces Within the Lung/D. Warburton, C.M. Wigfall, H.A. Pollack, D.S. Koos, D. Al Alam, G. Turcatel, W. Shi, S.E. Fraser, R. Moats, Los Angeles, CA, p.A4658

1003 Quantitative Analysis of Lung Shape and Comparison with Function in Normal Adults/S.M. Humphries, T. Brown, E.M. DeBoer, D.A. Lynch, Denver, CO, p.A4659

1004 Virtual Reality for the Characterization of Blood Vessel to Airway Geometric Relationships/M. Abdelraouf, A. Motahari, A. Jani, J. Guo, K. Iyer, A.P. Comellas, M. Saylor, R.G. Barr, B.M. Smith, E.A. Hoffman, Iowa City, IA, p.A4660

1005 Structural Adaptation in Low Altitude-Bred Deer Mice (Peromyscus maniculatus) Re-Acclimatized to High Altitude/K. Cao, D.M. Dane, H. Lu, J. Dolan, C. Thaler, P. Ravikumar, K.A. Hammond, C.C. Hsia, Dallas, TX, p.A4661

1006 Volumetric Capnography Is a Feasible and Reproducible Method to Non-Invasively Measure Airway Volume in Human Subjects with Chest Wall Strapping/H. Sajjad, M. Seymour, H. Winnike, M. Bates, M.H. Eberlein, Iowa City, IA, p.A4662

1007 Lung Size and Ventilation Heterogeneity: A Comparison of High-Frequency Oscillatory Ventilation in Neonates and Adults/J. Herrmann, M.H. Tawhai, D.W. Kaczka, Iowa City, IA, p.A4663

1008 Sacin Responds to Total Compliance Heterogeneity and Is Less Sensitive to Regionalisation than Scnd/B. Foy, D. Kay, Oxford, United Kingdom, p.A4664

1009 Healthy Lung Units Which Constrict During One Methacholine Challenge Are More Likely to Do so Again in the Next/E. Geier, I. Neuhart, R.J. Theilmann, G.K. Prisk, R.C. Sa, San Diego, CA, p.A4665

- 1010** **Repeatability, Reproducibility and Reliability of Respiratory System Impedance Assessed by Oscillometry: Effect of Cheek Support and Inappropriate Positioning of Head and Neck/U. Peters, P. Hernandez, G. Dechman, G.N. Maksym, Burlington, VT, p.A4666**
- 1011** **Temporal Data Analysis of Respiratory Impedance Measured by Forced Oscillation Technique/H. Kitaoka, M. Kuroyama, H. Hirata, T. Kijima, Tokyo, Japan, p.A4667**
- 1012** **Alveolar Mechanical Interdependence Increases Alveolar Septal Strain During Heterogeneous Alveolar Edema/B.J. Smith, J.R. Durr, K.L. Hamlington, J.H.T. Bates, M.M. Mellenthin, Aurora, CO, p.A4668**
- 1013** **Contribution of Air-Trapped Vs. Non-Air-Trapped Emphysematous Lung Regions to a Link Between CT-Based Metrics and Spirometry. SPIROMICS/A. Motahari, R.G. Barr, M.K. Han, J.D. Newell, E.R. Bleeker, A.P. Comellas, D. Couper, N.N. Hansel, R.E. Kanner, E. Kazerooni, F.J. Martinez, S.I. Rennard, P. Woodruff, J. Sieren, M. Kirby, S. Peterson, E.A. Hoffman, Iowa City, IA, p.A4669**
- 1014** **Athlete Lungs: Bigger and Better or Just Bigger?/S.R. Hopkins, K. Kubo, Y.S. Moon, C.J. Darquenne, R.J. Theilmann, La Jolla, CA, p.A4670**
- 1015** **Quantifying the Effect of Sub-resolution Ventilation Heterogeneity on Oxygen Enhanced Specific Ventilation Measurements/W. Kang, G.K. Prisk, R.C. Sa, M.H. Tawhai, K.S. Burrowes, Auckland, New Zealand, p.A4671**
- 1016** **A Systematic Analysis of Terminal Bronchiole Remodeling in COPD Patients with and Without Alpha-1 Antitrypsin Deficiency/D.M. Vasilescu, N. Tanabe, D. Kinose, S. Verleden, B. Vanaudenaerde, A.B. Phillion, J.D. Cooper, T.-L. Hackett, J.C. Hogg, Vancouver, Canada, p.A4672**
- 1017** **Pulmonary Function Parameters in Metabolic Syndrome Patients/ F. Kukhon, M. Roberts, T. Minami, C. Eaton, Pawtucket, RI, p.A4673**
- 1018** **The Effect of Manipulating Lung Volume by Chest Wall Strapping on Respiratory System Mechanics in COPD/H. Enuh, M. Takla, A. Janardhan, U. Peters, D. Chapman, K. Meehan, H. Pecott-Grimm, D.A. Kaminsky, Burlington, VT, p.A4674**
- 1019** **Compensatory Lobar Growth in Adult Rhesus Macaques (Macaca Mulatta) Following Left Pneumonectomy/K. Cao, D.M. Dane, P. Ravikumar, P.-M. Sosa, L.A. Miller, J.R. Rock, C.C. Hsia, Dallas, TX, p.A4675**
- 1020** **Lung Function in Adult Rhesus Macaques (Macaca Mulatta) Before and After Left Pneumonectomy/D. Dane, P. Ravikumar, P.-M. Sosa, L.A. Miller, J.R. Rock, C.C. Hsia, Dallas, TX, p.A4676**
- 1021** **Obstructive Sleep Apnea Is Associated with Airway Dimensions in COPD/A. Koch, H. Woo, R.H. Brown, A. Brooker, L.M. Paulin, H. Schneider, A.R. Schwartz, G.B. Diette, R.A. Wise, N.N. Hansel, N. Putcha, Baltimore, MD, p.A4677**
- 1022** **Can Quantitative Computed Tomography Differentiate Between Asthma and COPD?/M. Kirby, S. Samardzic, M. Schuhmann, J. Herth, J. Sieren, S. Wood, F.J. Herth, Coralville, IA, p.A4678**
- 1023** **Nocturnal Ventilation Defects (VDefs) in Asthma May Be Caused by Effects of Sleep and Obesity on Lung Volume and Tidal Volume/T. Winkler, Boston, MA, p.A4679**

1024 **Numerical Study of Deep Inspiration on Coupled Airway Wall and Airway Smooth Muscle/A. Rampadarath, G.M. Donovan, Auckland, New Zealand, p.A4680**

1025 **A Computational Model of Lung Tissue Mechanics Representing Physiological Heterogeneity in Density from Medical Imaging Data in Healthy Lungs/L. Parisi, H. Kumar, A.R. Clark, K.S. Burrowes, E.A. Hoffman, S.R. Hopkins, M.H. Tawhai, Auckland, New Zealand, p.A4681**

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

C30 PEERING INTO THE FUTURE OF BIOMARKERS IN LUNG CANCER

9:15 a.m. - 11:15 a.m.

SAN DIEGO CONVENTION CENTER

Room 5 A-B (Upper Level)

Abstract Summaries 9:15-9:45

Viewing/Discussion 9:45-11:15

Chairing: D. Upadhyay, MD, Fresno, CA
V.S. Nair, MSCR, MD, Tampa, FL
J. Barta, MD, Philadelphia, PA

101 **Carbon-13 Chemical Shift Imaging as a Tool for Assessing Radiation-Induced Lung Injury/L. Loza, M. Pourfathi, S. Siddiqui, S. Chatterjee, S. Kadlecek, D.C. Lim, H. Hamedani, K. Ruppert, F. Amzajerdian, Y. Xin, I. Duncan, R.R. Rizi, Philadelphia, PA, p.A4682**

102 **High CD151 Expression in Non-Small Cell Lung Cancer (NSCLC) Patients Expressing Wildtype Epidermal Growth Factor Receptor (EGFR) Is Associated with Poorer Disease Outcome/A. Wong, M.E. Nga, H.C. Wong, R. Soo, J.K. Tam, Y.C. Lim, J.E. Seet, C.Y. Chin, T. Tran, Singapore, Singapore, p.A4683**

103 **Canary (Computer Aided Nodule Analysis and Risk Yield) as a Radiologic Biomarker to Predict Tumor Response to EGFR-Targeted Therapy in Adenocarcinoma of the Lung/R. Clay, T. Johnson, B.J. Bartholmai, R. Karwoski, F. Maldonado, S. Rajagopalan, T. Peikert, Rochester, MN, p.A4684**

104 **Radiomics Evaluation of "Aggressive" Solid Lung Cancers from the National Lung Screening Trial/C.M. Kinsey, B. Tonelli, I. de La Bruere, A. Cleveland, B. Cole, J.H.T. Bates, G.R. Washko, R. San Jose Estepar, Burlington, VT, p.A4685**

105 **Genomic Profiling of Bronchoalveolar Lavage Fluid in Patients with Non-Small Cell Lung Cancer/V.S. Nair, A. Bik-Hu Li, H. Stehr, J. Chabon, A. Chaudhuri, L. Zhou, H. Naemi, K. Ayers, M. Ramsey, H.S. Bedi, R. Van Wert, A.W. Sung, N. Lui, L. Backhus, M. Berry, J.B. Shrager, A. Alizadeh, M. Diehn, Stanford, CA, p.A4686**

106 **Thyroid Transcription Factor-1 Expression Predicts the Efficacy of Bevacizumab Added on Platinum Drugs and Pemetrexed Chemotherapy in Non-Squamous Non-Small-Cell Lung Cancer/A. Takeuchi, T. Oguri, Y. Yamashita, K. Sone, S. Fukuda, O. Takakuwa, K. Maeno, T. Asano, Y. Kanemitsu, H. Ohkubo, M. Takemura, Y. Ito, A. Niimi, Nagoya, Japan, p.A4687**

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- 107 **Ratio of Carcino-Embryonic-Antigen in Serum and Pleural Fluid for the Diagnosis of Malignant Pleural Effusion/K.** Hackner, P. Errhalt, S. Handzhiev, Krems, Austria, p.A4688
- 108 **Tumor-Regional Immunosuppression Correlates with Pathologic Stage and Primary Tumor Characteristics in Non-Small Cell Lung Cancer/V.** Murthy, D.P. Katzman, K. Mangalick, J.-C.J. Tsay, J.L. Bessich, G.C. Michaud, J. Minehart, M.A. Curotto De Lafaille, C. Goparaju, H. Pass, D.H. Sterman, New York, NY, p.A4689
- 109 **Evaluation of Programmed Death-Ligand 1 (PD-L1) Immunohistochemical Expression in Cytology Cell Block Preparations/A.** Hernandez, T.C. Brandler, A. Moreira, N. Schatz-Siemers, A. Simsir, New York, NY, p.A4690
- 110 **Epidermal Growth Factor Receptor Expression (EGFR) in Serum as a Marker of Treatment Response and Survival in Advanced Squamous Cell Lung Cancer/A.** Mohan, A. Ansari, M. Masroor, A. Saxena, K. Luthra, R.M. Pandey, D. Jain, R. Kumar, G.C. Khilnani, R. Guleria, New Delhi, India, p.A4691
- 111 **Procathepsin D as a Diagnostic Marker in Differentiating Malignant Pleural Effusion from Parapneumonic Effusion or Tuberculous Pleural Effusion/C.Y.** Lee, Chuncheon, Korea, Republic of, p.A4692
- 112 **Soluble Programed Death Receptor 1 Ligand (sPD-L1) in Pleural Fluid of Patients with Malignant Pleural Mesothelioma (MPM)/A.** McCambridge, V. Van Keulen, T. Peikert, Rochester, MN, p.A4693
- 113 **Characteristics of Genomic Alterations of Lung Adenocarcinoma in Young Never-Smokers/W.** Luo, Chengdu, China, p.A4694
- 114 **Deep Learning Based Risk Stratification of Patients with Suspicious Nodules/T.** Kadir, C. Arteta, L. Pickup, J. Declerck, P.P. Massion, Oxford, United Kingdom, p.A4695
- 115 **FOXP3 Serum Concentrations in Subjects with Lung Adenocarcinoma, Lung Squamous Cell Carcinoma, and High Risk Smokers/V.** Chiang, M.H. Lee, T.-A. Yie, W.N. Rom, J.-C.J. Tsay, New York, NY, p.A4696
- 116 **Further Interrogation of an Exhaled MicroRNA Panel for Lung Cancer Risk Assessment/S.D.** Spivack, M. Shi, W. Han, M. Aldabagh, D. Patel, J.B. Dobkin, C. Shah, D. Hosgood, K. Pradhan, K. Ye, Bronx, NY, p.A4697
- 117 **Novel Magnetic Resonance Imaging Methodology for the Volumetric Assessment of Malignant Pleural Mesothelioma/S.** Tsim, G.W. Cowell, R. Woodward, L. Alexander, C. Kelly, J.E. Foster, K.G. Blyth, Glasgow, United Kingdom, p.A4698
- 118 **Clinical, Radiographic and Bronchoalveolar Lavage Fluid Characteristics of Checkpoint Inhibitor Pneumonitis in Non-Small Cell Lung Cancer Patients Receiving Immune Checkpoint Immunotherapy/K.** Suresh, R. Voong, Q. Zhong, D. Ettinger, K. Marrone, R. Kelly, C. Hann, B. Levy, J. Feliciano, J. Brahmner, P. Forde, D.J. Feller-Kopman, A.D. Lerner, H.J. Lee, L.B. Yarmus, S.K. Danoff, F.R. D'Alessio, J. Naidoo, Baltimore, MD, p.A7758

THEMATIC POSTER SESSION

C31 MECHANISTIC INSIGHTS INTO LUNG INFECTION

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area K (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: R. Zemans, MD, Ann Arbor, MI

- P1131 **IL-9 Deficiency Promotes Th17 Response in a Murine Model of Pneumocystis Pneumonia/T.** Li, Z.-H. Tong, Beijing, China, p.A4699
- P1132 **The Defenders of the Alveolus: A Study of ATII Simple Cell and Complex Cultures Using Ex Vivo Precision Cut Lung Slices from Human and Mouse/D.** Yan, C. Mwase, Y. Rai, S. Daya, K. Feldman, T. Chen, M. Dowling, C. Bauer, Calgary, Canada, p.A4700
- P1133 **Glucocorticoid-Augmented Efferocytosis Reduces Pneumococcal Killing by Human Alveolar Macrophages by Blocking Phagosome Acidification/M.** Bates, V.R. Stolberg, C.M. Freeman, M.R. Kady, H. Alikaj, L. McCloskey, J.L. Curtis, Ann Arbor, MI, p.A4701
- P1134 **Multi Drug Resistant Acinetobacter Baumanni Adapt to the Lung by Suppressing Inflammation Activation/S.** Gill, A.S. Prince, A.-C. Uhlemann, New York, NY, p.A4702
- P1135 **Inhibiting Protein Kinase D3 Protects Against Viral Respiratory Infection by Altering Epithelial Antiviral and Pro-Inflammatory Responses/J.** Veazey, T. Chapman, S. Hillman, T. Smyth, Z. Knowlden, S.N. Georas, Rochester, NY, p.A4703
- P1136 **A Physiological Relevant Rhinovirus Infection Model in Differentiated Human Primary Bronchial Epithelial Cells from Healthy, Asthmatic and COPD Donors/P.C.** Veerati, A. Reid, K. Nichol, L. Ngan, W. Teresa, P.A. Wark, D.A. Knight, C.L. Grainge, N.W. Bartlett, New Lambton Heights, Australia, p.A4704
- P1137 **Aspergillus Fumigatus Antigens Induce Distinct Antibody and Chemokine Responses in Human B Lymphocytes Using mTOR Dependent and Independent Pathways/M.** Ali, H. Dasari, E.M. Carmona, Rochester, MN, p.A4705
- P1138 **The E3 Ubiquitin Ligase MARCH8 Degrades the Interferon Gamma Receptor/J.D.** Londino, L.S. Masa, R.K. Mallampalli, Pittsburgh, PA, p.A4706
- Facilitator: D.N. O'Dwyer, PhD, Ann Arbor, MI
- P1139 **Human Nasal Challenge with TLR7/8 Agonist Resiquimod (R848) Induces Mucosal Interferon- α , with Increased Responsiveness in Asthmatic Volunteers/A.** Jha, R.S. Thwaites, T. Tunstall, O.M. Kon, R.J. Shattock, P.J. Openshaw, T.T. Hansel, London, United Kingdom, p.A4707

- P1140** **Characterizing Relationships Between Pneumoproteins of Systemic Inflammation and Pulmonary Function Outcomes in an HIV+ Cohort**/D. Jeon, E.G. Chang, M. McGing, M. Hartman-Filson, M. Sommers, J.R. Balmes, D. Moisi, M. Lederman, K. Madsen, L. Huang, Berkeley, CA, p.A4708
- P1141** **Association Between Systemic Inflammation and Lung Dysfunction in HIV-Infected Individuals**/S. Qin, L. Vodovotz, S.M. Nouraie, M. Fitzpatrick, C.J. Kessinger, L. Kingsley, K.A. Crothers, L. Huang, A.M. Morris, Pittsburgh, PA, p.A4709
- P1142** **Transcriptome-Wide Specifically Expressed Genes and Cell Types for Pneumonia in Uk Biobank**/Z. Zhu, L. Su, D.C. Christiani, Boston, MA, p.A4710
- P1143** **Sequencing Vapor - Differentiating Something from Nothing When Sequencing Ultra Low-Biomass Samples**/J. Erb-Downward, N.R. Falkowski, R.A. McDonald, J.L. Curtis, B. Foxman, J.C. D'Souza, S. Adar, Ann Arbor, MI, p.A4711
- P1144** **Initiation of Antiretroviral Therapy Is Associated with Altered Levels of Circulating Inflammation Biomarkers in HIV-Infected Individuals**/L. Vodovotz, S.M. Nouraie, M. Fitzpatrick, L. Huang, M. Hartman-Filson, M. McGing, M. Sommers, C.J. Kessinger, A.M. Morris, S. Qin, Pittsburgh, PA, p.A4712
- P1145** **Assessment of Th17 Pathway and Association with Lung Function in HIV-Infected Individuals Initiating Antiretroviral Therapy**/L. Vodovotz, S.M. Nouraie, M. Fitzpatrick, L. Huang, M. Hartman-Filson, M. McGing, M. Sommers, C.J. Kessinger, A.M. Morris, S. Qin, Pittsburgh, PA, p.A4713
- P1146** **Chemical Conjugation of Toll-Like Receptor 7 Agonist to Whole Cell Bacteria: A Novel Vaccine Strategy for Promoting T Cell Immunity**/S. Gautam, T. Kim, L. Sharma, R. Luthra, D. Deep, A.J. Losier, C. Dela Cruz, D.A. Spiegel, New Haven, CT, p.A4714
- Facilitator:** I. Vadasz, MD, Giessen, Germany
- P1147** **Enhanced Interferon Response Genes in Bronchial Epithelial Cells After In Vivo Rhinovirus Challenge of Asthma Patients**/A. Ravi, J. Koster, A. Dijkhuis, Y.S. Sabogal Piñeros, S. Bal, P.J. Sterk, R. Lutter, Amsterdam, Netherlands, p.A4715
- P1148** **Altered Glycosylation Repurposes the Role of Alpha-1 Antitrypsin During Resolution of Pneumonia**/D.M. Dunlea, O.J. McElvaney, M.M. White, N. Lacey, E.P. Reeves, G. McElvaney, Dublin, Ireland, p.A4716
- P1149** **The Interplay Between Neutrophils and Alveolar Epithelial Cells in IL-26 Production: A Role in Bronchiolitis Pathogenesis**/E.C. Cavallaro, T. Bouchier, K.-K. Liang, K. Forsyth, D.-L. Dixon, Bedford Park, Australia, p.A4717
- P1150** **The SP-R210 Isoforms of the Myosin 18A SP-A Receptor Mediate Influenza A Virus Infection with Distinct Biological Outcomes in Macrophages**/Y. Chen, S. Hu, T.M. Umstead, E. Yau, Z.C. Chronos, Hershey, PA, p.A4718
- P1151** **Bacterial Determinants of Methicillin-Resistant Staphylococcus Aureus in Post-Influenza Pneumonia**/J.A. Grousd, K.J. McHugh, A.R. Richardson, V.S. Cooper, J.F. Alcorn, Pittsburgh, PA, p.A4719
- P1152** **Rhinovirus C Infection in Swine Respiratory Explant Cultures**/W.Y. Chan, Q. Tian, K.P. Tao, H.Y. Tsui, T.J.T. Li, T.F. Leung, Hong Kong, Hong Kong, p.A4720
- P1153** **Mucosal Genetic Delivery of Anti-Respiratory Syncytial Virus (RSV) Antibody by Non-Human Primate-Based Adenoviral Vector to Provide Protection Against RSV Pulmonary Infection**/R. Gomi, A. Sharma, W. Wu, S. Worgall, New York, NY, p.A4721
- P1154** **Quantification of Mitochondrial DNA in Cell-Free Plasma Isolated from Massively Transfused Trauma Patients**/R.J. Langley, V. Pastukh, C.M. Francis, Y. Tan, D.J. Dinwiddie, J.D. Simmons, M.N. Gillespie, Mobile, AL, p.A4722
- Facilitator:** Y. Aschner, MD, Aurora, CO
- P1155** **Lung-Localized B Cells Mediate Heterotypic Immunity Against Pneumococcal Pneumonia**/K. Barker, N. Stauffer, G.A. Wasserman, E. Lipsitz, I. Martin, M.R. Jones, L.J. Quinton, J.P. Mizgerd, Boston, MA, p.A4723
- P1156** **Surfactant Protein A Leads to Monocytes Differentiation Through Activation of Cytoskeletal Signaling**/R. Takamiya, M. Murata, S. Ariki, A. Saito, N. Sawada, M. Takahashi, Y. Kuroki, Sapporo, Hokkaido, Japan, p.A4724
- P1157** **Hyperpolarized ¹²⁹Xe Functional MR Imaging to Monitor the Response of Human Lungs After Segmental Lipopolysaccharide Challenge**/A.L. Kern, H. Biller, F. Klimes, A. Voskrebenezov, M. Gutberlet, A. Rotärmel, C. Schönfeld, J. Renne, O. Holz, F. Wacker, J. Vogel-Claussen, J.M. Hohlfeld, Hannover, Germany, p.A4725
- P1158** **Regulation of IFN-λ Expression by IL-17A in Human Airway Epithelial Cells**/M. Niwa, T. Fujisawa, K. Yamanaka, K. Mori, M. Maekawa, H. Yasui, M. Karayama, H. Hozumi, Y. Suzuki, K. Furuhashi, N. Enomoto, Y. Nakamura, N. Inui, T. Suda, Hamamatsu, Japan, p.A4726
- P1159** **Chromatin Immunoprecipitation (ChIP) Sequencing Identifies a Potential Role of SP-R210 in Regulating Cellular Metabolism and Trafficking Genes in Macrophages**/E. Yau, Y. Chen, A. Salzberg, Y.I. Kawasawa, C. Song, Z.C. Chronos, Hershey, PA, p.A4727
- P1160** **Surfactant Protein A1: Effects on the Toponome of the Mouse Alveolar Macrophage**/P1160 Surfactant Protein A1: Effects on the Toponome of the Mouse Alveolar Macrophage/D.S. Phelps, X. Zhang, D. Shearer, J. Weisz, J. Floros, Hershey, PA, p.A4728
- P1161** **ABM125 Anti-IL-25 Antibody Pre-Clinical Development for Viral Asthma Exacerbations Identifies IL-25 Mediated Regulation of Type-2- and Anti-Viral Immunity**/N. Bartlett, J. Girkin, T. Williams, T. Vincent, C. Jackson, K. Alton, R. Shimkets, Newcastle, Australia, p.A7759
- P1162** **An IFITM3 SNP Associated with Influenza Severity Found to Affect Chromatin Interactions**/E.K. Allen, D.J. Downes, J.R. Hughes, P.G. Thomas, Memphis, TN, p.A7760

THEMATIC POSTER SESSION

C32 LUNG TRANSPLANTATION: CLINICAL STUDIES9:15 a.m. - 4:15 p.m. **SAN DIEGO CONVENTION CENTER**

Area H (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.**Discussion:** 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators**Facilitator:** C.M. Lin, MD, Gainesville, FL**P849 Quantitative CT and Parametric Response Mapping Analysis for the Assessment and Monitoring of Bronchiolitis Obliterans Syndrome/M. Marmor, K. Lai, H.H. Guo, T. Brondstetter, J.L. Hsu, Stanford, CA, p.A4729****P850 Plastic Bronchitis in an Adult Lung Transplant Patient with Refractory Donor-Related Asthma/S. Savajiyani, N. Shamsid-Deen, R. Alalawi, R. Saggat, T.N. Hodges, Phoenix, AZ, p.A4730****P851 Calcineurin-Inhibition Drives IL13 and IL5 Production in Differentiating and Memory T Cells in a Ca⁺⁺-Dependent Manner/U. Gehrman, K. Bjorhall, J. Jirholt, Mólndal, Sweden, p.A4731****P852 Gene Expression Profiling of Lung Transplant Patients Using Next-Generation Sequencing to Identify Biomarkers for Chronic Lung Allograft Dysfunction/A. Ferguson, C. Isella, W. Chen, Z. Sun, R. Lafyatis, K. Chen, J.F. McDyer, Pittsburgh, PA, p.A4732****P853 Estradiol Modulation of Brain Death Effects on Heart Tissue in Female Rats/R. Armstrong Junior, F.Y. Ricardo-da-Silva, L.J.L. Basilio, M.S. Vidal, P. Sannomiya, L.F.P. Moreira, A.C. Breithaupt-Faloppa, Sao Paulo, Brazil, p.A4733****P854 Positive Therapeutic Effect of Estradiol on Lung Inflammation in Brain Dead Female Rats/F. Yamamoto Ricardo da Silva, R. Armstrong Junior, M. Vidal-dos-Santos, P. Sannomiya, L.F.P. Moreira, A.C. Breithaupt-Faloppa, Sao Paulo, Brazil, p.A4734****P855 Tacrolimus Suppression of Gene Expression Identifies Infection Risk in Lung Allograft Recipients/J.R. Greenland, T. Chong, A.S. Wang, E. Martinez, P. Shrestha, J. Kukreja, S. Hays, J.A. Golden, J.P. Singer, Q. Tang, San Francisco, CA, p.A4735****Facilitator:** J.F. McDyer, MD, Pittsburgh, PA**P856 Immune Cell Reconstitution Over One Year Following Induction Immunosuppression with Alemtuzumab in Lung Transplantation/M. Patel, S. Krishnan, E. Lushin, C.A. Hage, Indianapolis, IN, p.A4736****P857 Influenza Vaccination and de novo Donor Specific Antibody (DSA) in Lung Transplant Recipient: Is There a Causal Relationship?/T. Thaniyavarn, L.D. Snyder, H.A. Ali, Durham, NC, p.A4737****P858 Endothelial HIF-2 α Maintains Airway Microvasculature Through Angiopoietin-1/TIE2 Signaling/A. Tu, X. Jiang, W. Tian, M.R. Nicolls, Palo Alto, CA, p.A4738****P859 The Dynamics of Lung Microbial Communities in Lung Transplant Recipients with Acute Rejection/S. Bhorade, K. Chhabria, V. Poroyko, W. Zhang, M. Masihi, A. Ansari, E. Marrow, J.E. Dematte, Chicago, IL, p.A4739****P860 Gene Expression Profiling of BAL Cells and PBMC During Lung Allograft Acute Cellular Rejection/S. Weigt, X. Wang, V. Palchevskiy, N.D. Patel, D.J. Ross, Y.M. Shino, J.M. Reynolds, P. Shah, L.G. Singer, M.M. Budev, S.M. Palmer, J.A. Belperio, Los Angeles, CA, p.A4740****P861 Systemic Treg Levels Are Associated with Functional Treg Differences and Correlate with the Immunological Risk in Lung Transplant Recipients/G. Preissler, E. Noessner, G. Warnecke, A.-K. Knoefel, R. Schramm, R. Hatz, A. Haverich, N. Strobl, Munich, Germany, p.A7761****P862 Aspiration of Gastrointestinal Material Induces Fibronectin Promoter Luciferase Activity: Implications for Early Airway Remodeling in the Allografts of Lung Transplant Recipients/J. Gualdoni, J. Ritzenthaler, I. Elkhawas, G.S. Bauldoff, D.R. Nunley, J. Roman, Louisville, KY, p.A7762**

THEMATIC POSTER SESSION

C33 SEPSIS: CELLULAR STUDIES9:15 a.m. - 4:15 p.m. **SAN DIEGO CONVENTION CENTER**

Area D (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.**Discussion:** 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators**Facilitator:** I.S. Douglas, MD, Denver, CO**P255 NF κ B RelA Activity Preserves Liver Homeostasis During Pneumonia and Sepsis/Y. Kim, E. Allen, E. Symer, M.R. Jones, J.P. Mizgerd, K. Traber, L.J. Quinton, Boston, MA, p.A4741****P256 Mesenchymal Stromal Cells Enhance IgG-Mediated Phagocytosis and Modulate Fc γ Receptor Expression and Binding Activity in Human Macrophages Partly Through Lipoxin A4/IL-10 Pathway/R. Rabani, A. Volchuk, M. Gupta, C.H. Masterson, M. Jerkic, J. Laffey, S. Grinstein, K. Szaszi, G.F. Curley, Toronto, Canada, p.A4742****P257 Lung Bacterial Clearance and Increased Myeloid Cell PD-L1 Expression Occur Earlier with a Low Versus High Dose Intra-Tracheal S. Aureus Challenge in Mice: Implications for Anti-PD-L1 Therapy with Bacterial Pneumonia/P. Torabi-Parizi, C.S. Curran, Y. Li, X. Cui, J. Sun, P.Q. Eichacker, Bethesda, MD, p.A4743****P258 Stearoyl Lysophosphatidylcholine Inhibits LPS-Induced Extracellular Release of HMGB1 Through the G2A/Calcium/CaMK β /AMPK Pathway/H.-B. Bae, J.-I. Choi, H. Quan, Gwangju, Korea, Republic of, p.A4744****P259 Effects of Peritoneal Polymicrobial Infection on Lung Innate Immunity and Therapeutic Effect of Intratracheal GM-CSF/H. Tsuyuzaki, K. Uchida, T. Hiruma, Y. Yamada, Tokyo, Japan, p.A4745***The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).*

Facilitator: B.D. Singer, MD, Chicago, IL

- P260 Pro-Inflammatory Activity of Granulocyte-Derived Microvesicles Is Potentiated by Endotoxin Pre-Stimulation/Y.** Mitsui, K.P. O Dea, T. Uchida, M. Takata, K. Wakabayashi, Tokyo, Japan, p.A4746
- P261 Very Low Density (VLDL) and Low Density Lipoproteins (LDL) Mediate the Uptake of Pathogen Lipids and Stimulate the Production of IL-1 β in THP-1 Macrophages/A.K.-K. Leung, J.A. Russell, J.H. Boyd, K.R. Walley, Vancouver, Canada, p.A4747**
- P262 Modulation of the Vascular Endothelial Inflammatory Response by Proprotein Convertase Subtilisin-Kexin Type 9 (PCSK9)/A.K.-K. Leung, G. Grzelkowsky, K. Roveran Genga, J.A. Russell, J.H. Boyd, K.R. Walley, Vancouver, Canada, p.A4748**
- P263 Human Plasma Proteome Analysis Following Endotoxin Challenge Identifies New Proteins that Contribute to Molecular Phenotype of Innate Immunity/P.** Torabi-Parizi, A. Biancotto, G. Fantoni, C. Demirkale, J.T. Guptill, M. Cohen-Wolkowicz, R.J. Noveck, A.F. Suffredini, Bethesda, MD, p.A4749

THEMATIC POSTER SESSION

C34 COPD POTPOURRI

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area L (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: B.W. Richmond, MD, PhD, Nashville, TN

- P1325 Systemic Biomarkers in Bronchiectasis Exacerbations: A Comparison Between Hospitalized and Outpatients/I.** Amara Elori, R. Méndez, S. Reyes, E. Polverino, R. Amaro, V. Alcaraz, R. Alonso, M. Suescun, A. Torres, R. Menéndez, Valencia, Spain, p.A4750
- P1326 Proteomic Profiling of Protein-Protein Interactions of Alpha-1 Antitrypsin in Plasma/A.** Dabo, E. Eden, R.F. Foronjy, P. Geraghty, Brooklyn, NY, p.A4751
- P1327 Selegiline Suppressed Cigarette Smoke-Induced Oxidative Stress and Inflammation Via MAO-B Inhibition in Rat Lung/J.C.W. Mak, Y. Cui, K.W. Liu, Y. Liang, M.S. Ip, Hong Kong, Hong Kong, p.A4752**
- P1328 Urine Biomarkers of COPD Exacerbation; A Feasibility Study/A.** Yousuf, L. Watson, G. Parekh, V. Mistry, J. Finch, S. Parker, L. Beadle, S. Glover, L. George, C.E. Brightling, Leicester, United Kingdom, p.A4753
- P1329 Interleukin-33 Receptor Expression Is Increased in Non-Atopic COPD with Eosinophilic Airway Inflammation/D.** Tworek, S. Majewski, K. Szewczyk, Z. Kurmanowska, J. Kiszalkiewicz, E. Brzezianska-Lasota, P. Górski, P. Kuna, A. Antczak, Lodz, Poland, p.A4754
- P1330 Fibroblast Growth Factor 23 Is Associated with Chronic Obstructive Pulmonary Disease Exacerbations: A Pilot Study/S.** Gulati, G.P. Urdaneta, K. Balestrini, I. Vital, M. Campos, S. Krick, Birmingham, AL, p.A4755
- P1331 Protein Phospholipid Transfer Protein and Alpha-1 Antitrypsin Regulate Neutrophil Immune Responses/S.** Nath, P.O. Ochieng, R. Macarulay, A. Dabo, E. Eden, M.A. Campos, X.-C. Jiang, R.F. Foronjy, P. Geraghty, Brooklyn, NY, p.A4756
- P1332 Quantification of Innate Lymphoid Cell Subsets in a Mouse Model of Chronic Obstructive Pulmonary Disease/E.** Blomme, S. Provoost, K.R. Bracke, G.F. Joos, G.G. Brusselle, T. Maes, Ghent, Belgium, p.A4757
- P1333 Association Between COPD Disease Severity and Levels of Systemic Inflammatory Biomarkers/S.** Gupta, S.A. Gharib, G. Matute-Bello, H.Q. Nguyen, V.S. Fan, Seattle, WA, p.A4758
- P1334 Distribution of Ac-PGP in Mice After Intratracheal Administration/X.** Xu, J. Li, L. Viera, N. Yi, J.E. Blalock, A. Gaggar, Birmingham, AL, p.A4759

Facilitator: E.S. Wan, MD, MPH, Boston, MA

- P1335 Investigation of Cigarette Smoke Oxidised Lipids on Macrophages/M.** Ween, J. Whittall, H.B. Tran, S.J. Hodge, Adelaide, Australia, p.A4760
- P1336 Pioglitazone Pre-Treatment by Gavage Attenuates Particulate Matter Induced Lung Disease/E.** Caraher, S. Haider, S. Kwon, G. Crowley, L.-C. Chen, A. Nolan, New York, NY, p.A4761
- P1337 The Role of T-Helper Type (Th1/Th2) Cytokines in Regulatory Mechanisms of Specific Conversion and Activation of CD4⁺Th1 During Inflammatory Reaction in Chronic Obstructive Pulmonary Disease (COPD)/J.L. Sun, T. Liu, Y. Yan, K.K. Huo, W.N. Zhang, H.H. Liu, Z.H. Shi, Xi'an, China, p.A4762**
- P1338 Aa-Val³⁶⁰ and Aa-Val⁵⁴¹ in Early Alpha-1 Antitrypsin Deficiency/J.** Stockley, P.R. Newby, R.A. Stockley, E. Sapey, Birmingham, United Kingdom, p.A4763
- P1339 The Relationship Between Nod-Like Receptor Family Pyrin Domain Containing 3 Inflammasome and Dopamine in the Inflammation Regulation Mechanism of Acupuncture for Chronic Obstructive Pulmonary Disease/X.** Liu, T. Fan, J. Fu, J. Guan, B. Mao, Chengdu, China, p.A4764
- P1340 Do Raised Serum Ige and Eosinophils Have an Affect on Quality of Life and Patient Related Outcome in COPD?/A.J.** Yousuf, S. Parker, J. Finch, G. Parekh, S. Glover, L. Watson, L. Beadle, C. White, C.E. Brightling, Leicester, United Kingdom, p.A4765
- P1341 Association Between Haptoglobin Phenotype and Severity of Chronic Obstructive Pulmonary Disease/P.** Lee, K.-Y. Lee, T.-M. Cheng, S.-M. Wu, P.-H. Feng, W.-T. Liu, K.-Y. Chen, H.-C. Chuang, S.-C. Ho, New Taipei City, Taiwan, p.A4766
- P1342 Quantitative 1H-Nuclear Magnetic Resonance (NMR) Metabolomics Differentiates Patients with and Without Emphysema/B.** He, W. Diao, M. Han, N. Shen, M. Lu, L. Yeomans, Z. Smiley, K. Stringer, T. Standiford, Beijing, China, p.A4767

P1343 Validation of Cell Analysis by Chipcytometry in Induced Sputum Cells/S. Carstensen, O. Holz, M. Mueller, J.M. Hohlfeld, Hannover, Germany, p.A4768

P1344 A Comprehensive Way to Rate Sputum Quality in Clinical Trials/F. Pedersen, U. Zissler, H. Watz, K.F. Rabe, J.M. Hohlfeld, O. Holz, Grosshansdorf, Germany, p.A4769

Facilitator: J.M. Wells, MD, Birmingham, AL

P1345 Clinical Usefulness of Once-Daily Triple Therapy, Ciclesonide and Tiotropium Bromide/Olodaterol Combination Inhaler for COPD Patients/H. Masayuki, Tokyo, Japan, p.A4770

P1346 An Ascending, Repeat-Dose Safety and Tolerability Study of AZD8871 a Novel, Dual-Acting Bronchodilator in Healthy Volunteers/C. Astbury, L. Jimenez, B. Seoane, C. Villarroel, M. Albayaty, V. Balaguer, A. Lei, A. Aggarwal, Barcelona, Spain, p.A4771

P1347 Can RDW Be a Prognostic Factor in Patients with Stable and Acute Exacerbation of COPD Who Do Not Have Any Cardiovascular Disease?/U. Yilmaz, O. Batum, S. Ermin, U. Tapan, Izmir, Turkey, p.A4772

P1348 Transcriptomic Profiling of Macrophage Subsets in Inflammatory Lung Disease/E. Tsantikos, M. Lau, G.P. Anderson, M. Hibbs, Melbourne, Australia, p.A4773

P1349 The Effect of PUR1800, a Novel Narrow Spectrum Kinase Inhibitor, on Viral Replication and Viral-Induced Inflammation in Primary Human Airway Cells/A. Curran, K. Ito, D. Hava, C. Charron, Lexington, MA, p.A4774

P1350 CXCR4 Does Not Contribute to Pulmonary Sequestration of Primed Neutrophils in Humans/J. Pillay, N.C. Tregay, N. Farahi, L.S.C. Lok, C.-G. Mitrofan, R. Simmonds, C. Summers, L. Koenderman, E.R. Chilvers, Cambridge, United Kingdom, p.A4775

P1351 Evaluating the Sensitivity and Specificity of Neatstik® Technology Compared to an Activity-Based Immunoassay in Sputum Samples/S. Thulborn, J.L. Cane, C. Connolly, C. Borg, K.L. Moffitt, C. Robb, M. Bafadhel, Oxford, United Kingdom, p.A4776

P1352 Lipids as Modifiable Risk Factors of Environmental Lung Disease: A Systematic Review of the Good, the Bad and the Misunderstood/E. Caraher, G. Crowley, S.H. Haider, R. Lam, S. Kwon, A. Nolan, New York, NY, p.A4777

P1353 Urinary Biomarkers Profiles During COPD Exacerbations/G. Parekh, A.J. Yousuf, L. Watson, A. Duvoix, P. Davis, C.E. Brightling, Thurleigh, United Kingdom, p.A4778

P1354 Bronchoalveolar Lavage Cytokine Analysis in Deployment-Related Chronic Respiratory Symptoms/J. Anderson, M.J. Morris, A.B. Holley, M. Cabellero, S. Vallier, G. Chaudry, San Antonio, TX, p.A4779

Facilitator: M. Harriff, PhD, Portland, OR

P1355 Effects of E-cigarette Use and Smoking on Inflammation Expression in Human Lung Lavage Fluid/M. Tsai, C. McAndrew, M.-A. Song, J. McElroy, P. Shields, M.D. Wewers, Columbus, OH, p.A4780

P1356 Comparative Analysis of Oxidative Potential of Oil-Sands Secondary Organic Aerosol with Oxidative Stress and Inflammatory Response in Human Airway Epithelial Cells/X. Wang, W.Y. Guo, S. Wang, K. Li, J. Ye, L. Woo, S. Salehi, J.A. Scott, J. Liggio, A. Chan, C.-W.W. Chow, Toronto, Canada, p.A4781

P1357 Low Plasma Cathelicidin Levels Are Independently Associated with Sustained Reduction in Lung Function in Smokers Without COPD/R.M. Burkes, J. Astemborski, A. Lambert, T.T. Brown, G. Kirk, M.B. Drummond, Chapel Hill, NC, p.A4782

P1358 Increased Neutrophil-Platelet Interactions in Alpha-1 Antitrypsin Deficient Individuals Is Corrected Post Augmentation Therapy/N. Lacey, O.J. McElvaney, P. Hawkins, T. McEnery, M.Q. Lee, M. Hoo, E.P. Reeves, N.G. McElvaney, Dublin, Ireland, p.A4783

P1359 Data-Driven Modeling of Sputum and Blood Cytokine Networks During COPD Exacerbations/K. Norman, C.M. Freeman, L. McCloskey, M.K. Han, F.J. Martinez, J.L. Curtis, K.B. Arnold, Ann Arbor, MI, p.A4784

P1360 Development of an Automated Metered Dose Inhaler to Deliver Fluticasone to Rats and Examine the Effects of Corticosteroids on Upper Airway Function and Structure/N. Morel, O. Broytman, J. Martinez, M. Teodorescu, Madison, WI, p.A4785

P1361 People with Asthma COPD Overlap Syndrome Have Higher Risk of Obstructive Sleep Apnea Development/X.M. Liao, P.-L. Su, T.-H. Huang, S.-H. Lin, C.-C. Shieh, Tainan, Taiwan, p.A4786

P1362 Nocturnal Variations in Supine Lung Volumes and Spirometry in Moderate to Severe Chronic Obstructive Pulmonary Disease (COPD)/N. Domnik, M.E. James, C. Ciavaglia, J.F. Garvey, H.S. Driver, K. Webb, D.E. O'Donnell, Kingston, Canada, p.A4787

P1363 Pro-Atherogenic Cytokine Profile of Patients with COPD and OSA Overlap Syndrome: A Pilot Study/A. Shah, S.F. Van Eeden, N. Ayas, R. Jen, Vancouver, Canada, p.A4788

P1364 Bacterial Proteases Impair COPD Sputum Secretory Immunoglobulin A1 (SigA1) Mediated Opsonophagocytosis/S. Sethi, C. Wrona, Buffalo, NY, p.A4789

THEMATIC POSTER SESSION

C35 CLINICAL STUDIES IN IMMUNODEFICIENCY

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area H (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: R.S. Peebles, MD, Nashville, TN
J.E. Gern, MD, Madison, WI

P864 Non-Familial Pulmonary Alveolar Proteinosis in a Pregnancy Complicated by Stenotrophomonas Maltophilia/G.B. Pereira, J. Barney, Birmingham, AL, p.A4790

- P865 Successful Interdisciplinary Treatment of Disseminated Adenovirus in Presumed Immunocompetent Patient, Presenting as Severe Hypogammaglobulinemia and Lymphopenia/A. Ramaniuk, D.L. McNeil, J.A. Kynyk, Columbus, OH, p.A4791**
- P866 Aspergillus-Infected Pneumatocele in Hyper-Immunoglobulin E Syndrome/D. Rai, L. Valclavik, W. Shandera, Houston, TX, p.A4792**
- P867 Acute Eosinophilic Pneumonia in the Setting of Hypogammaglobulinemia/A. Nikamal, R. Ali, Z. Hussain, M.M. Rachid, Oak Lawn, IL, p.A4793**
- P868 The Function of B Cell Activating Factor Receptor in Immune Response of Pneumocystis Carinii Pneumonia/H. Rong, Beijing, China, p.A4794**
- P869 Pulmonary Disease Burden in Primary Immune Deficiency Disorders from the United States Immunodeficiency Network Patient Registry/M. Mehta, K. Patel, L. Guglani, Atlanta, GA, p.A4795**
- P870 Non-Infectious Interstitial Lung Disease After Allogeneic Hematopoietic Stem Cell Transplantation/L.-J. Couderc, A. Belz, E. Catherinot, E. Rivaud, A. Chabrol, S. Nguyen, F. Suarez, A. Marçais, O. Hermine, F. Giannotti, M. Mohty, C. Loiseau, F. Lemonnier, A. Roux, E. Longchamp, L. Zemoura, M.-L. Chabi-Charvillat, C. Tcherakian, H. Salvator, Suresnes, France, p.A4796**
- P871 Characterization of Lung Disease in Autosomal Dominant Hyper IgE Syndrome/K. Bogdanovski, A.K. Urban, D. Darnell, J. Peterson, P. Welch, A.F. Freeman, K.N. Olivier, Bethesda, MD, p.A4797**
- P876 Clinical Characteristics of Antinuclear Antibody-Positive Sarcoidosis/M. Ando, A. Goto, Y. Takeno, M. Yamasue, N. Fujishima, E. Watanabe, H. Matsumoto, T. Hashimoto, Y. Usagawa, C. Yasuda, M. Rie, T. Ishii, R.-I. Takenaka, K. Hashinaga, K. Komiya, K. Umeki, S.-I. Nureki, K. Hiramatsu, E. Miyazaki, J. Kadota, Oita, Japan, p.A4801**
- P877 Cardiac Manifestation of Sarcoidosis: A Report of a Specialized Sarcoidosis Center/O. Salamo, G. Urdaneta, P. Baghaeishiva, G.E. Holt, R.A. Calderon Candelario, M. Mirsaedi, Miami, FL, p.A4802**
- P878 S100B as a Biomarker for Neurosarcoidosis/B. Moss, D.C. Patel, D.A. Culver, Cleveland, OH, p.A4803**
- P879 Concurrent Gastrointestinal Involvement in Patients with Pulmonary Sarcoidosis/G. Urdaneta, O. Salamo, P. Baghaeishiva, C. Levy, R.A. Calderon Candelario, M. Mirsaedi, Miami, FL, p.A4804**
- P880 Extrapulmonary Sarcoidosis: Clinical Features and Response to Management Response to Management/P. Baghaeishiva, O. Salamo, I.A. Vital, G.E. Holt, M.A. Campos, M. Mirsaedi, Miami, FL, p.A4805**
- P881 Relationships Among Health Outcomes Questionnaires, CD19+ Cells and Sarcoidosis/N. Ecanow, C. Ascoli, C. Schott, D.L. Perkins, N. Sweiss, P.W. Finn, Chicago, IL, p.A4806**

Facilitator: E.D. Crouser, MD, Columbus, OH

- P882 Metabolomics Differentiates Veterans from Civilians with Pulmonary Sarcoidosis/I. Iupe, M. Banoei, L. Ai, E. Diaz, L. Rodriguez, E. Mendes, B.W. Winston, M.A. Campos, M. Mirsaedi, Miami, FL, p.A4807**
- P883 Transcriptome Analysis Reveals Regulation of Sarcoidosis Granuloma Biogenesis by IL-13, IL-10 and TLR2/V. Le, M.W. Julian, P. White, A.C. Papp, L.W. Locke, W. Sadee, L. Schlesinger, E.D. Crouser, Columbus, OH, p.A4808**
- P884 An Exome Sequencing Study Deciphers Rare Genetic Variants in Familial Sarcoidosis/A. Kishore, B.-S. Petersen, M. Nutsua, M. Schürmann, J. Muller-Quernheim, A. Franke, A. Fischer, S. Schreiber, M. Petrek, Kiel, Germany, p.A4809**
- P885 A Transcriptomic Analysis of Monocyte Subsets and Their Roles in Pulmonary Sarcoidosis/S. Machiraju, B. Benn, N. Bhakta, N. Arger, L. Koth, San Francisco, CA, p.A4810**
- P886 Mass Cytometry Evaluation of PD-1/PD-L1 in Sarcoidosis TBNA and BAL/J.J. Atkinson, D.G. Kelley, A. Ellis, A. Anderson, St. Louis, MO, p.A4811**
- P887 Veterans with Pulmonary Sarcoidosis Have Different Metalomic Profile Compared to Civilians with Pulmonary Sarcoidosis/C. Zhang, M.M. Banoei, R.D. Bazaz, E. Diaz, L. Rodriguez, E. Mendes, B.W. Winston, M.A. Campos, M. Mirsaedi, Miami, FL, p.A4812**
- P888 Relationships Between Symptom Burden and Peripheral Blood Gene Expression in Sarcoidosis/V. Wang, S. Nerella, N. Bhakta, S. Machiraju, L. Koth, San Francisco, CA, p.A4813**
- P889 High T-bet Expression in Peripheral T Helper Cells Correlates with Pulmonary Function Change in Sarcoidosis/N. Arger, S. Machiraju, L. Koth, San Francisco, CA, p.A4814**

THEMATIC POSTER SESSION

C36 CLINICAL STUDIES IN SARCOIDOSIS

9:15 a.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER

Area H (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: W.P. Drake, MD, Nashville, TN

- P873 Macrophage-Specific Deficiency of Peroxisome Proliferator-Activated Receptor Gamma (PPAR γ) Results in Elevated Intrinsic Production of Matrix Metalloproteinase-12 (MMP12) in a Murine Model of Sarcoidosis/A. Mohan, S.A. Gharib, A. Malur, M. McPeck, W. Knudson, B.P. Barna, L.M. Schnapp, M.J. Thomassen, Greenville, NC, p.A4798**
- P874 Transcriptomic Analysis of Peripheral Blood Mononuclear Cells in African Americans with Sarcoidosis/C. Ascoli, Y. Huang, C. Schott, B. Turturice, A. Metwally, D. Perkins, P.W. Finn, Chicago, IL, p.A4799**
- P875 Peripheral Autophagy and Apoptosis Elements Distinguish Sarcoidosis and Tuberculosis/C. Schott, C. Ascoli, Y. Huang, B. Turturice, D. Perkins, P.W. Finn, Chicago, IL, p.A4800**

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

Facilitator: P. Spagnolo, MD, Veglie, Italy

- P890 Distinctions in ESAT6 Immune Response by Gender Among Clear II Study Participants/A.** Abad, R.P. Baughman, D.A. Culver, G.R. Bernard, W.P. Drake, Nashville, TN, p.A4815
- P891 Microbiota and Clinical Variable Associations in Alpha-1 Antitrypsin Deficiency and Sarcoidosis/K.** Li, A.M. Morris, E. Ghedin, H. Hochheiser, R.G. Collman, Y. Zhang, B. Frank, A. Fitch, L.A. Maier, L. Koth, P. Woodruff, M.D. Rossman, K.F. Gibson, W.P. Drake, E. Herzog, D.R. Moller, J.G.N. Garcia, E.S. Chen, C.B. Strange, R. Sandhaus, N. Kaminski, B.A. Methe, Pittsburgh, PA, p.A4816
- P892 Murine Model of MWCNT-Elicited Granulomatous Disease Combined with a Mycobacterial Antigen Exhibits Lymphadenopathy and Increased Th1 Cells Similar to Sarcoidosis/A.** Malur, N. Leffler, D. Vargas, A. Mohan, R. Barrington, K. Kew, B. Muller-Borer, G. Murray, B.P. Barna, M.J.J. Thomassen, Greenville, NC, p.A4817
- P893 Detection of Mycobacteria and Propionibacterium Acnes 16s rRNA in Sarcoidosis Tissue Reveals Genetic Ambiguity Across Species/O.S.** Chioma, W.P. Drake, Nashville, TN, p.A4818
- P894 Comparison of Bronchoalveolar Lavage MicroRNA Signatures Between Pulmonary Sarcoidosis and Lung Adenocarcinoma/Y.** Huang, C. Ascoli, B. Turturice, D.L. Perkins, P.W. Finn, Chicago, IL, p.A4819
- P895 Weighted Gene Co-Expression Network Analysis of Bronchoalveolar Lavage Cells Transcriptome Identifies New Molecular Endotypes in a Large Cohort of Subjects with Sarcoidosis/M.** Vukmirovic, X. Yan, K.F. Gibson, M. Gulati, G. Delulius, T. Adams, B. Hu, X. Li, A. Mihaljinec, N. Emeagwali, S.M. O'Neal, M. Becich, H. Hochheiser, E. Herzog, E.S. Chen, A.M. Morris, J.K. Leader, Y. Zhang, J.G.N. Garcia, S.R. Wisniewski, P.V. Benos, L.A. Maier, D. R. Moller, K. Patterson, W. P. Drake, L. L. Koth, N. Kaminski, New Haven, CT, p.A4820
- P896 Identification of Complicated Sarcoidosis Genes Via GWAS SNP and eQTL Analyses/N.G.** Casanova, M.L. Gonzalez-Garay, K.S. Knox, J.G.N. Garcia, Tucson, AZ, p.A4821
- P897 Expression of Toll-Like Receptor 2 and 4 in the Alveolar Macrophages of Interstitial Lung Diseases/T.** Tateishi, T. Shirai, M. Masuo, Y. Miyazaki, Tokyo, Japan, p.A4822

THEMATIC POSTER SESSION

C37 OPTIMIZING ASTHMA CARE ACROSS DIVERSE PATIENTS

9:15 a.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER

Area A (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: E. Oren, PhD, MS, San Diego, CA

- P1 Effectiveness of an Educational Asthma Program/A.L.L.** Godoy Fernandes, J.V. Araujo, M.M. Amorim, Sao Paulo, Brazil, p.A4824

- P2 Adult Asthma Management Resources and Pathway Implementation in Ontario Emergency Departments/C.** Kwok, Y. DeWit, C.E. Madeley, J. MacKinnon, T.M. To, M. Jabbour, M.D. Loughheed, Kingston, Canada, p.A4825
- P3 Evaluation of Asthma Symptom Control in Indian Population Using ACT and to Compare with GINA Criteria/A.** Perni, R.P. Ilango, Chennai, India, p.A4826
- P4 Performance of the Asthma Impact on Quality of Life Scale in Diverse Asthma Research Samples and Demographic Sub-Groups/S.R.** Wilson, R.A. Wise, M. Castro, M.J. Mulligan, E. Ayala, A. Chausow, S. Gummidipundi, Q. Huang, Palo Alto, CA, p.A4827
- P5 Features of Long-Term Dynamics of Health-Related Quality of Life in Patients with Asthma/J.M.** Perelman, N.L. Perelman, Blagoveschensk, Russian Federation, p.A4828
- P6 The Impact of Treatment Change on Economic and Quality of Life Outcomes Among Treated, Adherent, Uncontrolled Patients with Persistent Asthma/N.** Lugogo, S. Gabriel, C.M. Carpinella, R. Ariely, L.K. Lee, G. Mosnaim, Ann Arbor, MI, p.A4829
- P7 Knowledge on Self-Management and Levels of Asthma Control Among Adult Patients in Ho Chi Minh City, Vietnam/V.N.** Nguyen, T.T.H. Huynh, N. Chavannes, Ho Chi Minh City, Viet Nam, p.A4830
- P8 Searching the Best Statistical Model Predicting Asthma Exacerbation in Elderly/H.-W.** Park, S.S. Kim, Seoul, Korea, Republic of, p.A4831
- P9 Adherence Monitoring and Inhaler Reminders Benefit GPs and Patients in Family Practice Settings/J.** Foster, H.K. Reddel, Sydney, Australia, p.A4832

Facilitator: J. Foster, BSc(Hons), PhD, Sydney, Australia

- P10 Comparison of Clinical Efficacy Between Morning and Evening Dosing of Once-Daily Inhaled Corticosteroids in Patients with Asthma: A Systemic Review and Meta-Analysis/G.M.** Seong, J. Lee, J.-U. Song, Jeju, Korea, Republic of, p.A4833
- P11 Association Between Objective Short-Acting Beta-Agonist Use and Self-Reported Asthma Control Test Scores Among Adults with Asthma/W.C.** Anderson, H. Hoch, L. Kaye, M. Tuffli, M. Barrett, D. Van Sickle, S.J. Szeffler, D.A. Stempel, Aurora, CO, p.A4834
- P12 Analysis of Asthma Patients Using the Adherence Starts with Knowledge-12 in Japan/Y.** Nishiyama, T. Koya, T. Hasegawa, K. Yoshizawa, H. Ueno, M. Hayashi, T. Sakagami, T. Kikuchi, Niigata, Japan, p.A4835
- P13 Effects of Sexual Difference in Adjustment of Inhaler Apparatus/B.** Ocakli, I. Ozmen, E. Acarturk, N. Adiguzel, Z. Karakurt, Y. Yasin, A. Ozalp, G. Arslan, N. Yer, Istanbul, Turkey, p.A4836
- P14 The Unmet Needs of Severe Asthma in China:1-Year Retrospective Study/P.** Wang, G. Shi, L. Wang, Q. Ni, Shanghai, China, p.A4837
- P15 What Factors Affect Treatment Failure When Antibiotics Are Given for Asthma Exacerbations? A Database Analysis/M.** Stolbrink, L.J. Bonnett, J.D. Blakey, Liverpool, United Kingdom, p.A4838

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- P16** **Distinct Patterns of Respiratory-Related Health Services Use and Risk Factors in the First Three Years of Life/W.** Chen, P. Subbarao, R. McGihon, L. Feldman, J. Zhu, W. Lou, A.S. Gershon, K. Abdullah, T.J. Moraes, A. Dubeau, M.R. Sears, D. Lefebvre, T.M. To, Toronto, Canada, p.A4839
- P17** **Endometriosis Is Associated with Increased Risk of Asthma in Reproductive Age Women/S.** Alqaisi, Z. Yaqoob, A. Fadhil, S. Al-Kindi, J.G. Zein, Cleveland, OH, p.A4840
- P18** **Evaluating the Impact and Benefits of Once Daily Fluticasone Furoate/Vilanterol (FF/VI) in Asthma and Chronic Obstructive Pulmonary Disease (COPD)/H.** Svedsater, J. Macey, H. Doll, M. Vanya, G. Miles, L. Bradshaw, Brentford, United Kingdom, p.A4841
- Facilitator:** M.R. Patel, PhD, MPH, Ann Arbor, MI
- P19** **Clinicians' Perceptions of Patient Advocates Attending Asthma-Related Medical Appointments/H.** Park, H. Black, L. Perez, A. Localio, G. Ndicu, A.J. Apter, Philadelphia, PA, p.A4842
- P20** **Feasibility of a Home-Based Exercise Intervention with Remote Guidance for Obese Asthmatics/A.A.** Lowe, D.O. Garcia, D.A. Stern, L.B. Gerald, C. Bime, Tucson, AZ, p.A4843
- P21** **The Relationship Between Eosinophil Count and Asthma Exacerbations/C.D.** Ramsey, Y. Nie, Winnipeg, Canada, p.A4844
- P22** **Identifying Eosinophilic Asthma in ICD-10/M.K.** Van Dyke, D. Hinds, N. Kwon, J. Fairburn-Beech, S.M. Cockle, F.C. Albers, Collegeville, PA, p.A4845
- P23** **Eosinophilic Granulomatosis with Polyangiitis (EGPA) Prevalence and Oral Corticosteroid (OCS) Use Among Asthma Patients in a US Commercial Claims Database/M.** Gokhale, C. Bell, S. Doyle, J. Fairburn-Beech, J. Steinfeld, M.K. Van Dyke, Collegeville, PA, p.A4846
- P24** **Zileuton Use and Phenotypic Features in Asthma/P.** Thalanayar Muthukrishnan, S.M. Nouraie, F. Holguin, Cleveland, OH, p.A4847
- P25** **Asthma Medication Availability and Affordability in the Gambia: Preliminary Results from an Audit of Current Practice in Asthma Care/B.I.** Awokola, G.A. Amusa, B.O. Adeniyi, E.O. Awokola, D.O. Obaseki, Greater Banjul, Gambia, p.A4848
- P26** **A Longitudinal Analysis of Pharmacist-Driven Inhaler Optimization in the Ambulatory Care Setting/E.** Blum, K. Thavarajah, A.L. Martirosov, Detroit, MI, p.A4849
- P27** **Cost of Asthma Exacerbations on the Private Healthcare System in Brazil/O.A.** Nascimento, E. Paloni, F.M. dos Santos, K. Viana, D. Oliveira Silva, L. Tarbes Mattana Saturnino, J.E. Cancado, C. Soares, Rio de Janeiro, Brazil, p.A4850
- Facilitator:** N. Thakur, MD, MPH, San Francisco, CA
- P28** **Characterization of Patients with Comorbid Asthma and Allergic Rhinitis Using US Administrative Claims Data/M.** Gokhale, D. Hinds, M. Stott-Miller, J. Fairburn-Beech, V. Ludbrook, H.C. Pandya, L. Lee, Collegeville, PA, p.A4851
- P29** **Characterizing Real-World Use of LAMAs in Asthma in the US/C.M.** Averell, F. Laliberté, M.S. Duh, J.W. Wu, G. Germain, R. Katial, S. Faison, Research Triangle Park, NC, p.A4852
- P30** **The Characteristic Differences in Asthma Patients Between ER Visited Patients and ER Non-Visited Patients/S.** Ohta, T. Homma, M. Jinno, K. Hirai, H. Mikuni, T. Kawahara, R. Manabe, N. Kuwahara, T. Kimura, Y. Miyata, M. Yamaguchi, H. Inoue, F. Yamaguchi, M. Yamamoto, S. Kusumoto, S. Suzuki, A. Tanaka, T. Ohnishi, H. Sagara, Tokyo, Japan, p.A4853
- P31** **Wheezing Associated with a Use of Humidifier Disinfectants Among Children in South Korea/H.** Jee, Y.H. Sheen, E.K. Ha, K.S. Lee, Y.-H. Jung, M.Y. Han, Seongnam, Korea, Republic of, p.A4854
- P32** **Using Digital Technology to Identify Adherence Phenotypes May Identify Appropriate Time for Intervention/H.** Hoch, W.C. Anderson, M. Tuffli, L. Kaye, M. Barrett, D. Van Sickle, S.J. Szeffler, D.A. Stempel, Aurora, CO, p.A4855
- P33** **Asthma Outcomes in Transitional Age Patients/B.** Silverman, T.M. Lettich, R. Puttagunta, A. Berger, S.T. Devine, T.W. Davis, Danville, PA, p.A4856
- P34** **Exploring the Alignment Between Healthcare Professionals' and Patients' Views of Asthma Using Drawings/M.M.Y.** Cheung, B. Saini, L. Smith, Sydney, Australia, p.A4857
- P35** **Measuring Burden of Oral Corticosteroids in US and German Patients with Severe Asthma/D.** Hinds, S. Martin, L. Nelsen, S. Cockle, M. Clark, E. Evans, F.C. Albers, Collegeville, PA, p.A4858
- P36** **Measurement of Anxiety Levels for Severe Asthmatics Undergoing Bronchial Thermoplasty (BT)/L.** Tan, A. Alismail, J. Thomas, D. Lopez, Loma Linda, CA, p.A4859
- Facilitator:** S.O. Okelo, PhD, MD, Los Angeles, CA
- P37** **High-Resolution Geographic Mapping of Severe Uncontrolled Asthma Data Regionally Across the United States/E.** Bleecker, H. Gandhi, I. Gilbert, G. Chupp, Tucson, AZ, p.A4860
- P38** **Literature in Severe Asthma: Bronchial Thermoplasty and Biological Agents/T.** Vandemoortele, G. Courteau-Godmaire, Montreal, Canada, p.A4861
- P39** **Evaluation of the Peak Inspiratory Flow (Spirometry and Trainer Device) Generated by Asthmatic Children Through Turbuhaler at the National Institute of Respiratory Diseases (INER) Mexico/R.** Garcia, L.F. Martinez Valdeavellano, P. Sierra, R. Olmos Zuñiga, C.M. Rodriguez Agudo, M. Diaz, R.R. Hernandez, Mexico City, Mexico, p.A4862
- P40** **What Symptomatic Patients with Asthma and Chronic Obstructive Pulmonary Disease (COPD) Find Important in Their Maintenance Inhaler Therapy: A Focus Group Study/N.A.** Hanania, N. Hawken, I. Gilbert, F.J. Martinez, K.M. Fox, M.M. Ross, A. Duenas, A. Kawata, O. Cooper, T. Tervonen, Houston, TX, p.A4863
- P41** **Targeted Inhaler Technique Education for Primarily Mandarin-Speaking Subjects: A Pilot Study/G.** Zhang, H.G. Landau, S.R. Kher, Boston, MA, p.A4864
- P42** **Study of the Volume of Tracheal Inflow During the Use of a Soft Mist Inhaler/T.** Yokoi, R. Kondo, K. Takita, M. Hirose, T. Horiguchi, Nagoya, Japan, p.A4865

- P43** **Evaluation of Pulmonary Function Through Spirometry (FEV1) in Patients with Asthma Attacks Management in Emergency Room by Two Nebulization Devices (Nozzle Vs Mask) in the National Institute of Respiratory Diseases/R. Garcia, I. Huertero, R. Olmos Zuñiga, M. Diaz, R. Hernandez, Mexico City, Mexico, p.A4866**
- P44** **A Conjoint Analysis of Influence on Pulmonologist Prescribing When Considering Both Molecule and Device Features/K.A. Mackin, Burlington, MA, p.A4867**
- P45** **Evaluation of ICD-9 to ICD-10 Conversion on Estimates of Asthma and COPD in a US Commercial Claims Database/M.K. Van Dyke, D. Hinds, H. Dickinson, L. Sansbury, Collegeville, PA, p.A4868**
- P46** **High Antibiotics Prescribing in Patients Hospitalized with Asthma Exacerbation - but Are Antibiotics Associated with Better Outcomes?/M.S. Stefan, P.K. Lindenauer, M.-S. Shieh, P. Pekow, Springfield, MA, p.A7763**

THEMATIC POSTER SESSION

C38 IMPROVING QUALITY AND UTILIZATION OF END OF LIFE AND PALLIATIVE CARE

9:15 a.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER
Area B (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: D.R. Sullivan, MD, MA, Portland, OR

- P77** **Association Between the Quality of Communication About Goals of Care and Patient-Centered Outcomes/M.E. Modes, R.A. Engelberg, L. Downey, E.L. Nielsen, J.R. Curtis, E.K. Kross, Seattle, WA, p.A4869**
- P78** **Implementation of Clinical Triggered Early Goals of Care (GOC) Discussions Across All Adult ICUs in an Urban Safety-Net Hospital/N. Herbst, J. Grande, J. Low, C. Salerno, A. Wright, M.H. Jeong, Boston, MA, p.A4870**
- P79** **Development and Validation of a Constrained Values Clarification Tool for End of Life Care/A. Nijjar, N. Bansback, D. Min, M. Howard, N. Arora, D. Kobewka, D. Elston, J. You, P. Dodek, D. Heyland, Vancouver, Canada, p.A4871**
- P80** **A Randomized Control Trial of Different Trajectories of Financial Incentives to Optimize Recruitment and Retention in Research/D. Krutsinger, K.R. Courtright, K. Yadav, E. Cooney, S.D. Halpern, Philadelphia, PA, p.A4872**
- P81** **Patterns of Decision Making in Chronic Critical Illness: A Longitudinal Qualitative Study/J.M. Kruser, B.T. Benjamin, R.G. Wunderink, K.N. Michelson, M.L. Schwarze, Chicago, IL, p.A4873**
- P82** **Clinical Decision Support to Improve of End-of-Life Planning at Inpatient Discharge/M. Stutz, P. Phung, J. Vang, A. Jain, M.K. Ross, Los Angeles, CA, p.A4874**

- P83** **Association of Physician Orders for Life-Sustaining Treatment with Inpatient Healthcare Resource Utilization/K. Vranas, T. Myers, A. Lin, D. Zive, S. Tolle, C.G. Slatore, D.R. Sullivan, Portland, OR, p.A4875**

- P84** **Palliative Care Utilization in the Last Year of Life by Lung Transplant Recipients at the University of Pittsburgh/E. Nolley, S.M. Nouraie, Y. Schenker, M.R. Morrell, Pittsburgh, PA, p.A4876**

Facilitator: N. Khandelwal, MD, MS, Seattle, WA

- P85** **POLST Utilization Among Veterans with Advanced-Stage Lung Cancer/S. Nugnet, S. Golden, L. Ganzini, C.G. Slatore, D. Zive, D.R. Sullivan, Portland, OR, p.A4877**

- P86** **Resource Utilization and Description of Patients Perceived as Having Received Inappropriate Critical Care/T.H. Neville, M. Yamamoto, J. Wiley, N.S. Wenger, Los Angeles, CA, p.A4878**

- P87** **Does Early Palliative Care Consultation Decrease Transfer to the Intensive Care Unit for Patients at the End of Life? A Multicenter Study/A. Rai, D. Cardona, K. Anwar, Y. Ahmad, C. Reid, K. McDonald, E. Stevenson, Salem, MA, p.A4879**

- P88** **Intraprofessional Perspectives on Palliative and Supportive Care in Chronic Obstructive Pulmonary Disease: A Qualitative Study/A.S. Iyer, J.N. Dionne-Odom, N.N. Ivankova, D.P. Kirkpatrick, L. O'Hare, M. Hallpin, M.T. Dransfield, M.A. Bakitas, Birmingham, AL, p.A4880**

- P89** **Personal Fear of Death Affects Healthcare Workers' Ability to Discuss End of Life Issues with Patients/M. Majumdar, J. Dubowitz, C. Green, Melbourne, Australia, p.A4881**

- P90** **Obesity and End of Life Decision Making/T. Gaulton, M.B. Lane-Fall, Philadelphia, PA, p.A4882**

- P91** **Implementation of an End of Life Care Protocol for Patients on an Intermediate Pulmonary Care Unit/L. Chiec, A. Frogameni, S.R. Russell, Chicago, IL, p.A4883**

THEMATIC POSTER SESSION

C39 IDENTIFYING AND TREATING ANXIETY AND DEPRESSION IN PULMONARY DISEASES

9:15 a.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER
Area B (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: J.-M. Bruzzese, PhD, New York, NY

- P93** **Two Interventions for Patients with Major Depression and Severe COPD: Impact on Dyspnea Related Disability/R.S. Novitch, J.A. Sirey, G.S. Alexopoulos, White Plains, NY, p.A4884**

- P94** **Feasibility of a Behavioural Intervention to Reduce Psychological Distress in the ICU in Mechanically Ventilated Patients/Y. Tan, O. Gajic, M. Clark, K. Philbrick, L. Karnatovskaia, Singapore, Singapore, p.A4885**

- P95** **Two Behavioral Interventions for Patients with Major Depression and Severe COPD/R.S. Novitch, J.A. Sirey, G.S. Alexopoulos, White Plains, NY, p.A4886**
- P96** **Evaluation of Depression and Anxiety and Their Influence on Outcomes in Adult Patients with Cystic Fibrosis/R. Gersten, B. Cannon, M. Bowen, E. Davies, A.W. Brown, Fairfax, VA, p.A4887**
- P97** **Patients with COPD and Comorbid Hypertension or Diabetes Share Maladaptive Illness and Medication Beliefs that Are Associated with Low Medication Adherence/A. Federman, K. Muellers, R. O'Connor, M. Wolf, J.P. Wisnivesky, New York, NY, p.A4888**
- P98** **Resilience Is Associated with Fewer Symptoms of Depression and Anxiety and Improved Quality of Life in Patients with Pulmonary Arterial Hypertension/M. King, C. Abbott, C. Carter, A. Hudler, M. Moss, P.D. Sottile, T.M. Bull, Denver, CO, p.A4889**
- P99** **The Relationship Between Sleep Quality, Age, and Quality of Life in Patients with COPD and Clinical Depression and Anxiety/A.M. Mathews, A.M. Baker, J.T. Holbrook, A.M. Yohannes, M. Eakin, E.A. Sugar, R. Henderson, A. Casper, D.A. Kaminsky, A.L. Rea, L.G. Que, J.W. Ramsdell, L.B. Gerald, R.A. Wise, N.A. Hanania, Durham, NC, p.A4890**
- Facilitator:** D. Koinis-Mitchell, PhD, Providence, RI
- P100** **Development of a Virtual Reality Environment to Provide Cognitive Stimulation: A Novel Tool to Reduce Pain, Anxiety, and Delirium in Critically Ill Patients/W. Krogg, D. Golovyan, L. Abshire, S.H. Khan, S. Wang, A. William, B.A. Khan, Indianapolis, IN, p.A4891**
- P101** **Prevalence of Depression and Anxiety Symptoms Among Adolescents with Cystic Fibrosis in a Single Pediatric Center/T. Ong, D. Toprak, A. Lew, L. Nay, S. McNamara, F. Liu, Seattle, WA, p.A4892**
- P102** **Coincidence of Insomnia and Depressive Disorders Play Significant Role on Acceptance to Continuous Positive Airway Pressure Therapy in Patients with Severe Obstructive Sleep Apnea/S. Tryfon, T. Drakou, M. Saroglou, D. Kazis, S. Papagiannopoulos, P.A. Steiropoulos, Thessaloniki, Greece, p.A4893**
- P103** **Peculiarities of Psychological Profile in Young Male Patients with Grade 1 Arterial Hypertension, Severe Obstructive Sleep Apnea and Obesity/E. Elfimova, A. Aksenova, P. Galitsin, A. Litvin, I. Chazova, Mocsow, Russian Federation, p.A4894**
- P104** **Anxiety, Depression, and Symptom Control in Adult Patients with Asthma/U. Kulsum, K. Cervellione, T. Ullah, P. Jain, A. Chester, C.A. Thurm, Jamaica, NY, p.A4895**
- P105** **Social Complexity: A Strong Influence on Outcomes in Adolescents with Cystic Fibrosis/E. Crowley, C.D. Brown, Indianapolis, IN, p.A4896**

THEMATIC POSTER SESSION

C40 INNOVATIVE MEDICAL EDUCATION RESEARCH AND TRAINING PROGRAMS

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area B (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion

12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: J.I. McSparron, MD, Ann Arbor, MI

- P107** **Creation and Implementation of a Novel Entrustable Professional Activity Tool to Evaluate Fellow ICU Rounds Leadership and Education/L. Santhosh, J.A. Frank, San Francisco, CA, p.A4897**
- P108** **Rekindling the Culture of Bedside Medicine: A Novel Methodology to Assess and Teach Physical Examination Skills/B.T. Garibaldi, E. Goerlich, T. Niessen, Y.Z. Lee, S.V. Desai, B. Clark, Baltimore, MD, p.A4898**
- P109** **Global Health-Related Training Opportunities: A National Survey of Pulmonary and Critical Care Fellowship Programs/C. North, E. Attia, K.E. Rudd, T. Siddharthan, A. Papali, B. Coruh, E.J. Carter, D.C. Christiani, J.B. Richards, L. Huang, R.A. Engelberg, W. Checkley, T.E. West, Boston, MA, p.A4899**
- P110** **The Impact of Using Educational Videos on Attracting More Followers on the AABIP Social Media/A.H. Alraiyes, O.B. Rickman, North Chicago, IL, p.A4900**
- P111** **Is this an Efficacy to Effectiveness Trial? Comparing Two Tools to Classify Trials Along the Efficacy to Effectiveness Continuum/S.M. Nyenhuis, A. Apter, M. Schatz, S. Bandi, C. Codispati, H. Kumar, J. Moy, J. Tirumalasetty, B. Yu, J. Krishnan, Chicago, IL, p.A4901**
- P112** **Development of an Interprofessional Educational Curriculum to Improve Recognition and Treatment of Sepsis/N.G. Shah, R. Dixon, J. Davenport, M. Heavner, N. Kapoor, P.P. Olivieri, S. Tisherman, T. Wilson, S.Y.A. Yeung, J.P. Gonzales, Baltimore, MD, p.A4902**
- P113** **Does Implementation of a Pulmonary Embolism Response Team (PERT) Improve Medical Education?/A. Khosla, R. Scatena, A.M. Ahasic, Norwalk, CT, p.A4903**
- P114** **Implementation of a Standardized Pulmonary Function Test Interpretation Curriculum to Improve Pulmonary Fellow Interpretation Quality and Education/S.W. Bullick, R. Bayliss, N.S. Stollenwerk, R.W. Harper, Sacramento, CA, p.A4904**
- Facilitator:** N.G. Shah, MD, Baltimore, MD
- P115** **Piloting a Targeted, Spaced, Mastery-Learning Global Health Point-of-Care Ultrasound Curriculum for Internal Medicine Residents: Assessment Development and Bolus Application/S. Maximous, P.E. Lamberty, C. Spagnoletti, Pittsburgh, PA, p.A4905**
- P116** **Promoting Intuitive or Analytical Decision-Making Through Choice Architecture: Pilot Testing of a Septic Shock Electronic Survey Instrument/J.N. Mansoori, K.L. Brown, E.P. Havranek, I.S. Douglas, Aurora, CO, p.A4906**

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- P117 Pulmonary and Critical Care Fellows' Perceptions and Practices on Social Media at One Training Program and Potential Use in Medical Education/M.M. Lee, C.C. Fung, Los Angeles, CA, p.A4907**
- P118 Improving Pediatric Pulmonology Training Curriculum and First Time Board Examination Success/N.Y.-W. Lin, G. Burg, B.A. Chini, Cincinnati, OH, p.A4908**
- P119 Impact of On-Line Medical Education on Pulmonologists and Allergists/Clinical Immunologists Regarding the Definition, Evaluation and Treatment of Severe Asthma/T. Lambert, Wilmslow, United Kingdom, p.A4909**
- P120 A Novel Program to Leverage Resources of an Organ Procurement Organization for Teaching Medical Procedures/P.E. Lamberty, R. Semaan, J. Chiarichiaro, S. Maximous, Pittsburgh, PA, p.A4910**
- P121 Impact of a Graduate Medical Education Performance Improvement Project for Thoracentesis: A Pulmonary Fellowship Experience/R. Mishra, S.K. Venkatram, G. Diaz-Fuentes, Bronx, NY, p.A4911**
- P122 A Novel Simulation-Based Mastery Curriculum for Mechanical Ventilation (MV) in Pulmonary and Critical Care Training Programs/A. Alchakaki, S. Maroof, N. Theaker, C. Inman, M. Schenck, A. Sankari, Detroit, MI, p.A4912**
- Facilitator:** S.M. Kassutto, MD, Philadelphia, PA
- P123 Sick or Not Sick: Using Simulation to Assess Medical Students' Recognition and Management of Sepsis/M. Soffler, A. Law, S. Boubherhan, J.I. McSparron, A. Cohen, A. Sullivan, R.M. Schwartzstein, M.M. Hayes, Boston, MA, p.A4913**
- P124 An Elusive Milestone: Evaluating Systems-Based Practice in a Subspecialty Fellowship/K.K. Parekh, E.M. Mohanraj, M.M. O'Sullivan, J.M. Shapiro, New York, NY, p.A4914**
- P125 Pilot Study of Numeracy and Prognostic Estimates Among Neurocritical Care Providers/S.R. Viola, N. Leiter, M. Motta, R.M. Reed, T. Adeyeye, D.L. Wiegand, N.G. Shah, A.C. Verceles, G. Netzer, Baltimore, MD, p.A4915**
- P126 The Forgotten Fellow: A Pilot ICU Teaching Attending Program for Fellow-Specific Critical Care Education/D. Claar, J.I. McSparron, I. Co, A.J. Courey, N. Nathani, R.L. Sagana, K.M. Chan, Ann Arbor, MI, p.A4916**
- P127 Emergency Cricothyrotomy Curriculum: Need for a Multidisciplinary Approach to Training/J.M. Keller, P.A. Kritek, A.M. Luks, A.E. Morris, Seattle, WA, p.A4917**
- P128 Use of the Knowledge-to-Action Framework to Advance Physician Learning and Behaviors Surrounding Personalized Precision Asthma Care/S. Singh, S. Subramanian, I. Gilbert, S. McGuinness, S. Surani, Milwaukee, WI, p.A4918**
- P129 Results of a Needs Assessment on Internal Medicine Intern Point-of-Care Ultrasound Attitudes and Skills/E. Goerlich, G. Liu, T. Zhang, B.T. Garibaldi, Baltimore, MD, p.A4919**
- P130 A "Cloud"-Based Ultrasound Image Review System Provides an Effective and Inexpensive Platform for Ultrasound Quality Assurance/D. Claar, J.I. McSparron, I. Co, A.J. Courey, M.P. Mendez, N. Nathani, K.M. Chan, Ann Arbor, MI, p.A4920**

THEMATIC POSTER SESSION

C41 HEALTH SERVICES RESEARCH IN PULMONARY DISEASE

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area B (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.**Discussion:** 11:15-12:00: authors will be present for individual discussion

12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: K.J. Ramos, MD, MS, Seattle, WA

- P132 Patient Mortality, Readmissions, and Resource Use Associated with Dyspnea Among Hospitalized Patients/J. Stevens, T. Dechen, A. Sheridan, C. O'Donnell, R.M. Schwartzstein, K. Baker, M. Howell, R.B. Banzett, Boston, MA, p.A4921**
- P133 Temporal Patterns of Dyspnea During the Hospital Stay/J. Stevens, T. Dechen, A. Sheridan, C. O'Donnell, R.M. Schwartzstein, K. Baker, M. Howell, R.B. Banzett, Boston, MA, p.A4922**
- P134 Primary Graft Dysfunction Is Associated with Poorer Health-Related Quality of Life After Lung Transplantation/N.A. Kolaitis, A. Venado-Estrada, P. Shrestha, A. Soong, J. Golden, L.E. Leard, R.J. Shah, J.R. Greenland, P.P. Katz, S.R. Hays, J. Kukreja, P.D. Blanc, J.P. Singer, San Francisco, CA, p.A4923**
- P135 Non Concordance Between Sputum and Pulmonary Explant Fragments Culture in Patients with Cystic Fibrosis After Lung Transplantation/R.A. Athanazio, S.Z. Rached, R. Stelmach, A. Cukier, R.M. Carvalho-Pinto, A.N. Costa, F.L.A. Fernandes, M.N. Samano, R.H.D.O.B. Teixeira, S.V. Campos, Sao Paulo, Brazil, p.A4924**
- P136 Quality of Life After Lung Transplant/J.D. Johnson, P. Hutchison, Maywood, IL, p.A4925**
- P137 Sarcoidosis in South Korea: Analysis of Prevalence and Incidence by a Nationwide Population-Based Study/H. Yoon, J.W. Song, Y.-J. Kim, Seoul, Korea, Republic of, p.A4926**
- P138 Financial Burden of Interstitial Lung Disease -a Claims Data Based Study/M. Kreuter, S. Witt, M. Polke, J. Waelscher, L. Schwarzkopf, Heidelberg, Germany, p.A4927**
- P139 Burden of Illness of Systemic Sclerosis with Interstitial Lung Disease Among Commercially Insured Patients/Y. Yu, Z. Zhou, X. Liu, T. Wenxi, Z.-Y. Zhou, D. Macaulay, A. Fischer, Ridgefield, CT, p.A4928**
- P140 Towards Ambulatory Cough Monitoring Using Smartwatches/D. Liaqat, R. Wu, T. Son, A.S. Gershon, H. Alshaer, E. de Lara, F. Rudzicz, Toronto, Canada, p.A4929**
- P141 Dose, Delivery, and Duration of Multi-Modal Integrative Therapy Intervention Research/T.T. Von Visger, S.E. Thrane, M.D. Klatt, A. DeVito Dabbs, L.L. Chlan, M.B. Happ, Columbus, OH, p.A4930**
- Facilitator:** J. Stevens, MD, MS, Boston, MA
- P142 Nintedanib Utilization in Patients with Idiopathic Pulmonary Fibrosis in the U.S/S. Mehta, Y. Yu, C. Burudpakdee, K. Mountford, W. Wang, K. Burslem, Cambridge, MA, p.A4931**

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- P143** **User Experience of patientMpower Electronic Health Journal for Pulmonary Fibrosis in Volunteers Recruited Via the PF Warriors Support Group/C. Edwards, B. Vick, E. Costello, Dublin, Ireland, p.A4932**
- P144** **Patient-Reported Monitoring of Symptoms and Spirometry Via the patientMpower Platform in Idiopathic Pulmonary Fibrosis/S. Walsh, T. Cahill, C. Edwards, E. Costello, J. Walsh, A.-M. Russell, A.W. O'Regan, Galway, Ireland, p.A4933**
- P145** **Prevalence, Predictive Factors and Impact of the Internet Use Among Patients with Idiopathic Pulmonary Fibrosis: A Cross-Sectional Observational Study/M. Le Garrec, C. Rousseau, F. Thepault, M. Kerjouan, A. Salé, S. Jouneau, Rennes, France, p.A4934**
- P146** **Healthcare-Related Quality of Life and Gender in an Idiopathic Pulmonary Fibrosis Population/J. Lee, S.E. Smith, S. Sweeten, K. Sundar, M.B. Scholand, Salt Lake City, UT, p.A4935**
- P147** **Development of a Predictive Algorithm Based on Healthcare Behaviour to Support Earlier Diagnosis of Idiopathic Pulmonary Arterial Hypertension: Results of a Feasibility Study in the UK/R. Bergemann, J. Allsopp, H. Jenner, F.A. Daniels, E. Drage, Y. Samyshkin, C. Schmitt, D. Kiely, A. Lawrie, Brentford, United Kingdom, p.A4936**
- P148** **Hospitalization Patterns in Patients with Lymphangioleiomyomatosis (LAM) in the United States/H. Sharifi, R. Raj, S.J. Ruoss, Stanford, CA, p.A4937**
- P149** **Impact of Parkinsonism on Elderly Patients Hospitalized for Pneumonia/T. Jo, H. Yasunaga, W. Hasegawa, Y. Sakamoto, H. Takeshima, H. Urushiyama, Y. Hiraishi, A. Mitani, M. Tarui, G. Tanaka, T. Nagase, Y. Yamauchi, Tokyo, Japan, p.A4938**
- P150** **Interstitial Lung Abnormalities in Smokers Are Associated with an Increase in Hospitalizations/N. Hoyer, M. Wille, L. Thomsen, J.H. Pedersen, A. Dirksen, T. Wilcke, Z. Saghir, H. Ashraf, S.B. Shaker, Hellerup, Denmark, p.A4939**
- P151** **Diabetes Mellitus as a Risk Factor for the Occurrence and Case Fatality of Thoracic Aortic Dissection: A Previously Unknown Association/A. Alam, L. Methvin, W. Kostis, J. Kostis, N. Cosgrove, D. Shindler, New Brunswick, NJ, p.A4940**
- Facilitator:** G.S. Sawicki, MPH, MD, Boston, MA
- P152** **Education and Employment After Lung Transplantation in Adolescents and Young Adults/H.J. Chou, D. Hayes, D. Tumin, Columbus, OH, p.A4941**
- P153** **Applying New Approach to Estimating Fitness Using the NHANES Dataset/K. Lu, R. Bar-Yoseph, S. Radom-Aizik, P. Law, D.M. Cooper, Irvine, CA, p.A4942**
- P154** **Pulmonary Manifestations in Children with Inflammatory Bowel Disease/S.M. Pillai, F. Deshmukh, J. Lentine, R.E. Sockolow, P.J. Christos, Y. Lao, G.M. Loughlin, E. Barfield, NY, NY, p.A4943**
- P155** **Etiologies and Outcomes of Pulmonary Hemorrhage in Children: A Single Institutional Series/A. George, E.B. Hysinger, C.A. Torres-Silva, J.J. Brewington, C.K. Hart, A. de Alarcon, J.W. Byrnes, B.H. Goldstein, D.T. Benscoter, Cincinnati, OH, p.A4944**
- P156** **Validity and Reliability of ACE-I Tool for Chest Physiotherapy in Hospitalized Pediatric Patients with Respiratory Distress/B.L. Shutes, M.D. Moore-Clingenpeel, L.R. Evans, Columbus, OH, p.A4945**
- P157** **Predictors of Prolonged Length of Hospital Stay for Infants with Bronchiolitis/C. Rodriguez Martinez, M. Sossa, G.R. Nino, Bogota, Colombia, p.A4946**
- Facilitator:** C. Holtze, MD, MPH, Ann Arbor, MI
- P158** **Prospective Association of Respiratory and Neurodegenerative Multi-Morbidity Pattern with Cardiovascular Mortality in Postmenopausal Women/P. Koo, A.J. Curtin, M. Roberts, A. Shadyab, O. Zaslavsky, G. Corbie-Smith, B. Cannell, R. Wallace, C.B. Eaton, Chattanooga, TN, p.A4947**
- P159** **Burden of H1N1 Influenza in India (2010-2017): Identifying Hotspots and Policy Directions/P. Chatterjee, B. Seth, T. Biswas, K. Bera, Kolkata, India, p.A4948**
- P160** **Structural Violence, Healthcare Seeking Behavior and Patient-Level Drivers for Defaulting Tuberculosis Treatment in Rural Central India/B. Seth, S. Samant, A. Agarwal, A. Dhang, G. Phutke, P. Jain, Y. Jain, Boston, MA, p.A4949**
- P161** **Evaluation of Prescribing Patterns in Two Tertiary Healthcare Facilities in Nigeria/S.O. Oghuwu, A.O. Isah, Benin City, Nigeria, p.A4950**
- P162** **Clinical and Economic Characteristics of Patients Diagnosed with Eosinophilic Granulomatosis with Polyangiitis (EGPA, formerly Churg-Strauss Syndrome) in the United States/C. Bell, M. Lau, Q. Shen, Research Triangle Park, NC, p.A4951**
- P163** **Outcomes of Patients Admitted with Cirrhosis for Pneumonia, a National Impatient Sample Survey/B.D. Salguero, C. Olivo, M. Rodriguez, New York, NY, p.A4952**
- P164** **Concordance Rates Between Nasopharyngeal (NP) Wash and Bronchoalveolar Lavage (BAL) Respiratory Viral Panel Testing in Adult Patients Undergoing Evaluation at a University Hospital Center/A. George Jacob, T.J. Gross, Iowa City, IA, p.A4953**
- P165** **A Descriptive Study of Pulmonology-Related Medical Malpractice Claims/L. Myers, J. Skillings, L. Heard, J. Metlay, E. Mort, Boston, MA, p.A7764**
- P166** **Differences in the Transition Towards Lung Transplantation for Cystic Fibrosis Between the United States and United Kingdom/C.A. Merlo, C.J. Francis, N.D. Medhurst, A.L. Thaxton, E. Tallarico, R. Cosgriff, R. Dunk, K.G. Brownlee, J.S. Elborn, E.L. Bush, P.M. Shah, N.E. West, Baltimore, MD, p.A7765**

THEMATIC POSTER SESSION

C42 CONTEMPORARY TOPICS IN COPD

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area L (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion

12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: A.S. Gershon, MD, MSc, Toronto, Canada

P1366 Healthcare Costs and Utilization Associated with Muscle Weakness (MW) Diagnosis Codes in Patients with Chronic Obstructive Pulmonary Disease (COPD): A United States (US) Claims Analysis/M. Sikirica, L. Trantham, S.D. Candrilli, D. Mohan, D. Neil, A.V. Joshi, Collegeville, PA, p.A4955

P1367 Trabecular Bone Score in Active or Former Smokers/J. Gonzalez, P. Rivera Ortega, N. Varo, P. Restituto, M.I. Colina, A. Calleja, M.M. Rodriguez, A.B. Alcaide, J. Berto, A. Campo, J.J. Zulueta, J.P. De Torres Tajos, Pamplona, Spain, p.A4956

P1368 Is Chronic Obstructive Pulmonary Disease (COPD) Independently Associated with Moderate-Severe Musculoskeletal Pain?/K.M. Akgun, K.A. Crothers, L. Bastian, J. Womack, C. Brandt, J.L. Goulet, West Haven, CT, p.A4957

P1369 Sit and Stand Test of 3 Minutes (3MSST) for Malagasy Healthy Non Smoker Subjects/J. Ratomaharo, D. Rakotonanahary, M. Randriantahiry, L. Rabarijaona, R. Rakotoarivelo, M. Randria, Athis-Mons, France, p.A4958

P1370 Restricted Life-Space Mobility Is Associated with Healthcare Utilization and Clinical Outcomes in COPD/A.S. Iyer, J.M. Wells, S.P. Bhatt, D. Kirkpatrick, P. Sawyer, C.J. Brown, R.M. Allman, M.A. Bakitas, M.T. Dransfield, Birmingham, AL, p.A4959

P1371 Impact of Memory Impairments on Chronic Obstructive Pulmonary Disease (COPD) Outcomes/J. O'Toole, T. Eckmann, M. Eakin, Baltimore, MD, p.A4960

P1372 Insomnia Symptoms in COPD and Association with Health-Related Quality of Life Outcomes/S. Gupta, B.N. Palen, E.C. Parsons, H.Q. Nguyen, V.S. Fan, Seattle, WA, p.A4961

P1373 Perception on the Exacerbation in Patients with COPD with Different Severity of Dyspnea/Y. Chen, W. Mi, M. Lu, W. Yao, Beijing, China, p.A4962

P1374 Factors Associated with Emergency Department Admission in COPD Exacerbations/W.M. Pruet, H. Smith, C. Ellis, Des Moines, IA, p.A4963

P1375 Predictors of Stable Discharge from the ED Observation Unit in COPD Exacerbation/M. Doers, S. Merriman, T. Loftus, R. Panos, M.A. Zafar, Cincinnati, OH, p.A4964

Facilitator: M.J. Joo, MD, MPH, Chicago, IL

P1376 One-Year Readmissions for COPD, Home Oxygen and NIV Use: The Current State in the United States/K. Chatterjee, A. Goyal, A.A. Innabi, S. Alam, Little Rock, AR, p.A4965

P1377 Characteristics of Patients with Airway Disease Who Opt-In to the Bedside Medication Delivery Program and Impact on Hospital Admissions and Emergency Department Visits/L. Rogers, P. Agarwal, R. Yu, D.L. Reich, M. Mazumdar, New York, NY, p.A4966

P1378 COPD Pharmacy Program/S. Patel, K. Gafoor, H.M. Belete, M. Oron, V. Shah, E.L. Altschul, G. Dunsky, B.A. Mina, New York, NY, p.A4967

P1379 The Impact of Pharmacists Versus Physicians on the Conversion from Intravenous (IV) to Oral (PO) Corticosteroids in Patients with Chronic Obstructive Pulmonary Disease (COPD)/A.F.A. Basillim, L. Calkins, M. Alshibani, S. Perona, Tucson, AZ, p.A4968

P1380 Steroid Dosing and Glucose Levels in COPD Patients Are Not Associated with Increased Readmissions/C. Boethel, A. Hochhalter, H.D. White, M. McGraw, K. Zolfaghari, J. Ettlenger, N. Mears, S.F. Jones, A. Arroliga, Temple, TX, p.A4969

P1381 The Utilization of COPD Specific Order Sets and Associated Clinical Outcomes/J. Gresens, S.E. Jolley, E. Price-Haywood, J. Burton, New Orleans, LA, p.A4970

P1382 The Impact of Respiratory Viral Panel Results on the Length of Stay in Patients Admitted for Acute Exacerbation of Chronic Obstructive Pulmonary Disease/M.I. Shafi, Y. Tarabichi, Cleveland, OH, p.A4971

P1383 Daily Care Conferences Decrease Chronic Obstructive Pulmonary Disease (COPD) Hospitalization Length of Stay in Community-Based Hospitals/R. Shilian, T. Abraham, B. Peppers, P.E. Oley, C. Wood, E. Giraldo, A. Cosic, B. Lyman, J. Wynbrandt, D. Jhaveri, R. Hostoffer, Cleveland, OH, p.A4972

P1384 Use of National Guidelines and Standards for the Management of Patients with COPD Improves Patient Care and Outcomes/M.C. Apps, D. Mukherjee, S. Abbas, J. Minter, J. Peacock, A. McCube, J. Khon, S. Field, M. Haigh, B. Hawkes, S. Webb, S. Barfield, P. Bannister, J. Finney, C. Wigmore, J. Downham, T. Gisby, S. Pearce, P. Rosier, L. Ateli, D. Carter, H. Olympio-Anang, S. Brooker, C. Goodrich, K.-A. Keeling, A. Kopacz, H. Hill, I. Young, Billerica, Essex, United Kingdom, p.A4973

P1385 The Outcome of an Integrated Care Intervention at a Tertiary Hospital for Patients with Chronic Obstructive Pulmonary Disease: A Retrospective, Single Center, Cohort Study of the Connecting Care to Home Program/J. Jackson, M. Povitz, C. Schultz, London, Canada, p.A4974

Facilitator: S. Rinne, MD, PhD, Bedford, MA

P1386 10-Day Follow-Up Not Associated with Reduction in COPD Readmission/J.B. Gutteridge, P. Agarwal, M. Mazumdar, S.S. Braman, New York, NY, p.A4975

P1387 Reducing Hospital Readmissions for Chronic Obstructive Pulmonary Disease Exacerbations: A Quality Improvement Project/B. Cochran, D. Padmanabhan Menon, J. Imam, M. Gibbs, M. Vissing, J. Beitel, T. Smith, S. Oman, R. Crews, L. Speicher, Jacksonville, FL, p.A4976

P1388 Multidisciplinary Team Approach to Reduce COPD Readmissions in a Tertiary Care Center/N. Wynn, N. Johnson, T.B.D. Ferreira, Miami, FL, p.A4977

P1389 A Majority of Readmissions After COPD Hospitalization Are Not COPD-Related: Implications for Readmission Reduction Programs/R.G. Buhr, S.E. Richter, N. Hsu, M.J. Flynn, I.Z. Barjaktarevic, C.B. Cooper, M.K. Ong, Los Angeles, CA, p.A4978

P1390 Causes and Prevention of Hospital Readmissions Secondary to Chronic Obstructive Pulmonary Disease: Comparing National Trends to Southern Appalachia/A. Albalbissi, J.M. Treece, E. Josan, C. Onweni, L. Kallur, V. Pai, P. Sankhyan, K.P. Nguyen, A. Mahajan, H.E.B. Storer, G.V. Hoskere, Johnson City, TN, p.A4979

- P1391 An Adaptive Predictive “APP” Utilizing an Artificial Neural Network (ANN) for Early Identification of Hospital Readmission Risks in COPD and Pneumonia Patients/A. Roberts, L. Wang, R. Ogunti, M. Puppala, S. Chen, T. He, X. Yu, A. Nezamabadi, S. Wong, A. Frost, R.E. Jackson, Houston, TX, p.A4980**
- P1392 Impact of Predictive Analytics to Identify Risk of Readmissions in COPD Patients for Better Management Post Discharge/G.J. Criner, X. Li, A. Rastogi, Philadelphia, PA, p.A4981**
- P1393 Revon Smart Symptom Tracker: A Mobile Diagnostic and Triage Application for Reducing COPD Exacerbations/S. Swaminathan, A.N. Gerber, K. Qirko, T. Smith, E. Corcoran, N. Wysham, Crestwood, KY, p.A4982**
- P1394 Feasibility of Using Android Smartwatches for Nearly Continuous Monitoring of Patients with COPD/R. Wu, D. Liaqat, E. de Lara, T. Son, F. Rudzicz, H. Alshaer, P. Abed, A.S. Gershon, Toronto, Canada, p.A4983**
- P1395 Characterizing Undiagnosed Chronic Obstructive Pulmonary Disease: A Systematic Review and Meta-Analysis/K.M. Johnson, S. Bryan, S. Ghanbarian, D. Sin, M. Sadatsafavi, Vancouver, Canada, p.A4984**
- Facilitator:** M.H. Roberts, PhD, MS, Albuquerque, NM
- P1396 Diagnostic Instability and Diagnosis Reversal in Veterans with COPD/R. Zuquello, M. Intriago, M.A. Campos, Miami, FL, p.A4985**
- P1397 Exacerbations and Medical Cost of Chronic Obstructive Pulmonary Disease According to Spirometry Severity/K.-S. Jung, Y.I. Hwang, S.H. Jang, S. Park, K.H. Yoo, Y.B. Park, C. Rhee, C.K. Rhee, C.K. Rhee, Anyang-si, Korea, Republic of, p.A4986**
- P1398 Comparison of Health Care Utilization and Medical Cost of Chronic Obstructive Pulmonary Disease Stratified by Spirometry Results/Y.I. Hwang, K.-S. Jung, S.H. Jang, K.H. Yoo, S. Park, J.Y. Park, C.K. Rhee, Anyang-si, Korea, Republic of, p.A4987**
- P1399 Evaluation of Spirometry Results in Women Older than 18 Years in the General Hospital of Mexico “Dr. Eduardo Liceaga/Y. Mares, M. Diaz, R. Hernandez, Mexico City, Mexico, p.A4988**
- P1400 Effects of Airway Obstruction and Hyperinflation on Electrocardiographic Axes in COPD/P. Alter, H. Watz, K. Kahnert, K.F. Rabe, F. Biertz, R. Fischer, P. Jung, J. Graf, R. Bals, C.F. Vogelmeier, R.A. Jörres, Marburg, Germany, p.A4989**
- P1401 Associations of Adherence to Medications for COPD and Hypertension and their Relationship to COPD Severity/A. Federman, K. Muellers, R. O’Conor, M. Wolf, J.P. Wisnivesky, New York, NY, p.A4990**
- P1402 Exacerbations, Health Resource Utilization, and Costs Among Medicare Beneficiaries with Chronic Obstructive Pulmonary Disease (COPD) Treated with Nebulized Arformoterol Following a Respiratory Event/M. Navaie, V. Ganapathy, T.P. Gilmer, Z. Xu, S. Cho-Reyes, B.R. Celli, New York, NY, p.A4991**
- P1403 Preference in Patients with COPD: A Comparison of the Single Inhaler Type ELLIPTA Versus Dual Inhaler Combinations/J. Van Der Palen, W. Moeskops-Van Beurden, W.-Y. James, C. Dawson, A. Preece, D. Midwinter, N. Barnes, R. Sharma, Enschede, Netherlands, p.A4992**
- P1404 Time to Achieve Correct Inhaler Use in Patients with COPD: A Comparison of the Single ELLIPTA Inhaler with Dual Inhaler Combinations/J. Van Der Palen, W. Moeskops-Van Beurden, W.-Y. James, C. Dawson, A. Preece, D. Midwinter, N. Barnes, R. Sharma, Enschede, Netherlands, p.A4993**
- P1405 Inhaler Errors in COPD: A Comparison of Using a Single Inhaler Type ELLIPTA Inhaler Versus Multiple Inhaler Types/J. Van Der Palen, W. Moeskops-Van Beurden, W.-Y. James, C. Dawson, A. Preece, D. Midwinter, N. Barnes, R. Sharma, Enschede, Netherlands, p.A4994**
- Facilitator:** S. Bosnic-Anticevich, BPharm, PhD, Glebe, Australia
- P1406 Burden of Symptoms Among Patients with COPD on LAMA Monotherapy/B. Hahn, R. Stanford, A.G. Hunter, B. Essoi, J. White, R. Ray, Research Triangle Park, NC, p.A4995**
- P1407 Predictors of Disease Burden in Patients with COPD on LAMA Monotherapy/B. Hahn, R.H. Stanford, A.G. Hunter, B. Essoi, J. White, R. Ray, Research Triangle Park, NC, p.A4996**
- P1408 Impact of COPD Maintenance Inhaler Costs Upon the Need for Acute Care/F. Celestin, F. Farooq, J.L. Breeze, P. LaCamera, Boston, MA, p.A4997**
- P1409 Differences in Healthcare Resource Use and Costs Between Post-Discharge Chronic Obstructive Pulmonary Disease Patients Treated with Dry-Powder Inhalers and Pressurized Metered-Dose Inhalers/E.T. Wittbrodt, L. Millette, G.T. Ferguson, K. Evans, M. Bonafede, J. Tkacz, Wilmington, DE, p.A4998**
- P1410 Baseline Characteristics and Treatment Patterns of New Users to Multiple Inhaler Triple Therapy/R.H. Stanford, M.S. Hull, E. Hulbert, A.R. Buikema, T.K. Reinsch, M. Bogart, Research Triangle Park, NC, p.A4999**
- P1411 Inhaler Prescription Pattern in Patients Over 90 Years of Age with Physician Diagnosed COPD in Inner City Chicago/M. Tole, I. Rubinstein, Chicago, IL, p.A5000**
- P1412 Do Blood Eosinophils Play a Role in Burden of Illness in Patients with COPD?/B. Hahn, H. Ortega, C. Bell, M.-H. Lafeuille, M.S. Duh, G. Germain, J.-P. Llanos, Research Triangle Park, NC, p.A5001**
- P1413 Comparison of Healthcare Utilization and Costs in Patients with Chronic Obstructive Pulmonary Disease Vs Asthma-Chronic Obstructive Pulmonary Disease Overlap Syndrome/L. Bengtson, S. Korror, Y. Fang, T. Bancroft, A.R. Buikema, Eden Prairie, MN, p.A5002**
- P1414 Predictors of Alpha-1 Antitrypsin Deficiency Among Medicare Beneficiaries with Chronic Obstructive Pulmonary Disease in the United States/C.M. Blanchette, G. Stone, R. Patel, E. Zacherle, J.M. Noone, R. Howden, Charlotte, NC, p.A5003**

P1415 Predictors of Alpha-1 Antitrypsin Deficiency Among Commercially Insured Chronic Obstructive Pulmonary Disease Patients in the United States/C.M. Blanchette, G. Stone, R. Patel, E. Zacherle, J.M. Noone, R. Howden, Charlotte, NC, p.A5004

THEMATIC POSTER SESSION

C43 TOPICS IN INTERVENTIONAL PULMONARY AND PLEURAL DISEASES

**9:15 a.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER
Area H (Hall A-B2, Ground Level)**

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: A. Majid, MD, Boston, MA

- P899 Pulmonary Alveolar Proteinosis Single Center Case Series Experience/M. Sierra-Ruiz, A.C. Chee, M.S. Parikh, S. Fernandez-Bussy, K. Fayez, A. Majid, Boston, MA, p.A5005**
- P900 Topical Mitomycin C Efficacy in Recurrent Tracheal Stenosis/H. Hall, J. Tonkin, J. Peh, E. Shaw, K. Ryan, B. Madden, London, United Kingdom, p.A5006**
- P901 Rational Use of Xpert MTB/RIF in EBUS-TBNA Samples in Patients from Indian Subcontinent: A Retrospective Study of 93 Patients/A. Bansal, A. Pratap, New Delhi, India, p.A5007**
- P902 A Retrospective Study on the Diagnostic Yield of Medical Thoracoscopy in Diagnosis of Exudative Pleural Effusion/S.S. Kho, M.C. Yong, S.K. Chan, S.T. Tie, Kuching, Malaysia, p.A5008**
- P903 Safety and Efficacy of Expect TM 25 and 22 Gauge EBUS Needle/S. Nuguru, K.J. Diab, Indianapolis, IN, p.A5009**
- P904 Outcomes of a Single-Center Experience with Electromagnetic Navigational Bronchoscopy/S. Alamro, B. Lindgren, G.E. Chau, H.D. Jones, J.A. Falk, Los Angeles, CA, p.A5010**
- P905 EGTA Therapeutic Lung Lavage for Pulmonary Alveolar Microlithiasis/Y. Uehara, N.M. Nikolaidis, L.B. Pitstick, K. LaSance, J.C. Woods, J. Guo, R.E. Wood, C. Towe, C. McCarthy, B.C. Carey, D. Black, L.C. Lemen, X. Wang, T.C. Lewis, E.J.-A. Kopras, B.C. Trapnell, F.X. McCormack, Cincinnati, OH, p.A5011**
- P906 Efficacy of Bronchoscopic Lung Volume Reduction for Severe Emphysema: A Meta-Regression/C. Thao, S. Thapa, J.S. Wang Memoli, M.P. Schreiber, Washington, DC, p.A5012**
- P907 The Association of Reactive Mediastinal and Hilar Lymphadenopathies with Congestive Heart Failure/A. Abu Sayf, B. Digiovine, M.J. Simoff, C. Ray, J. Diaz-Mendoza, Detroit, MI, p.A5013**
- P908 Chartist Measurement of Collateral Ventilation: Conscious Sedation Versus General Anesthesia/J. Welling, J.E. Hartman, N.H. Ten Hacken, H.A. Kerstjens, K. Klooster, D.-J. Slebos, Groningen, Netherlands, p.A5014**

Facilitator: R.A. Maxfield, MD, New York, NY

- P909 Safety and Effectiveness of Endobronchial Ultrasound (EBUS) Guided Intranodal Forcep Biopsies/A.K. Mahajan, D. Collins, K. Webster, H. Mani, S. Khandhar, Falls Church, VA, p.A5015**
- P910 Bronchoscopic Lung Volume Reduction with Nitinol Coils for the Treatment of Emphysema: Systematic Review and Meta-Analysis/T. Vandemoortele, D. St-Pierre, G. Courteau-Godmaire, Montreal, Canada, p.A5016**
- P911 Utility of Transbronchial Biopsy in Management Decisions Among Immunocompromised Patients with Pulmonary Processes/M.H. Bourne, E.S. Edell, Rochester, MN, p.A5017**
- P912 Benign Central Airway Obstruction: Optimal Sizing of Silicone Airway Stents/J. Karush, L. Jordano, C. Seder, J. Coughlin, S. Basu, G. Chmielewski, M. Liptay, A. Arndt, Chicago, IL, p.A5018**
- P913 Role of Endobronchial Ultrasound Guided Miniforceps Biopsy in Mediastinal Lesions/M. Kondapaneni, J. Bowen, Mount Vernon, IL, p.A5019**
- P914 Transbronchial Lung Cryobiopsy in the Diagnosis of Interstitial Lung Disease: A Retrospective Single Center Experience/R.J. Cho, F.D. Zamora, H. Gibson, E. Dincer, Edina, MN, p.A5020**
- P915 Trends in Bronchoscopies with the Introduction of Interventional Pulmonology at an Academic Medical Center/J.W.-H. Parrish, D.W. Hsia, Torrance, CA, p.A5021**
- P916 Radiographic Characterization of Coil Associated Opacities/J. Killam, G.C. Michaud, W. Moore, New Haven, CT, p.A5022**
- P917 The Use of Indwelling Pleural Catheters for Hepatic Hydrothorax/C.M. Kniese, K.J. Diab, M. Ghabril, G.T. Bosslet, Indianapolis, IN, p.A5023**
- P918 Moderate Sedation and Airway Preparation Practices in Bronchoscopy: Variation in Practices, Education and Impact of 2011 ACCP Guidelines/D. Roto, M. Malnoske, C. Manganaris, M. Nead, S. Khurana, Rochester, NY, p.A5024**
- Facilitator:** F.C. Sciruba, MD, Pittsburgh, PA
- P919 Characteristics and Prognostic Significance of Pleural Effusions in Multiple Myeloma/S. Dogra, M.T. Warner, G.A. Eapen, L. Bashoura, C.A. Jimenez, S.A. Faiz, Houston, TX, p.A5025**
- P920 Ambulatory Management of Large Spontaneous Pneumothorax with Small Bore Catheters: A Prospective Multicentre Cohort Study/A. Salé, M. Le Garrec, M. Champion, L. Sohier, S. Jouneau, Rennes, France, p.A5026**
- P921 Ultrasonographic Characteristics of Tunnel Tract Infections in Indwelling Pleural Catheters/N. Fitzpatrick, G.Z. Cheng, J. Cardenas-Garcia, Hershey, PA, p.A5027**
- P922 Exudative Effusions from Organ Dysfunction: Getting to the Heart of the Matter/S. Walker, A. Morley, E. Keenan, N.A. Maskell, Bristol, United Kingdom, p.A5028**
- P923 Characteristics of Indwelling Pleural Catheter Related Infections/E. Rivera, A. Majid, A. Chee, V. Holden, T. LeClair, S. Fernández-Bussy, M. Parikh, Boston, MA, p.A5029**

- P924 Diagnostic Value of Medical Thoracoscopy in Malignant Pleural Effusion Induced by Non-Hodgkin's Lymphoma/** W. Wen, Beijing, China, p.A5030
- P925 Followup Chest X-Rays May Not Be Needed After Chest-Tubes Removal in Postoperative Cardiothoracic Patients/**I. Ratnani, F. Hirani, D. Bawa, Houston, TX, p.A5031
- P926 Survival And Pleurodesis Response Markers In Malignant Pleural Effusion-The Promise Study/**I. Psallidas, N. Kanellakis, S. Gerry, M. Thézéas, C. Phil, A. Samsonova, H.B. Schiller, R. Fischer, R. Asciak, R. Hallifax, R. Mercer, M. Dobson, T. Dong, I. Pavord, G. Collins, B. Kessler, H. Pass, N. Maskell, G. Stathopoulos, N.M. Rahman, Oxford, United Kingdom, p.A7766
- P927 Prospective Validation of The RAPID Clinical Risk Prediction Score in Patients with Pleural Infection: The Pleural Infection Longitudinal Outcome Study (PILOT)/**J.P. Corcoran, I. Psallidas, S. Gerry, F. Piccolo, C.F. Koegelenberg, T. Saba, C. Daneshvar, I. Fairbairn, R. Heinink, A. West, A.E. Stanton, J. Holme, J.A. Kastelik, H. Steer, N.J. Downer, M. Haris, E.H. Baker, C.F. Everett, J. Pepperell, T. Bewick, L.B. Yarmus, F. Maldonado, B. Khan, A. Hart-Thomas, G. Hands, G. Warwick, M. Munavvar, A. Guhan, M. Shahidi, Z.E. Pogson, L. Dowson, N. Ward, J. Saba, C. Read, R. Bhatnagar, R.J. Hallifax, M. Dobson, R. Shaw, E.L. Hedley, A. Sabia, B. Robinson, G.S. Collins, H.E. Davies, L.-M. Yu, N.A. Maskell, R.F. Miller, N.M. Rahman, Oxford, United Kingdom, p.A7767
- P1421 Bronchiectasis in Indian Patients of Chronic Obstructive Pulmonary Disease/**D.P. Bhadoria, C. Vermani, G.S. Pradhan, K.M. Srikant, R.K. Mummorthy, K. Goyal, P. Bhadoria, P. Bharti, New Delhi, India, p.A5036
- P1422 Is Chronic Breathlessness Less Recognized and Treated Compared with Chronic Pain? A Case-Based Randomised Controlled Trial/**M.P. Ekstrom, J. Sandberg, D. Currow, Z. Ahmadi, Lund, Sweden, p.A5037
- P1423 Artificial Neural Networks to Classify the Severity for Exacerbation Acute of Chronic Obstructive Pulmonary Disease/**A.R. Bastidas, G.A. Hincapie Diaz, B. Mantilla Cardozo, R. Cadavid, Chía, Colombia, p.A5038
- P1424 Validity CURB 65, BAP 65, DECAF for Predicting Outcomes in Exacerbation of COPD/**A.R. Bastidas, G.A. Hincapie Diaz, B. Mantilla Cardozo, C.A. Ramirez Sierra, T.G. Valencia Castaño, Chía, Colombia, p.A5039
- P1425 Assessment of Lung Function Among Patients Previously Treated for Pulmonary Tuberculosis at Tikur Anbessa Specialized Hospital, Addis Ababa, Ethiopia/**A. Bindegdie, C.B. Sherman, N.W. Schluger, Addis Ababa, Ethiopia, p.A5040
- P1426 The Correlation of VE/VCO2 Slope with the Bode Index and Quality of Life in Patients with COPD/**M. Mirdamadi, B. Rahimi, M. Arabian, Tehran, Iran, Islamic Republic of, p.A5041

Facilitator M.E. O'Brien, MB BCH, PhD, Pittsburgh, PA

- P1427 Transpleural Ventilation in Patients with Severe Emphysema Undergoing Thoracic Surgical Procedures: A Pilot Study/**B. Redwan, C. Biancosino, M. Chahla, K.R. Parekh, M.H. Eberlein, S. Bolukbas, Wuppertal, Germany, p.A5042
- P1428 Yamagata University Hospital's Criteria for Discriminating Patients Overlapping Asthma Among COPD Patients/**H. Machida, Yamagata, Japan, p.A5043
- P1429 Role of Comorbidities in the Functional Evaluation of Patients with Non-Fibrocystic Bronchiectasia/**L.V.T. dos Reis, R.E.B. Salles, S.P. Mateus, W. Costa, R.I.B. Salles, R.I.B. Salles, A.P. Santos, Rio de Janeiro, Brazil, p.A5044
- P1430 Comparison of Immunoglobulins in COPD Patients Between with and Without Bronchiectasis/**J.-H. Park, J.-K. Lee, E.Y. Heo, H.S. Chung, D.K. Kim, Seoul, Korea, Republic of, p.A5045
- P1431 Current Smoking Alters the Oral Microbiome in Subjects with COPD/**N. Gaeckle, A. Pragman, T. Gould, C. Wu, G.J. Criner, Minneapolis, MN, p.A5046
- P1432 A Clinical Study of AECOPD in Southern China/**M. Mao, Wuxi, China, p.A5047
- P1433 COPD Physical Therapy Program/**S. Patel, K. Gafoor, H.M. Belete, M. Oron, V. Shah, E.L. Altschul, J. Homan, B. McCaffrey, B.A. Mina, New York, NY, p.A5048
- P1434 Clinical Impacts of the Classification System by 2017 GOLD Guideline Comparing with Previous Ones in Korean COPD Cohorts/**D.-K. Kim, J.H. Song, C.-H. Lee, H. Yoon, C.K. Rhee, K.H. Yoo, T.-H. Kim, Y.-M. Oh, S.D. Lee, J.-H. Park, J.L. Lee, J.-K. Lee, E.Y. Heo, H.S. Chung, Seoul, Korea, Republic of, p.A5049

THEMATIC POSTER SESSION

C44 CLINICAL ISSUES IN COPD II

9:15 a.m. - 4:15 p.m. **SAN DIEGO CONVENTION CENTER**
Area L (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: R.D. Yusen, MD, MPH, St. Louis, MO

- P1417 Analysis of the Effectiveness of Vaccination with Conjugated Pneumococcal Vaccine in Patients with Chronic Obstructive Pulmonary Disease in 4 Years of Observation/**G. Ignatova, V. Antonov, Chelyabinsk, Russian Federation, p.A5032
- P1418 Primary Care COPD Case Finding at Risk Population. Does PEF Adds Something?/**C. Rodriguez Flores, M.V. Lopez Varela, E. Pacheco, M. Mamchur, M.J. Nuñez, K. Rabuñal, F. Gimenez, A. Tempone, K. Fagundez, C. Silva, Montevideo, Uruguay, p.A5033
- P1419 Impact of Chronic Obstructive Pulmonary Disease in Patients Admitted with Pulmonary Embolism/**V. Santibanez, D. Pan, F. Vazquez de Lara, M. Rodriguez, B. Sabharwal, J.P. Mathew, New York, NY, p.A5034
- P1420 A Ventilation Strategy to Target Blocked Regions of a Symmetric Lung Structure During Aerosolized Particle Delivery/**A.H. Sonnenberg, E. Taylor, M. Grinstaff, B. Suki, Boston, MA, p.A5035

P1435 Flossing and Regular Dental Visits in Patients with COPD Is Associated with Fewer Days with Worse Respiratory Symptoms/B. Heyman, A. Criner, N. Gaeckle, Z. Smith, K. Rybicki, G.J. Criner, Philadelphia, PA, p.A5050

P1436 Ventilatory Inefficiency on Cardiopulmonary Exercise Testing: A Manifestation of Small Airways Dysfunction/E. Clemetson, R.C. Stansbury, R. Raiker, E.L. Petsonk, Morgantown, WV, p.A5051

Facilitator: B.M. Thomashaw, MD, New York, NY

P1437 Are Trunk Pain and Hyperkyphosis Associated with Vertebral Deformity and Arthropathy in Chronic Obstructive Pulmonary Disease (COPD)?/Y.-W. Chen, H.O. Coxson, T.M. Coupal, S. Lam, P.L. Munk, J. Leipsic, W.D. Reid, Vancouver, Canada, p.A5052

P1438 The Effect of Underlying Atrial Fibrillation in Patients with Acute Exacerbation of Chronic Obstructive Pulmonary Disease/V. Santibanez, D. Pan, F. Vazquez de Lara, M. Rodriguez, B. Sabharwal, J.P. Mathew, New York, NY, p.A5053

P1439 Short Term Reliability of CAT, mMRC and SGRQ for Identifying “Symptomatic” Smokers Using Established Cutoffs/S. Patel, W.H. Anderson, R.G. Barr, I. Barjaktarevic, E.R. Bleecker, R.P. Bowler, E. Carretta, S. Christenson, C.B. Cooper, A.P. Comellas, D. Couper, G.J. Criner, J.L. Curtis, M.T. Dransfield, N.N. Hansel, M.K. Han, E.A. Hoffman, R.E. Kanner, J.A. Krishnan, S.C. Lazarus, F.J. Martinez, R. Paine, P. Woodruff, San Francisco, CA, p.A5054

P1440 Aerosol Furosemide (80 mg) for the Treatment of Exercise-Induced Dyspnea/R. Hallowell, C. O'Donnell, A.R. Sheridan, R.M. Schwartzstein, R.W. Lansing, R.B. Banzett, Boston, MA, p.A5055

P1441 Classifying Patients as GOLD A-D According to GOLD 2017 Recommendations: An Analysis of the German Real-Life DACCORD Study/H. Worth, R. Buhl, C.P.P. Criée, P. Kardos, N. Lossi, C. Vogelmeier, Fuerth, Germany, p.A5056

P1442 Assessing the Concept of Clinical Control in COPD from the SPARK Study Population/M. Miravittles, K. Mezzi, K. Kostikas, S. Shen, B. Alcázar-Navarrete, J.J. Soler-Cataluña, M. Barrecheguren, J.A. Wedzicha, Barcelona, Spain, p.A5057

P1443 Endothelial and Platelet Activation in the Multi-Ethnic Study of Atherosclerosis (MESA) COPD Study/C.P. Aaron, E.A. Hoffman, M.R. Prince, E. Hughes, S. Dashnaw, C.M. Lo Cascio, E. Oelsner, W. Shen, Y. Sun, J. Vogel-Claussen, J. Wild, R.P. Tracy, R.G. Barr, New York, NY, p.A5058

P1444 Venous Thrombo Embolism and COPD: Don't Take this Laying Down!/H. Koneru, S.A. Evans, A. Berger, P.F. Simonelli, R. Evans, Danville, PA, p.A5059

P1445 Safety and Efficacy of Oxygen Delivery Via High Flow Nasal Cannula (HFNC) in Patients with Structural Lung Disease and Chronic Respiratory Failure/A. Attaway, J.A. Faress, F. Jacono, Cleveland, OH, p.A5060

P1446 Undiagnosed Chronic Obstructive Pulmonary Disease In Patients Undergoing Cardiac Catheterization/A.M. Ibnian, A.-H.W. Al-Mistarehi, A.A. Zghayer, S.I. Abuqudairi, S.M. Samrah, M.I. Jarrah, R.K. Ibdah, B.Y. Khassawneh, Irbid, Jordan, p.A5061

THEMATIC POSTER SESSION

C45 CRITICAL CARE: AGAINST THE WIND - ARDS FROM IDENTIFICATION TO MANAGEMENT TO OUTCOMES

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area E (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: J. Mancebo, MD, PhD, Barcelona, Spain
D. Sanghavi, MBBS, MHA, Chatham, IL

P429 Severe Hypoxemia in Intensive Care Unit (ICU) Patients without the Acute Respiratory Distress Syndrome (ARDS)/S. Li, A.L. Chang, N. Karimipour, M.M. Lee, S. Iyer Kumar, J.M. Liebler, Los Angeles, CA, p.A5062

P430 What's in a Chest Radiograph? Inter-Rater Variability in Determining Acute Respiratory Distress Syndrome/S. Fountain, S. Assar, C. Heise, S. Curry, R.A. Raschke, Phoenix, AZ, p.A5063

P431 Acute Respiratory Distress Syndrome Prediction and Identification Tools: A Systematic Review/M. Wayne, T.S. Valley, C.R. Cooke, M. Sjoding, Ann Arbor, MI, p.A5064

P432 Early Recognition of Acute Respiratory Distress Syndrome in a Tertiary Care Cardiac and Medical Intensive Care Unit: A Retrospective Cohort Study/S. Paramore, S.A. Nonas, Portland, OR, p.A5065

P433 Ventilator Management in ARDS: A Single Academic Center Experience/A. Damodaran, J.E. Kuppy, N. Levytska, S. Sanyal, J.G.N. Garcia, S.M. Dudek, P.G. Belvitch, Chicago, IL, p.A5066

P434 Outcomes in Patients with ARDS: A Comparison of Volume Vs Pressure Driven Mechanical Ventilation/A. Green, H.B. Gershengorn, M.N. Gong, Camden, NJ, p.A5067

P435 Effects of Prone Position in Obese Patients with ARDS After Cardiothoracic Surgery/F. Stephan, J. Perrier, A. Moore, C. Serfati, A. Imbert, P. Amaru, Le Plessis Robinson, France, p.A5068

P436 Feasibility of Prone Ventilation in Resource Limited Setting in Rural Based Hospital in India: A Pilot Study/T. Laux, B. Ghali, B. Seth, S. Jajoo, San Francisco, CA, p.A5069

P437 Prone Position Ventilation Is Associated with Better Outcomes in Obese Patients with Moderate to Severe Acute Respiratory Distress Syndrome/A. Panitchote, S. Krishnan, E. Mireles-Cabodevila, A. Duggal, Cleveland, OH, p.A5070

Facilitators: J.R. Beitler, MD, MPH, San Diego, CA
J.P. Reilly, MD, MSCE, Philadelphia, PA

P438 Use of Adjunctive Therapy in ARDS: Results from the Severe ARDS Generating Evidence (SAGE) Study/N. Qadir, P.K. Park, R.R. Bartz, M. Cooter, M.J. Lanspa, J.-T.T. Chen, V. Banner-Goodspeed, D. Gomaa, M.W. Sjoding, A. Duggal, A. Khanna, N. Hajizadeh, R. Kashyap, A. Khan, S.Y. Chang, J.E. Tonna, H.L. Anderson, III, J.M.

- Liebler, J.M. Mosier, I.K. Louh, P.E. Morris, A. Genthon, M.A. Tidswell, R.S. Stephens, D.J. Dries, A. Martinez, A. Tiwari, A.M. Esper, P.K. Guru, K. Schreyer, C.T.L. Hough, W. Bender, S. Hanna, T. Chen, J.M. Komisarow, M.N. Gong, Los Angeles, CA, p.A5071
- P439 Treatment Modalities and Outcomes of Patients with Severe Influenza A Pneumonia: 2016 Versus 2009/H.** Choi, C.R. Chung, U.W. Ko, S.-B. Hong, Seoul, Korea, Republic of, p.A5072
- P440 Nucleated Red Blood Cells as Predictors of Mortality in Patients with Acute Respiratory Distress Syndrome (ARDS): An Observational Study/M.** Menk, L. Giebelhäuser, G. Vorderwülbecke, M. Gaßner, J.A. Graw, S. Weber-Carstens, Berlin, Germany, p.A5073
- P441 Carboxyhemoglobin and Survival Outcome in Patients with Acute Respiratory Distress Syndrome/W.J.** Hsia, M. Kunsoruska, B. Jafari, Orange, CA, p.A5074
- P442 Assessment of Gradients Between Partial Pressure of Arterial CO₂ and End Tidal CO₂ in ARDS/F.S.** Abdalrazik, M.O. Elghonemi, Cairo, Egypt, p.A5075
- P443 Validation of Age, PaO₂/FiO₂ and Plateau Pressure Score in Korean Acute Respiratory Distress Syndrome Patients/H.** Hwang, S.M. Choi, J. Lee, Y.S. Park, C.-H. Lee, J.-J. Yim, C.-G. Yoo, Y.W. Kim, S.K. Han, S.-M. Lee, Seoul, Korea, Republic of, p.A5076
- P444 Blood Transfusions Worsen 28-Day Mortality in ARDS/A.** Levin, J. Wu, D. Wacker, M. Bhargava, Minneapolis, MN, p.A5077
- P445 The Role of Visceral Adipose Tissue and Subcutaneous Adipose Tissue Predict Clinical Outcomes for Patients with Acute Respiratory Distress Syndrome/Y.** Ni, T. Wang, B. Liang, Z. Liang, Chengdu, China, p.A5078
- P446 Critical Care Clinical Trial Reported Data Elements: Review of the Literature/V.W.** Chow, J.C. O'Horo, R.R. Bartz, R. Kashyap, Lebanon, NH, p.A5079
- P450 Audiovisual Tool Use in the Intensive Care Unit, to Impact the Anxiety Level of Patients' Surrogates While Deciding on Cardiopulmonary Resuscitation: A Descriptive Analysis of Preliminary Data/T.M.** Ferrer Marrero, K. Shah, M. Barash, B. Jaber, P. Kennedy, J. Graf, S. Zellner, J. Kryworuchko, J. Patel, Milwaukee, WI, p.A5082
- P451 Factors Predicting Patients that Will Not Benefit from Invasive Mechanical Ventilation/T.** Ozlu, M.P. Kucuk, A. Kaya, E. Yasar, C. Kirakli, O.S. Dikis, H.K. Celik, S. Ozkan, H. Bektas Aksoy, O.A. Kucuk, O. Palabiyik, M. Cortuk, R. Ergun, B. Kozanhan, O.E. Diken, F. Bacakoglu, S.U. Kaya, I. Aksoy, H. Cinemre, A. Zerman, A. Usalan, I.O. Turan, Trabzon, Turkey, p.A5083
- P452 Contributors to ICU Clinicians' Predictions of Patient Outcomes: A Qualitative Analysis/A.** Buehler, I. Ciuffetelli, A. Delman, S. Kent, D. Bayard, E. Cooney, S.D. Halpern, M.E. Detsky, La Jolla, CA, p.A5084
- P453 Dying to Travel - Characteristics and Outcomes of Patients Made Do-Not-Resuscitate Within 24 Hours of Admission from an Outside Hospital to MD Anderson Cancer Center ICUs/J.** Myers, J. Melancon, K. Bratcher, J. Campbell, C. Gutierrez, L. Feng, Houston, TX, p.A5085
- P454 International Transport of Critically-Ill Cancer Patients for End-Of-Life Care in Their Countries of Origin: A Retrospective Analysis/M.** Gale, N. Kostecky, N. Halpern, L.P. Voigt, New York, NY, p.A5086
- P455 Implementation of a Goals of Care Documentation Template for Code Status Discussions in the Medical Intensive Care Unit/A.** Doyle, A.B. Kaye, E. Chen, Chicago, IL, p.A5087
- Facilitators:** K.M. Akgun, MD, MS, New Haven, CT
M.E. Wilson, MD, Rochester, MN
- P456 Goals of Care Documentation and Palliative Care Consultations for Patients Who Die with Acute Respiratory Failure in the Medical ICU/C.** Morse, J. Steiner, R.A. Engelberg, L. Downey, J.R. Curtis, E.K. Kross, Seattle, WA, p.A5088
- P457 Latent Class Analysis of Specialized Palliative Care Utilization in Adult Intensive Care Units from a Single Academic Medical Center/D.** Wang, C. Ing, C. Blinderman, M. Hua, New York, NY, p.A5089
- P458 Exploring the Provision of Primary and Specialty Palliative Care Services in Critically Ill Older Adults by Pre-Hospitality Frailty/O.** Enilari, R. Nair, E. Chuang, M.N. Gong, A.A. Hope, Albert Einstein College of Medicine, Bronx, NY, p.A5090
- P459 Utilization and Associated Outcomes of Consultative Palliative Care in Intensive Care Unit Patients Nearing End of Life/G.** George, E. Gupta, M. Bocchese, U. Vaid, D. Oxman, Philadelphia, PA, p.A5091
- P460 Continuous Renal Replacement Therapy as a Trigger for Palliative Care Consults/J.Y.** Fung, J. Scherer, New York, NY, p.A5092
- P461 End of Life Care in Prisoners Admitted to an ICU/P.W.** Stevenson, J.L. Chertoff, H. Mehta, Gainesville, FL, p.A5093

THEMATIC POSTER SESSION

C46 CRITICAL CARE: HUMAN TOUCH - PATIENT AND FAMILY ENGAGEMENT AND PALLIATIVE CARE

9:15 a.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER

Area E (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: A.C. Long, MD, MS, Seattle, WA

P448 Peer Support in Critical Care: A Systematic Review/K.J. Haines, S. Beesley, R.O. Hopkins, J. McPeake, T. Quasim, K. Ritchie, T.J. Iwashyna, Melbourne, Australia, p.A5080

P449 The Associations of Invasive Procedures and Subsequent Psychiatric Diagnoses/A. Shojaee, N. Kaminski, M.A. Pisani, Y. Liu, J.M. Siner, New Haven, CT, p.A5081

THEMATIC POSTER SESSION

C47 CRITICAL CARE: LOCOMOTIVE BREATH - NON-CONVENTIONAL MECHANICAL VENTILATION, NIV, HIGH FLOW, AND ECMO9:15 a.m. - 4:15 p.m. **SAN DIEGO CONVENTION CENTER****Area E (Hall A-B2, Ground Level)****Viewing:** Posters will be on display for entire session.**Discussion:** 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators**Facilitators:** B. Kraft, MD, Durham, NC
T.J. Bice, MD, MSc, Chapel Hill, NC

- P463 Efficacy of Noninvasive Ventilation at Home (NIV) in a Cohort of Patients/M.C. Matute Villacis, M. Suarez, V. Lugo, O. Garmendia, P. Gomez, L. Nuñez, J.M. Montserrat, C. Embid, Barcelona, Spain, p.A5094**
- P464 Prolonged Non-Invasive Positive Pressure Ventilation After Cardiac Surgery: Predictor and Outcomes/P. Chen, H.-K. Ko, Taipei, Taiwan, p.A5095**
- P465 Influence of Non-Invasive Ventilation Mask on CO2 Washout and Synchrony in a Lung Model Simulating Chronic Obstructive Pulmonary Disease and Hypercapnia/B.R. Macedo, F. Diniz Silva, J.V. Pinaffi, F.M.P. Rego, J.C. Ferreira, Sao Paulo, Brazil, p.A5096**
- P466 Under Humidified Pressure of Non-Invasive Ventilation (NIV): Measurement of Skin Integrity Markers at the NIV Mask-Skin Interface/J.S. Alqahtani, P. Worsley, D. Voegeli, Dammam, Saudi Arabia, p.A5097**
- P467 Use of RAM Cannula for Respiratory Failure and Subsequent Intubation Rates in the Pediatric Intensive Care Unit/M. Maamari, G. Miyashita, M.P. Sharron, Washington, DC, p.A5098**
- P468 A Review of the Use of High Flow Nasal Cannula on a Respiratory Ward in a District General Hospital/C. Ferguson, M. Boyle, M. Drain, Antrim, United Kingdom, p.A5099**
- P469 Use of High Flow Nasal Cannula to Prevent Oro Tracheal Intubations in Children and Infants with Severe Acute Respiratory Failure in the Emergency Department/D. Perusso, P.V.G. Andrade, F.A. Ferrante, K.F. Mediotti, J.K.S. Mizutani, P.S. Oliveira, P.C. Silva, Sao Paulo, Brazil, p.A5100**
- P470 Effect of a Strict Spontaneous Breathing Trial and High Flow Nasal Cannula on Reintubation Rate: A Quality Improvement Project/B.-C. Tran, S. Williams, A.C. Verceles, K. Hoffman, A. Heward, B. Thapa, N.G. Shah, C.B. Shanholtz, K.S. Robinett, Baltimore, MD, p.A5101**
- P471 Characterizations of High Flow Nasal Cannula Use in a Teaching Community Hospital in New York City/E.L. Altschul, Y. Mogilevskaya, A. Schwab, B.A. Mina, New York, NY, p.A5102**
- P472 Effectiveness of High-Flow Nasal Cannula Oxygen Therapy for Acute Respiratory Failure with Hypercapnia/E.S. Kim, H. Lee, K. Se Joong, J. Park, Y.J. Lee, J.S. Park, H.I. Yoon, L. Jae Ho, L. Choon-Taek, Y.-J. Cho, Seongnam-si, Korea, Republic of, p.A5103**
- P473 Can Nasal High Flow Respiratory Support Be Used in Type II Respiratory Failure?/J.F. Martin - Lazaro, M.T. Brys, R. Despinye, P. Tsiotsi, B. Salzmann, J. Napier, London, United Kingdom, p.A5104**
- P474 Effects of Nasal High Flow Therapy on PaCO2 in COPD Patients with Stable Hypercapnic Respiratory Failure: A Pilot Study/L. Pisani, L. Fasano, A. Verhovez, V. Comellini, S. Nava, Bologna, Italy, p.A5105**
- Facilitators:** J.E. Levitt, MD, MSci, Stanford, CA
M.E. Prekker, MD, MPH, Minneapolis, MN
- P475 Safety and Feasibility of High Flow Nasal Oxygen in the Hypoxic Fluid Overloaded Patient/L. Miyakawa, H. Gupta, S. Ocasio, P.S. Patrawalla, D. Steiger, New York, NY, p.A5106**
- P476 High-Flow Oxygen in Patients with Acute Exacerbation of Idiopathic Pulmonary Fibrosis/A. Salé, S. Marchand Adam, M. Le Garrec, M. Kerjouan, P. Diot, S. Jouneau, Rennes, France, p.A5107**
- P477 Use of Aerosolized Epoprostenol Is Associated with Improvements in Gas Exchange and Hemodynamics in Critically Ill Patients/H.A. Jaliawala, J. Tsui, R.J. Bernardo, B.R. Brown, Oklahoma City, OK, p.A5108**
- P478 Perceived Safety and Efficacy of Continuous High Frequency Oscillation for Bronchial Hygiene by Respiratory Therapists: A Single Center Survey/H. Ateeli, C. Bime, Tucson, AZ, p.A5109**
- P479 Safety and Efficacy of Continuous High Frequency Oscillation for Airway Clearance in Mechanically Ventilated Patients: A Single Center Retrospective Review/H. Ateeli, B. Jarrett, R. Swazo, R. Young, J. Sandoval, J. Hernandez, M. Torabi, M. Borgstrom, C. Bime, Tucson, AZ, p.A5110**
- P480 Recognizing Occult Atelectasis During Airway Pressure Release Ventilation/W.M. LeTourneau, A.C. Schramel, J.Y. Findlay, Rochester, MN, p.A5111**
- P481 Influence of Blood Flow and Recirculation Volume on Thermodilution-Based Measurements of Cardiac Output During Extracorporeal Membrane Oxygenation in Pigs/M. Russ, E. Steiner, R.C. Francis, W. Boemke, T. Busch, E.R. Swenson, P.A. Pickerodt, Berlin, Germany, p.A5112**
- P482 The Entire Coagulation Process Is More Important than APTT/ACT Monitoring Alone in the Anticoagulation Management of VV-ECMO/T. Xiao, B. Sun, X. Li, Beijing, China, p.A5113**
- P483 Observational Case-Control Comparison of Bivalirudin Versus Heparin Anticoagulation for Adult Extracorporeal Membrane Oxygenation (ECMO)/J.K. Bohman, L. Yi, T. Seelhammer, Rochester, MN, p.A5114**
- P484 Extracorporeal Membrane Oxygenation Support Through Protek Duo Cannula: A Case Series/H.A. Memon, I. Ratnani, F. Masud, Houston, TX, p.A5115**
- P485 Management of US Patients with ARDS Requiring ECMO: Results of the Severe ARDS Generating Evidence (SAGE) Study/N. Qadir, Los Angeles, CA, p.A5116**
- P486 Pneumonia Before, On and After ECMO/E. Gupta, M. Baram, H. Hitoshi, N. Cavarocchi, Philadelphia, PA, p.A5117**
- P487 Failure of Conventional Mechanical Ventilation in Obesity: Is High Frequency Percussive Ventilation an Answer/S. Patel, F. Khusid, R. Minkin, Brooklyn, NY, p.A5118**

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

THEMATIC POSTER SESSION

C48 CRITICAL CARE: UNDER PRESSURE - VENTILATOR INDUCED LUNG INJURY

9:15 a.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER

Area E (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators L.J. Brochard, MD, Toronto, Canada

Facilitators: L.J. Brochard, MD, Toronto, Canada
H.E. Faust, MD, Philadelphia, PA

- P489 Different Patterns of Neutrophilic Inflammation in Collapsed Versus Aerated Lung During Experimental Single-Lung Ventilation/M.F. Vidal Melo, G.C. Motta Ribeiro, T. Hinoshita, M.A. Lessa, K. Grogg, T. Winkler, C. Zeng, Boston, MA, p.A5119**
- P490 Lowering Surface Tension in ARDS Model Rats Improves Oxygenation and Reduces Ventilation Injury/Y. Wu, C.E. Perlman, Hoboken, NJ, p.A5120**
- P491 Carbonic Anhydrase Inhibition And Ventilator-Induced Lung Injury In Rats/E. Steiner, P.A. Pickerodt, R.C. Francis, W. Boemke, M. Russ, J.-A. Graw, A. Gonzalez-Lopez, T. Busch, E.R. Swenson, Berlin, Germany, p.A5121**
- P492 Variable Ventilation Is Superior to Conventional Recruitment for Reversal of Atelectasis in Anesthetized Pigs/L. Vivona, A. Braune, T. Bluth, T. Kiss, M. Kircher, C. Bozsak, R. Huhle, M. Scharffenberg, M. Herzog, J. Roegner, M. Millone, O. Doessel, M. Andreeff, T. Koch, J. Kotzerke, B. Stender, M. Gama de Abreu, Napoli, Italy, p.A5122**
- P493 Impact of Different Levels of Tidal Volume at Low Mechanical Power on Ventilator-Induced Lung Injury in Rats/L. Moraes, P.L. Silva, A. Thompson, C.L. Santos, R.S. Santos, M.V. Fernandes, V. Martins, V. Capelozzi, M. Gama de Abreu, P. Pelosi, P.R.M. Rocco, Rio de Janeiro, Brazil, p.A5123**
- P494 Biological Impact of Mechanical Power at High and Low Tidal Volume in Experimental Mild Acute Respiratory Distress Syndrome/R. Santos, L. Maia, M.V. de Oliveira, C. Santos, L. Moraes, C.S. Samary, E.F. Pinto, J. Machado, A.C. Carvalho, M.V. Fernandes, V. Martins, V. Capelozzi, T. Koch, M. Gama de Abreu, P. Pelosi, P.L. Silva, P.R.M. Rocco, Rio de Janeiro, Brazil, p.A5124**
- P495 Spontaneous Breathing Activity Correlates with Regional Lung Inflammation at Inappropriate Low Positive End-Expiratory Pressure in Experimental Moderate ARDS/J.J.M. Wittenstein, T. Kiss, T. Bluth, A. Braune, R. Huhle, M. Herzog, L. Vivona, A. Bergamaschi, M. Andreeff, M. Scharffenberg, M.V. Melo, T. Koch, P.R.M. Rocco, P. Pelosi, J. Kotzerke, M. Gama de Abreu, Dresden, Germany, p.A5125**
- P496 Onset and Magnitude of Pendelluft During Spontaneous Breathing Depend on Lung Volume/M. Pellegrini, G. Hedenstierna, A. Roneus, A.S. Larsson, G. Perchiazzi, Uppsala, Sweden, p.A5126**

- P497 Time-Controlled Adaptive Ventilation Minimizes Ventilator-Induced Lung Injury in Experimental Pneumonia/R.F. Magalhaes, C.D.S. Samary, D.G. Cruz, M.V. Oliveira, C.L. Braga, M.A. Antunes, J.A. Machado, M.V.S. Fernandes, R.V. Ribeiro, C.F. Gonçalves de Albuquerque, A.R. Silva, J. Satalin, P. Andrews, N.M. Habashi, G.F. Nieman, P.R.M. Rocco, P.L. Silva, Rio de Janeiro, Brazil, p.A5127**
- P498 Alveolar Pressure Opposes Fluid and Protein Leak In Ventilator-Induced Lung Injury/V. Mori, B.J. Smith, J.H.T. Bates, Burlington, VT, p.A5128**
- P499 Ventilator-Induced Lung Injury Increases the Susceptibility of Mice to Pseudomonas Aeruginosa Pneumonia/M. Felten, E. Letsiou, H.C. Muller-Redetzky, N.W. Suttorp, M. Witzernath, Berlin, Germany, p.A5129**

THEMATIC POSTER SESSION

C49 CRITICAL CARE: EVERY BREATH YOU TAKE - ACUTE RESPIRATORY FAILURE AND MECHANICAL VENTILATION

9:15 a.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER

Area E (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: N.D. Ferguson, MD, MSc, Toronto, Canada
A. Duggal, MD, MPH, Cleveland, OH

- P501 Systematic Review of the Definition of Acute Respiratory Failure in Randomized Trials/R. Hakim, L.C. Watanabe Tejada, S. Sukhal, A. Tulaimat, Chicago, IL, p.A5130**
- P502 Use of the Integrated Pulmonary Index (IPI) to Predict Respiratory Compromise in a Trauma Population/C. Pelaez, S.K. Spilman, K.D. Lamb, T.W. Oetting, E.A. Fuchsen, S.D. Olson, S.M. Sahr, Des Moines, IA, p.A5131**
- P503 Respiratory Failure Patterns in Persistently Critically Ill Patients/E.M. Viglianti, R.D. Kramer, M.W. Sjoding, C.L. Hodgson, R. Bellomo, T.J. Iwashyna, Ann Arbor, MI, p.A5132**
- P504 Reliability of Peripheral Venous Blood Gas Values in the Diagnosis of Ventilatory Failure/M. Shahzadi, A. Mogla, H. Afsana, V.P. Vasudevan, A.Z. Rasheed, L.N. Gerolemou, F. Arjomand, Brooklyn, NY, p.A5133**
- P505 A Systematic Review of the Criteria for Endotracheal Intubation for Mechanical Ventilation in Randomized Trials/R. Hakim, L.C. Watanabe Tejada, S. Sukhal, A. Tulaimat, Chicago, IL, p.A5134**
- P506 Intubation - Are Intensivists and Anesthesiologists Different? But Lesson Learned Is the Same?/A. Naeem, I. Ratnani, R. Ishtiaq, Phoenix, AZ, p.A5135**
- P507 In and Out of ICU Intubation Technique and Complication Rates/F. Mastroianni, N. Emami, L. Eisen, A. Shiloh, D.G. Fein, Bronx, NY, p.A5136**

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- P508** **Role of Prophylactic Intubation in Patients Undergoing Endoscopy for Upper GI Bleeding; Experience in One Tertiary Care Center/T.** Ahmadi, A. Chao, M. Koc, A. Baydur, Los Angeles, CA, p.A5137
- P509** **Significant Redistribution of Tidal Volume to Posterior Lung Regions During Phrenic Nerve Stimulated Breaths/E.** Rohrs, T. Bassi, K. Fernandez, M. Ornawska, S.C. Reynolds, Burnaby, Canada, p.A5138
- P510** **Bedside Selection of Positive End Expiratory Pressure by Electric Impedance Tomography in Severe Acute Pancreatitis with Hypoxemia Patients/S.Y.** Peng, H.-C. Teng, C.-H. Zhang, M.-Y. Chang, H.-T. Chang, C.-H. Gow, New Taipei City, Taiwan, p.A5139
- P511** **Two Different Cycling Off During 10 cmH2O Pressure Support Ventilation in Three Different Amplitude and Intensity of Inspiratory Efforts: A Bench Study/R.** Palazzo, J.C. Ferreira, B.R. Macedo, C.R.R. Carvalho, C.S.V. Barbas, Sao Paulo, Brazil, p.A5140
- Facilitators:** W. Checkley, MD, PhD, Baltimore, MD
G.A. Cortes Puentes, MD, Rochester, MN
- P512** **Influence of Two Distinct Slopes During Pressure Support Ventilation at Three Different Amplitudes and Intensity of Inspiratory Efforts: A Bench Study/R.** Palazzo, J.C. Ferreira, L. Couto, C.R.R. Carvalho, C.S.V. Barbas, Sao Paulo, Brazil, p.A5141
- P513** **Role of Different Compliances in 5cmH2o Pressure Support Profile: A Bench Study/R.** Palazzo, J.C. Ferreira, C.R.R. Carvalho, C.S.V. Barbas, Sao Paulo, Brazil, p.A5142
- P514** **Acceptable Range of Inspiratory Effort During Mechanical Ventilation - Preliminary Findings of a Prospective Physiological Study/I.G.** Telias, D. Junhasavasdikul, M.C. Sklar, D.L. Grieco, M. Dres, L.F. Damiani, T. Piraino, T. Pham, L. Melo, R. Mellado Artigas, K. Han, A. Slabiak, S. Brodutch, C.D. Mazer, L.J. Brochard, E.C. Goligher, Toronto, Canada, p.A5143
- P515** **Accuracy of Tidal Volume Delivery with Heating and Humidification of Ventilator Circuitry/H.** Chawla, C.J. Newth, J. Hotz, P.A. Ross, Los Angeles, CA, p.A5144
- P516** **Correlation Between Different Modes of Mechanical Ventilation and the Development of VAEs by CDC Criteria: A Retrospective Study/A.** Kubbara, F.M. Khateeb, H. Simo, K. Qin, S. Pak, M. Mankarious, J. Jenkins, A. Iqbal, H. Alim, W. Alamoudi, S. Rehman, W. Barnett, F. Safi, R. Assaly, Toledo, OH, p.A5145
- P517** **A Novel Approach to Manage Airway Secretions and Oral Hygiene in Mechanically Ventilated Patients - ICU Experience and User Feedback/V.K.** Kakani, N. Chintamani, M.R. Morthala, Bangalore, India, p.A5146
- P518** **Thoracic Epidural Analgesia with Local Anesthetics Improves Diaphragmatic Dysfunction After Laparoscopic Gastrectomy/N.** Fujimura, M. Asada, K. Nobukuni, T. Nakagaki, J. Yoshino, Kurume, Japan, p.A5147
- P519** **Could the Loss of Diaphragm Thickness Measured by Computer Tomography Predict the Rate of Reintubation?/Y.** Ni, W. Li, B. Liang, Z. Liang, Chengdu, China, p.A5148
- P520** **A Novel Approach to Mechanical Ventilation Liberation: Increased Work of Breathing as a Predictor of Extubation Failure/B.K.** Tokeshi, N. Gordon, K. Kirk, R.W. Harper, Sacramento, CA, p.A5149
- P521** **A New Model for Weaning in Prolonged Mechanical Ventilation a Pilot Study from Turkey/I.** Candemir, Ankara, Turkey, p.A5150
- P522** **Use of Electrical Impedance Tomography in the Evaluation of the Spontaneous Ventilation During the Weaning of Mechanical Ventilation in Patients with ARDS: Pilot Study/I.C.** Wawrzeaniak, J.A. Victorino, S.R.R. Vieira, M.B. Amato, Porto Alegre, Brazil, p.A5151
- P523** **Factors Predicting Self-Extubation/M.F.** Siddiqi, Y.I. Lee, New York, NY, p.A5152
- Facilitators:** A. Khan, MD, Portland, OR
J.-T.T. Chen, MD, Bronx, NY
- P524** **Factors Associated with Survival Amongst Chronic Ventilator Unit Patients: A Retrospective Observational Study/P.** Galiatsatos, T. Friedlander, K. Nelson, S. Benett, D. Kelly, H. Schneider, M. Bellantoni, W. Greenough, Baltimore, MD, p.A5153
- P525** **Outcomes in Chronic Critical Illness: Continuous Improvement at a Regional Weaning Center/M.S.** Hassenpflug, D.R. Nelson, J. Steckart, Los Angeles, CA, p.A5154
- P526** **Is Liberation of Patients on Mechanical Ventilation Out of Acute Care Facilities Is Even Practical?/S.** Surani, E. Gamboa, I. Ratnani, C. Bulathsinghala, H. Anjum, A. Vakil, Corpus Christi, TX, p.A5155
- P527** **The Relationship Between Mechanical Ventilation, Oxygenation and Lung Transplant Donor Suitability/J.** Chapa, S.A. Nonas, Portland, OR, p.A5156
- P528** **Characteristics of Patients with Interstitial Lung Disease in the Event of Acute Respiratory Failure in ICU/F.** Ciftci, A.O. Dastan, S. Erol, A. Ciledag, A. Kaya, Ankara, Turkey, p.A5157
- P529** **Trends in Mechanical Ventilation in the Hospitalized Cystic Fibrosis Patient/B.** Sellers, K.J. Ramos, R. Somayaji, D.P. Nichols, M.L. Aitken, N. Hamblett-Mayer, C.H. Goss, Seattle, WA, p.A5158
- P530** **Amyotrophic Lateral Sclerosis in the Intensive Care Unit: A Diagnostic Challenge/T.-E.-F.R.** Hassam, E. Ratner, G. Goldish, K.M. Kunisaki, Minneapolis, MN, p.A5159
- P531** **Prognosis in Hematopoietic Stem Cell Transplant Patients Who Underwent Invasive Mechanical Ventilation: A 2-Center Retrospective Cohort Study/K.** Gossack-Keenan, M. Hamidi, B.L. Ferreyro, B. Rochweg, S. Mehta, Hamilton, Canada, p.A5160
- P532** **The Peri-Engraftment Respiratory Distress Syndrome Following Autologous Hematopoietic Cell Transplant/P.M.** Wierszewski, H.A. Personett, S.G. Peters, O. Gajic, W.J. Hogan, R.A. Dierkhising, H. Alkhateeb, H. Yadav, Rochester, MN, p.A5161
- P533** **Can a Change in the Initiation PEEP Impact PVAP Rate? Maybe!/K.** Philip, M. McGinnis, E.A. Robart, J.E. Mangino, M.C. Exline, Columbus, OH, p.A5162
- P534** **Risk Factors, Incidence and Cost of Prolonged Hospitalization After Acute Respiratory Failure/M.** Marmor, S. Liu, J. Long, G. Chertow, A. Rogers, Stanford, CA, p.A5163
- P535** **Ventilator-Free Days Should Be Presented as Subdistribution Hazard Ratios Using Competing Risk Regression/N.** Yehya, Philadelphia, PA, p.A7768

THEMATIC POSTER SESSION

C50 CRITICAL CARE CASE REPORTS: THE LIVER, PANCREAS, AND INTESTINES

9:15 a.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER

Area G (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: D.L. Hotchkin, MD, MSc, Portland, OR
L. Tan, DrMed, Loma Linda, CA

- P623 Life Threatening Gastrointestinal Bleeding Following Intra-gastric Balloon Placement for Weight Loss/H. Edriss, K. Nugent, Lubbock, TX, p.A5164**
- P624 Acute Hypertriglyceridemic Pancreatitis: Rapid Recovery with Therapeutic Apheresis/S. Gheevarghese John, S. Ashraf, A.C. Gour, S.V. Thomas, Mineola, NY, p.A5165**
- P625 Early Empiric Plasmapheresis for Acute Fatty Liver of Pregnancy May Offer Benefit Even When the Diagnosis Is Unclear/C.I. Oronce, C. Yan, M. Towner, D. Nagel, A. Pietropaoli, Rochester, NY, p.A5166**
- P626 Therapeutic Plasma Exchange Plus Insulin in a Case of Severe Hypertriglyceridemia-Induced Acute Pancreatitis/D. Ramadurai, J. Camacho, Aurora, CO, p.A5167**
- P627 Epoprostenol for Worsening Hypoxemia of Hepatopulmonary Syndrome After Lung Transplantation/E. Randhawa, S. Bhandari, N. Hinds, D. Reich, Philadelphia, PA, p.A5168**
- P628 An Unusual Cause of Massive GI Bleeding in a Patient with Pancreatic Transplant/C. Hochberg, S. Walker, W. Applefeld, R.G. Brower, Baltimore, MD, p.A5169**
- P629 Acute Pancreatitis: Not Always Alcohol-Induced, Even in an Alcoholic/T. Su, G. Barmaimon, A. Rothman, E. Bang, New York, NY, p.A5170**
- P630 Double Aortic Arch - An Unlikely Cause for an Upper GI Bleed/J. Lam, V. Mukherjee, New York, NY, p.A5171**
- P631 A Catch 22: Ablate the Heart, Perforate the Esophagus/S. Zaki, S. Patel, Tallahassee, FL, p.A5172**
- Facilitator:** M.A. Tamae Kakazu, MD, Grand Rapids, MI
- P632 A Typical Procedure an Atypical Outcome: A Rare Case of Life Threatening Splenic Hemorrhage Following Colonoscopy/A. Sharma, A. Rander, F. Asfahan, D. Symer, Rochester, NY, p.A5173**
- P633 A Cryptic Cause of Abdominal Pain After Blunt Abdominal Trauma/H.-I. Liao, D. Izaguirre-Anariba, N. Tandan, P.A. Mir, Brooklyn, NY, p.A5174**
- P634 Dysphagia Lusoria the Dysphagia Freak of Nature/O. Chaudhary, S. Joshi, I.G. Amzuta, Syracuse, NY, p.A5175**
- P635 Severe Lipemic Pancreatitis Treated with Early Plasmapheresis/S. Toom, R. Bernstein, A. Avula, J. Samaroo Campbell, Y. Kupfer, Brooklyn, NY, p.A5176**

- P636 Oh Rats, Weil's Disease and Fulminant Hepatic Failure Complicated by Cerebral Candidiasis/S. Iusim, D.R. Fraidenburg, Chicago, IL, p.A5177**
- P637 Massive Bleed from Invasive Gastrointestinal Mucormycosis in an Immunocompetent Patient/D. Kay, N. Dillow, R.G. Valentin, L.A. Benninger, C.A. Trillo, Gainesville, FL, p.A5178**
- P638 Gastrointestinal Amyloidosis Presenting as Acute Gastroenteritis in a Hemodialysis Patient/P. Sharma, P. Macauley, M. Marcelin, Brooklyn, NY, p.A5179**
- P639 Abdominal Compartment Syndrome in Severe Pancreatitis/D. Shi, R. Horowitz, E. Bang, A. Brenner, New York, NY, p.A5180**
- P640 Adult Polycystic Liver Disease: An Unusual Cause of Recurrent Variceal Bleed/M.S. Khan, Z. Khan, A. Tiwari, A. Moustafa, M. Taleb, F.M. Khateeb, Toledo, OH, p.A5181**

Facilitator: P. Shah, MD, Gainesville, FL

- P641 Duodenal Diverticulum: A Rare Cause of Pancreatitis/A.A. Abbasi, P. Macauley, S.S. Gupta, C. Seneviratne, Brooklyn, NY, p.A5182**
- P642 Balloon-Occluded Retrograde Transvenous Obliteration(BRTO) Along with TIPS for Variceal Bleeding/A. Bhardwaj, D. Gorman, F.N. Hussain, T. Clark, M.E. Mikkelsen, Philadelphia, PA, p.A5183**
- P643 A Case of Pneumatosis Intestinalis in a Patient with Anorexia Nervosa and Takotsubo Cardiomyopathy/M.J. Lau, A. Shenoy, S. Thomas, Mineola, NY, p.A5184**
- P644 Chylothorax After Abdominal Surgery - A Fatal Outcome/H. Dharia, Z. Sheperd, Syracuse, NY, p.A5185**
- P645 Cytomegalovirus Infection in Decompensated Liver Failure/R. Butzko, R. Ortiz Pacheco, A. Berman, Newark, NJ, p.A5186**
- P646 MRSA Colitis: An Under-Recognized Cause of Septic Shock/A. Rothman, J. Lio, Y.I. Lee, New York, NY, p.A5187**
- P647 Liver Transplant in Two Parts: A Possible Salvage Approach to Acute Liver Failure in the Intensive Care Unit/C. Lampl, G. Solomon, Birmingham, AL, p.A5188**
- P648 Emphysematous Gastritis, a Rare Complication in B-Cell Non-Hodgkin Lymphoma After Initiation of R-CHOP Therapy/ M. Le, V. Mohindra, A.A. Gohil, C.M. Kirsch, P. Wu, San Jose, CA, p.A5189**
- P649 From Gastric Varices to Acute Superior Vena Cava (SVC) Syndrome/I. Kutkut, M. Qi, Indianapolis, IN, p.A5190**

THEMATIC POSTER SESSION

C51 CRITICAL CARE CASE REPORTS: YOU GIVE ME FEVER - INFECTION AND SEPSIS

9:15 a.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER

Area G (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

Facilitator: D. Fein, MD, Bronx, NY

- P651 Off-Target Effects of Empiric Antibiotic Therapy on the Intestinal Microbiome During Nosocomial Sepsis in a Critically Ill Adult/S.** Bansal, P.H. Schneeberger, A. Leligdowicz, K.C. Kain, D.R. Ricciuto, B. Coburn, Toronto, Canada, p.A5191
- P652 Legionella: Pneumonia and Rhabdomyolysis/K.** Ahmad, A. Nikamal, A. Fatima, U. Nazir, D. Saha, Chicago, IL, p.A5192
- P653 Unexplained Lactic Acidosis and Shock Caused by Rare Gastrointestinal Beriberi/D.** Patel, R.C. Rajmane, A. Yelisetty, H. Patel, Brooklyn, NY, p.A5193
- P654 Strongyloidiasis Related Hyper-Infection Syndrome; Rare Disease with Catastrophic Outcome/M.A.** Farooq, M. Dabbagh, J. Uduman, Detroit, MI, p.A5194
- P655 Atypical Presentation of a Wartime Illness/C.** McCormick, H. Mehta, S. Shahzad, Brooklyn, NY, p.A5195
- P656 How My Turtle Almost Killed Me: A Rare Case of Plesiomonas Shigelloides Causing Septic Shock/R.** Kumar, A. Desai, Syracuse, NY, p.A5196
- P657 An Unusual Case of Pneumococcal Bacteremia Associated with Cholecystitis and Disseminated Intravascular Coagulation in a Young Female/E.** Matayeva, S. Gomez-Paz, H. Mashaal, W. Chua, East Meadow,, NY, p.A5197
- P658 An Unusual Case of Typhlitis in a Post-Partum Female/A.S.** Jhand, A. Ahmad, K. Keeley, R. Norris, R. Vivekanandan, Omaha, NE, p.A5198
- P659 Listeria Chorioamnionitis Sepsis Treated with Delayed Delivery/R.** Wilson, S. Sudholt, J.A. Greenberg, Chicago, IL, p.A5199
- P660 Pulmonary Actinomyces Infection, an Atypical Case Report/R.M.** De Jesus, B.N. Endlich, J.P.C. Serra, R.M. Lima, R.A. Athanzio, S.Z. Rached, R.M.C. Pinto, A. Cukier, R. Stelmach, Sao Paulo, Brazil, p.A5200

Facilitators: E. Perez, MD, Flushing, NY
T.R. Watkins, MD, MSc, Seattle, WA

- P661 ARDS Due to Anaplasma and Borrelia Co-Infection; Can Corticosteroids Help?/A.** Sharma, L. Orr, E.T. Shore, Farmington, CT, p.A5201
- P662 A Rare Case of Post Infectious Diffuse Influenza Encephalitis/U.** Gottam, M. Rama Krishna, S. B.V.G. Hyderabad, India, p.A5202
- P663 Disseminated Candida Glabrata Leading to Empyema and Pituitary Abscess in a Young Woman with Uncontrolled Diabetes/** C. Hsieh, K. Fogelfeld, J. Martires, Los Angeles, CA, p.A5203
- P664 Prompt Diagnosis and Treatment of a Patient with Wound Botulism/A.** Hudler, S. Malkoski, Aurora, CO, p.A5204
- P665 Miliary Tuberculosis Progressing to Acute Respiratory Distress Syndrome (ARDS), Septic Shock, and Multi-Organ Failure in an Immunocompetent Host/A.D.** Can, W.W. Stringer, Torrance, CA, p.A5205
- P666 Spontaneous Bacterial Empyema with Unusual Pathogen/M.** Odeesh, K. Muddassir, Memphis, TN, p.A5206
- P667 Histoplasmosis Fungemia Manifesting as Acute Respiratory Distress Syndrome/V.** Badami, P. Farjo, J. Guilfoose, Morgantown, WV, p.A5207

- P668 Leukemoid Reaction in a Patient with Lemierre's Syndrome/M.** Greer, F. Baig, A. Velasquez, Atlanta, GA, p.A5208
- P669 Methicillin Susceptible Staphylococcus Aureus Pneumonia Versus Aspergillus Pneumonia/A.** Hines, A. Adial, P. Trivedi, A. Iftikhar, Flushing, NY, p.A5209
- P670 Invasive Aspergillosis in a Seemingly Immunocompetent Host/J.L.** Miely, A. Doyle, A.J. Gamino, Chicago, IL, p.A5210
- P671 MRSA: The Great Imitator/P.** Krishnan, P. Ramadas, D. Landsberg, Syracuse, NY, p.A5211
- P672 Angioinvasive Rhizopus Masquerading as a Pulmonary Embolism/E.** Beck, M. Cirulis, M. Balatico, N. Hatton, Salt Lake City, UT, p.A5212
- P673 Overwhelming Pneumococcal Infection and HLH-Like Hyperferritinemic Response in a Patient with Severe Immunosuppression Secondary to HIV-1 Infection/C.** Schuring, D. Rustom, A.X. Freire, Memphis, TN, p.A5213
- P674 A Fatal Case of Meliodosis/S.** Vanaik, N. Patel, A. Vasudevan, K. Sandhu, Philadelphia, PA, p.A5214
- P675 It Was Not MRSA, but Legionella/S.** Marco, S. Khan, F. Houshmand, H.J. Kim, Greenville, NC, p.A5215
- P676 Chronic Indolent Pneumonia from Pulmonary Cryptococcosis in an Immunocompromised Patient- A Case Report/A.H.** Zaid, S. Shah, S. Shah, Loma Linda, CA, p.A5216
- P677 Eye Can't See! An Unusual Manifestation of Nocardia/K.** Singh, A. Hilewitz, P. Bhat, A. Talwar, M. Makaryus, New Hyde Park, NY, p.A5217
- P678 Legionella Pneumonia Complicated by Secondary Hemophagocytic Lymphohistiocytosis/Z.** Hasan, A. Agrawal, S.J. Koenig, New Hyde Park, NY, p.A5218
- P679 Bacterial DNA Next Generation Sequencing Can Detect Culprit Pathogens Missed by Cultures and Impact Antibiotic Management Decisions in Severe Bacterial Pneumonia: A Case Report/D.G.** Dunlap, A. Fitch, S. Rapport, B.J. McVerry, A.M. Morris, G. Kitsios, Pittsburgh, PA, p.A5219
- P680 Lemierre's Syndrome with Negative Blood Cultures and Internal Carotid Artery Involvement/U.** Trytko, E.K.-L. Moy, New Brunswick, NJ, p.A5220

Facilitators: S. Murthy, MD, Vancouver, Canada
E. Garpestad, MD, Boston, MA

- P681 Corynebacterium Striatum Septicemia Due to Indwelling Pleural Catheter/S.** Hossain, W. Khan, New Brunswick, NJ, p.A5221
- P682 Killer Yeast: A Rare Case of Fatal Reactivation Cryptococcal Infection/M.** Qi, G.T. Bosslet, D. Patel, Indianapolis, IN, p.A5222
- P683 Rare Pathogen: An Unexpected Case of Pulmonary Myiasis/W.** Bzdawka, Y. Yang, D. Maki, Madison, WI, p.A5223
- P684 A Rare Case of Fulminant Community Acquired Acinetobacter Pneumonia in Northeast Pennsylvania/D.** Saha, Danville, PA, p.A5224
- P685 The Jamaican Shuffle/W.** Memon, R.V. Patel, S. Azharuddin, Champagin, IL, p.A5225

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- P686** **A Moment on the Lips/E.** Mills, W. Browne, A. Caraganis, Minneapolis, MN, p.A5226
- P687** **Yersinia Enterocolitica Bacteremia Leading to Lung Infection in Liver Cirrhosis/A.** Rander, F. Asfahan, A. Sharma, N. El-Daher, J. Lyons, Rochester, NY, p.A5227
- P688** **Group A Streptococcal Pneumonia: A Case Report/A.** Amin, S. Kwatra, S. Sheth, Youngstown, OH, p.A5228
- P689** **Postoperative Fungal Empyema Thoracis: Source Searching?/A.K.** Rai, P. Soni, N. Aggarwal, Brooklyn, NY, p.A5229
- P690** **An Unusual Case of Babesiosis/S.** Vanaik, N. Patel, K. Sandhu, Philadelphia, PA, p.A5230

Facilitator: E. Festic, MD, Jacksonville, FL

- P691** **Disseminated Varicella in an Immunocompetent Host/A.** Bhushan, B.K. Patibandla, B. Moulton, Portland, OR, p.A5231
- P692** **A Peculiar Case of Sepsis: The Role of Procalcitonin in Diagnosing Human Granulocytic Anaplasmosis/C.** Mei, R. Shah, M.J. Fisher, L.A. Marcos, M. Mansour, Stony Brook, NY, p.A5232
- P693** **Severe Case of Tetanus Infection in an Unvaccinated Patient/U.** Ibe, N. Jiwa, S. Rehmani, A. Gega, Waterbury, CT, p.A5233
- P694** **Actinomyces Odontolyticus and Streptococcus Mitis in Blood of an IVDUI/C.** Nepal, P.E. Morris, A. Kalema, J. Coleman, A. Musa, S. Chaaban, Lexington, KY, p.A5234
- P695** **Triple Tick Attack/M.** Kumar, A. Osella, M. Schwerdt, A. Sharma, P. Grover, Farmington, CT, p.A5235
- P696** **Deadly Bite: Fulminant Sepsis Due to Capnocytophaga Canimorsus in an Elderly Man/P.** Echeverria, L. Osei, J. Saa, M. Jacob, E. Yeager, Belleville, IL, p.A5236
- P697** **Life Threatening Acute Infectious Purpura Fulminans After an Uncomplicated Vaginal Delivery/A.** Al-Khateeb, C. Jacob, S. Bannon, Kalamazoo, MI, p.A5237
- P698** **Splenic Infarction, a Rare Complication of Severe Babesiosis/B.** ElBebawy, A. Nawaz, P.X. Escaler, Cooperstown, NY, p.A5238
- P699** **Botulism - Think Outside the BOTTLE/S.B.** Thapamagar, D.M. Chooljian, Redlands, CA, p.A5239

THEMATIC POSTER SESSION

C52 **CRITICAL CARE CASE REPORTS: GOOD VIBRATIONS - MECHANICAL VENTILATION FROM NIV TO ECMO**

9:15 a.m. - 4:15 p.m. **SAN DIEGO CONVENTION CENTER**
Area G (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: D. Brodie, MD, New York, NY
N.M. Kanodra, MBBS, Tacoma, WA

- P701** **Management of Massive Pulmonary Hemorrhage with Extracorporeal Membrane Oxygenation (ECMO) and Temporary Clamping of the Endotracheal Tube: A Case Report/C.-F.** Lee, S.-Y. Ruan, H.-C. Wang, Taipei, Taiwan, p.A5240
- P702** **Early Antiviral Therapy and Extra Corporeal Membrane Oxygenation (ECMO) in the Management of Adenoviral Pneumonia in an Immunocompetent Host/D.** Padmanabhan Menon, J. Marin-Acevedo, J.E. Moss, Jacksonville, FL, p.A5241
- P703** **Status Asthmaticus in Pregnancy Requiring Sevoflurane and ECMO/B.** Seth, M. Gonzalez, F. Schembri, Boston, MA, p.A5242
- P704** **A Rare Case of Diffuse Alveolar Hemorrhage Secondary to Dabigatran Successfully Treated with Extracorporeal Membrane Oxygenation/C.T.** Hutchinson, H. Hirosho, F.M. West, Philadelphia, PA, p.A5243
- P705** **Ivory Lungs: A Rare Case of Pulmonary Alveolar Microlithiasis Bridged to Transplant by AV ECMO/S.** Kapadia, F. Alvarado, B. Lacey, R. Hooker, M. Pachinburavan, K. Patel, Tampa, FL, p.A5244
- P706** **Successful Cannulation of Venovenous ECMO in a Patient with a Pre-Existing IVC Filter/D.** Pau, J. Kasal, M.S. Plisco, St. Louis, MO, p.A5245
- P707** **Massive Hemoptysis and Diffuse Alveolar Hemorrhage from Granulomatosis with Polyangiitis Successfully Rescued by Extracorporeal Membrane Oxygenation/B.C.** Walsh, B. Kwok, V. Reddy, C.L. Liu, New York, NY, p.A5246
- P708** **An Unusual Case of Severe ARDS Incited by Extrapulmonary Coccidioidomycosis Requiring Extracorporeal Membrane Oxygenation in an Immunocompetent Host/N.** Shamsid-Deen, A. Sinha, T. Whiting, Phoenix, AZ, p.A5247
- P709** **Extracorporeal Membrane Oxygenation for Infant of a Diabetic Mother with Congenital Heart Defect/A.Y.-M.** Wen, T. Chadha, H.M. Dapul, J.C. Fisher, A. Chopra, New York, NY, p.A5248
- P710** **Use of Extracorporeal Membrane Oxygenation in an Adult Patient with Acute Respiratory Distress Syndrome Related to Hemophagocytic Lymphohistiocytosis/F.** Chau-Etchepare, E.P. Stewart, R.W. Harper, Sacramento, CA, p.A5249
- P711** **Blastomycosis Presenting as Septic Shock and Severe ARDS Requiring Venovenous Extracorporeal Membrane Oxygenation (V-V ECMO)/C.** Mosebach, A. Gautam, J.C. Nascimento, E. Salerno, Farmington, CT, p.A5250

Facilitators: S. Sahetya, MD, Baltimore, MD
M. Jabaudon, MD, MSc, Clermont-Ferrand, France

- P712** **Blastomycosis-Related Acute Respiratory Distress Syndrome Successfully Managed with Extracorporeal Membrane Oxygenation/S.D.** Pearson, Jr., S. Bhavani, J. Katsis, B. Banach, T. Antic, B.K. Patel, E.T. Naureckas, Chicago, IL, p.A5251
- P713** **Emergent Extra-Corporeal Membrane Oxygenation (ECMO) for Traumatic Intubation-Associated Tracheal Laceration Repair/O.** Rahman, K. Swartz, K. Rieger, J. Cooksey, D.W. Roe, A. Ansar, B.A. Khan, Indianapolis, IN, p.A5252

- P714** **Role of Cirrhosis Associated Immune Dysfunction in the Development of Coccidioidomycosis Induced ARDS Requiring Extracorporeal Membrane Oxygenation/A.** Sinha, N. Shamsid-Deen, T. Ardiles, Phoenix, AZ, p.A5253
- P715** **Pulmonary Blastomycosis Induced Acute Respiratory Distress Syndrome Requiring Venovenous Extra Corporeal Membrane Oxygenation/D.** Low, J.L. Denson, Aurora, CO, p.A5254
- P716** **Defeating the Legionella of Doom: A Case of Severe ARDS Requiring ECMO Support/M.** Rahbe, M. Megally, E. Awerbuch, Queens, NY, p.A5255
- P717** **Near-Fatal Asthma Case Managed with Extracorporeal Membrane Oxygenation (ECMO) in a University Hospital in Latin America: Case Report/L.** Fernandez, C.A. Calderon, D.F. Bautista, C.S. Leib, Cali, Colombia, p.A5256
- P718** **ECMO CPR for Hypoxic Respiratory Failure Associated Refractory Cardiac Arrest: A Success Story/A.** Bhardwaj, D. Gorman, A.A. Hameed, M.W. Sims, J.T. Gutsche, Philadelphia, PA, p.A5257
- P719** **Successful Use of ECMO in a Case of AIDS-Defining Pneumocystis Jirovecii Pneumonia/R.** Bailey, S. Helgeson, M. Diaz, C. Libertin, D. Harris, Jacksonville, FL, p.A5258
- P720** **Diagnosis and Treatment of Severe ARDS from Legionella Pneumonia with Higher RESP Score Utilizing Venovenous ECMO/L.** Riley, P. Tunsupon, Gainesville, FL, p.A5259
- P721** **Successful Treatment of a Ruptured Tracheoinnominate Fistula Following Long-Term Tracheotomy and Mycobacteria Chelonae Tracheobronchitis with Extracorporeal Membrane Oxygenation, Endovascular Stent Graft Implantation, and Surgical Bypass/Y.-S.** Chien, K.-H. Hsu, Y.-C. Chao, M.-R. Chen, Taipei City, Taiwan, p.A5260
- P722** **Unexpected Full Recovery After Extracorporeal Membrane Oxygenation for Acute Respiratory Distress Syndrome Secondary to Disseminated Blastomycosis Following Prostate Biopsy/C.** Bergeron, A. Couture-Cossette, L. Valiquette, A. Carignan, B. Grondin-Beaudoin, Sherbrooke, Canada, p.A5261
- P723** **Permissive Hypoxemia on ECMO in a Patient with Granulomatosis with Polyangiitis and MDR Pseudomonas Superinfection/T.** Marston, K.J. Henry, R. Garcia-Orr, Phoenix, AZ, p.A5262
- Facilitator:** P.K. Park, MD, Ann Arbor, MI
- P724** **Intravenous Vitamin C as Adjunctive Therapy Along with Extracorporeal Membrane Oxygenation for Adenovirus Induced Acute Respiratory Distress Syndrome/M.I.** Ali, O.L. Debesa, R. Malhotra, A.A. Fowler, R. Natarajan, Richmond, VA, p.A5263
- P725** **Respiratory Syncytial Virus Associated Myocarditis Requiring Venovenous Extracorporeal Membrane Oxygenation/A.** Milas, N. Anand, M. Saunders-Kurban, S. Patel, Oak Lawn, IL, p.A5264
- P726** **Adjuvant Methylprednisolone Infusion in Conjunction with Venovenous ECMO for a Patient with Severe ARDS/M.** Nau, N. Huprikar, K. Chung, C. Ainsworth, M. Biscotti, P. Mason, San Antonio, TX, p.A5265
- P727** **Venous-Arterial Extracorporeal Membrane Oxygenation for Massive Pulmonary Embolism in a Pediatric Patient/K.** Greenfield, M. Gardner, D. Williams, N.J. Maxvold, Richmond, VA, p.A5266
- P728** **Is It a Bridge Too Far? Ambulatory VV-ECMO as a Bridge to Lung Recovery or Transplant in a Pediatric Patient with Presumed End-Stage Lung Disease Due to Idiopathic Respiratory Failure/L.C.** Steffes, C.K. Conrad, Y. Yarlagadda, M. Mafla, K. Ryan, K. Maeda, Palo Alto, CA, p.A5267
- P729** **A Case of Severe Acute Respiratory Distress Syndrome Secondary to Legionella Pneumonia Treated with Independent Lung Ventilation/M.** Mikhaeil, H. Hobbs, London, Canada, p.A5268
- P730** **Treatment of Acute Asthma in the ICU with a Liquid Perfluorocarbon and CO2 Gas Combination/B.T.** Wierstra, F.H.Y. Green, J. Dennis, J. Waechter, Calgary, Canada, p.A5269
- P731** **Is There a Role of Applied PEEP (PEEPe) in Controlled Mechanically Ventilated Severe Asthma Exacerbations?/A.** Golchin, K. Hachey, A. Khan, Springfield, MA, p.A5270
- P732** **Inhaled Nitric Oxide Use for Refractory Hypoxemia with Cardiogenic and Septic Shock/N.** Dhawan, V. Jetty, J. Abayev, K. D'Souza, N. Saenger, D.E. Murphy, Cincinnati, OH, p.A5271
- P733** **Inhaled Epoprostenol as a Rescue Therapy for Acute Respiratory Distress Syndrome in a Patient with Acute Myeloid Leukemia, Leukostasis, and Tumor Lysis Syndrome/C.** Tsai, B. Walsh, Danville, PA, p.A5272
- P734** **Prone Ventilation for ARDS in a Resource-Limited Setting/D.K.** Huluka, Y. Teshale, J. Huang, D.H. Chong, C.B. Sherman, Addis Ababa, Ethiopia, p.A5273
- P735** **Independent Lung Ventilation in Asymmetric Acute Respiratory Distress Syndrome/W.** Rodriguez, L. Gonzalez, A. Candelario, J. Torres-Palacios, A. Torres-Palacios, Y. Otero, O.J. Cantres Fonseca, San Juan, PR, p.A5274
- Facilitator:** A. Carlese, DO, Bronx, NY
- P736** **Massive Pulmonary Arteriovenous Malformation Complicating Weaning from Mechanical Ventilation/D.** Westerhausen, W.G. Carlos, Indianapolis, IN, p.A5275
- P737** **Endotracheal Intubation for 940 Days Without Tracheal Ulcers, Stenosis or Excavation/D.** Damania, M. Nandigam, Z. Khan, M. Bachan, Bronx, NY, p.A5276
- P738** **Successful Application of Non-Invasive Positive Pressure Ventilation for Critically Ill Patients in Respiratory Failure with Postextubation Stridor/J.-H.** Cho, M. Kim, M.H. Park, J.S. Kim, Incheon, Korea, Republic of, p.A5277
- P739** **Case Report: Pneumomediastinum, a Rare Complication of Noninvasive Ventilation Through a Descending Pathway/K.** Mohamed Ahmed, F.G. Jamous, Sioux Falls, SD, p.A5278
- P740** **Case Report of Patients with Lung Fibrosis and Long Term Effectiveness of Non-Invasive Positive Pressure Ventilation (NIPPV)/D.** Jun, M.R. Zeidler, S.J. De Cruz, Los Angeles, CA, p.A5279

- P741 High-Flow Nasal Cannula Oxygen in Immunocompromised Patient with Acute Hypoxic Respiratory Failure/K. Rajdev, F.A. Siddiqui, A. Siddiqui, B. Joseph, S. Habib, D. El-Sayegh, Staten Island, NY, p.A5280**
- P742 Risk of Aspiration in Patients on High-Flow Oxygen Therapy/A. Jaffe, A. Seevaratnam, S. Waters, Ocala, FL, p.A5281**
- P743 Nasal High-Flow Oxygen Therapy for Sleep-Related Hypoventilation in Acute on Chronic Respiratory Failure/V.K. Patel, A. Madanieh, C. Orabi, R.J. Sartori, S.M. Mina, E.J. Geigel, Orlando, FL, p.A5282**
- P744 Successful High Flow Nasal Oxygen Therapy for Severe Virus Pneumonia/E.P. Oliveira, G.F.J.D. Matos, T. Antunes, F.P. Lomar, C.S.V. Barbas, Sao Paulo, Brazil, p.A5283**

THEMATIC POSTER SESSION

C53 CRITICAL CARE CASE REPORTS: YOU GIVE ME (MORE) FEVER - INFECTION AND SEPSIS

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area G (Hall A-B2, Ground Level)

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12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: S.S. Carson, MD, Chapel Hill, NC
M. Pradhan, MD, New York, NY

- P746 Disappearing Internal Jugular Vein After Lemierre Syndrome/P.E. Hogan, R.J. Miller, San Diego, CA, p.A5284**
- P747 Lemierre's Syndrome - Forgotten Disease/R.K. Patti, S. Gupta, A. Ghatak, R. Ramos De Oleo, Y. Kupfer, Brooklyn, NY, p.A5285**
- P748 Serratia Marcescens a Rare Cause of Invasive Cellulitis/C.R. Pendkar, B. Shamian, S. Shankar, A. Saradna, Brooklyn, NY, p.A5286**
- P749 An Unusual Presentation of Rabies/K. Pal, R.E. Cagnina, Charlottesville, VA, p.A5287**
- P750 Mycoplasma Pneumoniae Causing Severe Acute Respiratory Distress Syndrome/E.P. Oliveira, G.F. Janot, F.P. Lomar, C.S.V. Barbas, Sao Paulo, Brazil, p.A5288**
- P751 Getting Sick from the Lick: An Extremely Rare Case of Endocarditis, Septic Shock and Multiple Cavitory Nodules/J.A. Kileci, A. Rothman, J. Filopei, New York, NY, p.A5289**
- P752 An Unusual Case of Mycobacterium Porcinum Related Septic Shock in a Peritoneal Dialysis Patient/F. Figueroa Rodriguez, J.V. Silverman, S. Dogra, G. Nair, Royal Oak, MI, p.A5290**
- P753 Complicated Native Valve Endocarditis Due to Corynebacterium Striatum/B. ElBebawy, A. Nawaz, Cooperstown, NY, p.A5291**
- P754 A Case of a Rare and Devastating Manifestation of Influenza/A. Andriotis, P.J. Rivera, New York, NY, p.A5292**
- P755 Severe Legionella Pneumonia Complicating Alemtuzumab Therapy for Relapsing Multiple Sclerosis/E. Villarreal, N. Jentzen, J. Zein, Cleveland, OH, p.A5293**
- Facilitators:** B.J. Anderson, MD, MS, Philadelphia, PA
A. Niroula, MBBS, MD, Philadelphia, PA
- P756 CD4 Lymphocyte Count as a Treatment Guide for the Use of Corticosteroid and Neuraminidase Inhibitors in Patient with Avian Influenza A (H7N9) Pneumonia: A Case Report/W.-H. Hung, H.-K. Ko, Taipei, Taiwan, p.A5294**
- P757 An Unusual Presentation of Chronic Disseminated Histoplasmosis/G.S. Thind, L. Yadav, Kalamazoo, MI, p.A5295**
- P758 A Case of Bacteroides Thetaiotaomicron Septic Shock Associated with Diffuse Bullous Pemphigoid/M.K. Loya, Omaha, NE, p.A5296**
- P759 Case of Recurrent Gram-Negative Bacteremia Secondary to Fistulization Between the SMA Coiled Aneurysm Sac and Small Bowel/V.V. Tambe, B. Sharma, M. Kusters, I. Amzuta, Syracuse, NY, p.A5297**
- P760 Citrobacter Braakii Bacteremia of Unclear Source: A Literature Review and Discussion/R. Mocerino, J. Jolly, E. Awerbuch, Queens, NY, p.A5298**
- P761 Refractory Hypoglycemia and Coma as Presentation of Fournier Gangrene/V. Mock, B. Li, J. Sunderram, New Brunswick, NJ, p.A5299**
- P762 A Patient with Anaplasmosis and Subsequent Spontaneous Splenic Rupture/A.S. Ray, H.C. Cain, New Haven, CT, p.A5300**
- P763 Septic Shock Due to Globicatella Sanguinis Bacteremia/S. Sangli, A. Thakkar, S. Noronha, V. Santibanez, S. Chakupurakal, G. Narayanswami, Rochester, MN, p.A5301**
- P764 Pierce of Mind: A Case of Mycotic Aneurysm Due to Acupuncture Induced Infective Endocarditis/E. Fierro, S. Sahni, M. Cheema, A. Adial, A. Ifikhar, New York, NY, p.A5302**
- P765 Acute Aortic Endocarditis Complicating ESBL E. Coli Spontaneous Bacterial Peritonitis/J. Ma, D. Xu, D.R. Crouch, San Diego, CA, p.A5303**
- P766 The Deadly Meowwww: A Case of Pasturella Induced ARDS/ J.R. Heffernan, I. Turk, Z. Iskenderian, K. Leung, Southfield, MI, p.A5304**
- Facilitators:** E. Garpestad, MD, Boston, MA
S. Chawla, MD, New York, NY
- P767 An Unusual Case Rejection/R. Akkari, E. Kyereme-Tuah, Cheverly, MD, p.A5305**
- P768 A Case of Disseminated Mucormycosis in a Patient with Graft Versus Host Disease/M. Yeager, R. Abdul Rahman, R.J. Schilz, Cleveland, OH, p.A5306**
- P769 Recurrent Lactobacillus Bacteremia of Unknown Source/J. Samaroo-Campbell, P. Macauley, K. Sharma, P. Jha, Brooklyn, NY, p.A5307**
- P770 Staphylococcus Epidermidis and Hemodialysis: A Deadly Duo Causing Native Valve Endocarditis/A. Sharma, D. Vadehra, P. Montesano, A. Singvi, Farmington, CT, p.A5308**
- P771 A Rare Cause of Sepsis in an Asplenic Female/M. Forte, D. Lee, J. Gordon, K. Cade, Pueblo, CO, p.A5309**

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- P772** **Presentation with a Right Upper Lobe Mass Following a Trip to India**/E. Nasr, Liverpool, United Kingdom, p.A5310
- P773** **Pneumonia Due to Pan-Resistant Acinetobacter Baumannii?**/M. Elahee, A. Talat, M.U. Khalid, M. Shah, R.S. Bailey, Youngstown, OH, p.A5311
- P774** **An Unusual Presentation of CMV Pneumonitis**/G. Mehta, Rochester, MN, p.A5312
- P775** **Acquired Antithrombin Deficiency and Heparin Resistance in Septic Shock: The Clot Thickens**/S. Gu, A.L. Miller, E.P. Schmidt, Aurora, CO, p.A5313
- P776** **Covert Operations: Escape from a Critical Deep Neck Infection**/N. Akbar, S. Huang, K. Stiefel, C. Goates, P. Mariuz, C. Galton, A. Kolokythas, Rochester, NY, p.A5314
- P777** **Methylene Blue for Traumatic Vasoplegia**/C. Shen, N. Shah, J. Street, Washington, DC, p.A5315

THEMATIC POSTER SESSION

C54 CRITICAL CARE CASE REPORTS: CAUSES AND COMPLICATIONS OF ACUTE RESPIRATORY FAILURE

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area G (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: E. Schenck, MD, New York, NY
M. Restivo, MD, New York, NY

- P779** **Correcting Pseudohypoxemia Using Sodium Fluoride**/M. Kusters, G. Trikha, Syracuse, NY, p.A5316
- P780** **An Unusual Cause for Asymmetric Pulmonary Edema in a Young Patient - "A Fascinoma"**/M. Sachdeva, S. Tonthat, V. Balasubramanian, Fresno, CA, p.A5317
- P781** **Synovial Sarcoma Mimicking Pulmonary Embolism**/N.R. Bongu, B.K. Dunn, C. Brown, Greenville, NC, p.A5318
- P782** **Acute Respiratory Distress Syndrome in a Case of Refractory Adult Onset Still Disease**/H. Deshwal, R. Vashisth, Cleveland, OH, p.A5319
- P783** **Acute Respiratory Distress Syndrome Secondary to Fat Embolism**/A.J. Heckman, S. Helgeson, M. Kwon, N.J. Patel, N.M. Patel, P.K. Guru, Jacksonville, FL, p.A5320
- P784** **Fat Emboli Syndrome in a Patient with Sickle Cell Disease Presenting as Diffuse Alveolar Hemorrhage**/R. Sangani, N. Bosch, E. Klings, Boston, MA, p.A5321
- P785** **Fat Chance: An Unusual Case of Diffuse Alveolar Hemorrhage**/A. Puravath, P. Vijhani, N. Sood, Houston, TX, p.A5322

- P786** **Acute Pneumonitis and Diffuse Alveolar Hemorrhage Due to Silicone Embolism Syndrome: A Case Report**/L. Fernandez, A. Bejarano, D.F. Bautista, L.F. Sua Villegas, C.S. Leib, Cali, Colombia, p.A5323
- P787** **Metastatic Angiosarcoma Presenting as Diffuse Alveolar Hemorrhage**/K. Philip, A. Duncan, A. Cooper, Columbus, OH, p.A5324

Facilitator: J. Tonna, MD, Salt Lake City, UT

- P788** **Adding Insult to Injury: Complicated Parapneumonic Effusion in a Patient with Lemierre's Syndrome**/A. Ajayi, D. Kirakossian, J. Murphy, H. Nasiri, Santa Clara, CA, p.A5325
- P789** **Successful Treatment of Acute Interstitial Pneumonia in an Immunocompromised Lymphoma Patient with "Induced Inflammation"**/X.-Y. Ni, J. She, C.-L. Gu, L. Zhu, Shanghai, China, p.A5326
- P790** **Broncholithiasis Presenting as an Uncommon Cause of Wheezing and Post Obstructive Pneumonia**/P.J. Edmonds, A. Toporek, W.E. Lawson, L. Habegger, Nashville, TN, p.A5327
- P791** **Neurological Respiratory Failure Due to West Nile Virus Induced Phrenic Nerve Palsy**/M. Rudrappa, L. Kokatnur, Shreveport, LA, p.A5328
- P792** **Malaria with Acute Respiratory Distress Syndrome: Developing Country Complications Seen in America**/R. Panjwani, S. Davis, Fort Worth, TX, p.A5329
- P793** **Post Lung Transplant Status Asthmaticus Complicating Severe Primary Graft Dysfunction Necessitating Urgent Redo-Bilateral Lung Transplantation**/T. Thaniyavarn, E.N. Pavlisko, C.R. Rackley, H.A. Ali, Durham, NC, p.A5330
- P794** **Silicone Embolism Syndrome: Multiorgan Failure with Shock and ARDS Complicating a Cosmetic Procedure**/B. Kim, J. Salonia, A. Espinosa Hernandez, C. Olivo Freitas, S. Law, A. Evans, G. Di Luozzo, G. Narayanswami, E.M. Mohanraj, J.M. Shapiro, New York, NY, p.A5331
- P795** **Ochrobactrum Anthropi Pneumonia: A Rare Cause of Acute Respiratory Distress Syndrome (ARDS)**/Z. Hafeez, J. Ohar, M.I. Ahmad, A. Zeeshan, P.R. Sunkara, S. Marupudi, S. Usman, A. Malik, Winston-Salem, NC, p.A5332
- P796** **Coprothorax: A Feculent Pleura**/D. Shore, A. Malhotra, Hummelstown, PA, p.A5333
- Facilitators:** D.H. Chong, MD, New York, NY
N.H. Yip, MD, New York, NY
- P797** **Unilateral Flash Pulmonary Edema in Refractory Heart Failure After Thoracentesis**/N. Mesiha, M. Alipour, L. Latypov, A. Mogla, F. Arjomand, L.N. Gerolemou, Brooklyn, NY, p.A5334
- P798** **Diffuse Idiopathic Skeletal Hyperostosis Complicated by Stridor**/C. Orabi, V.K. Patel, A. Madanieh, A. Komarla, B. Johnson, Orlando, FL, p.A5335
- P799** **A Rare Case of Paradoxical Embolization During Thrombolysis for a Pulmonary Embolus**/M. Onwochei-Ashei, W. McGee, M.A. Tidswell, P. Mailloux, Springfield, MA, p.A5336

- P800 Refractory Hypercapnia and Thromboembolism-in-Transit in Pulmonary Embolism. Are the PE Guidelines Helpful?/Y.** Mohamed Omar, P. Nash, S. Nonas, Portland, OR, p.A5337
- P801 When the Phrenic Nerve Fails You/O.** Chaudhary, M. Kusters, D.N. Manta, Syracuse, NY, p.A5338
- P802 A Case of Delayed Diagnosis: Late Onset Tracheal Stenosis After Multiple Short Term Intubations/X.** Gao, M. Bachan, Z. Khan, R.E. Siegel, Bronx, NY, p.A5339
- P803 Spontaneous Pneumomediastinum in a Young Male- A Diagnostic Dilemma/S.** Singh, M. Bargaje, A. Anokar, S. Shaikh, R. Deoskar, Pune, India, p.A5340
- P804 Diffuse Alveolar Hemorrhage in an Immunocompetent Patient with Legionnaire's Disease/M.** Odeesh, R. Rudd, K. Marsh, D. Kadaria, A. Sodhi, Memphis, TN, p.A5341
- P805 A Rare Case of Pneumo-Pericardium and Pneumothorax After Left Nephrectomy/J.** Margapuri, Bronx, NY, p.A5342
- Facilitators:** R. Kashyap, MBBS, Rochester, MN
A. Mehta, MD, Denver, CO
- P806 Chest Pain and Respiratory Failure: The Challenge of the Differential Diagnosis. Clinical or Surgical Management?/L.** Fernandez, J.E. Bolaños, M. Velasquez, C.S. Leib, Cali, Colombia, p.A5343
- P807 Life Threatening Complication of Percutaneous Transthoracic Lung Biopsy/M.F.** Khalid, E. Josan, K. Al Balbissi, Johnson City, TN, p.A5344
- P808 Post-Extubation Laryngeal Edema: Consideration for Tracheostomy Placement/H.E.B.** Storer, T.S. Gilotra, A. El-Abbassi, Erie, PA, p.A5345
- P809 Bilateral Phrenic Nerve Paralysis as a Complication of Decompressive Cervical Laminectomy/M.** Hafiz, V. Maddipati, Greenville, NC, p.A5346
- P810 Severe Refractory Hypoxemia, What Now?/M.A.** Farinacci Vilaro, L.O. Gerena Montano, K.X. Rivera, M.J. Cruz Caliz, R. Hernandez-Castillo, J.M. Garcia Puebla, D. Aponte, San Juan, PR, p.A5347
- P811 Does Aspiration Worsen Enterovirus Infection and Lead to Type 1 Respiratory Failure in Non-Immunocompromised Adults? A Case Series/P.** Macauley, A.A. Abbasi, J. Samaroo-Campbell, O.B. Taha, Y. Kupfer, C. Seneviratne, Brooklyn, NY, p.A5348
- P812 Nebulized Heparin and N-Acetylcysteine for Smoke Inhalational Injury/U.** Ashraf, B. Bajantri, G. Roa-Gomez, A. Cantin, S.K. Venkatram, G. Diaz-Fuentes, Bronx, NY, p.A5349
- P813 Critical Airway: Angiotensin-Converting-Enzyme Inhibitor Induced Angioedema/M.** Korotun, Y. Greenstein, New Hyde Park, NY, p.A5350
- P814 Skin Sloughing and Hypoxic Respiratory Failure/R.D.** Rogers, R. Young, B. Dembo, Hershey, PA, p.A5351

THEMATIC POSTER SESSION

C55 HAZARDOUS CHEMICAL EXPOSURE

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area F (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: S.E. Jordt, PhD, Durham, NC

- P539 Bromine Exposure In Pregnant Mice May Reduce VEGF Signaling/J.A.** Lambert, K.A. Ahmed, M.A. Carlisle, D. Ford, S. Aggarwal, R.P. Patel, T. Jilling, S. Matalon, Birmingham, AL, p.A5352
- P540 Low-Dose Chlorine Inhalation in Healthy Humans: A Pilot Study/I.** Ojanguren, Y. Cloutier, J.G. Martin, S. Chaboillez, A.L. Panariti, T.K. McGovern, C. Lemiere, Montreal, Canada, p.A5353
- P541 Outcome of Organophosphate Poisoning with Acute Respiratory Failure: A 10-Year Study/C.-H.** Chang, M.-C. Chuang, C.S. Lee, M.-J. Hsieh, Taoyuan, Taiwan, p.A5354
- P542 Brominated Lipid Adducts Cause Hemolysis and Exacerbate Pulmonary and Systemic Injury Post Bromine Exposure/T.** Jilling, S. Aggarwal, I. Ahmad, C. Ren, D. Ford, R.P. Patel, S. Matalon, Birmingham, AL, p.A5355

Facilitator: L.A. Veress, MD, Aurora, CO

- P543 Ultrastructural Evidence of Bromine Inhalation Induced Cardiac Damage/S.** Ahmad, A. Ahmad, A. Zaky, J.X. Masjoan Juncos, W. Chih-Chang, W.E. Bradley, I. Zafar, P. Powell, N. Mariappan, D.A. Ford, S. Doran, S. Matalon, L.J. Dell'Italia, Birmingham, AL, p.A5356
- P544 "The Role of Peripheral Smear Finding of Basophilic Stippling in Unmasking Severe Undiagnosed Lead Poisoning"/H.** Khudayar, K. Nakajima, T. Minami, Pawtucket, RI, p.A5357
- P545 Estimates of Exposures to Chemical Threat Agents/D.A.** Wilson, K. Simpson, E.R. Svendsen, Charleston, SC, p.A5358

THEMATIC POSTER SESSION

C56 SARCOIDOSIS AND IDIOPATHIC LUNG DISEASE

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area H (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: M. Gulati, MD, New Haven, CT

- P929 Seasonal Periodicity in Pulmonary Fibrosis Mortality in the United States/Z.** Yaqoob, S. Alqaisi, A. Fadhil, H. Altafi, Orlando, FL, p.A5359

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- P930 Social Predictors of Hospitalization in the Sarcoidosis Advanced Registry for Cures (SARC)/**L. Harper, A. Gerke, R.P. Baughman, M.A. Judson, L. Serchuck, L.A. Maier, G. Spitzer, N. Singh, M. Li, X. Wang, M. Drent, D.A. Culver, Cleveland, OH, p.A5360
- P931 Familial Aggregation and Heritability of Sarcoidosis: A Swedish Nested Case-Control Study/**M. Rossides, J. Grunewald, S. Kullberg, A. Eklund, D. Di Giuseppe, J. Askling, E.V. Arkema, Stockholm, Sweden, p.A5361
- P932 Radiomic Features as a Biomarker for Pulmonary Sarcoidosis/**N. Carlson, S. Ryan, N.Y. Hamzeh, T.E. Fingerlin, L.A. Maier, Aurora, CO, p.A5362
- P933 Fibrotic Pulmonary Sarcoidosis Is Associated with Obstructive Respiratory Physiology and Architectural Distortion on Computed Tomography/**A.K. Levy, C. Richards, J. Escalon, B. Barkes, P. Mroz, D.A. Lynch, N.Y. Hamzeh, T.E. Fingerlin, L.A. Maier, Aurora, CO, p.A5363

Facilitator: C.S. Glazer, MD, MSPH, Dallas, TX

- P934 World Trade Center-Associated Sarcoidosis: A Pilot Genotype Survey/**S.D. Spivack, J. Shan, K. Ye, M. Shi, M. Aldabagh, K. Hena, J. Yip, N. Jaber, K. Cleven, R. Zeig-Owens, L.A. Barker, L.A. Maier, T.K. Aldrich, D.J. Prezant, Bronx, NY, p.A5364
- P935 Comparison of Composite Physiologic Index and GAP Models in Patients with Idiopathic Pulmonary Fibrosis: A Nationwide Cohort Study/**M. Sung, L. Sang Hoon, Y. Kang, C.M. Ahn, M.S. Park, Seoul, Korea, Republic of, p.A5365
- P936 Risk Factors for Interstitial Lung Disease/**W.-I. Choi, C.W. Lee, Daegu City, Korea, Republic of, p.A5366
- P937 Identification of Environmental Exposures Associated with Risk of Sarcoidosis in African Americans/**A.M. Levin, Y. Chen, R. She, I. Adrianto, I. Datta, M.C. Iannuzzi, C. Montgomery, J. Li, B. Rybicki, Detroit, MI, p.A5367

THEMATIC POSTER SESSION

C57 TUBERCULOSIS EPIDEMIOLOGY

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area F (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: P.A. Lobue, MD, Atlanta, GA

- P547 History of Tuberculosis, Associated Factors in Transvestites/Transsexual Women Residing in Sao Paulo, Brazil/**P.A. Nogueira, S. Ferreira Junior, P.M.S.B. Francisco, Sao Paulo, Brazil, p.A5368
- P548 Prevalence of MDR TB Among Newly Diagnosed TB Patients at a Tertiary Care Center in North India/**K. Gupta, M. Kohli, S. Sinha, New Delhi, India, p.A5369

- P549 Prevalence of Multi and Extensively Drug-Resistance TB and Increasing Fluoroquinolone Resistance/**M. Kohli, Delhi, India, p.A5370
- P550 Latent Tuberculosis Infection and Vitamin D Status in Health Care Workers/**D.W. Park, T.S. Park, J.-Y. Moon, S.-H. Kim, T.-H. Kim, J.W. Sohn, H.J. Yoon, Seoul, Korea, Republic of, p.A5371
- P551 Identification of Modifiable Factors for Improvement of Tuberculosis Outcomes in a High Burden Setting/**J.L.D.R.Q. Junior, J. Leung, H. Siqueira, W. Costa, A.P. Santos, Rio de Janeiro, Brazil, p.A5372
- P552 Anti-Tuberculosis Drug Resistance in Strains of Mycobacterium Tuberculosis: Clinical Outcomes and Resistance Profile in a Multiethnic Population/**R.G. Figueiredo, L. Carvalho, J.V. Carvalho, E. Matos, Feira De Santana, Brazil, p.A5373

Facilitator: M.C. Lipman, MD, London, United Kingdom

- P553 Correlation Between Zielh-Neelsen, PCR and Culture for Mycobacterium Identification in a Colombian Hospital/**A.M. Baldión-Elorza, G.A. Martínez Salazar, J.S. Cabrera Silva, A.F. Delgado Villareal, P. Rodríguez, S.A. Turriago Martínez, F. Soto, D. Palacios, J.H. Roa Buitrago, Bogota, Colombia, p.A5375
- P554 Magnitude of Tuberculosis and Associated Factors Among Contacts of Multi-Drug Resistant Tuberculosis Patients in Tanzania/**G.D. Kimaro, A.W. Mbuya, R. Kinyaha, R.M. Kisonga, E.S. Ngadaya, E.H. Sandi, R. Shemtandulo, S.G. Mfinanga, Dar Es Salaam, Tanzania, United Republic of, p.A5376
- P555 Hospitalized Patients and Quantiferon (Positive Control) Failure at Harlem Hospital/**Y. Thein, K. Shah, C.C. Ejiogu, L.E. Carrasco, G.R. Pesola, New York, NY, p.A5377
- P556 Prevalence of Tuberculosis Infection Among South African Adolescents Risk of Pulmonary Tuberculosis for Children and Adolescents/**E.W. Bunyasi, H. Geldenhuys, H. Mulenga, J. Shenje, A. Luabeya, M. Tameris, F. Ratangee, K. Vollenhoven, M.D. Kock, E. Nemes, H. Mahomed, V. Rozot, R. Wood, T. Scriba, J. Andrews, M. Hatherill, Cape Town, South Africa, p. A5378
- P557 Risk of Pulmonary Tuberculosis for Children and Adolescents with Various Factors/**L. Gorbach, Minsk, Belarus, p.A5379
- P558 Yield and Efficiency of Novel Intensified Tuberculosis Case-Finding Algorithms for People Living with HIV/**C. Yoon, F. Semitala, J. Katende, S. Mwebe, L. Asege, M. Nakaye, A. Andama, D. Armstrong, D. Dowdy, C. McCulloch, M. Kamya, A. Cattamanchi, San Francisco, CA, p.A5380

Facilitator: P.B. Shete, MD, San Francisco, CA

- P559 Serial Testing of Healthcare Workers for Latent Tuberculosis Infection and Long-Term Follow Up for Development of Active Tuberculosis/**Y. Kang, Y. Park, J. Kim, M. Park, Seoul, Korea, Republic of, p.A5381
- P560 Effect of Increase User Fees in Accessing New Tuberculosis Diagnostic Services in the East Africa Public Health Laboratory Network Supported Project Sites Experience from Tanzania/**E.H. Sandi, E.S. Ngadaya, S.G. Mfinanga, G.D. Kimaro, N.B. Mgina, R. Shemtandulo, Dar es Salaam, Tanzania, United Republic of, p.A5382

- P561 High Incidence of Tuberculosis After Hospitalization in Botswana/Y. Baik, C. Modongo, O. Fane, C. Caiphus, N. Zetola, S.S. Shin, Los Angeles, CA, p.A5383**
- P562 Comparing Canada and the USA TB Rates with Population Profile/S. Essien, T. Epp, V.H. Hoepfner, Saskatoon, Canada, p.A5384**
- P563 History of Tuberculosis, Associated Factors in Transvestites/Transsexual Women Residing in Sao Paulo, Brazil/P.A. Nogueira, S. Ferreira Junior, P.M.S.B. Francisco, Sao Paulo, Brazil, p.A5385**

THEMATIC POSTER SESSION

C58 FUNGAL CASE REPORTS

9:15 a.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER

Area K (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: S.E. Evans, MD, Houston, TX

- P1164 Ochroconis Gallopava Infection in a Patient with Bronchiectasis on Low Dose Steroids/C. Whitehurst, C. Patel, C. Boethel, Temple, TX, p.A5386**
- P1165 Candidal Thoracic Empyema Due to Esophageal Pleural Fistula/M.F. Khaliq, P. Palabindela, H.E. Mohamed, Charleston, WV, p.A5387**
- P1166 A Case of Endobronchial Aspergilloma with Allergic Bronchopulmonary Aspergillosis/X. Wang, S. Ramakrishna, C.-W. Yang, H. Li, S. Saleem, B. Milekic, Y. Zhao, Scranton, PA, p.A5388**
- P1167 Rapidly Progressing Necrotizing Pneumonia Secondary to Blastomycosis/K. Pennington, T. Peikert, P. Escalante, Rochester, MN, p.A5389**
- P1168 A Case of Pulmonary Blastomycosis Induced ARDS with Early Initiation of Steroids/D. MacDonald, N. Ingraham, G.A. Sarosi, Minneapolis, MN, p.A5390**
- P1169 The Infection Returns: A Case of Pulmonary Sporotrichosis Relapse After Chemotherapy/S.M. Farooqui, H. Youness, Oklahoma City, OK, p.A5391**
- P1170 Percutaneous Intracavitary Administration of Amphotericin B to Minimize Risk of Recurrent Hemoptysis from Aspergilloma/N.H. Fuerst, M.P. Patel, V. Khangoora, Norfolk, VA, p.A5392**
- P1171 Histoplasmosis: When the Diagnosis Can Be Deadly/D. Westerhausen, W.G. Carlos, Indianapolis, IN, p.A5393**
- P1172 Recognizing Fungal Pneumonia with Eosinophilia in Endemic Areas/V. Kumar, U. Chaddha, R. Mahdavi, Los Angeles, CA, p.A5394**
- Facilitator:** C.A. Hage, MD, Indianapolis, IN
- P1173 Gilchrist's Disease: A Rare Endobronchial Tumor Mimic/S.T. Zaheer, R.Z. Abraham, Kankakee, IL, p.A5395**
- P1174 Fungal Infections Masquerading as Sarcoidosis/C. Wood, L. Arviso, H. Rokadia, W. Herlihy, H. Zhang, P.S. Garcha, Dallas, TX, p.A5396**
- P1175 Mycoplasma and Histoplasma Pulmonary Coinfection Causing Rhabdomyolysis in an Immunocompetent Patient/P. Sen, U. Majumdar, A.I. Saeed, Albuquerque, NM, p.A5397**
- P1176 Pulmonary Mucormycosis Presenting as a Chronic Infection in a Poorly Controlled Diabetic Diagnosed by Fungal 18s rRNA Sequencing/M.B. McCarra, Stanford, CA, p.A5398**
- P1177 Coccidioidomycosis: A Silent Threat for Diabetes Mellitus/E. Ho, S. Tonthat, Fresno, CA, p.A5399**
- P1178 Chicago's Disease, An Unusual Case of Pulmonary Blastomycosis with Large Cavitation/A. Mohammed, J. Rey-Mendoza, S. Sukhal, Chicago, IL, p.A5400**
- P1179 A Tale of Mold Not Often Told; Pulmonary Thromboembolism by Mucormycosis in a Well Controlled Diabetic/A. Khan, E.K. Dinino, A. Golchin, E. Khan, Springfield, MA, p.A5401**
- P1180 Hemoptysis Caused by an Enlarging Aspergilloma/S. Ershadi, P. Buddhadev, P. Jha, Milwaukee, WI, p.A5402**
- P1181 Aspergillus Empyema in a 70 Year Old Male Recently Started on Dexamethasone/D.L. See, Cleveland, OH, p.A5403**
- Facilitator:** S.T. Qureshi, MD, Montreal, Canada
- P1182 Wunderlich Syndrome: An Atypical Presentation of Disseminated Histoplasmosis in an Immunocompetent Adult/H. Karnib, K. El-Kersh, Louisville, KY, p.A5404**
- P1183 ARDS Due to Severe Multifocal Paracoccidiomycosis in an Immunocompetent Host/C. Colunche, E. Romero, G. Velasquez, W. Chavez, G. Huaman, J. Diaz, R. Accinelli, E. Valdivia, K. Tafur, E. Morello, R. Flores, R. Chancafe, J. Cok, W. Porras, O. Gayoso, Lima, Peru, p.A5405**
- P1184 Super Fungus: Treatment Refractory Coccidioidomycosis/H.A. Jaliawala, J.A. Cantu-Clatza, B. Saksouk, D.C. Levin, Oklahoma City, OK, p.A5406**
- P1185 Pulmonary Mucormycosis Leading to ARDS in a Patient with CMML/T.A. Newman, N. Yee, J. Stewart, T.J. Albert, Seattle, WA, p.A5407**
- P1186 Blastomycosis in Patient Initially Diagnosed with Influenza A and Community-Acquired Pneumonia/D.F. Martin, Y.N. Kothari, Louisville, KY, p.A5408**
- P1187 Primary Pleural Coccidioidomycosis/H. Khudayar, Pawtucket, RI, p.A5409**
- P1188 Necrotizing Pneumonia and ARDS from Blastomyces Dermatitis in a Young Immunocompetent Patient/B. Hay, M.C. Exline, Columbus, OH, p.A5410**
- P1189 Pleural Effusion, an Uncommon Presentation of Histoplasmosis/M. Lannan, D. Westerhausen, A. Noor, Indianapolis, IN, p.A5411**
- P1190 A Case of Temozolomide Chemoradiotherapy Induced Pneumocystis Jirovecii Pneumonia in a Non-HIV Patient/J.Q. Yin, P. Patel, T. Thompson, Peoria, IL, p.A5412**

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

Facilitator: A. Young, MD, Houston, TX

- P1191** **Cryptococcus Gattii: Not Just a Disease of the Immunocompetent. A Rare Case of Pulmonary Cryptococcus in an Individual with Chronic Lymphocytic Leukemia on Obinutuzumab/J.** Stevens, C. Dedeaux II, G. Allada, Portland, OR, p.A5413
- P1192** **A Nonmalignant Etiology of a Large Eroding Mediastinal Mass in a Nonendemic Area/S.** Daouk, H.A.M. Fakh, S. Hadigal, E. Papierniak, E.M. Harman, Gainesville, FL, p.A5414
- P1193** **Pulmonary Mucormycosis a Successful Dual Treatment Case Report/K.** Jassen Avellaneda, E. Becerril Vargas, M. Ramirez Candelas, R. Robles Hernandez, Tlalpan, Mexico, p.A5415
- P1194** **Pulmonary Mucormycosis Mimicking Pneumonia/T.M.** Arab, T. Ullah, M. Malekzadegan, G. Martinez, F. Bagheri, S. Sarkar, M. Mora, N. Pathak, Jamaica, NY, p.A5416
- P1195** **To Treat with Steroids or Not to Treat: That Is the Question/P.** Agarwal, J. Sunderram, New Brunswick, NJ, p.A5417
- P1196** **Severe Pulmonary Mucormycosis Successfully Treated with Lobectomy and Antifungal Therapy: A Case Report/P.F.B.** Colares, T.N. Béder, J.P.C. Serra, F.M. da Costa, R. Sales, A.N. Costa, A.W. Mariani, F.M. de Gouvêa, P.H.C. Leite, F. Bernardi, E. Nascimento, Sao Paulo, Brazil, p.A5418
- P1197** **It Is Not a “Tumah”/N.** Hinds, A. Borah, E. Abramian, Philadelphia, PA, p.A5419
- P1198** **Histoplasmosis: A Great Imitator/A.S.** Jhand, M.F. Anwar, O. Bhatta, P.G. Millner, Z.S. DePew, Omaha, NE, p.A5420
- P1199** **Acute Respiratory Distress Syndrome in a Patient with Disseminated Blastomycosis/J.L.** Sanchez, S. Patel, Chicago, IL, p.A5421
- Facilitator:** E.M. Carmona Porquera, MD, PhD, Rochester, MN
- P1200** **Sarcoidosis: A Risk Factor for Developing Chronic Pulmonary Aspergillosis/T.** Khan, Neptune, NJ, p.A5422
- P1201** **A Case of Disseminated Pulmonary Mucormycosis Mimicking Malignancy Treated with Intrabronchial Antifungal/V.** Sundarasamy, M. Rafiq, Karaikal, India, p.A5423
- P1202** **Death Dust: Case Report of an HIV Positive Patient with Pulmonary Coccidioidomycosis/H.A.** Nazir, S. Nanavati, A. Al Twal, B. Hanna, M. Lindner, O.O. Adekolu, A. Arjuna, C. Pinzon Escobar, K. Scatliffe, T.P. Lugo, C. Migliore, P.S. Patel, Newark, NJ, p.A5424
- P1203** **Pulmonary Aspergilloma Disguised as Actinomyces Infection in a Healed Tuberculous Cavitory Lesion/U.A.** Bhatti, M. Hayat, D. Rhoades, Oklahoma City, OK, p.A5425
- P1204** **Pulmonary Aspergillus Overlap Syndrome - A Case Report/J.** Akhtar, A. Lal, R. Rosiello, Worcester, MA, p.A5426
- P1205** **A Strange Case of Coccidioidomycosis: Utilization of Bronchoscopy to Diagnose a Chronic Cavitory Lesion/M.** Nayeemuddin, M.D. Jankowich, A. Noska, E.J. Gartman, Providence, RI, p.A5427
- P1206** **Allergic Bronchopulmonary Aspergillosis Manifesting as a Lingular Hyperdense Mass/C.** Butler, M.C. Runnstrom, J.L. Chertoff, C. Harden, A. Ataya, Gainesville, FL, p.A5428

- P1207** **The Black Bronchus Sign Radiological Diagnosis of Pneumocystis Jiroveci Pneumonia/N.** Appusamy, Trichy, India, p.A5429
- P1208** **BetrAID Along the Path to Providing Just Patient Care/N.E.** Ingraham, D. MacDonald, G.A. Sarosi, Minneapolis, MN, p.A5430
- P1209** **The Use of Endobronchial Ultrasound Guided Fine Needle Aspiration in the Diagnosis of Invasive Candida Tropicalis Infection/J.** George, T. Plush, V. Ciocca, L.W. Greenspon, T.J. Meyer, Wynnewood, PA, p.A5431

THEMATIC POSTER SESSION

C59 UNUSUAL PULMONARY INFECTIONS

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area K (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: R. Nusrat, MD, Princeton, NJ

- P1211** **Coccidiomycosis a Cause of Hemorrhagic Pleural Effusion/C.** Hsieh, G.W. Soo Hoo, Los Angeles, CA, p.A5432
- P1212** **Concomitant Occurrence of Inonatus Tropicalis and Chronic Thromboembolic Pulmonary Hypertension/Z.** Salman, S. Sahay, Houston, TX, p.A5433
- P1213** **Disseminated Zoster with Pneumonitis Presenting as Recurrent Airway Obstruction/B.** Bhattarai, K.L. Kovitz, S.R. Greenhill, Brooklyn, NY, p.A5434
- P1214** **Anaplasmosis-Associated Pneumonitis/B.A.** Hirsh, L.W. Greenspon, Wynnewood, PA, p.A5435
- P1215** **Tracheoesophageal Fistula in an Adult with Recurrent Necrotizing Pneumonia/A.** Maller, J. Martires, N. Kamangar, Los Angeles, CA, p.A5436
- P1216** **When this Is the Last Thing You Expect to See in Your Bronchoalveolar Lavage/F.** Afridi, I. Acosta Sanchez, A. Ashraf, Orlando, FL, p.A5437
- P1217** **A Rare Case of Pulmonary Hydatid Cyst/P.** Chandar, S. Kulandaisamy, S. Shankar, A.A. Abbasi, J.P. Shaw, O. Wiesel, Brooklyn, NY, p.A5438
- P1218** **Do Not Eat Raw Fish and this Is Why?!/Z.** Shmaisani, A. Bourbia, M. Abu Omar, T.M. Saettele, Kansas City, MO, p.A5439
- P1219** **The Hazards of Being a Cat Lady: A Case of Pasteurella Pneumonia/S.A.** Mahmood, C. Kloefkorn, S. Gandotra, J.M. Bishop, Winston-Salem, NC, p.A5440
- P1220** **The Cryptic Case of a Gardener’s Rib Fracture/S.T.** Zaheer, R. Almeida, Kankakee, IL, p.A5441

Facilitator: M.L. Metersky, MD, Farmington, CT

- P1221** **The Lung Mass Masquerade/J.** D’Amico, E.M. Knauff, Portland, ME, p.A5442

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- P1222 Presentation of Pulmonary Kaposi Sarcoma in the Absence of Cutaneous Manifestations: A Diagnostic Challenge for Physicians/M.M. Munawar, F.T. Ogundipe, V.P. Mallipeddi, R. John, Washington, DC, p.A5443**
- P1223 Findings that Will Make You Squirm: A Case of Hypoxic Respiratory Failure Secondary to Pulmonary Strongyloides/B. Stysly, M.J. Miles, T.A. Dillard, P. Jamindar, Augusta, GA, p.A5444**
- P1224 Diffuse Pulmonary Nodules - An Unusual Case of CMV Pneumonitis/M.C. Runnstrom, R. Hyde, J.L. Chertoff, A. Ataya, Gainesville, FL, p.A5445**
- P1225 Strongyloides Hyperinfection After Glioblastoma Treatment Diagnosed with Bronchoalveolar Lavage/R. Baalachandran, E.J. Britt, Baltimore, MD, p.A5446**
- P1226 Atypical Pulmonary Strongyloidiasis in a Patient from a Non-Endemic Area for Strongyloides Stercoralis/M. Karagic, A. Schneider, A. Abraham, T. Madaline, D. Ferastraoar, Bronx, NY, p.A5447**
- P1227 Incidentally Discovered Reverse Halo Sign in a Patient Admitted for Acute CVA/M. Forte, L. Teba, Morgantown, WV, p.A5448**
- P1228 Unusual Opportunistic Co-Infections in Acquired Immunodeficiency Syndrome/L. Gerena Montano, M.A. Farinacci Vilaro, M. Colon, San Juan, PR, p.A5449**
- P1229 Melioidosis - A Rare Case of Mediastinal Lymphadenopathy/S. Roche, R.J. Fahy, A. McLaughlin, J.M. Keane, Dublin, Ireland, p.A5450**
- Facilitator:** M.I. Restrepo, MD, MSc, San Antonio, TX
- P1230 A Case Series Report: Three Cases of Streptococcus Anginosus Group Empyema During December 2016 in a Community Hospital, Nebraska/M.K. Loya, Omaha, NE, p.A5451**
- P1231 Hydropneumothorax Secondary to Bronchoscopy: Known but Rare Complication/D. Makati, R.C. Stansbury, R.G. Sangani, Morgantown, WV, p.A5452**
- P1232 Life Threatening Hemoptysis: A Case of Chronic Cavitory Pulmonary Tuberculosis Complicated with Aspergilloma/J.R.T. Galamay, T.S. De Guia, F.G. Ayuyao, M.E. Limpin, Quezon City, Philippines, p.A5453**
- P1233 A Case of Necrotizing Pneumonia: Community Acquired Multi-Drug Resistant Pseudomonas Infection?/P. Sharma, I. Romero, Memphis, TN, p.A5454**
- P1234 Legionella Pneumonia Causing Rhabdomyolysis, Acute Renal Failure and Neurological Manifestations/L.E. Krowl, R. Subedi, A. Ghimire, Syracuse, NY, p.A5455**
- P1235 Mimicking the Mimicker: A Case of Concurrent Actinomycosis and Small Cell Lung Cancer/A. Subramanian, K. Lipatov, S.A. Ghamande, Temple, TX, p.A5456**
- P1236 Legionnaires' Disease Presenting with Gastrointestinal Symptoms and Rhabdomyolysis/R.C. Cerrud-Rodriguez, J. Paniagua-Morales, A. Olagunju, V. Bengualid, S.R. Rokkam, Bronx, NY, p.A5457**
- P1237 MRSA Necrotizing Pneumonia Mimicking Malignancy/A. Tandon, L. Orr, V. Tandon, Farmington, CT, p.A5458**
- P1238 Endobronchial Actinomycosis Masquerading as Bronchogenic Carcinoma/A. Dheyab, S. Toomey, P.J. Oliveira, Worcester, MA, p.A5459**
- P1239 A Complicated Case of Contaminant HIV-Related PJP and CMV Pneumonitis/N. Patel, S. Vanaik, G. George, Philadelphia, PA, p.A5460**
- Facilitator:** S. Cherian, MBBS, MD, Houston, TX
- P1240 An Atypical Presentation of a Lung Abscess in the Setting of Suspected Malignancy/M. Shahzadi, F. Congiusta, A.Z. Rasheed, L.N. Gerolemou, Brooklyn, NY, p.A5461**
- P1241 A Paravertebral Abscess Masquerading as a Lymphoma/E. Josan, H. Storer, P. Sankhyan, C. Racedo-Africano, Johnson City, TN, p.A5462**
- P1242 Uncommon Yet Debilitating Pulmonary Complication Post Endoscopic Retrograde Cholangio-Pancreatography/V.R. Patel, J. Rathod, Milwaukee, WI, p.A5463**
- P1243 A Case of Two Red Herrings/S. Beshay, M. Ahmad, T. Majumdar, Houston, TX, p.A5464**
- P1244 Nocardiosis with Organizing Pneumonia in an Immunocompetent Patient with COPD/A. Nawaz, C.V. Magaspi, B. ElBebawy, Cooperstown, NY, p.A5465**
- P1245 Necrotizing Community Acquired Pseudomonas Pneumonia Associated with Home Humidifier Use/P. Koon, G.B. Chun, New York, NY, p.A5466**
- P1246 Moldy Hay and the Cirrhotic Farmer: The First Case of Peniophora Lung Infection/L. Miranda, O. Epelbaum, H. Assallum, G. Miranda, Valhalla, NY, p.A5467**
- P1247 A Symptomatic Solitary Pulmonary Nodule in an Immunosuppressed Patient/S. Tuthill, J. Zatakia, Houston, TX, p.A5468**
- P1248 "Fecopytisis": A Rare Complication of a Subdiaphragmatic Abscess/P.P. Pataramekin, D.B. Desai, T.P. Fitton, C.R. Lamb, Burlington, MA, p.A5469**
- Facilitator:** C. Dela Cruz, MD, PhD, New Haven, CT
- P1249 Trichosporonosis in an Immunocompromised Patient Presenting as a Tracheal Mass with Positive Galactomannan Assay/S.R. Wappel, O. Kalchiem-Dekel, V. Nyemba, M. Kleinberg, A. Sachdeva, E. Pickering, Baltimore, MD, p.A5470**
- P1250 A Rare Case of Disseminated Chrysosporium Involving the Pancreas/C. Schuring, A. Yankovich, D. Lanade, A. Sodhi, Memphis, TN, p.A5471**
- P1251 Hidden in Plain Sight: Pulmonary Cryptococcosis in an Immunocompetent Patient/L.S.H. Cruz, U. Chaddha, C.-F. Chang, Los Angeles, CA, p.A5472**
- P1252 A Case of Hantavirus Pulmonary Syndrome/J. Scrobola, C.F. Allison, K. Menard, M.W. Moore, Portland, ME, p.A5473**
- P1253 Cladophialophora Bantiana Brain Abscess in a Patient with Pulmonary Nocardiosis - A Case of Two Rare Infections/M.F. Khaliq, R. Ihle, C. Schirtzinger, Charleston, WV, p.A5474**
- P1254 TB, or Not TB: That Is the Question/V. Murugesan, J. Tran, M. Veluru, M. Connelly, Washington, DC, p.A5475**
- P1255 Pulmonary Actinomycosis in a Lung Transplant Recipient/M. Garcia, R.P. Matos, S.V. Campos, J. Afonso, A. Costa, R. Carraro, R.H.O.B. Teixeira, Sao Paulo, Brazil, p.A5476**

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P1256 ARDS Due to Strongyloides Pneumonia/M.F. Khaliq, R.E. Ihle, J.D. Perry, H.E. Mohamed, Charleston, WV, p.A5477

P1257 SIRVA: Uncommon Yet Debilitating Cause of Flu Vaccine Administration/V.R. Patel, T. Gronski, Milwaukee, WI, p.A5478

THEMATIC POSTER SESSION

C60 TRANSLATIONAL AND BASIC INVESTIGATIONS IN PULMONARY INFECTION

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area K (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: A.E. Samarasinghe, PhD, Memphis, TN

P1259 The Preventive Effect of Macrolide Antibiotics on Postinfluenza Bacterial Pneumonia in COPD Model Mice/Y. Ishimatsu, T. Harada, A. Hara, T. Miyamura, H. Yura, S. Nakashima, T. Kakugawa, H. Ishimoto, N. Sakamoto, H. Mukae, Nagasaki, Japan, p.A5479

P1260 Chitotriosidase Protects Mice Against Influenza Lung Infection/L.K. Sharma, A.K. Amick, A.J. Losier, V.A. Brady, S. Gautam, W. Liu, S.W. Lee, C. Lee, J.A. Elias, C. Dela Cruz, New Haven, CT, p.A5480

P1261 Ex Vivo Respiratory Syncytial Virus Infection Induces Host Inflammatory Response in Human and Non-Human Primate Lung Tissue Slices/E.S. Twisterling, F. Dahlmann, S. Dehmel, P. Braubach, D.D. Jonigk, G. Warnecke, K. Sewald, A. Braun, Hannover, Germany, p.A5481

P1262 Profiling Early Molecular Responses in Primary Human Bronchial Epithelial Air-Liquid Interface Cultures Exposed to Aspergillus Fumigatus Conidia/A. Toor, L. Culibrk, G.K. Singhera, W.L. Tam, K.-M. Moon, A. Prudova, L.J. Foster, M.M. Moore, D.R. Dorscheid, S.J. Tebbutt, Vancouver, Canada, p.A5482

P1263 Bronchobini® Ingredients (BRO) Prevent Rhinovirus Infection in Viable Mouse Lung Tissue/K. Sewald, N. Hirth, J. Warnecke, O. Danov, H. Obernolte, A. Braun, S. Wronski, Hannover, Germany, p.A5483

P1264 Long Noncoding RNA MEG3-4 Tissue Specifically Modulates IL-1b by Competing Its Binding to Microrna-138 in Pulmonary Bacterial Infection/M. Wu, Grand Forks, ND, p.A5484

Facilitator: H. Koziel, MD, Boston, MA

P1265 The Semi-Synthetic Streptococcus Pneumoniae Serotype 3 Tetrasaccharide Conjugate Protected Mice from Severe Pneumonia/K. Reppe, K. Hofmann, S.G. Parameswarappa, C.L. Pereira, G. Nouailles, A. von Bonin, R. Klopfleisch, P.H. Seeberger, M. Witznath, Berlin, Germany, p.A5485

P1266 Synergistic Activity of Colistin in Combination with N-Acetylcysteine Against Colistin-Resistant Acinetobacter Baumannii Grown in Biofilms/F. Sergio, L. Pallecchi, S. Pollini, F. Blasi, S. Boncompagni, T. Di Maggio, S. Aliberti, G. Rossolini, Milan, Italy, p.A5486

P1267 Beta Glucans as a Vaccine Adjuvant in a Murine Model of Pneumocystis Pneumonia/H. Dasari, M. Ali, P. Marsolek, D. Hebrink, V. Van Keulen, T.J. Kottom, E.M. Carmona Porquera, Rochester, MN, p.A5487

P1268 Potential of the Phage Depolymerase from a Myoviridae Bacteriophage vB_AbaM_IME200 Against Pandrug-Resistant Acinetobacter Baumannii/C. Bai, Y. Liu, Z. Mi, Y. Tong, Beijing, China, p.A5488

P1269 Efficacy of Inhaled Amikacin and Fosfomycin in a Rat Model of Acute Pseudomonas-Induced Pneumonia/M.C. McElroy, A.T. Marsden, S.K. Gandhi, P. Smith, X.-Y. Li, S. Beck, A.B. Montgomery, Edinburgh, United Kingdom, p.A5489

P1270 The Placental Protein Syncytin Activates the NLRP3 Inflammasome and Enhances PBMC Inflammatory Responses to Influenza/P.A.B. Wark, K. Nichol, J. Tolosa, P. Hansbro, R. Smith, New Lambton, Australia, p.A5490

Facilitator: C. Richards, MD, Boston, MA

P1271 Comparison of Fungal DNA Extraction Methodologies for Mycobiome Analysis/N. Britton, A. Fitch, B. Methe, A.M. Morris, Pittsburgh, PA, p.A5491

P1272 NOX2-Mediated Neutrophil Extracellular Traps (NETs) Is Responsible for Lung Injury Induced by Rhizopus Oryzae and Mucor Circinelloides Infection/S. Han, M. Kim, J.-C. Ryu, Y.W. Chung, J.-A. Seo, J.-H. Ryu, Seoul, Korea, Republic of, p.A5492

P1273 Toll-Like Receptor Signaling Reveals Differential Gene Expression Profiles Involved in Prevention of Virus-Induced Asthma/S. Wali, J.R. Flores Gonzalez, M.J. Tuvim, B.F. Dickey, S.E. Evans, Houston, TX, p.A5493

P1274 A Far Red Emitting Fluorescence Probe Detect Specific Peroxynitrite In Vitro and Is Used for Detection of Peroxynitrite in Live Cells and Lung Infectious Mouse Model/D. Jeong, J.-C. Ryu, Y.W. Chung, J.-H. Yoon, J. Yoon, J.-H. Ryu, Seoul, Korea, Republic of, p.A5494

P1275 Mechanisms of ODN-Induced Epithelial Reactive Oxygen Species Generation and Its Role in Inducible Resistance to Influenza Infection/Y. Wang, V. Kulkarni, M. Leiva-Juarez, S. Wali, F. Gulraiz, M. Chavez Cavazos, S.E. Evans, Houston, TX, p.A5495

THEMATIC POSTER SESSION

C61 PULMONARY INFECTIONS: CLINICAL INVESTIGATIONS

9:15 a.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER
Area K (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
 12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: R.F. Grossman, MD, Toronto, Canada

P1277 Use of Bronchoalveolar Lavage Automated Polymerase Chain Reaction (A-PCR) Compared to Nasal Culture for Diagnosis of Methicillin-Resistant Staphylococcus Aureus (MRSA) Pneumonia/J.R. Paonessa, C. Ononye Pickens, R.G. Wunderink, Chicago, IL, p.A5496

P1278 Expanded A-DROP Score: A New Score System Predicts the Severity of Community-Acquired Pneumonia/J.H. Ahn, K.H. Lee, J.H. Chung, K.C. Shin, H.J. Jin, J.S. Kim, E.Y. Choi, Daegu, Korea, Republic of, p.A5497

P1279 Bacterial Contamination of Nebulizers After a Single In-Hospital Use/J. Dewald, Q. He, K. Wyckoff, J. Ferris, S. Elder, R. Dhand, Knoxville, TN, p.A5498

P1280 Inflammatory-Based Prognostic Score, C-Reactive Protein/Albumin Ratio Predicts Complications in Community-Acquired Pneumonia/F. Sanz, E. Fernandez Fabrellas, E. Chiner, M.L. Briones, A. Cervera, C. Aguar, R. Lera, J. Blanquer, Valencia, Spain, p.A5499

P1281 Twenty-Year Trends in Mortality Among Hospitalized Patients with Pneumococcal Community-Acquired Pneumonia/C. Cilloniz, A. Liapikou, C. Garcia-Vidal, J. Mensa, F. Marco, A. Ceccato, A. Torres, Barcelona, Spain, p.A5500

P1282 Evidence to Support Unified Symptom Concepts for a Single Patient-Reported Outcome Instrument for Both Community-Acquired and Hospital-Acquired Bacterial Pneumonia/J. Powers, K. Howard, T. Saretsky, S. Clifford, M. Cho, H. Wang, S. Hoffmann, G. Talbot, Rockville, MD, p.A5501

P1283 Development of Human Serum Resistance in Carbapenemase-Producing Klebsiella Pneumoniae and Persistent Bacteremia/B. Ahn, W. Bain, T.F. Olonisakin, Y. Doi, J. Lee, Pittsburgh, PA, p.A5502

P1284 The Clinical Characteristics of Patients with Bacterial Pleural Infection Using a Clone Library Analysis of 16S Ribosomal RNA Gene/R. Hata, T. Kawanami, S. Noguchi, K. Fukuda, K. Naito, K. Akata, T. Kido, H. Mukae, M. Saito, K. Yatera, Kitakyusyu, Japan, p.A5503

P1285 High Serum IgA Levels Predict Mortality Risk in Patients with Community-Acquired Pneumonia/N. Fukuda, M. Watanabe, M. Tamura, M. Sada, K. Nakamoto, T. Inui, Y. Ogawa, T. Yokoyama, K. Honda, T. Saraya, D. Kurai, H. Ishii, H. Takizawa, Tokyo, Japan, p.A5504

P1286 Clinical Characteristics of Patients with Bronchial Lavage Positive for Community-Acquired Respiratory Virus/D. Nabeya, T. Kinjo, G. Parrott, N. Nishiyama, S. Nahar, K. Miyagi, M. Furugen, S. Haranaga, M. Tateyama, J. Fujita, Okinawa, Japan, p.A5505

Facilitator: E.M. Mortensen, MD, MSc, Farmington, CT

P1287 Changes in the Etiology and Susceptibility of Bacteria Isolated from BAL in Patients with Ventilator-Associated Pneumonia (VAP) During the Last 25 Years/M.M. Perin, C.M. Luna, Buenos Aires, Argentina, p.A5506

P1288 Epidemiology and Complications of Respiratory Viral Infections in Patients Who Have Undergone Hematopoietic Stem Cell Transplantation/D. Reynolds, H. Yadav, Rochester, MN, p.A5507

P1289 Comparison of Early-Onset and Late Onset VAP in Terms of Microbiological Pathogens and Prognosis/B. Uysaler, P. Korkmaz Ekren, Z.N. Toreyin, H. Pullukcu, S. Aydemir, A. Sayiner, F. Bacakoglu, Izmir, Turkey, p.A5508

P1290 The Extent of Lung Involvement Was Associated with the Results of Serum Cryptococcal Antigen in Non-HIV Adult Patients with Pulmonary Cryptococcosis/T. Zhu, C. Li, H. Deng, W. Zhang, D. Wang, Chongqing, China, p.A5509

P1291 Risk Factors for Disseminated Coccidioidomycosis/M. Singh, P. Mateen, K. Patel, S.M. Seraj, M. Saadat, French Camp, CA, p.A5510

P1292 A Retrospective Audit on Pneumonia Mortality Rates in Elderly Patients and the Decision of Whether to Escalate to High Dependency Unit at University Hospital Southampton/E. Teng, B. McKee, B.G. Marshall, Southampton, United Kingdom, p.A5511

P1293 Community-Acquired Thoracic Empyema - Does Microbiological Identification Matter?/D.T. Silva, D. Maia, C. Dantas, A.R. Costa, J. Santos Silva, J.E. Reis, R.D. Coelho, M. Emiliano, A. Mineiro, P. Calvino, J.A. Cardoso, Lisboa, Portugal, p.A5512

P1294 Single Versus Multiple Viral Infections in Egypt. Single Center Experience /Cairo University Hospitals (CUH) 2010-2014/U.E. Aboelhassan, A.M. Hatem, A. Elkholy, M. Abdelwaha, M. AlHarrass, Cairo, Egypt, p.A5513

P1295 A Prediction Model for Pneumonia Risk Incorporating Clinical and Proteomic Features/M.-M. Lee, Y. Zuo, J.P. Mizgerd, K.A. Steiling, A.J. Walkey, Boston, MA, p.A5514

P1296 Aspergillus spp. in Patients with Chronic Lung Disease in Colombia: Prevalence of Increased Serum IgE, Aspergillus Sensitization and Colonization Chronic Obstructive Lung Disease COPD/A. Canas, C. Alvarez-Moreno, P. Le Pape, B. Ariza, E. Robinson, J. Alvarado, A. Caballero, A. Montanez, Bogota, Colombia, p.A5515

Facilitator: K.A. Crothers, MD, Seattle, WA

P1297 Prevalence and Characterization of ESBL-Producing Klebsiella Pneumoniae from Pneumonia Patients in Southwest China/L. Liu, Y. Wu, W. Liu, T. Lanlan, X. Zhang, Guiyang, China, p.A5516

P1298 High Platelet Counts Predict Mortality Risk in Patients with Community-Acquired Pneumonia/K. Morita, M. Watanabe, M. Tamura, M. Sada, K. Nakamoto, K. Nakamoto, T. Inui, O. Yukari, T. Yokoyama, K. Honda, T. Saraya, D. Kurai, H. Ishii, H. Takizawa, Mitakashi, Japan, p.A5517

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- P1299 Septic Pulmonary Embolism: A Single Center Study/P.** J. Simpson, P. Neilan, M. Runnstrom, A. Ataya, Gainesville, FL, p.A5518
- P1300 Comparison of Clinical Methods, Chest X-Ray and Sputum Polymerase Chain Reaction Test with Sputum Microscopy for Diagnosis of Pneumocystis Jiroveci Pneumonia/S.** Subramaniam, M. Kalyanasundaram, A. Gowrishankar, C. Chokalingam, Chennai, India, p.A5519
- P1301 Description of the Clinical Characteristics of Patients with Confirmed Diagnosis of Influenza A(H1N1) Viral Pneumonia at the University Hospital Fundación Santa Fe de Bogotá/M.P.** Caicedo, J.A. Alvarado, A.M. Baldión, B. Pinzon, A.P. Aguirre, L.P. Prada, J.S. Arias, M.A. Castillo, Bogotá, Colombia, p.A5520
- P1302 The Association Between Hookah Smoking and Infectious Diseases: A Systematic Review/S.** Corral, S. Albear, M. Salim, P.D. Bozyk, S.M. Swanberg, Rochester, MI, p.A5521
- P1303 The Utility of Chest CT Imaging in Pneumonia: Over Utilization and Limited Value of CT Thorax Imaging in Pneumonia/M.** Shahzadi, V.P. Vasudevan, L.N. Gerolemou, F. Arjomand, A.Z. Rasheed, Z. Hashemi, M.K. Sarwar, Brooklyn, NY, p.A5522
- P1304 Evaluation of Ventilatory Associated Pneumonia Mortality in a Respiratory Intensive Care Unit/Z.N.** Toreyin, P. Korkmaz Ekren, B. Uysaler, S. Aydemir, H. Pullukcu, F. Bacakoglu, A. Sayiner, Izmir, Turkey, p.A5523
- P1305 Is Liver Cirrhosis A Risk Factor for Invasive Pulmonary Aspergillosis: An Open Question/R.** Velasquez, P. Srivastava, S. Alvarez, K.-I. Lee, A. Dhand, O. Epelbaum, Valhalla, NY, p.A5524
- Facilitator:** B.E. Jones, MD, MSc, Salt Lake City, UT
- P1306 Correlating Chest CT Radiological Reporting of Tree-In-Bud with Clinical Diagnosis/R.** Muthusami, A. Makan, N. Ahmad, K.S. Srinivasan, H. Moudgil, Telford, United Kingdom, p.A5525
- P1307 Which Scoring Is Better for Outcome Prediction in Emergency Department Patients with Pneumonia?/K.** Murakami, K. Tobino, K. Yoshimine, Iizuka, Japan, p.A5526
- P1308 Legionella Pneumonia: A Retrospective 4 Year Analysis of Clinical Outcomes at an Urban Community Hospital/M.R.** Malekzadegan, R.J. Durrance, T.M. Arab, K. Cervellione, F. Bagheri, Richmond Hills, NY, p.A5527
- P1309 Prognostic Factors in Patients with Chronic Pulmonary Aspergillosis/K.** Furuhashi, S. Sakurai, Y. Kamiya, H. Yasui, M. Karayama, Y. Suzuki, H. Hozumi, N. Enomoto, T. Fujisawa, Y. Nakamura, N. Inui, T. Suda, Hamamatsu, Japan, p.A5528
- P1310 The Role of Bronchoscopy in the Diagnosis of Pulmonary Hydatid Cyst/S.M.** Lari, S. Hejazi, M. Nooh, D. Attaran, M. Tohidi, R. Bassiri, A.M.H. Asnaashari, Mashhad, Iran, Islamic Republic of, p.A5529
- P1311 Clinical Features of Legionella Pneumonia in a Community Hospital/M.** Momose, H. Nagano, Y. Nei, S. Yamashiro, T. Kishaba, Uruma, Japan, p.A5530
- P1312 The Clinic Characteristics of 22 Older Aids with PCP Patients/Y.** Zhao, A. Zhou, H. Peng, P. Chen, Changsha, China, p.A5531
- P1313 Clinical Features of Acquired Immunodeficiency Syndrome in Respiratory Department/Y.** Zhou, L. Huiping, Shanghai, China, p.A5532
- P1314 Epidemiology of Pulmonary Aspergilloma in Pneumology Department/S.** Chhorn, V. Mich, C.S. Ang, Phnom Penh, Cambodia, p.A5533
- Facilitator:** C.M. Luna, MD, Buenos Aires, Argentina
- P1315 PCR Coupled to Electrospray Ionization Mass Spectrometry for Microbiological Diagnosis and Surveillance in Ventilator-Associated Pneumonia/D.** Hou, M. Ju, Y. Wang, Y. Song, Shanghai, China, p.A5534
- P1316 Evaluation of VAP Frequency and the Effect of Intranasal Mupirocin in the Development of VAP in a Respiratory Intensive Care Unit/P.** Korkmaz Ekren, Z.N. Toreyin, B. Uysaler, S. Aydemir, H. Pullukcu, A. Sayiner, F. Bacakoglu, Izmir, Turkey, p.A5535
- P1317 Preliminary Exploratory Analysis of Non- Influenza Respiratory Viral Infections (NIRVIs) Among Inpatients at a Tertiary Teaching Hospital in NewYork/D.** Sharma, A. Khalil, A. Avula, Staten Island, NY, p.A5536
- P1318 Duration of Intravenous Antibiotic Therapy and Length of Stay in Community-Acquired Pneumonia/A.** Elias, D. Gordon, Adelaide, Australia, p.A5537
- P1319 Pneumococcal Bacteremic Pneumonia in Patients with Human Immunodeficiency Virus (HIV)/M.** Fielli, C.D. Guzman, P. Idoyaga, J. Burgos Gomez, G. Yusti, A. Fernandez, A. Gonzalez, El Palomar, Argentina, p.A5538
- P1320 Increased Lung Iron Content in Pneumonia: Influence of Radiologic Pattern/A.** Brighton, A. Garrett, L.J. Wesselius, Scottsdale, AZ, p.A5539
- P1321 Next Generation Sequencing Profile of Fungal and Bacterial Microbiota of Patients with Hematologic Malignancy and Undiagnosed Pulmonary Infiltrate/J.** Skalski, N. Azadeh, D.M. Hebrink, E.C. Fernholz, J. Tang, M.J. Binnicker, D.M. Underhill, A.H. Limper, Rochester, MN, p.A7769
- P1322 Rapid Diagnostic Testing of Bronchoalveolar Lavage to Detect Non-Fermenting Gram-Negative Bacteria and Antibiotic Resistance Genes/C.** Pickens, C. Qi, H. Donnelly, M. Breganio, R.G. Wunderink, Chicago, IL, p.A7770
- P1323 Metabolic Profiles in Community-Acquired Pneumonia: Developing Assessment Tools for Disease Severity/P.** Ning, Z. Gao, Beijing, China, p.A7771

THEMATIC POSTER SESSION

C62 TUBERCULOSIS: BENCH TO BEDSIDE

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area F (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion

12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: K.P. Fennelly, MD, MPH, Bethesda, MD
M.M. Pretti Dalcolmo, MD, PhD, Rio de Janeiro, Brazil

- P566 Genetic Determinants and Compensatory Mutations Associated with Transmission of Multi-Drug Resistant Mycobacterium Tuberculosis in Vietnam/H.Q. Nguyen, N.V. Nguyen, H.V. Nguyen, V.-A.T. Nguyen, A.-L. Bañuls, Hanoi, Viet Nam, p.A5540**
- P567 Repetitive Aerosol Exposure Promotes Lung Pathology and Cavitation in Tuberculosis and Enables Screening for Targeted Inhibitors of Extensive Lung Destruction/W.R. Bishai, M. Urbanowski, E. Ihms, K. Bigelow, A. Kubler, P.T. Elkington, Baltimore, MD, p.A5541**
- P568 Peripheral Blood Circular RNAs as Novel Diagnostic Biomarker in Active Pulmonary Tuberculosis/T. Zhou, W. Gu, Z. Qian, Reno, NV, p.A5542**
- P569 Use of an Electronic Nose as a Novel Screening Method for the Diagnosis of Tuberculous Pleural Effusion/F. Poli, L. Quesada, S. Poli, D. Garcia, G. Ippoliti, E. Salas, J. Villalba, J.H. de Waard, Caracas, Venezuela, p.A5543**
- P570 The Reliability of Rifampicin Resistance Identified on Xpert® MTB/RIF as a Proxy for Multidrug-Resistant Tuberculosis (MDR-TB) in a Reference Center for MDR-TB in Rio de Janeiro, Brazil/A.P. Santos, J. Leung, T. Malaquias, M.A.M.D.S. Vieira, A. Kritski, F.C.Q. Mello, Rio de Janeiro, Brazil, p.A5544**
- P571 The Benefit of Mycobacterial Examination with Stool Specimens to Diagnose Tuberculosis for Adult Patients/A. Konno, O. Narumoto, M. Kawashima, A. Yamane, H. Nagai, H. Matsui, K. Ohta, Kiyose, Japan, p.A5545**
- P572 Antibody and Host Inflammatory Biomarker Combinations as Diagnostic Tools for TB Disease/D.O. Awoniyi, R. Jacobs, G. Walzl, N.N. Chegou, Cape Town, South Africa, p.A5546**
- P573 Clinical Evaluation of T-SPOT, QFT-Gold & QFT-Plus in the Detection of Active Pulmonary Tuberculosis/K. Fukushima, Y. Kaneko, N. Ehara, R. Nakano, T. Matsutake, T. Kubo, N. Sakamoto, Y. Obase, H. Mukae, Isahaya, Japan, p.A5547**
- P574 Lymphocyte Subset Affects the Latent Tuberculosis Infection Diagnosis by QuantiFERON TB Gold Plus in Renal Transplantation/H. Igari, S. Ishikawa, M. Tsuyuzaki, K. Suzuki, N. Akutsu, K. Saigo, Chiba, Japan, p.A5548**

Facilitator: H. Kornfeld, MD, Worcester, MA

- P575 One-Year Experience with QuantiFERON-TB Gold Plus in Patients with Immunosuppressive Conditions/A. Fernandez-Blazquez, P. Argüelles, C. Sabater, J.M. Garcia-Garcia, V. Asensi, M. Oblanca, I. Florez, M.A. Vicuña, J.J. Palacios, Oviedo, Spain, p.A5549**
- P576 Comparing the Yield of Frontloading Microscopy Examination with Conventional Sputum Microscopy Examination for the Diagnosis of Tuberculosis in Tanzania/G.D. Kimaro, B.B. Kilowoko, O.C. Millanzi, S.R. Temu, E.S. Ngadaya, E.H. Sandi, R. Shemtandulo, S.G. Mfinanga, Dar Es Salaam, Tanzania, United Republic of, p.A5550**

- P577 Increase Diagnostic Yield of Tuberculous Serositis by Using Serous Fluid Drainage Flocky Precipitate (SFDFP) as a Testing Sample/X. Liu, L. Xia, Y. Song, S. Li, S. Lu, Y. Zhang, Y. Liu, Shanghai, China, p.A5551**
- P578 Biomarkers Dosage in the Supernatant of a T-Cell Interferon-γ Release Assay Improving the Diagnosis of Tuberculous Pleural Effusion/A.P. Santos, R. Corrêa, A.C. Soares, M. Ribeiro-Alves, T.T. Mafort, J. Leung, R. Rufino, L. Rodrigues, Rio de Janeiro, Brazil, p.A5552**
- P579 Prognostic Score to Predict Mortality During TB Treatment in TB/HIV Co-Infected Patients/D.T.M. Nguyen, H.E. Jenkins, E.A. Graviss, Houston, TX, p.A5553**
- P580 Acute Hyperbilirubinemia and Hepatotoxicity in ICU Patients Receiving Rifampin/C. Foppiano, K. Shah, N. Nguyen, J. Bailey, J. Gonzales, D. Patel, Baltimore, MD, p.A5554**
- P581 Major Adverse Cardiovascular Events and Hyperuricemia During Treatment of Tuberculosis/H.-J. Shin, J. Chang, T. Kim, Y.-I. Kim, Y.-S. Kwon, Gwangju, Korea, Republic of, p.A5555**
- P582 An Observational Study to Correlate Glycemic Control with Radiographic and Microbiologic Manifestation of Pulmonary Tuberculosis in Type 2 Diabetes Patients/T. Mahmood, Allahabad, India, p.A5556**
- P583 Predictive Score of Pulmonary Tuberculosis in Both Smear Negative and Culture Negative Bronchial Samples/C. Fraisse, G. Devouassoux, L. Kiakouama, F. Ader, J. Gaij, Lyon, France, p.A5557**

Facilitator: R.D. Turner, MBChB, PhD, London, United Kingdom

- P584 Evaluation of Novel Screens for Pulmonary TB in People Living with HIV in Kenya/J. Gersh, D. Matemo, J. Kinuthia, Z. Feldman, J. Dawson, S. LaCourse, A. Warr, C. Farquhar, R. Barnabas, D.J. Horne, Seattle, WA, p.A5558**
- P585 Clinical Impacts of Hepatotoxicity of Anti-Tuberculosis Therapy/J.-K. Lee, J.H. Song, J.L. Lee, J.-H. Park, E.Y. Heo, D.K. Kim, H.S. Chung, Seoul, Korea, Republic of, p.A5559**
- P586 Adverse Events During Drug Resistant Tuberculosis Treatment: The Experience of a University Hospital in Rio de Janeiro, Brazil/A.P. Santos, J. Leung, M.A.M.D.S. Vieira, F.C.Q. Mello, Rio de Janeiro, Brazil, p.A5560**
- P587 Prognostic Factors and Outcomes of Critically Ill Patients with Active Tuberculosis in Singapore/J. Goh, Y.H. Tan, C. Siau, J. Raghuram, G. Roshni Sadashiv, Singapore, Singapore, p.A5561**
- P588 Use of Immunosuppressants in Patients with Autoimmune Diseases and Latent Tuberculosis/M. Pombo, D. Burgos, E.S. Membriani, L. Limongi, A.M. Putruele, Buenos Aires, Argentina, p.A5562**
- P589 Benefit of Medical Thoracoscopy for the Diagnosis of Tuberculous Pleuritis/M. Shimada, M. Ohgiya, J. Suzuki, K. Masuda, H. Matsui, K. Ohta, Tokyo, Japan, p.A5563**
- P590 A Diagnostic Prediction Model for Distinguishing Pulmonary Tuberculosis from the Positive Sputum Acid-Fast Bacteria Smear Test Patients/H. Kanemura, A. Kitamura, R. Imai, K. Ishii, R. Tsugitomi, K. Okafuji, Y. Tomishima, T. Jinta, N. Nishimura, D. Kobayashi, T. Tamura, Tokyo, Japan, p.A5564**

P591 Adherence of Residents in Training of the University of Perpetual Help DALTA Medical Center to the 2009 International Standards for Tuberculosis Care and Their Correlation with Treatment Outcome/R.-J.R. Guarin, R.M. Salonga, J.E.V. Tamayo, I. Manuel, J. Benedicto, Las Pinas City, Philippines, p.A5565

P592 Prevalence of and Factors Associated with Altered Spirometry at 6 Months After Treatment with Pulmonary Tuberculosis: Results of a Single Center in Buenos Aires./I.V. Palma, D. Martinez, R. Estevan, L. Alves, J. Viña, M. Natiello, M.I. Medin, S. Inwentarz, A.J. Videla, D.J. Palmero, Buenos Aires, Argentina, p.A5566

THEMATIC POSTER SESSION

C63 PEDIATRIC FAMILY AND TRAINEE EDUCATION

9:15 a.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER

Area J (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: G.N. Bendiak, MD, MSc, Calgary, Canada

P1009 Process Changes to Facilitate More Meaningful Feedback in a Pediatric Pulmonary Fellowship Program/E.K. Khan, R.T. Mohon, Aurora, CO, p.A5567

P1010 Fellowship Research Timeline for Training of Future Physician Scientists/R.T. Mohon, E.C. Mitchell, Aurora, CO, p.A5568

P1011 Publication Productivity Over 20-Year of Pediatric Pulmonology Fellowship Training from Thailand: Lesson from a Developing Country/W. Lilitwat, P. Somboon, Iowa City, IA, p.A5569

P1012 A Quality Improvement Project to Improve Attendance and Outcomes in a Pediatric Pulmonary Clinic/R.C. Cohn, L. Langdon, C. Driscoll, K. McClaskie, Dayton, OH, p.A5570

P1013 Intervening to Improve Family and Child Asthma Self-Management/S.D. Horner, Austin, TX, p.A5571

P1014 Family-Provider Collaboration, Asthma Knowledge, and Adherence: Sociodemographic Differences in Latino, Black, and Non-Latino White Families/A. Tackett, M. Farrow, S.J. Kopel, E.L. McQuaid, Providence, RI, p.A5572

P1015 A Feasibility Study of a Theory-Based Self-Management Intervention to Improve Adolescents' Asthma Control/K. Harris, G. Mosler, J. Grigg, London, United Kingdom, p.A5573

THEMATIC POSTER SESSION

C64 PEDIATRIC CASE REPORTS: AIRWAY DISEASES AND BRONCHOSCOPY

9:15 a.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER

Area J (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: E. Hysinger, MD, Cincinnati, OH

P1017 Idiopathic Acute Eosinophilic Pneumonia Associated with Mucous Plugs in a Previously Healthy Toddler/N.M. Pajor, J. Brewington, N. Mokhallati, Cincinnati, OH, p.A5574

P1018 Omalizumab: A Previously Unreported Side Effect of Therapy/L. Farhat, D. Rastogi, L. Bernstein, A. Bidiwala, Bronx, NY, p.A5575

P1019 Treatment of Childhood Hypereosinophilic Syndrome with Mepolizumab/S. Rose, B. Wistinghausen, C. Spencer, A. Vicencio, New York, NY, p.A5576

P1020 Combination Omalizumab and Mepolizumab in an Adolescent with Severe Persistent Allergic Asthma/H. Phan, P.P. Tongchinsub, M.O. Daines, Tucson, AZ, p.A5577

P1021 Of Plugs and Casts: Incidental Finding of Plastic Bronchitis Complicating "Mild" Asthma Vs. Allergic Bronchopulmonary Aspergillosis (ABPA)?/M.M.M. Gregoire-Bottex, R. Archemetre, M. Kadochi, J. Lamar, M. Leinwand, Kalamazoo, MI, p.A5578

P1022 Miliary Pulmonary Disease: Is this Always TB?/A. Heras Barros, S.M. Pillai, New York, NY, p.A5579

P1023 A Novel Case of an Expanding Foreign Body After Ingestion of Wheat Based Cat Litter/C. Douglas, B.H. Hughes, Aurora, CO, p.A5580

P1024 A Cough that Is More than Asthma: A Rare Case of Bronchiectasis/Z. Ghazala, P.B. Sharma, Dallas, TX, p.A5581

P1025 Airway Anomalies in Hennekam Syndrome/S. Agrawal, M.C. Liszewski, J. Bent, A.A. Bidiwala, Bronx, NY, p.A5582

Facilitator: S. Palacios, MD, Columbus, OH

P1026 When Wheezing Isn't Asthma: A Case of Mucoepidermoid Carcinoma of the Trachea/A.J. Das, H. Hamdan, F. Afolabi, M. Caraballo, S.-Y. Feng, B. Bansal, Dallas, TX, p.A5583

P1027 Chronic Cavitory Pulmonary Aspergillosis with Aspergilloma in a Previously Healthy Teenager/M.D. McDowell, W.L. Estrellado-Cruz, Kansas City, MO, p.A5584

P1028 Right Postpneumectomy Syndrome in a Pre-Scholar Managed with Tissue Expander: Case Report/C.L. Grizales, L. Fernandez, D. Duarte, D.L. Silva-Espinosa, M. Velasquez, L.F. Sua Villegas, C.S. Leib, Cali, Colombia, p.A5585

P1029 Not All that Wheezes Is Asthma - and Not All Are Foreign Bodies Either!/W.S. Stoudemire, M.S. Muhlebach, Chapel Hill, NC, p.A5586

P1030 Idiopathic Giant Bullous Emphysema in a Female Teenager/S.G. Bickel, K. Eastep, M. Eid, V. van Berkel, N.S. Eid, R.L. Morton, Louisville, KY, p.A5587

P1031 Old Disease-New Perspectives: Plastic Bronchitis/R. Har-Even Cohn, Y. Dori, I. Amirav, Edmonton, Canada, p.A5588

P1032 Endobronchial Occlusion with One-Way Endobronchial Valve in the Treatment of a 13 Year Old Critically Ill Young Man with Bronchopleural Fistula on Mechanical Ventilation/A. Chadha, A. Wilson, M. Zgoda, Charlotte, NC, p.A5589

P1033 The Great Masquerade of Burkitt/A.L. Birdwell, P. Ong, O. Bode-Omoleye, A. Malave, San Antonio, TX, p.A5590

P1034 Isolated Unilateral Bronchomalacia in a Young Child with Recurrent Respiratory Illnesses/S. Das, K.F. Fakhoury, D. Mehta, Houston, TX, p.A5591

Facilitator: S.L. Peterson-Carmichael, MD, Indianapolis, IN

P1035 New Onset Hyperammonemic Encephalopathy in a Cystic Fibrosis (CF) Patient with CF- Related Liver Disease Associated with GI Obstruction/P.C. Cheng, R.C. Rubenstein, Philadelphia, PA, p.A5592

P1036 Gotta Catch 'Em All: Delayed Diagnosis of Cystic Fibrosis (CF) in an Infant with a Novel CF Transmembrane Conductance Regulator (CFTR) Mutation/N. Hong, S.D. Sagel, E.T. Zemanick, Y. Shi, J. Hoppe, Aurora, CO, p.A5593

P1037 Fatal Outcome in a Patient with Cystic Fibrosis and Candida Blankii Infection: A Case Report/C.L. Grizales, D. Duarte, J. Escobar, P. Perez, J.A. Patiño, L. Fernandez, C.S. Leib, Cali, Colombia, p.A5594

P1038 New Sweat Chloride Ranges and Diagnosis of CFTR-Related Metabolic Syndrome with (TG)11-5T Homozygosity/M.H. Abul, L.P. Hayden, Boston, MA, p.A5595

P1039 Pediatric Endobronchial Tumor Leading to Recurrent Pneumonia/L. Greenawald, A.R. Shenoy, Wilmington, DE, p.A5596

P1040 Unusual Presentation of Intra-Thoracic Alveolar Rhabdomyosarcoma in a Child/A. Benincore, G. Gutierrez-Morales, F.J. Cuevas-Schacht, C. Ridaura-Sanz, D. Hernández-Arrazola, S. Solórzano-Morales, Mexico City, Mexico, p.A5597

P1041 Interesting Presentation of a Rare Endobronchial Lesion/K. Conway, A. Baig, S. Gupta, Syracuse, NY, p.A5598

P1042 Recurrent Pneumonia-When to Think Outside the Box/P.C. Cheng, J.C. Piccione, Philadelphia, PA, p.A5599

P1043 11 Month Old Infant with a Mediastinal Mass with Endobronchial Extension Presenting as Persistent Wheeze/D.A. Krich, S. Krishnan, K.N. Harris, N. Arlievsky, A.J. Dozor, Valhalla, NY, p.A5600

P1044 Diagnostic Evaluation of Acute Pulmonary Histoplasmosis in Immunocompetent Child and the Role of EBUS-TBNA/L.K. Ventola, J. Cardenas-Garcia, L. Xu, S. Barrett, Hershey, PA, p.A5601

THEMATIC POSTER SESSION

C65 PEDIATRIC CASE REPORTS: NEONATAL LUNG DISEASE

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area J (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: A.I. Cristea, MD, Indianapolis, IN

P1046 A Novel Pathogenic Variant in FOXF1 Gene in an Infant with Severe Pulmonary Hypertension/R.H. Tillman, M.G. Parra, M.C. Gazzaneo, Houston, TX, p.A5602

P1047 Chylous Effusion in an Infant: Presenting Symptom of Lymphangiomatosis/K. Ameel, T.L. Turner, Indianapolis, IN, p.A5603

P1048 A Congenital Cystic Lung Lesion with an Unusual Etiology/C. Kuklinski, J.S. Kemp, St. Louis, MO, p.A5604

P1049 A Rare Cause of Neonatal Respiratory Failure and Diffuse Pulmonary Infiltrates - Congenital Syphilis of the Lung Rises Again?/H. Hong, R. Kretzmer, M. Bansal, Los Angeles, CA, p.A5605

P1050 Long Segment Tracheal Stenosis Responds to Nasopharyngeal Percussive Flow Ventilation/E.D. Muise, E.K. Fiorino, S. Mootoo, H. Heiman, Manhasset, NY, p.A5606

P1051 Tension Faecopneumothorax: A Rare Complication of Ruptured Morgagni Diaphragmatic Hernia: Case Report and Review of Literature/T. E.D. Abdelgalil, S. Yahia, A.E. Shabaan, M. Sabry, Mansoura, Egypt, p.A5607

P1052 Recurrent Life Threatening Pneumothorax Associated with Diffuse Subpleural Cystic Lung Disease in a Trisomy 21 Infant with Congenital Heart Disease: A Unique Case Report!/W. Lilitwat, H. Kothari, M. Luangrath, V. Allareddy, Iowa City, IA, p.A5608

P1053 A Curious Bronchoscopic Finding in a Patient with Tracheal Submucosal Lymphovenous Malformation/M.H. Bourne, K. Balakrishnan, R. Kern, Rochester, MN, p.A5609

P1054 Bilateral and Multilobar Congenital Pulmonary Airway Malformation Type 2: A Rare Case/C. Gorme, Quezon City, Philippines, p.A5610

P1055 Computed Tomography Images and Electron Microscopy: Clues for an ABCA-3 Deficiency Case Report in Colombia/L.P. Montaña, D.M. Ramírez, S.M. Restrepo, O.P. Panqueva, Bogota, Colombia, p.A5611

Facilitator: L. Rhein, MD, Boston, MA

P1056 Foregut Duplication Cyst: A Rare Cause of Cyanosis and Respiratory Distress in Neonate/F.J.L. Dago-oc, Quezon City, Philippines, p.A5612

P1057 Left Pulmonary Agenesis: A Case Report/C.L. Grizales, L. Fernandez, D. Duarte, D.L. Silva-Espinosa, C.S. Leib, Cali, Colombia, p.A5613

P1058 A Rare Intralobar Pulmonary Sequestration of the Right Upper Lobe in an Infant: Case Report/C.L. Grizales, M.L. Perez, L. Fernandez, C.S. Leib, Cali, Colombia, p.A5614

P1059 Charlotte's Web (of Bowels in the Chest)/M. Lyons, K. Krivchenia, R. Shell, Columbus, OH, p.A5615

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- P1060 Cystic Adenomatoid Malformation and Hirschsprung Disease. A Rare Association. Case Report/S.M. Restrepo, M. Villamil, L. Salazar, C. Barrios, J. Valero, Bogota, Colombia, p.A5616**
- P1061 Pulmonary Sequestration in a 10 Year-Old: Case Report/C.L. Grizales, L. Fernandez, D.L. Silva-Espinosa, D. Duarte, L.F. Sua Villegas, M. Velasquez, M. Velasquez, C.S. Leib, Cali, Colombia, p.A5617**
- P1062 An Incidentally Discovered Congenital Pulmonary Airway Malformation/M. Koroscil, J.A. Hayes, Houston, TX, p.A5618**
- P1063 Bronchial Atresia Associated with a Bronchogenic Cyst/J. Sethi, E. Lorenz, U. Bardhan Chakraborty, Chattanooga, TN, p.A5619**
- P1064 Congenital Pulmonary Airway Malformation in a Female Infant - Management Challenges in a Developing Country/C.I. Ndukwu, J.C. Elo-Ilo, N.O. Ugwu, O.C. Ofiaeli, Awka, Nigeria, p.A5620**

THEMATIC POSTER SESSION

C66 PEDIATRIC CASE REPORTS: CARDIOVASCULAR AND CRITICAL CARE DISEASE

9:15 a.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER

Area J (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: J. Rettig, MD, Boston, MA

- P1066 Hypoxemia and Persistent Left Superior Vena Cava in a Child with Recurrent Bronchiolitis/R. Thomas, M.E. Hurwitz, S.T. Mauer, D.P. Gibson, D.N. Homnick, East Lansing, MI, p.A5621**
- P1067 Right Ventricle to Pulmonary Artery (RV-PA) Conduit Change with Nuss Operation for Relieving the Compression of the Extracardiac Conduit and the Coronary Arteries/S. Kim, P.J. Choi, Busan, Korea, Republic of, p.A5622**
- P1068 Do Not Miss the Nuances: Failure to Thrive and Wheezing. A Case of Scimitar Syndrome/C. Arevalo-Marciano, J.I. Snijder, S. Arevalo, Philadelphia, PA, p.A5623**
- P1069 When a Diagnosis Doesn't Stick: Pulmonary Embolism Disguised as High Altitude Pulmonary Edema in an Adolescent Male/E.K. Khan, A. Krack, P. Houin, Aurora, CO, p.A5624**
- P1070 Combination Therapy for Severe Portopulmonary Hypertension in a Child Allows for Successful Liver Transplantation/R. Serrano, G.S. Montgomery, M. Johansen, Indianapolis, IN, p.A5625**
- P1071 Multiple Mitochondrial Dysfunctions Syndrome Type 1: A Rare Cause of Pulmonary Hypertension in Infancy/N. Villafranco, A. Birjiniuk, N.P. Varghese, Houston, TX, p.A5626**
- P1072 BMPR2 Mutation in a 3-Year-Old Female with Severe Pulmonary Hypertension/M. Lu, B. Bartley, K.S. Gipson, M.H. Crawley, B.A. Nelson, M. Lahoud-Rahme, O.J. Benavidez, M.P. Mullen, T.B. Kinane, Boston, MA, p.A5627**

- P1073 Unilateral Pulmonary Artery Atresia in a Heterozygous Carrier for Alport Syndrome/D. Pratt, R. Shell, S. Bose-Brill, Columbus, OH, p.A5628**

Facilitator: P.P. Moschovis, MPH, MD, Boston, MA

- P1074 Neonatal Severe Refractory Persistent Pulmonary Hypertension of the Newborn (PPHN), Rare and Perplexing Diagnosis/A. Al-Turki, K. Krivchenia, S.J. Pinto, Columbus, OH, p.A5629**
- P1075 Non Invasive Resolution of a Complete Left Lung Atelectasis in a Child Affected by Spinal Muscular Atrophy Type 1/C. Conti, E. Falcier, E. Roma, B. Garabelli, M. Iatomasi, E. De Mattia, S. Conforti, K. Gorni, F. Rao, V.A. Sansone, Milano, Italy, p.A5630**
- P1076 Central Apnea Unmasked Following Tonsillectomy and Adenoidectomy. A Case of Central Sleep Apnea Secondary to Remote Trauma Leading to Cervical Cord Compression Treated with Cervical Spinal Fusion and AVAPS./A. Mittal, C. Smith, H. Clawges, R.C. Stansbury, Morgantown, WV, p.A5631**
- P1077 An Infectious Cause of Central Sleep Apnea/A.R. Strang, U.A. Katwa, Boston, MA, p.A5632**
- P1078 Dilemma: Severe Periodic Breathing with Hypoxemia Requiring Non-Invasive Ventilation in a Pediatric Patient on Continuous Intrathecal Baclofen Pump Therapy/E.K. Khan, R.T. Mohon, Aurora, CO, p.A5633**
- P1079 Treating Sleep Disordered Breathing Resolves Failure to Thrive in Child with Congenital Myasthenia/M. Hawkins, C.A. Canapari, New Haven, CT, p.A5634**
- P1080 A 14 Year Old Female Adolescent with Recurrent Pneumothoraces/A. Kramer, M.V.C. Bautista, Washington, DC, p.A5635**
- P1081 Lung Retransplantation After Prolonged Venovenous Extracorporeal Membrane Oxygenation in a Child with Chronic Lung Allograft Dysfunction/A. Herrera Camino, S.C. Sweet, N. O'Connor, M. Shepard, R. Pendino, A. Gazit, P. Eghtesady, J.C. Lin, St. Louis, MO, p.A5636**

THEMATIC POSTER SESSION

C67 PEDIATRIC CASE REPORTS: INTERSTITIAL LUNG DISEASE

9:15 a.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER

Area J (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: E.K. Fiorino, MD, New Hyde Park, NY

- P1083 Combined Heterozygous TBX4 Loss and Single ABCA3 Mutation in the Pathogenesis of Childhood Interstitial Lung Disease/N.M. Pajor, R. Lombardo, E. Hysinger, K.A. Wikenheiser-Brokamp, C. Towe, Cincinnati, OH, p.A5637**

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- P1084 Diffuse Large Pulmonary Nodules in a Young Child: Is It Always Metastatic?**/E.B. Burgener, C.E. Milla, Stanford, CA, p.A5638
- P1085 The Moldy Birds: An Adolescent with Progressive Dyspnea**/J.S. Van Mason, A.J. Van Mason, J.B. Taylor, W.L. Estrellado-Cruz, Kansas City, MO, p.A5639
- P1086 A Novel Mutation in the SFPTC Gene in a Newborn with Persistent Tachypnea**/S. Agrawal, A. De, A. Hamvas, R. Arens, Bronx, NY, p.A5640
- P1087 At the Opposite End of the Spectrum: Filamin A-Associated Interstitial Lung Disease**/M. Lu, B.A. Nelson, T.B. Kinane, Boston, MA, p.A5641
- P1088 Heterozygous Surfactant Protein B Disease Leading to Respiratory Failure**/D.R. Spielberg, G.B. Mallory, E. Melicoff-Portillo, D.A. Scott, M.C. Gazzaneo, M.C. Silva, S. Das, L.M. Nogee, Houston, TX, p.A5642
- P1089 Pulmonary Alveolar Microlithiasis: A Case of an Early Presentation**/A. Madanieh, I. Acosta-Sanchez, C. Orabi, H. Bhatti, Orlando, FL, p.A5643
- P1090 Diffuse Alveolar Hemorrhage Following Generalized Tonic Clonic Seizure in a 14 Year-Old Boy**/W. Lilitwat, K. Robb, M. Grundstad, H. kothari, S. Haskell, M. Coro, C.W. Randak, Iowa City, IA, p.A5644
- P1091 Giant Cystic Lesions with a Rare Pulmonary Diagnosis**/R. Siew, E.R.Y. Cheng, San Diego, CA, p.A5645
- Facilitator:** C. Towe, MD, Cincinnati, OH
- P1092 Recurrent Pneumothoraces in Infant**/L.A. Lautenbacher, M. Kattan, B.J. Sheares, New York, NY, p.A5646
- P1093 The Little Farmer's Lung: Hypersensitivity Pneumonitis Due to Multiple Fungal Triggers in a 6-Year-Old**/B.M. Seay, T. Bui, D.R. Ezmigna, M. Abu-hasan, Gainesville, FL, p.A5647
- P1094 Diagnosis and Treatment of Cryptogenic Organizing Pneumonia in a Child on Extracorporeal Membrane Oxygenation Support**/E. Sayad, A.M. Vogel, R.P. Guillerman, C. Chartan, R. Coleman, K. Patel, M.A. Musick, M.D. Silva Carmona, Houston, TX, p.A5648
- P1095 Bird Fancier's Lung in an Adolescent Female**/D. Cerrone, Los Angeles, CA, p.A5649
- P1096 Acute Respiratory Failure and Pulmonary Hemorrhage in the Newborn Period: An Unusual Presentation of Pulmonary Interstitial Glycogenosis**/A.F. Heras Barros, S. Worgall, A.C. Borczuk, A.E. Stone, New York, NY, p.A5650
- P1097 ABCA3 Mutation Associated with Interstitial Lung Disease in a Newborn: Case Report**/C.L. Grizales, N.L. Llanos, L. Torres, I. Padilla, H. Pachajoa, Cali, Colombia, p.A5651
- P1098 Desquamative Interstitial Pneumonia in a Child: A Case Report**/A. Parra, Medellin, Colombia, p.A5652
- P1099 Un-Even Steven: An Unusual Complication of Stevens-Johnson Syndrome**/E. Hamberger, M. Tracy, Palo Alto, CA, p.A5653
- P1100 An Unusual "Cavitary Lesion" in an Adolescent Smoker**/R. Kretzmer, H. Hong, T.G. Keens, Los Angeles, CA, p.A5654

Facilitator: T.A. Laguna, MD, Minneapolis, MN

- P1101 Prolidase Deficiency and ANCA-Associated Vasculitis in a 16-Month Old Boy**/J. Rayment, S. Bowdin, E. Cutz, S.D. Dell, Toronto, Canada, p.A5655
- P1102 ANCA-Negative Eosinophilic Granulomatosis with Polyangitis Presenting as Hemoptysis in a Pediatric Patient**/E.K. Khan, K. Dannull, C. Galambos, D. Liptzin, Aurora, CO, p.A5656
- P1103 All that Wheezes Is Not Asthma: An Atypical Presentation of Granulomatosis with Polyangiitis in an 8-Year-Old Female**/M.R. Smiley, K.E. Madison, San Diego, CA, p.A5657
- P1104 Tracheostomy Bleeding Unfolding into an Unusual Etiology**/S. Agrawal, D. Wahezi, K. Graw-Panzer, N. Vasquez-Canizares, A.A. Bidiwala, Bronx, NY, p.A5658
- P1105 Double-Positive Goodpasture's Syndrome in a Child: Use of Rituximab**/M.E. Dumas, J.S. Tremblay Roy, A. Bruns, C. Girardin, Sherbrooke, Canada, p.A5659
- P1106 Goodpasture Syndrome in a 15 Month Old Presenting with Anemia and Pulmonary Infiltrates**/S. Al Qatarneh, M.E. Dovey, Pittsburgh, PA, p.A5660
- P1107 Dyspnea in Patient with Collagen Disease, ¿Infection?, ¿Interstitial Lung Disease?, ¿Why Not Shrinking Lung Syndrome?**/M. Villamil, S.M. Restrepo, A. Díaz, C. Rodriguez Martinez, Bogota, Colombia, p.A5661
- P1108 Fatal Case of Granulomatosis with Polyangiitis in Adolescent**/S.M. Restrepo, M. Villamil, D. Orozco, F. Polo, Bogota, Colombia, p.A5662
- P1109 A Novel Presentation of Pulmonary Hemorrhage in Infancy**/C. Sendon, A. Esquibies, New Haven, CT, p.A5663

THEMATIC POSTER SESSION

C68 PEDIATRIC CASE REPORTS: IMMUNODEFICIENCY AND INFECTION

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area J (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: J.B. Taylor, MD, MSCR, Kansas City, MO

- P1111 Hyperbaric Oxygen Therapy (HBOT) of an Adolescent Stem Cell Transplantation (SCT) Recipient with Hemorrhagic Cystitis, and BK Virus: A Rare Case Study in the United States**/D. Lopez, L. Tan, A. Alismail, Loma Linda, CA, p.A5664
- P1112 Disseminated Histoplasmosis and Associated Allergic Bronchopulmonary Aspergillosis in a Patient with Hyper-IgE Immunodeficiency**/A.M. Arenas-Rojas, D.T. Gómez-Alzate, S.Y. Moreno-Lozano, P.E. Sarmiento-Wilches, Bucaramanga, Colombia, p.A5665

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- P1113 Pulmonary Alveolar Proteinosis and Pulmonary Kaposi Sarcoma in a Young Adult with HIV/C.** Arevalo-Marciano, S.L. Watts, R.E. Crowe, G. Vazquez-Garcia, J. Piccione, Philadelphia, PA, p.A5666
- P1114 Necrotizing Pneumonia in a Patient with Newly Diagnosed Chronic Granulomatous Disease/D.** Cerrone, R.M. Kato, Los Angeles, CA, p.A5667
- P1115 A Lump in His Throat: Refractory Recurrent Respiratory Papillomatosis with Pulmonary Parenchymal Involvement Improved with Systemic Bevacizumab/M.G.Y.** Sobremonete-King, J. Prager, T. Garrington, S. Dominguez, E.M. DeBoer, P.C. Stillwell, Aurora, CO, p.A5668
- P1116 An Unusual Cause of Persistent Pneumonia with Fistulous Airway Connection: Mediastinal Teratoma in a Child/N.** Khattab, A. Asseri, S. Desoky, W. Morgan, Tucson, AZ, p.A5669
- P1117 Not Your Typical Strep: An Unusual Case of Pediatric Pulmonary Nodules and Hemoptysis/A.** Messinger, J. Hazleton, C. Smith, J. Weinman, S. Hawkins, C. Galambos, H. Hoch, Aurora, CO, p.A5670
- P1118 A Most Unusual Cause of Chest Pain in an Adolescent Boy: Expect the Unexpected/P.** Gummalla, E.R. Concepcion, V. Shah, D.E. Weaver, Brooklyn, NY, p.A5671
- Facilitator:** R.E. Myers, MD, Cleveland, OH
- P1119 Endobronchial Histoplasmosis in a Pediatric Patient/Y.** Yu, C.R. Esther, Chapel Hill, NC, p.A5672
- P1120 A Cryptococcus Gattii Pulmonary Abscess in an Immunocompetent Patient/T.** Bui, B.M. Seay, M.J. Light, M. Abu-hasan, D.R. Ezmigna, Gainesville, FL, p.A5673
- P1121 Cat-Scratch Disease Presenting as a Right Hilar Mass in a Child/M.** Pertzborn, M. Abu-hasan, Gainesville, FL, p.A5674
- P1122 Stick Your Neck Out for Lemierre's Syndrome/C.** Browning, S. Meledathu, Newark, NJ, p.A5675
- P1123 Empyema Necessitatis the Spectrum of Presentation from an Immunocompetent Patient to an Immunocompromised Patient/A.** Parra, Bogota, Colombia, p.A5676
- P1124 Influenza B Causing Severe ARDS/M.P.** Clark-Coller, S. Alqalyoobi, M. Schivo, M. Omer, Sacramento, CA, p.A5677
- P1125 A Rare Case of Anterior Mediastinal and Lateral Neck Mass: Tuberculosis with Hodgkin's Lymphoma/M.A.D.L.T.** Enteria, M.N. De Leon, Quezon, Philippines, p.A5678
- P1126 The Prevalence of Influenza Infections Associated with Sepsis Like Illness in Hospitalized Children/R.** Samransamruajkit, W. Wattanawanna, S. Sritippayawan, J. Deerojanawong, Bangkok, Thailand, p.A5679

THEMATIC POSTER SESSION

C69 USE YOUR ILLUSION: NOVEL THERAPEUTIC APPROACHES IN PULMONARY HYPERTENSION

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area C (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.**Discussion:** 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators**Facilitators:** R.A. Dweik, MD, Cleveland, OH
A. Palomar, MD, Mexico, Mexico

- P171 Rationale and Design of TRACE: A Double-Blind, Placebo-Controlled Phase 4 Study in Pulmonary Arterial Hypertension to Assess the Effect of Selexipag on Physical Activity, Patient-Reported Symptoms and Their Impact, in Daily Life/I.** Preston, R. Frantz, A. Hemnes, S. Rosenkranz, H. Skaara, T. Pfister, M. Humbert, L.S. Howard, Boston, MA, p.A5680
- P172 Transition from Parenteral to Oral Treprostinil: A Single Center Experience/S.A.** Suliman, J.S. Smith, L. Mudd, C. Mounce, K. El-Kersh, Louisville, KY, p.A5681
- P173 Riociguat for the Treatment of Pulmonary Arterial Hypertension and Chronic Thromboembolic Pulmonary Hypertension: Safety Update from the EXPERT Registry/H.** Klose, H. Gall, H.-A. Ghofrani, E. GrÅ¼nig, M. Humbert, G. Simonneau, M. Halank, D. Langleben, R.J. Snijder, P. Escribano, L.M. Mielniczuk, T. Lange, J.-L. Vachiery, H. Wirtz, D.S. Helmersen, I. Tsangaris, J.A. Barbera, J. Pepke-Zaba, A. Boonstra, S. Rosenkranz, S. Ulrich, R. Mascherbauer, M. Delcroix, P. Jansa, M.A. Gomez Sanchez, J. Klotsche, C. Meier, D. Pittrow, M.M. Hoeper, Hamburg, Germany, p.A5682
- P174 Triple Start Therapy for PAH in a Community Based Center/A.** Patel, J. Gordon, M. Reichmuth, J. Lee, Pueblo, CO, p.A5683
- P175 Transition to Oral from Intravenous Prostacyclins therapy in Pulmonary Arterial Hypertension/Z.** Safdar, S. Sahay, Houston, TX, p.A5684
- P176 Partial Anomalous Pulmonary Venous Return: Different Management Approaches/S.A.** Suliman, J.S. Smith, E. McDaniel, K. El-Kersh, Louisville, KY, p.A5685
- P177 Pulmonary Hypertension and Pregnancy: A Retrospective Cohort Study of 31 Patients/X.** Sun, J. Shi, Beijing, China, p.A5686
- P178 Safety of Ketogenic Diet in Group 2 Pulmonary Hypertension Patients/J.** Dyer, S. Wolver, D. Grinnan, Richmond, VA, p.A5687
- Facilitator:** A.J. Peacock, MD, Glasgow, United Kingdom
- P179 A Multicenter, Randomized, Double-Blinded, Placebo-Controlled Trial to Evaluate the Safety and Efficacy of Inhaled Treprostinil in Subjects with Pulmonary Hypertension Due to Parenchymal Lung Disease (Study RIN-PH-201)/A.B.** Waxman, V.F. Tapson, P.M. Smith, C. Deng, S.D. Nathan, Boston, MA, p.A5688

- P180** **Catheter Related Venous Thrombosis in Pulmonary Arterial Hypertension Patients on Intravenous Prostacyclin Therapy/N.** Brahmabhatt, Z. Safdar, S. Sahay, Houston, TX, p.A5689
- P181** **Electrocardiographic Effects of Esuberaprost (BPS-314d) Compared to Placebo and Moxifloxacin (a Positive Control) in Healthy Adult Subjects: A Thorough QT Study/K.R.B. von Kessler, K. Whitehurst, B. Darpo, S. Hossack, X. Chen, M. Dunn, E.A. Duvall, J. Shin, P. Sista, Silver Spring, MD, p.A5690**
- P182** **Spironolactone Use in a Large Cohort of PAH Patients: Results from Clinical Trial Database/Z. Safdar, Y. Rao, Houston, TX, p.A5691**
- P183** **Change in Objective Parameters After Long-Term Selexipag Therapy for Pulmonary Arterial Hypertension: A Single-Center Observational Study/B.D. Park, K.M. Chin, S. Bartolome, Dallas, TX, p.A5692**
- P184** **Baseline and Demographic Data on the First 250 Patients from SPHERE (Upravi® [SelexiPag]: the usErs dRug rEgistry)/V.V. McLaughlin, N.H. Kim, K.M. Chin, K.B. Highland, A. Hemnes, M.M. Chakinala, M. Keating, C. Zhao, J. Colvin, B. Hartline, H.W. Farber, Ann Arbor, MI, p.A5693**
- P185** **Does Prostacyclin Therapy Suppress Plasma BNP Levels Independent of Pulmonary Hemodynamic Effects in Patients with Pulmonary Arterial Hypertension?/P. Pandit, S. Belok, G. Baird, C.E. Ventetuolo, J.R. Klinger, Providence, RI, p.A5694**
- Facilitator:** I.R. Preston, MD, Boston, MA
- P186** **Mortality in Pulmonary Arterial Hypertension Patients Treated with Continuous Prostanoids/S. Bartolome, N. Sood, T. Shah, K. Styrvoky, F. Torres, K.M. Chin, Dallas, TX, p.A5695**
- P187** **Patient Characteristics and Treatment Patterns in the Largest Real-World Cohort of Pulmonary Arterial Hypertension Patients Newly Treated with Macitentan: OPsumit® USers (OPUS) Registry/R.N. Channick, K.M. Chin, N.H. Kim, L. Melendres-Groves, E. Muros-Le Rouzic, M. Selej, V.V. McLaughlin, Boston, MA, p.A5696**
- P188** **Transitions from Inhaled, Intravenous, Subcutaneous, or Oral Prostacyclins to Selexipag: Interim Data from the SPHERE Registry (SelexiPag: the UsErs dRug rEgistry)/A. Hemnes, H.W. Farber, N.H. Kim, K.M. Chin, M.M. Chakinala, K.B. Highland, C. Zhao, M. Keating, B. Hartline, V.V. McLaughlin, Nashville, TN, p.A5697**
- P189** **Parenteral Prostanoids in the Treatment of Stimulant-Use Associated Pulmonary Arterial Hypertension/O. Olanipekun, S. Bartolome, A. Sodimu, T. Shah, F. Torres, K. Chin, Dallas, TX, p.A5698**
- P190** **Prospective Follow-Up: Sustained Pulmonary Hypertension in Treatment Compliant Obstructive Sleep Apnea/D.J. De La Zerda, M. Godbee, L. Khalid, A. Abreu, A.D. Chediak, E.S. Mendes, Miami, FL, p.A5699**
- P191** **Outcomes of Patients with Pulmonary Hypertension Associated with Sarcoidosis Treated with Epoprostenol/S. Hon, E.D. Abston, L. Bajpayee, J.S. Berman, P. Govender, H.W. Farber, Boston, MA, p.A5700**
- P192** **Hemodynamic Effects of Fluoxetine in Pulmonary Arterial Hypertension (PAH)- An Open Label Pilot Study/A. Sodimu, S. Bartolome, O. Igenozza, K.M. Chin, Dallas, TX, p.A5701**

THEMATIC POSTER SESSION

C70 WHO'S NEXT? NEW INSIGHTS INTO ATYPICAL WHO GROUP 1 AND GROUP 2-5 PH

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area C (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion

12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: J.R. Klinger, MD, Providence, RI

- P194** **Effect of Remodulin in Pulmonary Hypertension Associated with Heart Failure with Preserved Ejection Fraction (PH-HFpEF)/Y.C. Lai, J. Hu, A. Sebastiani, A.L. Mora, M.T. Gladwin, Pittsburgh, PA, p.A5702**
- P195** **Comparison of Provocative Maneuvers During Right Heart Catheterization to Identify "Occult" Post-Capillary Pulmonary Hypertension/A. Arunachalam, A. Bhattacharyya, R. Khan, F. Qadir, N.F. Chaisson, A.R. Tonelli, Cleveland, OH, p.A5703**
- P196** **Hemodynamic Parameters as Predictors of SLED Disordered Breathing in a Cohort of Patients with Left Ventricular Dysfunction/B.F. Samhoury, H.L. Paz y Mar, M. Venkata Subramani, Cleveland, OH, p.A5704**
- P197** **Cardiac MRI Measured Left Atrial Function Can Identify Patient with Pulmonary Hypertension Due to Left Heart Disease/C.S. Johns, J.M. Wild, P. Garg, C. Sowden, I. Mahmoud, S. Rajaram, C. Elliot, R.A. Condliffe, A. Charalampopoulos, D. Kiely, A. Swift, Sheffield, United Kingdom, p.A5705**
- P198** **Identification of Novel SIRT3 Activators as Therapeutic Prospects for PH-HFpEF/A. Levine, T. Lear, B. Chen, Y.-C. Lai, M.T. Gladwin, Pittsburgh, PA, p.A5706**
- P199** **Congenital Heart Disease-Associated PAH: Can DNA Damage Profiles Identify Those at Highest Risk?/M. Aldred, S. Meade, T. Sadler, C. Rigelsky, Indianapolis, IN, p.A5707**
- P200** **Differences in Sleep Disordered Breathing Severity and Nocturnal Hypoxia Among Patients Referred for Right Heart Catheterization/B.F. Samhoury, H.L. Paz y Mar, M. Venkata Subramani, R. Mehra, N.F. Chaisson, Cleveland, OH, p.A5708**
- P201** **Obesity in Pulmonary Arterial Hypertension/V. Narasimhan, H.I. Palevsky, K.A. Smith, J.S. Fritz, J.A. Mazurek, C.L. Archer-Chicko, C. Burwell, S. Pugliese, S.M. Kawut, N. Al-Naamani, Philadelphia, PA, p.A5709**
- P202** **Atypical Pulmonary Arterial Hypertension in the Setting of an Elevated Diastolic Gradient - a Subgroup that Benefits from Treatment/M. AlJasmi, B.L. Small, L. Aurora, B.A. Kelly, S. Hegab, J.H. Jennings, R.L. Awdish, Detroit, MI, p.A5710**
- Facilitator:** D.B. Badesch, MD, Aurora, CO
- P203** **Impact of Multi-System Healthcare Use on Pulmonary Hypertension Management Among U.S. Veterans/K.R. Gillmeyer, K. Lee, Q. Shao, M. Glickman, J. Hanlon, D. Miller, S. Rinne, R.S. Wiener, Boston, MA, p.A5711**

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- P204 Predictive Value of Pulmonary Function Testing in the Evaluation of Pulmonary Hypertension in Sarcoidosis/J. Delio, J.E. Ahari, A.H. Cho, H. Goulart, J. Gwizdala, N. Temesgen, A. Jose, Washington, DC, p.A5712**
- P205 Prevalence and Associated Mortality of an Echocardiographic Diagnosis of Pulmonary Hypertension in End-Stage Renal Disease Patients: A Systematic Review and Meta-Analysis/N. Schoenberg, R.G. Argula, H.W. Farber, E.S. Klings, K.C. Wilson, Boston, MA, p.A5713**
- P206 Right Heart Catheterisation: Is There a Role in Assessing Suitability for Complex Vascular Communication in Haemodialysis Patients?/C. Orton, E. Shaw, B. Madden, London, United Kingdom, p.A5714**
- P207 Risk Factors for Pulmonary Hypertension in Patients Undergoing Peritoneal Dialysis/V. Jayaschandran, M. Kwon, H. Iftikhar, A. Michel, B.D. Dalal, Royal Oak, MI, p.A5715**
- P208 Pulmonary Hypertension Characteristics in Alpha-1 Antitrypsin Deficiency Patients Undergoing Lung Transplant Evaluation/R.G. Valentin, D. Kay, M.L. Brantly, H.M. Alnuaimat, A. Ataya, Gainesville, FL, p.A5716**
- P209 Pulmonary Vasoreactivity to Oxygen in Pulmonary Hypertension Due to Chronic Lung Disease/K. Kusaka, Y. Morio, S. Yamamoto, K. Takeda, M. Ohgiya, M. Kawashima, K. Masuda, K. Ohta, Kiyose City, Japan, p.A5717**
- P210 Central Sleep Apnea and Cheyne-Stokes Respiration Associated with Cardiac Function in Pulmonary Venous but Not Pulmonary Arterial Hypertension/B. Samhoury, H.L. Paz y Mar, M. Venkata Subramani, R. Mehra, N.F. Chaisson, Cleveland, OH, p.A5718**
- P211 The Effect of Hematopoietic Stem Cell Transplant and the Pre-Conditioning Regimens on Pulmonary Circulation and Myocardial Function/M. Khalid, N. Chaudhri, I. Weheba, A. Abdelsayed, A.M. Aldalaan, O. Zeitouni, B. Alrabiah, M. Aljurf, E.A. Almutairy, Riyadh, Saudi Arabia, p.A5719**
- P940 Caspase 3 Inhibition Delays Endothelial Barrier Recovery After Injury/T.M. Nicholson, L. Servinsky, L. Johnston, K. Carino, J. Huetsch, K. Suresh, F.R. D'Alessio, L.A. Shimoda, M. Damarla, Baltimore, MD, p.A5721**
- P941 Nuclear Translocation of Caspase 3 and Its Role in Potentiating Apoptosis/L. Johnston, R. Torres, K. Carino, T. Nicholson, K. Suresh, L. Servinsky, M. Damarla, Baltimore, MD, p.A5722**
- P942 Mathematical Modeling of the Spatial Spread of cAMP Signals Within and Between Pulmonary Endothelial Cells/T.C. Rich, N. Stone, S. Shettlesworth, A.-V. Phan, Mobile, AL, p.A5723**
- P943 Pseudomonas Aeruginosa Induced Lung Endothelial Amyloid Proteinopathy: Characteristics and Inhibitors/M. Berrou, R. Stevens, S.B. Voth, C.D. Caesar Williams, R. Balczon, T. Stevens, Mobile, AL, p.A5724**
- P944 Pseudomonas Aeruginosa's Exoenzyme Y Intoxication Reversibly Converts Antimicrobial Endothelial Amyloids into Amyloid Prions/S.B. Voth, R. Balczon, C.M. Francis, T. Stevens, Mobile, AL, p.A5725**
- P945 MRSA Induces Epigenetic Changes and Permeability in Lung Endothelium that Are Attenuated by FTY720 S-Phosphonate/L. Wang, L. Meliton, E. Letsiou, H. Wang, S.M. Dudek, Chicago, IL, p.A5726**
- P946 A Dual Effect of Acidosis on Pulmonary Microvascular Endothelial Cell (PMVEC) Survival During Infection: Acidic Postconditioning for Pneumonia?/J.Y. Lee, R. White, S. Voth, R. Balczon, T. Stevens, Mobile, AL, p.A5727**
- P947 Cytotoxic Amyloids Inhibit Carbonic Anhydrase IX (CA IX) in Pulmonary Microvascular Endothelial Cells (PMVECs): A Potential Mechanism of Acid Dysregulation and Cell Death During Infection/J.Y. Lee, S. Voth, R. Balczon, T. Stevens, Mobile, AL, p.A5728**

Facilitator: K.G. Birukov, PhD, MD, Baltimore, MD

- P948 PP2A Dependent Differential Regulation of MAP Kinase Activation in CSE And LPS Induced Lung Injury/R. Wadgaonkar, A. Majumdar, A. Bhatt, A. Dabo, P. Geraghty, R. Foronjy, Brooklyn, NY, p.A5729**
- P949 Inhibition of Mitochondrion Connexin 43 Attenuates Oxidative Stress and Apoptosis Induced by Lipopolysaccharides in Human Umbilical Endothelial Cells/D. Ji, Q.-Q. Li, J.-W. Ma, S.-Y. Jiang, X.-X. Ji, X.-X. Lu, L. Luo, Wuxi, China, p.A5730**
- P950 Bosutinib Protects Against Endothelial Vascular Leakage by Preventing Focal Adhesion Disassembly/L. Botros, M. Pronk, J. Juschten, J. Liddle, F. Breijer, H.J. Bogaard, P. Hordijk, J. Aman, Cardiovascular Sciences Amsterdam, Netherlands, p.A5731**
- P951 Syndecan-1 Mediates Lung Endothelial Cell Inflammatory Signaling by Integrin $\beta 4$ /Y. Epshtein, M. Anis, W. Chen, T. Wang, A.E. Cress, J.R. Jacobson, Chicago, IL, p.A5732**
- P952 Truncated Oxidized Phospholipids as a Factor Exacerbating ALI in the Aging Lungs/Y. Ke, A. Sitikov, S. Son, P. Karki, E. Berdyshev, A. Birukova, K.G. Birukov, Baltimore, MD, p.A5733**

THEMATIC POSTER SESSION

C71 CALIFORNIA DREAMING: NEW INSIGHTS INTO ENDOTHELIAL DYSFUNCTION IN ARDS

9:15 a.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER

Area H (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: E.P. Schmidt, MD, Aurora, CO

- P939 Active Caspase 3 Plays a Role in the Recovery of the Endothelial Cell Barrier from Thrombin-Induced Disruption/K. Carino, T.M. Nicholson, L. Johnston, K. Suresh, L.A. Shimoda, L. Servinsky, P.M. Hassoun, M. Damarla, Baltimore, MD, p.A5720**

- P953 Do Natriuretic Peptides Mediate Obesity Related Lung Injury?**/C. Dado, A. Kumar, E.O. Harrington, J.R. Klinger, Providence, RI, p.A5734
- P954 Interleukin Signature in Pulmonary Septic Patients**/Y. Eslaamizaad, E. Sutherland, J. Bell, P. Renema, R. Barrington, J. Audia, B.W. Fouty, D.F. Alvarez, Mobile, AL, p.A5735
- P955 Dynamics Between IL-10 and Pro-Inflammatory Cytokines in Critical Care Patients with Sepsis**/W. Siddiqui, E. Sutherland, J. Bell, J. Audia, B.W. Fouty, D.F. Alvarez, Mobile, AL, p.A5736
- P956 Trim21 Inhibits Human Lung Microvascular Endothelial Cell Inflammatory Responses Through Attenuation of NF- κ B Pathway and Intercellular Adhesion Molecules Expression**/L. Li, P.R. Fleisher, J. Wei, B. Wang, M.J. Kaltreider, S. Li, P. Sundd, J. Zhao, Pittsburgh, PA, p.A5737

THEMATIC POSTER SESSION

C72 PULMONARY FIBROSIS: MECHANISMS AND MODELS

9:15 a.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER
Area D (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: R. Guzy, MD, PhD, Chicago, IL

- P265 Vitamin D Inhibits TGF- β 1-Induced Myofibroblast Differentiation and Extracellular Matrix Production Via Smad2/3 Signaling Pathway in Nasal Polyp-Derived Fibroblasts**/J.M. Shin, H.-W. Yang, S.A. Lee, J.-H. Park, H.-M. Lee, Seoul, Korea, Republic of, p.A5738
- P266 Krüppel-Like Factor 4 (Klf4) Is a Novel Regulator of Neonatal Lung Fibroblast Homeostasis and Reduced in Hyperoxia-Induced Lung Injury**/D. Hirani, K. Dinger, J. Mohr, C. Vohlen, C. Klautd, J. Dötsch, M.A. Alejandre Alcazar, Cologne, Germany, p.A5739
- P267 The Selective Prostacyclin Receptor Agonist ACT-333679 Attenuates and Reverses TGF β 1-Induced Profibrotic Phenotype in Primary Human Lung Fibroblasts**/K. Zmajkovicova, K. Menyhart, Y. Bauer, B. Renault, R. Studer, M. Bollinger, M. Schnoebelen, O. Nayler, J. Gatfield, Allschwil, Switzerland, p.A5740
- P268 Importin-5 Controls the Intracellular Degradation of IL-33 Precursor in Primary Pulmonary Fibroblasts**/A. Clerman, N.G. Shah, N.W. Todd, S.P. Atamas, I.G. Luzina, Baltimore, MD, p.A5741
- P269 The Role of Lysyl Oxidase in Systemic Sclerosis-Associated Lung Fibrosis**/X.-X.M. Nguyen, T. Nishimoto, T. Takihara, L. Mlakar, J.M. Pilewski, E.C. Riemer, J. Heywood, A. Bradshaw, C. Feghali-Bostwick, Charleston, SC, p.A5742
- P270 A Precision-Cut Rat Lung Slice Model for Evaluation of Anti-Pulmonary Fibrosis Drugs**/X. Huang, L. Li, R. Ammar, Y. Zhang, J. Thompson, G. Jarai, Pennington, NJ, p.A5743
- P271 Sputum Exosomal microRNAs as Promising Biomarkers for Idiopathic Pulmonary Fibrosis**/J. Guiot, M.-S. Njock, M. Henket, O. Nivelles, M. Thiry, F. Dequiedt, J.-L. Corhay, R. Louis, I. Struman, Liege, Belgium, p.A5744
- P272 Resolution of Bleomycin-Induced Murine Pulmonary Fibrosis Via a Splenic Lymphocyte Subpopulation**/K. Kamio, A. Azuma, K. Matsuda, J. Usuki, M. Inomata, A. Morinaga, T. Kashiwada, N. Nishijima, S. Itakura, N. Kokuho, K. Atsumi, H. Hayashi, T. Yamaguchi, K. Fujita, Y. Saito, S. Abe, K. Kubota, A. Gemma, Tokyo, Japan, p.A5745
- P273 Genetic Background of Idiopathic Pulmonary Fibrosis in the Czech Republic**/M. Vasakova, P. Schneiderova, V. Kolek, M. Sterclova, V. Lostakova, M. Zurkova, V. Bartos, M. Doubkova, R. Bittenglova, L. Siskova, H. Suldova, J. Psikalova, M. Plackova, J. Strenkova, M. Svoboda, E. Kriegova, Praha, Czech Republic, p.A5746
- Facilitator:** R.S. Knipe, MD, Boston, MA
- P274 Calpain Inhibition as Anti-Fibrotic Therapy: Discovery and Pre-Clinical Evaluation of Novel Inhibitors in Models of Lung and Liver Fibrosis**/B. Buckman, C.J. Schaefer, K. Kossen, S. Misialek, S.R. Lim, A. Arfsten, M. Kim, C. Wong, J.X. Wang, P. Ibrahim, W. Yu, M. Fuentes, W. Robbins, K. Emayan, M. Adler, J. Nicholas, S. Yuan, J. Ma, D. Kim, D. Ruhrmund, R. Rajagopalan, South San Francisco, CA, p.A5747
- P275 Pirfenidone Attenuates Pro-Fibrotic Biomarker in Ex Vivo Lung Tissue Slices**/C. Hesse, S. Mang, L. Wollin, H.-G. Hoymann, M. Niehof, P. Braubach, M.P. Kuehnel, D.D. Jonigk, G. Warnecke, O. Pfennig, H.-G. Fieguth, A. Braun, K. Sewald, Hannover, Germany, p.A5748
- P276 Blood Monocyte Levels Correlate with Fibrotic Burden in IPF Patients and Show Pro-Fibrogenic Characteristics**/E. Fraser, K. Bliando, V. St Noble, R. Benamore, R. Hoyles, L.-P. Ho, Oxford, United Kingdom, p.A5749
- P277 Fractalkine/CX3CR1 Axis Drives Kinetic Changes of Non-Classical Monocytes in Fibrotic Interstitial Lung Disease Patients**/F.R. Greiffo, M. Frankenberger, D. Dietel, A. Ortega-Gomez, J. Behr, O. Soehnlein, I.E. Fernandez, O. Eickelberg, Munich, Germany, p.A5750
- P278 Comparison of the Antifibrotic Efficacy of the Pan-Histone Deacetylase-Inhibitor Panobinostat Versus the IPF-Drug Pirfenidone in Fibroblasts from Patients with Idiopathic Pulmonary Fibrosis**/M. Korfei, D. Stelmaszek, S. Skwarna, S. Chillappagari, A.C. Bach, B. MacKenzie, C. Ruppert, S. Saito, P. Mahavadi, W. Klepetko, L. Fink, W. Seeger, J.A. Lasky, S.S. Pullamsetti, O. Krämer, A. Guenther, Giessen, Germany, p.A5751
- P279 Geographic Heterogeneity of Lung Tissue Changes in IPF Is Accompanied by Substantial Transcriptomic Homogeneity**/S.P. Atamas, M.V. Salcedo, M.L. Rojas-Peña, A.E. Wyman, J.R. Galvin, A. Sachdeva, A. Clerman, J. Kim, T.J. Franks, E.J. Britt, J.D. Hasday, S.M. Pham, A.P. Burke, N.W. Todd, I.G. Luzina, Baltimore, MD, p.A5752

- P280** **Galectin-3 Interacts with CHI3L1 Axis and Contributes to Hermansky-Pudlak Syndrome Lung Disease/Y. Zhou, C.H. He, D. Yang, T. Nguyen, S. Kamle, C.-M. Lee, B. Gochuico, W. Gahl, B. Shea, C.G. Lee, J. Elias, Providence, RI, p.A5753**
- P281** **Nintedanib Treatment Attenuates Pulmonary Fibrosis in a New Humanized Mouse Model for IPF/A. Prasse, L. Plappert, B. Jäger, L. Wollin, Hannover, Germany, p.A5754**
- P282** **An Update on the Global Idiopathic Pulmonary Fibrosis (IPF) Collaborative Network: A Platform for IPF Genetics/T. Walker, D.A. Schwartz, M.I. Schwarz, T.E. Fingerlin, J. Powers, J.A. De Andrade, E. Bendstrup, T.S. Blackwell, R. Borie, K.K. Brown, J.D. Christie, H.R. Collard, T.J. Corte, B. Crestani, O. Eickelberg, K.F. Gibson, G. Gudmundsson, M. Henry, N. Hirani, Y. Inoue, R.G. Jenkins, D. Kass, S.M. Kawut, J.M. Keane, M.P. Kennedy, G.J. Laurent, D.J. Lederer, J.E. Loyd, N. Mogulkoc, A.I. Musani, J. Molina, S.D. Nathan, I. Noth, K. Ohta, H. Parfrey, V. Poletti, C. Prele, C.J. Ryerson, M. Selman, B. Shea, J.W. Song, M.P. Steele, M. Sterclova, M.D. Tobin, S. Tomassetti, M.D. Tobin, M. Vasakova, A. Waltz, P.J. Wolters, Y. Zhang, Aurora, CO, p.A5755**
- Facilitator:** J. Kropski, MD, Nashville, TN
- P283** **Disease-Specific Alterations in Glycosaminoglycans in IPF and COPD/O. Hallgren, A. Nybom, X.-H. Zhou, G. Dellgren, L.H. Bjermer, G. Westergren-Thorsson, Lund, Sweden, p.A5756**
- P284** **The Endocannabinoid/CB1R System Is Overactive in Bleomycin-Induced Pulmonary Fibrosis in Pale Ear (HPS1) Mice/R. Cinar, T. Yokoyama, N.J. Coffey, J.K. Park, M.R. Iyer, B.R. Gochuico, W.A. Gahl, M.C. Malicdan, G. Kunos, Rockville, MD, p.A5757**
- P285** **Ontogeny of Osteopontin Expression in a Non-BRICHOS Mutant Surfactant Protein C Mouse Model of Idiopathic Pulmonary Fibrosis/S.-I. Nureki, Y. Tomer, A. Venosa, S.J. Russo, J. Katzen, S. Mulugeta, J. Kadota, M.F. Beers, YOita, Japan, p.A5758**
- P286** **CD36 Scavenger Receptor Promotes Pulmonary Fibrosis in Response to Oropharyngeal Administration of Oxidized Phospholipid/P. Bradley, N. Subbotina, M. Dotson, S. Teitz-Tennenbaum, J. Roussey, J.J. Osterholzer, T.H. Sisson, Ann Arbor, MI, p.A5759**
- P287** **Transforming Growth Factor- β (TGF- β) Induces Interleukin-33 (IL-33) Expression by Primary Human Lung Fibroblasts/K.E. Stephenson, A.E. John, I.C. Scott, C.L. Overed-Sayer, E.S. Cohen, R.G. Jenkins, Nottingham, United Kingdom, p.A5760**
- P288** **Tyrosine Phosphorylation of Tollip on C2 Domain Is Important for TGF-beta Pathway Inhibition Through Modulation of Smad7 Expression/X. Li, H. Bahudhanapati, S. Yu, J. Zhao, D. Kass, Y. Zhang, Pittsburgh, PA, p.A5761**
- P289** **Involvement of Adenosine A2a Receptor in the Lung Fibrosis Caused by Silica Particles in Mice/Y. Sá, L.E.B. Savio, R. Coutinho-Silva, V. Carregaro, J.C. Alves-Filho, C.M. Hogaboam, M.A. Martins, P.M. Silva, Rio de Janeiro, Brazil, p.A5762**
- P290** **Nintedanib Attenuates Histopathology of Interstitial Pneumonia in a Transgenic Mouse Model of Arthritis/Y. Miura, S. Kanazawa, H. Ohkubo, A. Niimi, Nagoya, Japan, p.A5763**
- P291** **Analysis of Anti-CD163 and CD204-Antibody-Positive Macrophage in the Lung of Patient with Idiopathic Pulmonary Fibrosis/Usual Interstitial Pneumonia/T. Nouno, M. Okamoto, K. Ohnishi, Y. Komohara, M. Tominaga, T. Kawayama, M. Takeya, T. Hoshino, Kurume, Japan, p.A5764**
- Facilitator:** B. Shea, MD, Providence, RI
- P292** **DPPIV Expression in Human Lung Fibroblasts Affects Phenotypic Changes in Fibrosis/K. Heinzelmann, M. Gerckens, M. Lindner, R. Hatz, J. Behr, O. Eickelberg, A. Hilgendorff, Munich, Germany, p.A5765**
- P293** **New Insights of the Pathology of Pulmonary Fibrosis Revealed by Metabolome Analysis/S. Ohkouchi, D. Saigusa, M. Kanehira, M. Tabata, T. Irokawa, H. Ogawa, Y. Okada, H. Kurosawa, Sendai, Japan, p.A5766**
- P294** **Does Cytochrome p450 3A4 Catalyzed Metabolism in Pulmonary Fibroblasts Contribute to Oxidative Stress in Idiopathic Pulmonary Fibrosis?/L. Rodriguez, R. Beuschel, E. Ellis, S. Bui, S.D. Nathan, G.M. Grant, Fairfax, VA, p.A5767**
- P295** **Involvement of Iron Homeostasis in Fibrotic Process of Smokers Lung/S. Kunugi, N. Kokuho, N. Kokuho, Y. Kajimoto, M. Terasaki, Y. Terasaki, Tokyo, Japan, p.A5768**
- P296** **The Anti-Hyperlipidemic Agent Fenofibrate Inhibits TGF- β -Induced Myofibroblast Differentiation and Collagen Production/R. Kikuchi, Y. Iwai, T. Tsuji, K. Yamaguchi, H. Nakamura, K. Aoshiba, Ibaraki, Japan, p.A5769**
- P297** **Proof of Concept of Eukaryotic Genetic Sensory Response Units in TGF-beta Signaling in Idiopathic Pulmonary Fibrosis/Y.I. Balderas-Martinez, B. Moreno-Quiroga, M. Negreros, D. Ledezma-Tejeida, A. Pardo, J. Collado-Vides, M. Selman, Mexico City, Mexico, p.A5770**
- P298** **A Novel Method for Discovery of Peripheral Blood Biomarkers in Idiopathic Pulmonary Fibrosis Using Extensive Depletion and TMTcalibrator Tissue-Enhanced Plasma Proteomics/I. Pike, M. Bremang, P.J. Wolters, R. Gaster, S. Turner, M. Decaris, London, United Kingdom, p.A5771**
- P299** **Decreased Autophagy and Endoplasmic Reticulum (ER) Stress Induction During Aging, Is Associated with Aberrant Macrophage Recruitment and Lung Remodeling in Mouse/M. Maciel, A.C. McQuattie-Pimentel, R. Piseaux-Aillon, D. Hernandez-Barrientos, M. Selman, A. Pardo, G.R.S. Budinger, S. Cabrera, Mexico City, Mexico, p.A5772**
- P300** **Role of the Anti-Aging Hormone Klotho in Idiopathic Pulmonary Fibrosis/J.W. Barnes, D. Duncan, D. Kurundkar, S. Hutcheson, N.J. Logsdon, M.L. Locy, S. Blumhof, S. Helton, G. King, V.J. Thannickal, S. Krick, Birmingham, AL, p.A5773**
- P301** **Increased Invadosome Formation by Fibroblasts in Experimental Lung Fibrosis/M. Lebel, M. Charbonneau, A. Cloutier, C.M. Dubois, A.M. Cantin, Sherbrooke, Canada, p.A5774**
- P302** **Circulating Fibrocytes Predict Biomarkers of Immune Dysregulation and Fibrogenesis in a Genetic Interstitial Lung Disease/S.M. Fortier, M.D. Burdick, T.C. Markello, K.J. O'Brien, W.A. Gahl, B.R. Gochuico, B. Mehrad, Ann Arbor, MI, p.A5775**

- P303** **Calcium Silicate Pave a New Road to the Treatment of the Pulmonary Fibrosis**/D. Weng, L. Lu, L. Huiping, Shanghai, China, p.A5776
- P304** **HIF3 Alpha Hypermethylation Removes the Breaks on Hypoxia Signaling and Increases Fibrotic Phenotype in Idiopathic Pulmonary Fibrosis**/A. Aquino-Galvez, Y. Romero, G. González-Avila, F. Toscano, M. Castillejos-Lopez, L.M. Torres-Espíndola, L.L. Jiménez, J. Cisneros, V.H. Olivera, H.A. Maldonado-Martínez, M. Checa, J. Zuñiga, Mexico City, Mexico, p.A5777
- P305** **SMO4646 Inhibited Wnt Pathway Gene Expression Stimulated in Response to Transforming Growth Factor-beta and was Effective in a Chronic Model of Bleomycin-induced Pulmonary Fibrosis**/B. Tam, K. Chiu, E. Creger, L. Dellamary, S. KC, J. Stewart, Y. Yazici, San Diego, CA, p.A5778
- P306** **Unraveling the Role of MT1-mmp in Alveolar Epithelial Cells During Pulmonary Fibrosis**/L. Placido, M. Maldonado, F. Toscano, Y. Romero, J. Cisneros, M. Selman, A. Pardo, Mexico City, Mexico, p.A5779
- P307** **First-in-Class MAPK/PI3K Small Molecule Exhibits Reversal of Fibroproliferative Disease**/B.D. Ross, S. Galban, B.A. Hoff, M. Van Dort, C. Espinoza, X.-F. Xu, W.D. Hardie, Ann Arbor, MI, p.A7772
- P308** **Soluble Human Thy-1 Attenuates TGF- β 1-induced Lung Fibrosis in Mice**/C. Tan, S.S. Wong, E. Connors, C. Espinoza, J.S. Hagood, Beijing, China, p.A7773
- P309** **Role of Mitochondrial Antiviral Signaling Protein (MAVS) in the Pathogenesis of Bleomycin-Induced Pulmonary Fibrosis in Mice**/J.Y. Lee, S.-H. Kim, C.M. Yoon, H.J. Shin, M.-J. Kang, New Haven, CT, p.A7774
- P314** **Genes Encoding Redox Homeostasis Regulators Demonstrate Reduced Expression with Age in Normal Human Lung**/D. Seward, E. Elko, V. Anathy, A.L.J. Van Der Velden, A. Van Der Vliet, Y. Janssen, Burlington, VT, p.A5783
- P315** **Primary Cilia Are Necessary for Fibroblast Migration and the Development of Pulmonary Fibrosis**/C. Trempus, S. Garantziotis, Research Triangle Park, NC, p.A5784
- P316** **Fibroblasts from Patients with Pulmonary Fibrosis Suppress Inflammatory Responses in Pulmonary Endothelial Cells**/A.E. Wyman, M.E. Tulapurkar, P. Karki, T.T.T. Nguyen, N.W. Todd, I.G. Luzina, S.P. Atamas, A.A. Birukova, K.G. Birukov, Baltimore, MD, p.A5785
- P317** **FOXF1 Expression Represents a Unique Resident Mesenchymal Stromal Cell Population in the Adult Lung**/R. Brauer, N.M. Walker, D. Wheeler, K. Misumi, P. Cao, Y. Aoki, V.N. Lama, Ann Arbor, MI, p.A5786

Facilitator: J.C. Horowitz, MD, Ann Arbor, MI

- P318** **STAT3 Reinforces the Senescent Phenotype in Human Lung Fibroblasts**/D.W. Waters, M. Schuliga, K.E.C. Blokland, J.K. Burgess, C.L. Grainge, G.P. Westall, G.J. Laurent, C. Prele, S.E. Mutsaers, D.A. Knight, Newcastle, Australia, p.A5787
- P319** **Mechanisms for Deficient Nrf2-Dependent Antioxidant Responses in Senescent Fibroblasts**/N. Logsdon, K. Bernard, M.L. Locy, S.M. Swamy, D.K. Crossman, V.J. Thannickal, Birmingham, AL, p.A5788
- P320** **p53 Expression in Lung Fibroblasts: Linkage to Fibrotic Lung Remodeling**/N. Tiwari, M.R. Nagaraja, S.K. Shetty, A. Marudamuthu, L. Fan, R. Ostrom, J. Fu, V. Gopu, S. Idell, S. Shetty, Tyler, TX, p.A5789
- P321** **Apoptosis Resistance of IPF Fibroblasts Is Mediated by Glutaminolysis-Dependent Epigenetic Regulation of Pro-Survival Genes**/Y. Sanders, L. Bai, S. Tang, J.C. Horowitz, V.J. Thannickal, Birmingham, AL, p.A5790
- P322** **Molecular Regulation of Survival Pathways in Multiple Mesenchymal Cells**/R.K. Kasam, G.B. Reddy, A.G. Jegga, S.K. Madala, Cincinnati, OH, p.A5791
- P323** **IL-17A Induced Fibrogenic Responses in Normal Human Lung Fibroblast**/S. Wang, D. Wang, J. Zhang, L. Wang, H. Zhao, D.J. Tschumperlin, R. Vassallo, Rochester, MN, p.A5792

Facilitator: K. Bernau, DPhil, Madison, WI

THEMATIC POSTER SESSION

C73 FIBROBLAST BIOLOGY

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area D (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: E.R. Neptune, MD, Baltimore, MD

- P311** **HIV-1 Envelope Protein gp120 Induces Fibroblast-to-Myofibroblast Transdifferentiation in Mouse Lung Fibroblasts**/L. Marts, D.M. Guidot, V. Sueblinvong, Atlanta, GA, p.A5780
- P312** **Expression of Distinct Alpha6 Integrin Alternative Splicing Variants in Lung Resident Mesenchymal Stem Cells (LR-MSCs)**/Z. Zhou, H. Chen, J. Qu, S. Liu, D. Chanda, V.J. Thannickal, P. Chen, Y. Zhou, Birmingham, AL, p.A5781
- P313** **Regulation of Pulmonary Fibrosis by Immune Checkpoint PD-L1**/Y. Geng, C.J. Liang, D.M. Habel, A.L. Coelho, T. Xie, K. Vrshika, N. Iiu, C.M. Hogaboam, D. Jiang, P.W. Noble, Los Angeles, CA, p.A5782
- P324** **Fibroblast Growth Factor 2 Decreases Bleomycin-Induced Pulmonary Fibrosis Through Inhibition of Fibroblast Collagen Production**/R. Guzy, L. El-Baz, H.Y. Koo, S. House, S. Cilvik, N.O. Dulin, D. Ornitz, Chicago, IL, p.A5793
- P325** **Direct Thrombin Inhibition with Dabigatran Alters the Matrix-Induced, Pro-Fibrotic Phenotype of Fibroblasts**/T.B. Lumpkin, B.D. Southern, R.G. Scheraga, J.F. Crish, L. Grove, S. Abraham, M.A. Olman, Cleveland, OH, p.A5794
- P326** **Structure and Composition of Lung Extracellular Matrix Dictate Fibroblast Fate**/C.B. Upagupta, S. Sato, P.-S. Bellaye, C. Shimbori, T. Yanagihara, M.R.J. Kolb, Hamilton, Canada, p.A5795

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- P327 Exploring the Role of Fibrocyte Derived Exosomes in the Pathogenesis of Lung Fibrosis/S.G. Chong, P. Nadarajan, L. Mthunzi, M. O'Callaghan, A. Fabre, P. McLoughlin, M.P. Keane, Dublin, Ireland, p.A5796**
- P328 The Role of Receptor for Advanced Glycation End Products (RAGE) in Fibroblast Chemotaxis/N. Tanaka, J. Ikari, R. Anazawa, M. Suzuki, Y. Katsumata, A. Shimada, Y. Matsuura, N. Kawata, Y. Tada, K. Tatsumi, Chiba, Japan, p.A5797**
- P329 miR-487b Expression Modifies BMI-1 and SUZ12 in Fibroblasts and Revealed a Dual Role in Proliferation and Migration in Hypersensitivity Pneumonitis/J. Cisneros, M. Espina, B. Ortiz, F. Toscano, A. Garcia, I. Herrera, Mexico City, Mexico, p.A7775**

THEMATIC POSTER SESSION

C74 ASTHMA: WHAT'S NEW IN ALLERGIC INFLAMMATION!

9:15 a.m. - 4:15 p.m. **SAN DIEGO CONVENTION CENTER**

Area A (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: C.M. Prado, PT, PhD, Santos, Brazil

- P48 Lung-Resident Pericytes Acquire Increased Migratory Capacity in a House Dust Mite-Driven Model of Asthma/J. Johnson, J.E. Rowley, Birmingham, United Kingdom, p.A5798**
- P49 The Role of Nociceptin/Orphanin FQ (N/OFQ) in Inflammation and Remodelling of the Small Airways in a Murine Model of Airway Hyperresponsiveness/G. Spaziano, G. Tartaglione, M. Sgambato, T.P. Russo, A. Liparulo, R. Esposito, S. Sirico, F. Roviezzo, L. Gallelli, B. D'Agostino, Napoli, Italy, p.A5799**
- P50 Affects of Cigarette Smoke, Allergens, and IL-33 in a Murine Model of Asthma/N. Minalt, M. Hanna, C. Kieffer, Y. Tu, P. Abel, R.G. Townley, Omaha, NE, p.A5800**
- P51 Relationship Between Allergen Challenge, Lung Inflammation and Lung Dysfunction in Murine Models of Asthma/S. Basu, C.D. Pascoe, A. Jha, J. Schwartz, A.J. Halayko, Winnipeg, Canada, p.A5801**
- P52 Sakuranetin (5,4'-Dihydroxy-7-Methoxyflavone) Reduces Airway Eosinophilic Inflammation in a Murine Model of Allergic Asthma Due to Different Mechanisms/F. Roncon, R. Silva, C.R. Olivo, F. Arantes-costa, S. Grecco, L. Caperuto, I. Tiberio, J. Lago, C.M. Prado, Sao Paulo, Brazil, p.A5802**
- P53 Endotoxin Level in House Dust Mite Extract Impacts the Molecular Phenotype of Allergic Airways Inflammation in Mice/C. Pascoe, A. Jha, S. Basu, T.H. Mahood, A. Lee, S. Hinshaw, R. Falsafi, M. Aliani, R. Hancock, N. Mookherjee, A.J. Halayko, Winnipeg, Canada, p.A5803**
- P54 Substrate Selective Targeting of ERK Signaling Mitigates Allergen-Induced Asthma Features in Mice/A.P. Nayak, R. Yi, N. Wang, S.D. Shah, P. Shapiro, D.A. Deshpande, Philadelphia, PA, p.A5804**
- P55 Role of Gut Microbiome in the Pathogenesis of Allergic Airway Disease/S. Kim, M.-J. Kang, J.G. Ha, H.-J. Cho, J.-H. Yoon, C.-H. Kim, Seoul, Korea, Republic of, p.A5805**
- P56 The In Vitro and Ex Vivo Efficacy of Novel Arginase Inhibitors for the Treatment of Allergic Asthma/M.P.M. van den Berg, S.H. Kurhade, S. Lunev, H.J.R. van Faassen, I.S.T. Bos, A.B. Zuidhof, M. Groves, I.P. Kema, A. Dömling, H. Meurs, R. Gosens, Groningen, Netherlands, p.A5806**
- Facilitator: J.A. Hirota, PhD, Vancouver, Canada
- P57 Secreted Frizzled-Related Protein-1 Potentiates the Inflammatory Response of Allergic Asthma/E. Arteaga-Solis, J.M. D'Armiento, J. Sonett, New York, NY, p.A5807**
- P58 Expression of Th1 Cytokines Are Increased in Adolescent Mice with Steroid Resistant Allergic Airway Inflammation/R.D. Britt, M. Thompson, C.M. Pabelick, Y.S. Prakash, Rochester, MN, p.A5808**
- P59 BDNF-TrkB Signaling in a Mouse Model of Allergic Asthma/M. Thompson, R.D. Britt, S.A. Wicher, L.J. Manlove, C.M. Pabelick, Y.S. Prakash, Rochester, MN, p.A5809**
- P60 MicroRNA-25 Modulates Proliferative Signaling Via the Mammalian Target of Rapamycin Pathway in Asthmatic Airway Smooth Muscle Cells In Vitro/M.A. Hernandez, M.A. Ba, K. Hernandez, E. Hernandez, M. Mendoza, J. Evasovic, C.A. Singer, Reno, NV, p.A5810**
- P61 TNF α Induces Endoplasmic Reticulum Stress Through Reactive Oxygen Species Generation in Human Airway Smooth Muscle Cells/P. Delmotte, J. Yap, N. Marin Mathieu, Y.S. Prakash, G.C. Sieck, Rochester, MN, p.A5811**
- P62 The Role of Glucocorticoid Inducible Transcriptional Repressor PLZF in the Airway Epithelium/A. Stewart, D. Prodanovic, S.Y. Langenbach, C. Keenan, Parkville, Australia, p.A5812**
- P63 Epithelial Cell Injury Causes Unjamming of the Cell Layer/M.J. O'Sullivan, J. Mitchel, C. Rhodes, Z. Nagel, J.-A. Park, Boston, MA, p.A5813**
- P64 Heterogeneity of Human Sinonasal Epithelial Basal Cells/S. Khalil, N. Gour, S. Lajoie, A.P. Lane, Baltimore, MD, p.A5814**
- P65 Respiratory Syncytial Virus Infection Alters the Expression and Distribution of Airway Epithelial Cell Tight Junctions/F. Rezaee, C.C. Smallcombe, D. Linfield, T.J. Harford, A.I. Ivanov, G. Piedimonte, Cleveland, OH, p.A5815**
- P66 An Enriched Culture Medium Helps Preserve Airway Contractility in Precision-Cut Lung Slices/Y. Bai, S. Ram-Mohan, C. Martinez, R.M. Molina, J.D. Brain, R. Krishnan, X. Ai, Boston, MA, p.A5816**

Facilitator: T.S. Hallstrand, MD, MPH, Seattle, WA

- P67 Eosinophils Increase Reflex Bronchoconstriction by Stimulating Airway Sensory Nerve Growth/M.G. Drake, E.D. Blum, G.D. Scott, K.M. Lebold, Z. Nie, A.D. Fryer, R.W. Costello, D.B. Jacoby, Portland, OR, p.A5817**
- P68 Sputum Eosinophils, Neutrophils, Bronchoconstriction Following Inhaled Allergen/C. Munoz, K.J. Killian, G.M. Gauvreau, P. O'Byrne, Hamilton, Canada, p.A5818**
- P69 Pulmonary Inflammation, but Not Bronchoconstriction, Increases Markers of Cardiovascular Risk in Asthma/L. Moore, A.R. Brotto, K. Kapoor, M. Bhutani, E.Y. Wong, M.K. Stickland, Edmonton, Canada, p.A5819**
- P70 Whole Genome Sequencing to Identify Novel Genetic Variation and Gene-By-Air Pollution Interactions that Influence Lung Function in Minority Children/A.C. Mak, M.J. White, K.L. Keys, J.R. Liberto, S. Huntsman, D. Hu, C. Eng, S.S. Oh, M.A. Seibold, E.G. Burchard, San Francisco, CA, p.A5820**
- P71 Serological Markers of Intracellular Respiratory Pathogens (Mycoplasma Pneumoniae, Chlamydomphila Pneumoniae) in Children with Different Asthma Control Levels/S. Tereshchenko, M. Shubina, I. Novitckii, Krasnoyarsk, Russian Federation, p.A5821**
- P72 Inflammation and VEF1 Decline of Asthmatic Patients Followed for 10 Years/A.L.L. Godoy Fernandes, C.F. Farias, M. Amorim, M. Dracoulakis, L.B. Caetano, Sao Paulo, Brazil, p.A5822**
- P73 Wogonin Attenuates Nasal Polyp Formation by Inducing Eosinophil Apoptosis Through HIF-1 α and Survivin Suppression/R. Khalmuratova, J.-H. Mo, H.-W. Shin, Seoul, Korea, Republic of, p.A5823**
- P74 Effects of Bronchial Thermoplasty on Pathological Changes in Airways of Patients with Severe Asthma/T. Ichikawa, A.L. Panariti, S. Audusseau, A.K. Mogas, R. Olivenstein, J. Chakir, C. Baglole, D.H. Eidelman, M. Ichinose, Q. Hamid, Sendai, Japan, p.A5824**
- P75 Cell Type Specific Activation of Heat Shock Proteins and Inhibition of Anti-Apoptotic Proteins May Explain the Beneficial Long Term Effect of Bronchial Thermoplasty/L. Fang, M. Tamm, M. Roth, D. Stolz, Basel, Switzerland, p.A5825**
- P76 Heparin-Binding EGF-Like Growth Factor Modulates the Bidirectional Activation of CD4⁺ T Cells and Dendritic Cells Independently of the Epidermal Growth Factor Receptor/M. Chen, S. Farahnak, J.G. Martin, Montreal, Canada, p.A5826**

THEMATIC POSTER SESSION

C75 LUNG MEASUREMENT: NOVEL METHODS AND TECHNIQUES

9:15 a.m. - 4:15 p.m. **SAN DIEGO CONVENTION CENTER**

Area D (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: M. Ochs, MD, Hannover, Germany

- P331 Estimation of Absolute Number of Alveolar Epithelial Type 2 Cells: A Comparison Between Flow Cytometry and Stereology/G. Dzhuraev, J.A. Rodríguez-Castillo, J. Ruiz Camp, C. Mühlfeld, W. Seeger, R.E. Morty, Bad Nauheim, Germany, p.A5827**
- P332 The Role of Rapid On Site Cytology Evaluation in Diagnostic Interference Pulmonology/W. Jin, Hangzhou, China, p.A5828**
- P333 Improved Respiratory Cell Volatile Metabolite Detection Using a Novel Collection System/M. Schivo, M.S. Yamaguchi, M.M. McCartney, A.L. Linderholm, S.E. Ebeler, C.E. Davis, Sacramento, CA, p.A5829**
- P334 Fluid-Elastic Bistability in Pulmonary Alveolar Edema/M.M. Mellenthin, R.K. Albert, K.L. Hamlington, J.H.T. Bates, B.J. Smith, Aurora, CO, p.A5830**
- P335 Observing Pulmonary Gas Transport Processes in a Rabbit Model Using Hyperpolarized Xenon-129 MRI/K. Ruppert, H. Hamedani, F. Amzajerdian, Y. Xin, I.F. Duncan, H. Profka, S. Siddiqui, M. Pourfathi, S. Kadlecck, R.R. Rizi, Philadelphia, PA, p.A5831**
- P336 Proton MRI to Measure Lung Ventilation: Comparison with Aerosolized Microsphere Measurements in a Porcine Model/R.J. Theilmann, E.T. Geier, M. Krueger, A.R. Elliott, W. Lamm, C.J. Darquenne, A.T. Niese, S.R. Hopkins, R.B. Buxton, M. Scadeng, D. Dubowitz, A. Asadi, R.C. Sá, G.K. Prisk, R.W. Glenny, San Diego, CA, p.A5832**
- P337 Alveolo-Capillary Membrane Thickness Estimate Based on Lung Surface and Carbon Monoxide Specific Conductance Measurements/J.-B. Martinot, B. Melki, B. Semin, B. Maury, H. Guenard, Namur, Belgium, p.A5833**

Facilitator: D.M. Vasilescu, PhD, Vancouver, Canada

- P338 Efficiency of Nebulized Delivery to Alveolus in Isolated Lungs/T. Nguyen, C.E. Perlman, Hoboken, NJ, p.A5834**
- P339 High-Resolution Time-Resolved Phase-Contrast Synchrotron CT for Mapping Cardiac-Induced Lung Motion/S. Bayat, L. Fardin, L. Broche, G. Lovric, A.S. Larsson, A. Bravin, Grenoble, France, p.A5835**
- P340 Persistent Airflow Limitation, Lung Elastic Recoil and Inflammation in Older Non-Smokers with Asthma/K. Tonga, C.S. Farah, C. Thamrin, F. Tang, J. Santos, P. Sharma, B. Oliver, G. King, Sydney, Australia, p.A5836**
- P341 Modelling Apparent Diffusivity Within Lung Acinus in Health and Disease/H. Kumar, K. Clampitt, G. Thiranjia Babarenda, M.H. Tawhai, A.R. Clark, Auckland, New Zealand, p.A5837**
- P342 Aerosol Dosimetry in Asthmatic Airways: An In Silico Modeling Pilot Study/K. Poorbahrami, S.B. Fain, D. Mummy, J.M. Oakes, Boston, MA, p.A5838**
- P343 Fluid Challenge Induces Transient Airway Wall Edema Visualized Via Optical Coherence Tomography/J. Thiboutot, W. Scott, H. Park, X. Li, L.B. Yarmus, W. Mitzner, R.H. Brown, Baltimore, MD, p.A5839**
- P344 Pin-Point Spirometry (Local PFT): A Case Study/D. Wenger, S.E. Dubsy, A. Fouras, C.R. Samarage, Melbourne, Australia, p.A5840**

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

P345 Diffusion Capacity of Carbon Monoxide (DLCO) Is Not Related to Diffusion in the Alveolar Membrane but an Index of Effective Pulmonary Blood Flow Rate: A Theoretical Study/H. Kitaoka, Tokyo, Japan, p.A5841

Facilitator: J. Budde, MD, MPH, New York, NY

P346 Peak Oxygen Consumption to Watt Relationship ($\Delta V_{O_2}/\Delta W$): Defining Normal and Short-Term Repeatability/T. DeCato, M.J. Hegewald, Murray, UT, p.A5842

P347 An Explorative Approach to Quantify the Impact of Chest Compression on Lung Parenchyma Using Thiel Cadavers/C. Dulude, A. Labarre, A. Nayouf, S. Delisle, D. Savary, P. Ouellet, J.-C.M. Richard, E. Charbonney, G. Bronchti, Trois-Rivières, Canada, p.A5843

P348 Effect of Breath Hold on Prospective Repeatability of Caliper Quantitative CT Analysis/R. Clay, B.J. Bartholmai, R. Karwoski, F. Maldonado, S. Rajagopalan, T. Peikert, Rochester, MN, p.A5844

P349 Postural and Daily Variations in the Single-Breath Diffusion Capacity of the Lungs for Carbon Monoxide/M. Gronkvist, M. LaPelusa, M. Gennser, C.A. Machado-Moreira, Stockholm, Sweden, p.A5845

P350 The Prevalence and Characterization of the Nonspecific Pulmonary Function Pattern at a Large Urban Medical Center/C. Murphy, D. Fein, T.K. Aldrich, S.A. Nachman, C. King, New York, NY, p.A5846

P351 A New Noninvasive Method of Measuring Pulmonary Gas Exchange in Patients with Lung Disease/J.B. West, D.L. Wang, G.K. Prisk, La Jolla, CA, p.A5847

P352 Reference Values for Pulmonary Function Tests in Healthy Indian Adults/S. Sinha, S. Jain, S.K. Sharma, New Delhi, India, p.A5848

Facilitator: D. Kinose, MD, PhD, Kyoto, Japan

P353 Evaluate Respiratory Complications in Exhaled Fraction of FeNO from Patients Submitted to Cardiac Surgery, Abdominal Surgery and Healthy Volunteers/L. Amaral, D. Vento, C. Bottura, H. Chagas, B. Santos, A. Rodrigues, Ribeirao Preto, Brazil, p.A5849

P354 Reference Values for Spirometry in 3 to 12 Year-Old Tuscan Children/E. Lombardi, C. Calogero, G. Fenu, G. Giannini, M. Bacciarini, P. Del Greco, C. Pizzetti, Florence, Italy, p.A5850

P355 Quantitative Computed Tomographic Analysis of the Aging Lung in CALIPER/R. Clay, B.J. Bartholmai, F. Foley, R. Karwoski, F. Maldonado, S. Rajagopalan, T. Peikert, Rochester, MN, p.A5851

P356 Effects of Electromechanical Techniques Over Sheep Tracheal Tissue: An Ex-Vivo Pilot Study/A. de Lima, B. Vidal, F. Kheir, P.A. Vanderlaan, S.P. Gangadharan, A. Majid, Boston, MA, p.A5852

P357 Assessing Regional Lung Function Through Gas-Phase Saturation Prior to Hyperpolarized Xenon-129 Dissolved-Phase MRI/K. Ruppert, H. Hamedani, A. Faraz, L. Loza, Y. Xin, I.F. Duncan, P. Harilla, S. Siddiqui, M. Pourfathi, S. Kadlecsek, R.R. Rizi, Philadelphia, PA, p.A5853

P358 Comparison of Pulmonary CT Density Analysis Between Two Leading Software Programs/D. Crossley, S.M. Humphries, R.A. Stockley, A.M. Turner, Birmingham, United Kingdom, p.A5854

P359 Use of Dissolved-Phase Xe-129 Imaging to Measure Gas Uptake and Distribution in the Cardiopulmonary System/L. Loza, S. Kadlecsek, M. Pourfathi, K. Ruppert, H. Hamedani, S. Siddiqui, Y. Xin, F. Amzajerdian, I. Duncan, R.R. Rizi, Philadelphia, PA, p.A5855

P360 Advanced Exhaled Breath Aerosol (EBA) Collection Using Cryogenic Impaction/D.K. Milton, S. Youssefi, F.P. Gomes, C. Fenselau, College Park, MD, p.A5856

P361 Significance of Isolated Diffusing Capacity Abnormalities (DLCO) in Patients with Normal Pulmonary Function Tests (PFT)/J.A. Kileci, A. Miller, New York, NY, p.A5857

THEMATIC POSTER SESSION

C76 CHEST WALL, RESPIRATORY MUSCLES: NEURAL AND VENTILATORY CONTROL

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area D (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: K.I. Berger, MD, New York, NY

P363 Electrode Positioning During Electrical Stimulation of the Expiratory Muscles/D. Colon Hidalgo, F.A. Laghi, A. McLachlan, D. Djondo, G.M. Pellegrino, G.F. Sferrazza Papa, M.J. Tobin, H.S. Shaikh, Hines, IL, p.A5858

P364 Diaphragmatic Mobility Measurement in Patients with Burn Injury on Chest and Neck/S.Y. Lee, S. Joo, Bucheon-si, Korea, Republic of, p.A5859

P365 Excision of the Xiphoid Process for Chronic Pain: Patient Characteristics and Results/A. Swarup, J.D. Phillips, D.J. Finley, T.M. Millington, Lebanon, NH, p.A5860

P366 Bilateral Diaphragmatic Paresis Secondary to Brachial Neuritis: Trying to Map an Uncharted Sea/P. Grunstein, R. Banka, A.V. Kamath, Norwich, United Kingdom, p.A5861

P367 Respiratory Drive During Arm and Leg Cycling in Adults with Motor Incomplete Spinal Cord Injury/K.S. Alwadeai, G.S. Panza, J.E. Herrick, Fairfax, VA, p.A5862

P368 Intercostal Muscle Ultrasound Activity: A Feasibility and Physiological Study in Mechanically Ventilated Patients/M. Dres, B.-P. Dube, E.C. Goligher, S. Vorona, S. Demiri, L.J. Brochard, T. Similowski, A. Demoule, Paris, France, p.A5863

P369 Clinical Study of Diaphragmatic Ultrasonography in Assessing Respiratory Function in Children with Neuromuscular Disorders/Q. Yu, H. Xiong, C. Zhang, P. Jia, C. Que, Beijing, China, p.A5864

P370 **Effect of Idebenone on Respiratory Function Across Various Subgroups in Patients with Duchenne Muscular Dystrophy (DMD)**/J. Karafilidis, H. Mayer, C. Rummey, G. Buyse, Burlington, MA, p.A5865

Facilitator: M.G. Drake, MD, Portland, OR

P371 **Favorable Outcomes in Non-Terminal Ventilatory Weaning in Patients with Amyotrophic Lateral Sclerosis Respiratory Failure**/T.-E.-F.R. Hassam, E. Ratner, G. Goldish, K.M. Kunisaki, Minneapolis, MN, p.A5866

P372 **Evaluation of Pulmonary Mechanics and Carbon Dioxide Retention Risk in Non Obstructed Obese Patients from a Sample Population in Northwest Ohio**/A.S. Flora, H. Simo, A. Baugh, M.S. Khan, D. Sachdev, C. Oostra, D.-A. Hernandez, Toledo, OH, p.A5867

P373 **Effects of Phrenic Nerve Transfer for Traumatic Brachial Plexus Injury on Respiratory Function - A Single Centre Experience**/M. Casey, C. O'Donnell, R. Dolan, K. Cronin, S.P. Gaine, Dublin, Ireland, p.A5868

P374 **The Natural History of Declining Pulmonary Function in Children with Duchenne Muscular Dystrophy**/A.L. Withers, A.C. Wilson, M. Buu, C.E. Milla, J.M. Zirbes, G.L. Hall, Subiaco, Australia, p.A5869

P375 **Correlation Between Diaphragm Thickening Fraction and Electrical Activity**/M. Dres, F. Madotto, D. Junhasavasdikul, I.G. Telias, D.L. Grieco, L.F. Damiani, T. Piraino, T. Pham, L. Melo, L. Chen, L.M.A. Heunks, C.A. Sinderby, L.J. Brochard, Toronto, Canada, p.A5870

P376 **Skeletal Muscle Specific Calpastatin Overexpression Ameliorates Reductions in Diaphragm Strength and Endurance with Aging**/E. Schroder, L. Wang, G.S. Supinski, L.A.P. Callahan, Lexington, KY, p.A5871

P377 **Respiratory Changes Associated with Senescence and Stress in Non-Human Primates**/P. Sales de Campos, K. Kagiya, H. Hibino, K. Fukasawa, O. Baba, Y. Kumei, J.L. Lopes Zeredo, Brasilia, Brazil, p.A5872

P378 **Secondary Ventilator Induced Diaphragmatic Dysfunction After Extubation**/B. Jung, H. Dridi, A. Daurat, J. Moreau, S. Matecki, A. Lacampagne, S. Jaber, Montpellier, France, p.A5873

Facilitator: D.C. Files, MD, Winston-Salem, NC

P379 **Reliability of Inspiratory Flow Reserve (IFR) Endpoints and Robustness of Longitudinal Analyses Assessing the Effect of Idebenone on IFR in Patients with Duchenne Muscular Dystrophy (DMD)**/J. Karafilidis, H. Mayer, M. Leinonen, G. Buyse, Burlington, MA, p.A5874

P380 **Diagnostic Differences in Work of Breathing (WOB) Indices and Respiratory Breathing Patterns in Healthy and Duchenne Muscular Dystrophy (DMD) Children**/T. Shaffer, L. Ryan, T. Rahman, A. Strang, R. Heinle, Wilmington, DE, p.A5875

P381 **Postural Assessment of Patients with COPD: A Look at Muscle Strength, Shoulder Protraction and Body Center of Gravity**/D.C. de Abreu, K. Maynard da Silva, Y.R. De Souza, B. Figueira, G. Avolio, M. Figueiredo, R. Rufino, C.H. Costa, Rio de Janeiro, Brazil, p.A5876

P382 **The Effect of Altering Breathing Frequency on Maximum Voluntary Ventilation**/R.G. Buhr, B.A. Dolezal, N. Hsu, M.J. Flynn, I.Z. Barjaktarevic, C.B. Cooper, Los Angeles, CA, p.A5877

P383 **Surface Electromyogram Analysis of Spontaneous Breathing**/A. Pomprapa, T. Menden, M. Lueken, H. Ivanov, J.P. Batista, C. Bollheimer, S. Leonhardt, Aachen, Germany, p.A5878

P384 **Effect of Lung Volumes on Esophageal Pressure and Diaphragm EMG**/H. Qin, S. Wu, Y. Wang, Y. Luo, Guangzhou, China, p.A5879

P385 **A Single Centre 6 Year Audit of Diaphragm Dysfunction**/M.T. Naughton, J. Taverner, L. Fuller, G.I. Snell, M. Hew, Melbourne, Australia, p.A5880

P386 **Optoelectronic Plethysmography Used to Capture Improvements in Exercise Ventilatory Mechanics Following 3-D Printed Sternal Implant**/A.M. Layton, D. Swinarski, J. Port, B.M. Thomashow, W.A. Bulman, New York, NY, p.A5881

THEMATIC POSTER SESSION

C77 PREDICTORS OF SLEEP DISORDERED BREATHING AND RESPONSE TO TREATMENT

9:15 a.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Area H (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion

12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: J.-L. Pepin, MD, PhD, Grenoble, France

P598 **Body Composition Can Predict Changes in Apnea/Hypopnea Index and Sleepiness in Patients Submitted to Bariatric Surgery**/D. Villaca, L. Napolis, R. Santos, A.F. Hora, L.R. Bittencourt, S. Tufik, L.E. Nery, S.M. Togeiro, Sao Paulo, Brazil, p.A5882

P599 **Spinal Cord Injury Presence but Not Injury Level or Severity Is Associated with Sleep Apnea Severity in a Large Cohort Study**/W.C.-N. Auyeung, J.Q. Ho, S. Koneti, J.-E.C. Holty, Palo Alto, CA, p.A5883

P960 **Different Relations Between Sleep Stage, Body Position and Respiratory Event in Positional and Non-Positional Obstructive Sleep Apnea**/R. Zhang, M. Wang, Y. Wang, Z. Liang, Chengdu, China, p.A5884

P961 **Influence of Obesity on Severity of Sleep Apnea and CPAP Pressure Requirement**/A. Aiyer, S.R. Surani, A. Khan, Corpus Christi, TX, p.A5885

P962 **Cerebrovascular Responsiveness in Older Adults with Sleep Disordered Breathing**/S. Chowdhuri, R. Rastogi, B.J. Morgan, M.S. Badr, R. Williams, Detroit, MI, p.A5886

P963 **Duration of Hypoxemia and Severity of OSA Are Not Substantially Impacted by Chronic Exposure to Traffic-Related Air Pollution in Patients with Obstructive Sleep Apnea**/C. Laratta, C. Carlsten, M. Brauer, A.J. Hirsch Allen, N. Fox, B.U. Peres, N. Ayas, Edmonton, Canada, p.A5887

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- P964** **Sleep-Related Breathing Disorders Are Not Associated with Elevated Daytime Sleepiness in Patients with Chronic Obstructive Pulmonary Disease and/or Systolic Heart Failure/M.** Trembl, J.-L. Pepin, S.-D. Herkenrath, M. Arzt, T. Penzel, C. Schöbel, I. Fietze, F. Sert Kuniyoshi, G.W. Lotz, V. Wissmueller, M. Hamerle, W.J. Randerath, Solingen, Germany, p.A5888
- P965** **Abdominal Muscle Fat Infiltration and OSA Pathogenesis/G.** D'Angelo, P. Genta, A. Mello, Sao Paulo, Brazil, p.A5889
- Facilitator:** R. Bhattacharjee, MD, San Diego, CA
- P966** **Association of REM and Non REM AHI with OSA Severity and Sleep Stage Duration/O.** Tahir, M. Ehtisham, P. Koo, New Haven, CT, p.A5890
- P967** **Effect of Electrical Stimulation of the Calf Muscle on Rostral Fluid Shift and Snoring/D.** Vena, G. Fernie, M. Popovic, H. Alshaer, A. Yadollahi, Toronto, Canada, p.A5891
- P968** **Prediction of Outcome with Oral Appliance Therapy for Obstructive Sleep Apnea Using a Feedback Controlled Mandibular Positioner: Validation on a New Population of Obstructive Sleep Apneics/J.E.** Remmers, E.V. Mosca, Z. Topor, J. Grosse, S. Bruehlmann, S.A. Zareian Jahromi, Calgary, Canada, p.A5892
- P969** **Melatonin Increases Sleep Consolidation in Untreated OSA Patients/N.L.** Deacon, E. Smales, D. Gilbertson, N.-O. Bosompra, P.N. DeYoung, J.E. Orr, A. Malhotra, San Diego, CA, p.A5893
- P970** **Influence of the Auto-Titrating Continuous Positive Airway Pressure Device Adjusted Pressures on the Evaluation of the Residual Apnea-Hypopnea Index and the 90th Percentile Used for Titrating the Therapeutic Pressure on Obstructive Sleep Apnea/C.I.R.** Santos, S. Thamilis Barbosa Pessoa Ferreira, M. Cavalcanti Pinho, H. de Souza Holanda, R. Marques Moreira, L. Barbosa de Farias Costa, C. Regina da Silva Araújo, L. Bouwman Sayão, D. Cristina Silva Climaco, A.M. Jaguaribe de Lima, T. Neves Santos Silva, Recife, Brazil, p.A5894
- P971** **Pilot Study of a Newly Developed Expiratory Positive Airway Pressure Device in Obstructive Sleep Apnea/I.** Dralyuk, M.A. Tanios, I. Randhawa, E. Nussbaum, Long Beach, CA, p.A5895
- P972** **A Review of Obstructive Sleep Apnea in Relation to the Associated Biomarkers and the Impact of CPAP Treatment on Them/M.** Protas, D. Omer, D. Omer, I. Murray, Z. Gulam, C. Ogedegbe, H. Ashtyani, Saint Georges, Grenada, p.A5896
- Facilitator:** R.C. Stansbury, MD, Morgantown, WV
- P973** **Serum YKL-40 Level Is Correlated with Disease Severity in Patients with Obstructive Sleep Apnea Syndrome: A Meta-Analysis/S.** Liu, M. Bai, X. Tong, X. Yang, D. Wang, H. Fan, Chengdu, China, p.A5897
- P974** **Contribution of Neck Fat to Obstructive Sleep Apnea in Obese Adolescents/C.M.** Cielo, R.J. Schwab, B. Keenan, C.L. Marcus, Philadelphia, PA, p.A5898
- P975** **Differential Effect of Snoring and Obstructive Sleep Apnea on Sleep Structure and Sleepiness/K.E.** Macarthur, C.M. Ryan, T.D. Bradley, H. Alshaer, Toronto, Canada, p.A5899
- P976** **Mandibular Advancement Therapy Does Not Reduce Inflammatory and Metabolic Biomarkers in Patients with Severe Obstructive Sleep Apnea: A Randomized Controlled Trial/W.** Trzepizur, S. Recoquillon, B. Vielle, V. Bironneau, F. Chouet-Girard, S. Launois, N. Meslier, J.-C. Meurice, X.-L. Nguyen, A. Paris, P. Priou, R. Tamisier, F. Goupil, B. Fleury, J.-L. Pepin, F. Gagnadoux, Angers, France, p.A7776
- P977** **Synergistic Co-Activation of Lingual Protrusors and Retractors Is Required to Stabilize the Upper Airway During Sleep/T.A.** Fleury Curado, T. Otvos, T. Klopfer, L.U. Sennes, L.V. Pham, V.Y. Polotsky, A.R. Schwartz, Baltimore, MD, p.A7777
- P978** **Adherence to Continuous Positive Airway Pressure in World Trade Center Responders with Obstructive Sleep Apnea. Role of Nasal Pathology/J.J.** Sunderram, S.-E. Lu, H. Wang, A. Twumasi, A. Perez, K. Black, C. Nicholas, H. Sanders, J.A. Carson, I. Udasin, D.J. Harrison, N. Chitkara, D.M. Rapoport, I.A. Ayappa, Princeton Junction, NJ, p.A7778
- P979** **The Use of Automatic Continuous Positive Airway Pressure (APAP) Therapy in Severe Obstructive Sleep Apnoea (OSA)/H.** Sivaramakrishnan, Y. Chung, G. Cossa, L. Laks, R. Brillante, Concord, Australia, p.A7779



ATS 2018

Where today's science meets tomorrow's care™

International Conference

San Diego, CA

Tuesday Mid-day, May 22

11:45 a.m. – 1:15 p.m

ATS PLENARY SESSION

SAN DIEGO CONVENTION CENTER
Room 6 A (Upper Level)

The ATS Plenary Session will feature a panel discussion on the topic: "Providing Health Care During Natural Disasters". The Plenary Session will also feature the introduction of the ATS slate of officers, the presentation of several Respiratory Health Awards, and remarks from ATS President **Marc Moss, MD** and ATS President-Elect **Polly Parsons, MD**.

The following awards will be presented:

Outstanding Educator:

Carey C. Thomson, MD, MPH, Boston, MA

Research Innovation and Translation Achievement Award:

Hector G. Ortega, MD, MSc, MBA, La Jolla, CA
Steve W. Yancey, MS, Research Triangle, NC

Outstanding Clinician:


William W. Walker, MD, Anderson, SC

BASIC • CLINICAL • TRANSLATIONAL

WORKSHOP

CME Credits Available: 1.5

WS5 CAREER DEVELOPMENT WORKSHOP: SWIMMING IN THE SEA OF BIG DATA FOR PULMONARY RESEARCH

 Registration Fee: \$75 (includes box lunch)
Attendance is limited. Pre-registration is required.

Assemblies on Respiratory Structure and Function; Allergy, Immunology and Inflammation; Clinical Problems; Critical Care; Environmental, Occupational and Population Health; Pulmonary Infections and Tuberculosis; Pediatrics; Pulmonary Circulation; Respiratory Cell and Molecular Biology; Sleep and Respiratory Neurobiology

11:45 a.m. - 1:15 p.m. **SAN DIEGO CONVENTION CENTER**
Room 9 (Upper Level)

Target Audience

Graduate students, Ph.D., M.D., postdoctoral / clinical fellows and faculty interested in developing research in "big data" from epidemiological, clinical or basic research datasets

Objectives

At the conclusion of this session, the participant will be able to:

- understand how big data relates specifically to pulmonary biomedical and basic science research;
- emphasize and discuss the role of collaborations for the success of any big data project;
- learn strategies and pitfalls when dealing with big data.

The participants will interact with faculty who are expert in collection, analysis and interpretation of big data and also with junior/senior scientists/clinicians that are just starting to work with big data. Interactive discussion will be promoted to address major questions for those who are starting a project or plan to write a research proposal.

Chairing: D.I. Kasahara, PhD, Boston, MA
J. Jaffar, PhD, Melbourne, Australia
G. Ijpma, PhD, Montreal, Canada

11:45 Entering Big Data

W.T. Gerthoffer, PhD, Reno, NV

11:55 So, Do You Think You Can Code?: Tools of Big Data

R. Knight, PhD, La Jolla, CA

12:05 Challenges Ahead

N. Cox, PhD, Nashville, TN

12:15 Case Reports: This Is How We Do It - Examples from the Experts

S.T. Weiss, MD, Boston, MA

12:25 Case Reports: This Is How We Do It - Examples from the Experts

N. Kaminski, MD, New Haven, CT

12:35 The Future: Where Are We Going From Here?


D.I. Kasahara, PhD, Boston, MA

CLINICAL

WORKSHOP

CME Credits Available: 1.5

WS6 BRONCHOSCOPIC APPROACH TO THE PERIPHERAL LUNG NODULE

 Registration Fee: \$75 (includes box lunch)
Attendance is limited. Pre-registration is required.

Assemblies on Thoracic Oncology; Clinical Problems

11:45 a.m. - 1:15 p.m. **SAN DIEGO CONVENTION CENTER**
Room 10 (Upper Level)

Target Audience

Broad audience appeal to providers including: general pulmonary physicians, advance bronchoscopists, interventional pulmonologist, thoracic surgeons, and trainees

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

Objectives

At the conclusion of this session, the participant will be able to:

- apply new knowledge on how to combine r-EBUS and navigation bronchoscopy to achieve improved yield when sampling peripheral nodules;
- evaluate peripheral nodules with new navigational systems;
- improve use of r-EBUS in assessing peripheral pulmonary nodules.

Lung cancer screening in highrisk population has been shown to effectively detect early lung cancer in the NLST trial. As such, United States Prevention Service Task Force has given a Grade B recommendation to annual low dose chest computed tomography scan for lung cancer screening. Since this development, there have been an increasing number of pulmonary nodules detected. The American College of Chest Physicians lung cancer guidelines recommended biopsies in patients who have moderate risk or patients who have high risk but desire tissue confirmation prior to resection. As a result, bronchoscopic approaches to reach peripheral lung nodule have become an integral part of the pulmonary practice. Development of navigational bronchoscopy and the use of radial EBUS probe has improved biopsy yield compared to conventional flexible bronchoscopy. Understanding the limitations and best applications of these tools will allow physicians to achieve better yield when diagnosing peripheral lung nodules.

Chairing: M.M. Wahidi, MBA, MD, Durham, NC
G.Z. Cheng, MD, PhD, Durham, NC

11:45 Current Approaches in Electromagnetic Navigation Bronchoscopy 1
M.M. Wahidi, MBA, MD, Durham, NC

12:00 The Role of Radial Endobronchial Ultrasound in Peripheral Bronchoscopy 1
A.C. Chen, MD, St. Louis, MO

12:15 Interactive Session: Learning from the Experts
G.Z. Cheng, MD, PhD, Durham, NC
A.C. Chen, MD, St. Louis, MO
M.M. Wahidi, MBA, MD, Durham, NC

This session and the International Conference are supported by an educational grant from Boston Scientific Corporation.

All CME sessions have been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) and are free of the control of commercial interests.

MEET THE PROFESSOR SEMINARS

CME Credits Available: 1

R Registration Fee: \$70.00 (includes box lunch.)
Attendance is limited. Pre-registration is required.

12:15 p.m. - 1:15 p.m. MARRIOTT MARQUIS SAN DIEGO MARINA

- MP601 PRIMARY IMMUNODEFICIENCY AND PULMONARY DISEASE**
A. Dosanjh, MD, San Diego, CA
Grand Ballroom 1 (North Tower, Lobby Level)
- MP602 REAL WORLD CHALLENGES IN THE DIAGNOSIS OF IPF**
A.M. Nambiar, MD, MSCR, San Antonio, TX
Grand Ballroom 2 (North Tower, Lobby Level)
- MP603 UPDATE ON THE MANAGEMENT OF EMPYEMA AND INFECTIOUS PLEURAL LOCULATION AND INTRAPLEURAL FIBRINOLYTIC THERAPY**

S. Idell, MD, PhD, Tyler, TX
Grand Ballroom 3 (North Tower, Lobby Level)

MP604 CF UPDATE FOR THE NON-CF PROVIDER
G. Allada, MD, Portland, OR
Grand Ballroom 4 (North Tower, Lobby Level)

MP605 CLINICOPATHOLOGIC CORRELATION OF AUTOIMMUNE DISORDERS-ASSOCIATED LUNG DISEASE
A.V. Arrossi, MD, Cleveland, OH
K.B. Highland, MD, Cleveland, OH
Presidio 1 (North Tower, Lobby Level)

MP606 UNDERSTANDING SLEEP IN THE ICU AND A PRACTICAL APPROACH TO IMPLEMENTING PROTOCOLS
M.A. Pisani, MD, MPH, New Haven, CT
Presidio 2 (North Tower, Lobby Level)

MP607 UNDERSTANDING VENTILATOR WAVEFORMS
H.L. Manning, MD, Lebanon, NH
Temecula 1-2 (North Tower, First Floor)

MP608 CONTROVERSIES IN BRONCHIECTASIS: A CASE BASED PRO/CON DISCUSSION
A.E. O'Donnell, MD, Washington, DC
G. Tino, MD, Philadelphia, PA
Temecula 3-4 (North Tower, First Floor)

MP609 CHRONIC COUGH IN CHILDREN: AN ALGORITHMIC APPROACH TO DIAGNOSIS
M.M. Weinberger, MD, San Diego, CA
Leucadia (South Tower, First Floor)

MP610 CHALLENGES IN THE DIAGNOSIS AND MANAGEMENT OF PULMONARY HYPERTENSION GROUPS 2 AND 3
R. Girgis, MD, Grand Rapids, MI
Point Loma (South Tower, First Floor)

MP611 PULMONARY REHABILITATION IN THE MOST SEVERE COPD PATIENTS
L. Vanfleteren, MD, PhD, Horn, Netherlands
Solana (South Tower, First Floor)

MP612 THE STEM CELL NICHE: APPLICATIONS IN PULMONARY DISEASES
T.L. Bonfield, PhD, Cleveland, OH
Balboa (South Tower, Third Floor)

MP613 RUNNING, SLEEPING, AND PREGNANT: UNDERSTANDING ASTHMA IN SPECIAL CIRCUMSTANCES
G.S. Skloot, MD, New York, NY
Mission Hills (South Tower, Third Floor)

MP614 DISCOVER THE HIDDEN GEMS OF HOME SLEEP TESTING
O.E. Burschtin, MD, New York, NY
Cardiff (South Tower, Third Floor)

MP615 TISSUE ACQUISITION, EXPANDED MOLECULAR AND IMMUNOLOGIC TESTING IN LUNG CANCER: WHAT THE CHEST PHYSICIAN NEEDS TO KNOW
J. Akulian, MD, MPH, Chapel Hill, NC
Del Mar (South Tower, Third Floor)

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

MEDICAL EDUCATION SEMINAR

CME Credits Available: 1

ME3 HOW DOCTORS THINK: DEFINING AND TEACHING CRITICAL THINKING IN CRITICAL CARE

Registration Fee: \$70 (includes box lunch)
Attendance is limited. Pre-registration is required.

12:15 p.m. - 1:15 p.m. **SAN DIEGO CONVENTION CENTER**

Room 2 (Upper Level)

Target Audience

Residents, fellows, and other members in training, as well as anyone who has teaching responsibilities, including nurses and respiratory therapists

Objectives

At the conclusion of this session, the participant will be able to:

- To define the importance of critical thinking in the fast paced, high acuity critical care environment and describe its effect on patient outcomes
- Create questions to ask learners that stimulate critical thinking
- Utilize concept mapping to foster critical thinking in the intensive care unit

This 60 minute session will begin with a brief overview and definition of critical thinking and cognitive science. Then tangible strategies for teaching critical thinking will be discussed with an emphasis on asking appropriate questions and utilizing concept mapping.

Speakers: M. Hayes, MD, Boston, MA
R. Schwartzstein, MD, Boston, MA
J. Richards, MD, MA, Boston, MA
W.G. Carlos, MD, MSCR, Indianapolis, IN

CLINICAL

THEMATIC SEMINAR SERIES

CME Credits Available: 1

TSS1 NEUROMUSCULAR RESPIRATORY FAILURE: PART 3

Registration Fee: \$140 for full series (includes box lunch)
Attendance is limited. Pre-registration is required.

This is part 3 of a 3-part series. Those registering for this seminar series will be registered for all 3 parts. The program for the full series is included with the Sunday, May 20, 12:15 p.m. program.

12:15 p.m. - 1:15 p.m. **MARRIOTT MARQUIS SAN DIEGO MARINA**

Palomar (South Tower, Third Floor)

Management of Respiratory Failure in ALS: The VA as a Model in Team Based Approach to Care

K.A. Provost, DO, PhD, Buffalo, NY

Advance Disease Management and Transitioning to Hospice

J.O. Benditt, MD, Seattle, WA



ATS 2018
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International Conference
San Diego, CA
Tuesday Afternoon, May 22

1:15 p.m. - 2:15 p.m.

VISIT THE EXHIBIT HALL

Take this opportunity between sessions to visit the Exhibit Hall to gain practical knowledge to advance care and research. Exhibitors will be on hand to provide information on pharmaceutical products, medical equipment, publications and research services.

CLINICAL

ADULT CLINICAL CORE CURRICULUM

CME Credits Available: 2

MOC Points Available: 2

CC4 CRITICAL CARE CLINICAL CORE CURRICULUM II

2:15 p.m. - 4:15 p.m. **SAN DIEGO CONVENTION CENTER**

Hall H (Ground Level)

Target Audience

Practicing internists, subspecialists, registered nurses and advanced practice nurses in pulmonary, critical care, and sleep medicine who work in a clinical setting and are currently engaged in maintenance of certification

Objectives

At the conclusion of this session, the participant will be able to:

- remain current with medical knowledge relevant to their practice in pulmonary, critical care, and sleep medicine;
- evaluate their understanding of key skills and content areas in pulmonary, critical care and sleep medicine, as well as receive feedback on their comprehension of a result of a pre-test/post-test comparison;
- support clinicians who are engaged in maintenance of certification activities by providing updates on subjects included in recertification requirements.

The ATS Clinical Core Curriculum Symposia focus on a 3-year content cycle of key medical content in the areas of Pulmonary, Critical Care, and Sleep Medicine. The topics are also aligned with corresponding MOC Medical Knowledge modules. This symposium is intended to assist clinicians with staying current with the growth of information relevant to their medical practice,

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as well as provide an opportunity to evaluate individual knowledge and skills while earning MOC Medical Knowledge points.

Chairing: J.I. McSparron, MD, Ann Arbor, MI
M.M. Hayes, MD, Boston, MA
A. Luks, MD, Seattle, WA

2:15 Infectious Diseases: CNS Infections
J. Town, MD, Seattle, WA

2:45 Infectious Diseases: Emerging Viral Infections
W.A. Fischer, MD, Chapel Hill, NC

3:15 Infectious Diseases: Empyema and Mediastinitis
L. Frye, MD, Chicago, IL

3:45 Infectious Diseases: Pneumonia CAP/HCAP/VAP
K. Hibbert, MD, Boston, MA

BEHAVIORAL • CLINICAL • TRANSLATIONAL

CLINICAL TOPICS IN PULMONARY MEDICINE

CME Credits Available: 2

C82 SHIFTING FOCUS: HOW TO STUDY LUNG HEALTH INSTEAD OF DISEASE

Assemblies on Clinical Problems; Allergy, Immunology and Inflammation; Behavioral Science and Health Services Research; Environmental, Occupational and Population Health; Pulmonary Circulation; Pulmonary Rehabilitation

2:15 p.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER
Ballroom 20 B-C (Upper Level)

Target Audience

Clinicians and clinical and translational researchers focused on lung health and prevention of lung disease

Objectives

At the conclusion of this session, the participant will be able to:

- apply how the presence of respiratory symptoms, even in the absence of disease, has implications for both respiratory and overall health outcomes;
- learn new findings about how novel chest imaging findings relate to lung health and respiratory outcomes;
- integrate the current understanding of lung health and its manifestations and consequences to better inform testable hypotheses that can be incorporated into new research studies targeting the prevention of chronic lung disease.

Historically, respiratory research has been highly focused on risk factors and treatment of established lung disease rather than true disease prevention. A central component of disease prevention is health promotion. We will emphasize recent findings that inform how we, as a respiratory community, can shift away from exclusively studying disease and instead develop studies of lung health. Presentations will use current evidence from a variety of observational cohorts which have and continue to publish state of the art work around concepts of lung health. The session will serve as an update and inventory of current evidence and a preliminary understanding of what a true chronic lung disease prevention research agenda ought to include.

Chairing: R. Kalhan, MD, MS, Chicago, IL
N.N. Hansel, MD, MPH, Baltimore, MD
M.T. Dransfield, MD, Birmingham, AL

2:15 Introduction
R. Kalhan, MD, MS, Chicago, IL

2:18 Lung Health Across the Lifespan: What Birth Cohorts Teach Us
M.R. Sears, MD, Hamilton, Canada

2:38 The Implications of Impaired Lung Health From Young Adulthood to Middle Age
G.R. Washko, MD, Boston, MA

2:58 Impaired Lung Health: Interstitial Changes in Healthy Populations
D.J. Lederer, MD, MS, New York, NY

3:18 Lung Health Cannot Be Defined by Normal Spirometry
M.K. Han, MD, MS, Ann Arbor, MI

3:38 Setting the Research Agenda for Lung Health in the 21st Century
J.P. Kiley, PhD, Bethesda, MD

3:58 General Discussion
R. Kalhan, MD, MS, Chicago, IL

CLINICAL

CLINICAL TOPICS IN PULMONARY MEDICINE

CME Credits Available: 2

MOC Points Available: 2

C83 PEDIATRIC CLINICAL CHEST ROUNDS

Assembly on Pediatrics

2:15 p.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER
Ballroom 20 D (Upper Level)

Target Audience

Members of the Pediatric Assembly who provide clinical care. Although this session is a favorite among trainees, there is broad appeal to all clinical providers.

Objectives

At the conclusion of this session, the participant will be able to:

- generate a broad differential diagnosis for challenging cases in pediatric pulmonary medicine;
- apply current diagnostic testing to the management of challenging cases in pediatric pulmonary medicine;
- discuss state of the art management of challenging pediatric pulmonary cases.

Pediatric Clinical Chest Rounds consists of 4 clinical cases selected from the case reports submitted to the Pediatrics Assembly and focuses on challenges in diagnosis and management. The format allows 4 trainees to highlight tough cases and 4 experts to discuss.

Chairing: J. Harrison, MBChB, MRCP, MRCPCH, Melbourne, Australia
J. Needleman, MD, Brooklyn, NY
A.G. Filbrun, MD, Ann Arbor, MI

- 2:15 A 16 Month Old with Breathlessness**
M. Vielkind, MD, Aurora, CO
Expert Discussant
M. Dovey MD, Pittsburgh, PA
- 2:45 A 16 Year Old with Cough and Fatigue**
L. Feld, MD, Manhasset, NY
Expert Discussant
T. Vece MD, Chapel Hill, NC
- 3:15 An 8 Month Old with Blue Spells**
S. Shanthikumar, MBBS, Parkville, Australia
Expert Discussant
S. Ward MD, Los Angeles, CA
- 3:45 A 15 Year Old with Weight Loss**
E.A. Dominguez Silveyra, MD, Mineola, NY
Expert Discussant
P. Stillwell MD, Aurora, CO

BEHAVIORAL • CLINICAL • TRANSLATIONAL

CRITICAL CARE TRACK

CME Credits Available: 2

MOC Points Available: 2

C84 MANAGING EARLY ACUTE HYPOXIC RESPIRATORY FAILURE

Assemblies on Critical Care; Behavioral Science and Health Services Research

2:15 p.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Ballroom 20 A (Upper Level)

Target Audience

Critical care clinicians, trainees, and researchers

Objectives

At the conclusion of this session, the participant will be able to:

- become aware of evidence base for HFNC and NIPPV in early AHRF;
- understand pros/cons of early versus later intubation and invasive mechanical ventilation;
- learn about current knowledge gaps in treating AHRF and preventing progression to ARDS.

Acute hypoxemic respiratory failure (AHRF) is a leading cause of ICU admission, morbidity, and mortality, yet most research focuses specifically on mechanically ventilated patients with ARDS. Are AHRF and ARDS really different clinical entities? Should our approach to treatment differ? In this session, experts will discuss and debate best practices for managing early AHRF. Speakers will address common management decisions faced by intensivists every day, such as when to use HFNC, when to consider NIPPV, and when to intubate patients with ARHF. They will also identify gaps in our knowledge and discuss future directions for research.

Chairing: H.C. Prescott, MD, MSci, Ann Arbor, MI
V. Liu, MD, MS, Oakland, CA
B.K. Patel, MD, Chicago, IL

- 2:15 Are AHRF and ARDS Different? What Is the Proof?**
T. Pham, MD, PhD, MPH, Toronto, Canada

- 2:30 High-Flow Nasal Cannula for All**
A.J. Walkey, MD, MSc, Boston, MA

- 2:45 Is There Still a Role for NIPPV?**
B.K. Patel, MD, Chicago, IL

- 3:00 Preventing Progression to ARDS**
M.N. Gong, MS, MD, Bronx, NY

- 3:15 PRO: Early Intubation**
L.J. Brochard, MD, Toronto, Canada

- 3:30 CON: Early Intubation**
J.P. Kress, MD, Chicago, IL

- 3:45 Early AHRF: Current Management and Future Directions**
B.T. Thompson, MD, Boston, MA

- 4:01 MOC Questions**

BASIC • TRANSLATIONAL

ANDREW M. TAGER MEMORIAL SYMPOSIUM

CME Credits Available: 2

C85 SCIENTIFIC BREAKTHROUGHS: CELL FUNCTION, FATE AND FITNESS: ROLE OF MITOCHONDRIA

Assemblies on Respiratory Cell and Molecular Biology; Allergy, Immunology and Inflammation; Critical Care; Pediatrics; Respiratory Structure and Function

2:15 p.m. - 4:15 p.m.

MARRIOTT MARQUIS SAN DIEGO MARINA

Pacific Ballroom 21 (North Tower, First Floor)

Target Audience

Basic and translational scientists and physician-scientists, Lung health researchers and providers, trainees, fellows, junior faculty, research scientists, and residents

Objectives

At the conclusion of this session, the participant will be able to:

- advance their understanding of basic and translational approaches for assessing mitochondrial function in disease and non-disease states;
- learn and understand the current research finding on how mitochondria are part of the pathogenesis of acute and chronic lung diseases;
- become familiar with experimental model systems, genetic, biochemical and imaging approaches that are being used to investigate mitochondrial function and signaling.

Mitochondria have traditionally been considered the “powerhouses” of the cell. Emerging data spanning diverse scientific disciplines have established the dynamic and pleiotropic role of mitochondria in cellular homeostasis, function, stress/injury, inflammation, senescence and repair responses. Our understanding of the maternally-inherited genetic programming of mitochondria, which possess a genome, proteome, and metabolome that are distinct from host cells, expands as mitochondrial-specific assays, imaging techniques and targeting become feasible. This session will highlight the critical physiologic and pathophysiologic roles of mitochondria in acute and chronic lung diseases as well as in systemic syndromes, such as sepsis and critical illness.

Chairing: A.M.K. Choi, MD, New York, NY
G. Shadel, PhD, La Jolla, CA

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- 2:15 Mitochondrial Oxidant and DNA Signaling in Lung Diseases**
G. Shadel, PhD, New Haven, CT
- 2:30 Mitochondrial 8-Oxoguanine DNA Glycosylase (mtogg1) Mitigates Asbestos-Induced Aec Mitophagy Defects, Mitochondrial DNA Damage, Apoptosis And Lung Fibrosis**
S. Kim, PhD, Chicago, IL
- 2:45 Caveolin1 Regulates Mitochondrial Homeostasis in the Alveolar Epithelium**
H. Shaghghi, PhD, Philadelphia, PA
- 3:10 Cyb5R3 an External Mitochondrial NADH-Dependent Reductase Confers Protection Against Lung Fibrosis**
M. Bueno, PhD, Pittsburgh, PA
- 3:15 Systemic Immune-Metabolic Deficiency in Tobacco and Biomass Smoke Exposed COPD Subjects**
A.R. Agarwal, MS, PhD, Pune, India
- 3:30 Pharmacologically Enhanced Mitochondrial DNA Repair Improves Performance of Ex Vivo Perfused Lungs from Brain-Dead Pigs**
D. Hall, MD, Gainesville, FL
- 3:45 Indolamine-2, 3-Dioxygenase in Myeloid-Derived Suppressor Cells Alters Mitochondrial Dynamics and Mediates Metabolic Reprogramming in the Tumor Microenvironment of Lung Cancer**
J. Deshane, PhD, Birmingham, AL
- 4:00 Mitochondria and Proteostasis**
K. Zhou, PhD, Novato, CA

BASIC**SCIENTIFIC SYMPOSIUM**

CME Credits Available: 2

C86 RISE AND ALIGN! INTEGRATING MULTI-OMICS TECHNOLOGIES

Assembly on Respiratory Cell and Molecular Biology

2:15 p.m. - 4:15 p.m. MARRIOTT MARQUIS SAN DIEGO MARINA

Pacific Ballroom 18-19 (North Tower, First Floor)

Target Audience

Investigators and clinicians engaged in big data omics-based research aimed at answering biological questions in lung health and disease

Objectives

At the conclusion of this session, the participant will be able to:

- use the vocabulary of multi-omics to discuss the technologies with colleagues at their home and collaborating institutions;
- appraise scientific literature on omics-based technologies;
- conceptually or technically execute integration of data obtained from diverse omics technologies.

The explosion of large data sets derived from high-throughput multi-omics technologies holds great promise for answering fundamental questions in lung health and disease. The integration of data sets generated by different technologies—such as combining epigenetic profiling with transcriptional

profiling—poses significant challenges. This session aims to provide a vocabulary to aid in discussion of multi-omics integration; engender familiarity with literature on multi-omics technologies; and concretize conceptual and technical approaches to integration of multi-omics-derived data sets in lung health and disease.

Chairing: B.D. Singer, MD, Chicago, IL
N. Kaminski, MD, New Haven, CT
G. Ligresti, PhD, Rochester, MN

2:15 Integrating Epigenomics and Phenomics
H.M. Boezen, PhD, Groningen, Netherlands

2:35 Integrating Metabolomics and Epigenomics
N.S. Chandel, PhD, Chicago, IL

3:05 Integrating Proteomics and Interactomics
D.S. Phelps, PhD, Hershey, PA

3:25 Integrating Transcriptomics and Epigenomics
K. Lingappan, MBBS, Houston, TX

3:45 Integrating Transcriptomics and Proteomics
O. Eickelberg, MD, Denver, CO

CLINICAL • TRANSLATIONAL**SCIENTIFIC SYMPOSIUM**

CME Credits Available: 2

C87 WHAT'S OLD IS NEW AGAIN: REPURPOSING APPROVED MEDICATIONS FOR NOVEL THERAPEUTICS IN PAH - EARLY CLINICAL STUDIES

Assemblies on Pulmonary Circulation; Clinical Problems

2:15 p.m. - 4:15 p.m. MARRIOTT MARQUIS SAN DIEGO MARINA

Pacific Ballroom 22 (North Tower, First Floor)

Target Audience

Those interested in pulmonary hypertension and basic/translational science professionals

Objectives

At the conclusion of this session, the participant will be able to:

- learn about novel pathways that are involved in the pathogenesis of pulmonary arterial hypertension and appreciate the limitations of the currently approved therapies for pulmonary arterial hypertension;
- familiarize novel therapeutic agents targeting the pulmonary vasculature and the right ventricle in pulmonary arterial hypertension that are in early phase 2 clinical trials;
- appreciate the potential for repurposing already FDA approved medications as novel treatment options for pulmonary arterial hypertension.

The goal of this session about be to discuss and highlight the early clinical study data for repurposing already approved medications for novel therapeutics targeting the pulmonary vasculature and right ventricle in PAH. As we continue to struggle with high costs of PAH-specific therapy and the significant lag in development of novel therapeutics, an attractive method moving forward would be to repurpose already approved medications as we could avoid the long delays for drug approval and proceed directly to clinical trials once there is

strong preclinical evidence that they may be effective. This strategy may help us attack PAH pathophysiology through distinct mechanisms than the currently approved therapies do which increases the likelihood of identifying new agents to treat this devastating disease.

Chairing: I.M. Lang, MD PhD, Vienna, Austria
K. Prins, MD PhD, Minneapolis, MN

2:15 My Patient Is on Triple Therapy but Still Symptomatic, What's Next?

Speaker To Be Announced

2:30 Metformin for End-Stage PAH (RV)

A. Hemnes, MD, Nashville, TN

2:45 Beta-Blockers for RV Dysfunction in PAH (RV)

T. Thenappan, MD, Minneapolis, MN

3:00 Anastrozole Reduces Estradiol Levels and Increases Walk Distance in PAH (Pulmonary Vasculature)

S.M. Kawut, MD, MS, Philadelphia, PA

3:15 Tacrolimus for End-Stage PAH

E.F. Spiekerkoetter, MD, Palo Alto, CA

3:30 Ubenimex in Patients With Pulmonary Arterial Hypertension

M.R. Nicolls, MD, Palo Alto, CA

This session and the International Conference are supported by educational grants from Actelion Pharmaceuticals US, Inc., Bayer US.

All CME sessions have been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) and are free of the control of commercial interests.

CLINICAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

Nursing Contact Hours Available: 2.4

C88 YES, YOUR PULMONARY PATIENT IS READY FOR PALLIATIVE CARE

Assemblies on Nursing; Behavioral Science and Health Services Research; Clinical Problems

2:15 p.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Room 30 A-B (Upper Level)

Target Audience

Clinicians from all professional backgrounds (MD, RN, APN, PA, SW, chaplain, pharmacist, respiratory therapist) who care for patients with serious illness

Objectives

At the conclusion of this session, the participant will be able to:

- list criteria for referral of outpatient pulmonary patients to palliative care;
- discuss evidence-based strategies for managing symptoms, disease-related distress, and improving quality of life for patients with chronic respiratory disease;
- describe challenges and solutions to managing an outpatient pulmonary-focused palliative care clinic.

Outpatient palliative care can provide welcome relief to patients who may live for many years with serious respiratory disease. The focus on relieving symptom burden, illness related distress, and improving quality of life complements disease directed treatment throughout the course of illness. Keynote presentations from two visionary thought leaders in pulmonary focused palliative care will bookcase brief presentations of innovative implementation strategies from clinician scientists who are working in outpatient pulmonary palliative care.

Chairing: D.M. Donesky, PhD, ANP-BC, San Francisco, CA
K.O. Lindell, PhD, RN, Pittsburgh, PA

2:15 A Patient's Perspective

C. Camacho, MA, LSW, Ashland, MA

2:20 Developing and Funding a Breathlessness Service in Prehistoric Times

S. Booth, MD, Cambridge, United Kingdom

2:55 Nurse-Led Palliative Care Interventions

L.F. Reinke, PhD, APRN, BC, Seattle, WA

3:15 Transitions Across the Continuum of Care: Lessons From ILD

A. Russell, MScN, London, United Kingdom

3:35 10 Tips for Setting Up a Multidisciplinary Breathlessness Clinic

M.M. Roberts, RN, Westmead, Australia

3:55 Palliative Care as a Bridge Between Pulmonary Rehabilitation, Critical Care, and Hospice

A.R. Stephens, MD, Aurora, CO

CLINICAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

C89 FUTURE RESPIRATORY HEALTH IN CHILDREN: CLIMATE CHANGE AND INCREASING WORLD POPULATION

Assemblies on Pediatrics; Environmental, Occupational and Population Health; Pulmonary Infections and Tuberculosis

2:15 p.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Room 6 C/F (Upper Level)

Target Audience

Pediatricians, public health providers and scientists, epidemiologists, population scientists, child health workers

Objectives

At the conclusion of this session, the participant will be able to:

- gain new findings on the relationships between climate change and respiratory child health;
- understand relationships between global environment, biodiversity and respiratory child health;
- consider assisting in implementing strategies to address the issues of world population and respiratory child health.

Arguably the greatest concern humans face over the next 100 years is how climate change, the deterioration of our planet's environment and increasing world population will affect the health and well-being of children. The greatest impacts are likely to be on respiratory health due to worsening air quality and increases in

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

respiratory infections. Current climate change initiatives will be futile if present population increases continue. This session will present the latest projections of relationships between climate change, environmental threats and increasing population how these will affect the future respiratory health of children. Advocacy strategies addressing these issues will be discussed.

Chairing: P.N. Le Souef, MD, MBBS, Perth, Australia

- 2:15 Current Projections of Climate Change and Respiratory Health in Children**
Speaker To Be Announced
- 2:40 100 Year Projection of Child Health Outcomes By Population, Region and Age**
C. Bradshaw, PhD, Adelaide, Australia
- 3:05 The Effects of Loss of Biodiversity on Children's Respiratory Health**
A. Annamalay, PhD, Perth, Australia
- 3:30 The Effect of Climate Change on Respiratory Disease in Developing Countries**
R.T. Stein, MD, Porto Alegre, Brazil
- 3:50 100 Year Projections of Future Child Respiratory Health: Environment and World Population**
P.N. Le Souef, MD, MBBS, Perth, Australia

BASIC

PUBLIC ADVISORY ROUNDTABLE SYMPOSIUM

CME Credits Available: 2

C90 SLEEP AND LUNG DISEASE: COMMON AND ILLICIT BED PARTNERS

Public Advisory Roundtable; Assemblies on Clinical Problems; Sleep and Respiratory Neurobiology

2:15 p.m. - 4:15 p.m. **SAN DIEGO CONVENTION CENTER**
Room 1 A-B (Upper Level)

Target Audience

Physicians, basic and translational scientists, clinical-investigators, registered nurses, advanced practice nurses, nurse practitioners, patient, and caregiver

Objectives

At the conclusion of this session, the participant will be able to:

- inform on the prevalence and clinical presentation of sleep apnea when another lung disease co-exists in the context of several prevalent respiratory diseases such as asthma, COPD and ILD;
- illustrate potential interactions and mutually reciprocal effects of sleep apnea treatment on the clinical course of lung diseases and vice-versa;
- emphasize the potential impact of poor quality sleep on underlying lung diseases manifestations and clinical course.

The growing recognition of sleep apnea by clinicians and health systems, has led to the realization that sleep apnea is a chronic and complex disease with a wide range of phenotypic manifestations and morbidities. Furthermore, it has prompted observations that it may co-occur in the context of other respiratory diseases, and that such concurrent presence of sleep apnea and a lung disease may mutually alter their clinical presentation and course, as well as modify the response to treatment. This session will explore the current state of the art in the context of sleep apnea

co-existing with other frequent lung diseases and identify potential clinical, research and educational opportunities in this relatively unexplored area.

Chairing: K. Connolly, BS, Danvers, MA
D. Gozal, MD, MBA, Chicago, IL

- 2:15 Annual PAR Awards Presentation**
K. Connolly, BS, Danvers, MA
- 2:25 Obstructive Sleep Apnea and Asthma in Kids: Bedtime Stories**
L. Kheirandish-Gozal, MD, MSc, Chicago, IL
- 2:45 Asthma and Obstructive Sleep Apnea in Adults**
M. Teodorescu, MD, MS, Madison, WI
- 3:05 COPD and Obstructive Sleep Apnea: Overlapping What?**
X. Soler, MD, PhD, San Diego, CA
- 3:25 Interstitial Lung Disease and Obstructive Sleep Apnea**
D.J. Lederer, MD, MS, New York, NY
- 3:45 Insomnia, Sleep Quality and Lung Disease Burden**
P.J. Strollo, MD, Pittsburgh, PA
- 4:05 Questions and Answers**
K. Connolly, BS, Danvers, MA

BASIC • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

C91 HUMAN LUNG DEVELOPMENT: NEW TOOLS AND THERAPEUTIC STRATEGIES

Assemblies on Respiratory Cell and Molecular Biology; Pediatrics

2:15 p.m. - 4:15 p.m. **SAN DIEGO CONVENTION CENTER**
Room 15 A-B (Mezzanine Level)

Target Audience

Basic scientists, clinicians, students and postdoctoral trainees

Objectives

At the conclusion of this session, the participant will be able to:

- gain knowledge in the use novel systems to model human lung development to accelerate mechanistic studies;
- learn new paradigms about temporal and spatial regulation of Wnt signaling in development and tissue homeostasis and approaches to study of developmental pathways;
- highlight new advances in stem cell therapeutics and clinical translation.

This session will present new approaches to study of human lung development, recent progress made in deciphering the signaling pathways and mechanisms underlying human lung development, and the therapeutic potential for stem cell therapies and corrective technologies.

Chairing: L.R. Young, MD, Nashville, TN
M. Koenigshoff, MD, PhD, Aurora, CO
G. Deutsch, MD, Seattle, WA

- 2:15 Lung Development Gone Awry**
G. Deutsch, MD, Seattle, WA

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- 2:35 Signaling Pathways Controlling Early Human Lung Development**
D. Al Alam, PhD, MS, Los Angeles, CA
- 2:55 The Age of the Fibroblast**
A.T. Perl, PhD, Cincinnati, OH
- 3:15 3D Modeling of Human Lung Development and Disease**
J. Sucre, MD, Nashville, TN
- 3:35 In Vitro Models to Study Human Lung Development, Disease, and Homeostasis**
J. Spence, PhD, Ann Arbor, MI
- 3:55 Unproven Stem Cell Interventions for Respiratory Diseases**
L. Ikonomou, PhD, Boston, MA

CLINICAL
SCIENTIFIC SYMPOSIUM
CME Credits Available: 2
MOC Points Available: 2

C92 DISEASE MODIFICATION IN COPD: ARE WE THERE YET?

Assemblies on Clinical Problems; Environmental, Occupational and Population Health; Drug/Device Discovery and Development Committee

2:15 p.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Room 33 A-C (Upper Level)

Target Audience

Health care professionals, patients and patient-support groups; clinicians and clinical investigators involved in translational and clinical research in both academic and industry settings

Objectives

At the conclusion of this session, the participant will be able to:

- understand parallels in disease progression in respiratory and other diseases;
- understand concepts of slowing disease progression and disease modification and the potential impact to patients with respiratory disease;
- learn the currently available science and the tools available to assess changes to respiratory physiology.

This session will provide a forward looking discussion around concepts of disease modification and future opportunities to change the course of chronic respiratory disease. It will bring forth new treatment paradigms that will ultimately impact the goals of therapy. There will be a review of the current landscape of disease progression and modification in respiratory medicine (e.g. IPF, ILDs, CF, A1T1-deficiency) and other therapeutic areas (e.g. RA, IBD), to identify potential parallels with chronic obstructive lung disease. Additionally, we will identify considerations required for conducting clinical research such as relevant clinical end-points (including technological approaches e.g. imaging) and molecules that may have the potential to modify the course of Respiratory disease.

Chairing: C. Reisner, MD, Morristown, NJ
F.C. Sciruba, MD, Pittsburgh, PA
M. Bafadhel, MD, Oxford, United Kingdom

2:15 What is Disease Modification in COPD? What Are the Potential Methods for Assessment?

M.K. Han, MD, MS, Ann Arbor, MI

- 2:32 Disease Modification in RA and IBD: Lessons Learned**
P. Lipsky, MD, Charlottesville, VA

- 2:49 What is Early COPD and Why Does It Matter?**
J.A. Wedzicha, MD, PhD, London, United Kingdom

- 3:06 Practical Considerations for Clinical Trial Design**
F.J. Martinez, MD, MS, New York, NY

- 3:23 Respiratory Disease Modification with Targeted Therapy: Is It Possible?**
G.P. Anderson, PhD, Parkville, Australia

- 3:40 Thinking Outside the Box**
B.R. Celli, MD, Boston, MA

- 3:57 Panel Questions and Answers**
C. Reisner, MD, Morristown, NJ

BEHAVIORAL • CLINICAL • TRANSLATIONAL
SCIENTIFIC SYMPOSIUM
CME Credits Available: 2
Nursing Contact Hours Available: 2.4

C93 ATS CLINICAL PRACTICE GUIDELINES: CLINICAL PRACTICE ON THE CUTTING EDGE

Assemblies on Behavioral Science and Health Services Research; Clinical Problems; Critical Care; Nursing; Pulmonary Rehabilitation; Quality Improvement and Implementation Committee; Documents Development and Implementation Committee

2:15 p.m. - 4:15 p.m.

SAN DIEGO CONVENTION CENTER

Room 32 A-B (Upper Level)

Target Audience

Physicians, registered nurses, advanced practice nurses, respiratory therapists, and others who care for adults who are mechanically ventilated, have acute respiratory distress syndrome (ARDS), or have an exacerbation of chronic obstructive pulmonary disease (COPD)

Objectives

At the conclusion of this session, the participant will be able to:

- describe how evidence is used to inform diagnostic and treatment recommendations;
- apply clinical recommendations from recently published guidelines in clinical practice, improving patient outcomes;
- obtain new strategies to prevent COPD exacerbations, to provide smoking cessation counseling in the context of low dose CT screening programs, to manage patients on non invasive mechanical ventilation, and to diagnose and treat patients with LAM.

This symposium will highlight guidelines and statements on COPD exacerbation, noninvasive ventilation, smoking cessation, lung cancer screening and lymphangioliomyomatosis (LAM). Speakers will describe the clinical recommendations formulated by the guideline panels, discuss the rationale for each, and critically review the evidence supporting each recommendation. Speakers will also describe how the guidelines provide the foundation for improving care. Speakers include the chairs of the panels that developed the guidelines.

- Chairing:** R.A. Dweik, MD, Cleveland, OH
R.C. Hyzy, MD, Ann Arbor, MI
C.C. Thomson, MPH, MD, Cambridge, MA
- 2:15 Welcome**
R.A. Dweik, MD, Cleveland, OH
- 2:20 Grading Strength of Recommendations and Quality of Evidence**
K.C. Wilson, MD, Boston, MA
- 2:30 Implementation of Clinical Practice Guidelines: How Can We Do Better?**
C.C. Thomson, MPH, MD, Cambridge, MA
- 2:50 Prevention of COPD Exacerbations**
M. Miravittles, MD, Barcelona, Spain
- 3:10 Smoking Cessation in Lung Cancer Screening**
H. Kathuria, MD, Boston, MA
- 3:30 Non-Invasive Mechanical Ventilation**
N.S. Hill, MD, Boston, MA
- 3:50 Diagnosis and Treatment of LAM**
N. Gupta, MD, Cincinnati, OH
- 4:10 Closing Remarks**
R.C. Hyzy, MD, Ann Arbor, MI

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MINI SYMPOSIUM

C94 HIGHLIGHTED HEALTH SERVICES RESEARCH IN CRITICAL CARE

2:15 p.m. - 4:15 p.m. **SAN DIEGO CONVENTION CENTER**
Room 14 A-B (Mezzanine Level)

Chairing: C.R. Cooke, MD, Ann Arbor, MI
M.P. Kerlin, MD, MS, Philadelphia, PA
A.J. Walkey, MD, MSc, Boston, MA

Oral Presentations

- 2:15 The Effects of Medicaid Expansion on Rates of Ambulatory Care-Sensitive ICU Admission/A.J. Admon, M.W. Sjoding, S.M. Lyon, T.J. Iwashyna, C.R. Cooke, Ann Arbor, MI, p.A5900**
- 2:30 The Medicaid Expansion and Health Insurance in Survivors of an Alcohol-Related Critical Illness: an Interrupted Time Series Analysis/B.J. Clark, P.D. Sottile, T.H. Kiser, E.L. Burnham, P.M. Ho, R.R. Allen, W. Vandivier, M. Moss, Aurora, CO, p.A5901**
- 2:45 National Trends in Intensive Care Unit Admissions Among Medicare Beneficiaries in the United States, 2007 - 2013/G.E. Weissman, M.P. Kerlin, N. Gabler, G.L. Anesi, R. Kohn, P.W. Groeneveld, S.D. Halpern, Philadelphia, PA, p.A5902**

- 3:00 The Impact of Bundled Sepsis Care on In-Hospital Mortality in a Statewide Cohort Study/I. Evans, G. Phillips, E. Alpern, D.C. Angus, M. Friedrich, N. Kissoon, S. Lemeshow, M.M. Levy, M.M. Parker, T. Kathleen, R.S. Watson, S.L. Weiss, J. Zimmerman, C.W. Seymour, Pittsburgh, PA, p.A5903**
- 3:15 A Novel Clinical Prediction Model for Noninvasive Ventilation Failure/M.S. Stefan, A. Priya, P.K. Lindenauer, J. Steingrub, N.S. Hill, P. Pekow, T. Lagu, W. Chong, Springfield, MA, p.A5904**
- 3:30 Too Much of a Good Thing?: Mechanical Ventilation Case-Volume and Outcomes/A. Mehta, A.J. Walkey, I.S. Douglas, Denver, CO, p.A5905**
- 3:45 Variability in Early Sedation and Analgesia Practices for Patients with Acute Respiratory Failure/S. Lokhandwala, E.S. Caldwell, T.L. Steel, N.J. Johnson, C.J. Orloski, C.D. Miller, M.N. Gong, B.R. Robinson, C.L. Hough, Seattle, WA, p.A5906**
- 4:00 Identifying States of Strain ("Risky States") in Intensive Care Units Associated with Preventable Patient Harm/J. Stevens, A. Law, L. Novack, V. Novack, P. Folcarelli, K. Sands, B. Landon, D.S. Talmor, Boston, MA, p.A5907**

MINI SYMPOSIUM

C95 PROGRESS WITH BIOMARKER DEVELOPMENT IN COPD

2:15 p.m. - 4:15 p.m. **SAN DIEGO CONVENTION CENTER**
Room 29 A-D (Upper Level)

Chairing: J.M. Bon, MD, MS, Pittsburgh, PA

Featured Speaker

- 2:15 Biomarker Development in COPD: The Promise and Challenges/S.I. Rennard, MD, Melbourne, United Kingdom**

Oral Presentations

- 2:30 Distinct Protein Expression Profiles Are Associated with Cross-Sectional Clinical Phenotypes and Disease Progression in Former and Current Smokers/Y. Zhang, M. Nouraie, X. Li, D. Chandra, J.K. Leader, R.P. Bowler, J.M. Bon, F.C. Sciruba, Pittsburgh, PA, p.A5908**
- 2:45 Large-Scale Plasma Proteome Analysis of COPD and Asthma: Significant Differences Between the Two Diseases and Identification of Novel Biological Clusters Within Each Disease/M. Suzuki, J.J. Cole, S. Konno, H. Makita, H. Kimura, M. Nishimura, R.A. Maciewicz, Sapporo, Japan, p.A5909**
- 3:00 Elastin Degradation Is Not Just Elastin Degradation: Serological Assessment of 3 Different Proteolytic Fragments of Elastin Predicts Mortality and Relates to Different Pathophysiologic Events in the Eclipse COPD Cohort/S. Ronnow, L. Langholm, M. Asser Karsdal, T. Manon-Jensen, R. Tal-Singer, B. Miller, J. Vestbo, J.M.B. Sand, D.J. Leeming, Herlev, Denmark, p.A5910**

- 3:15 Blood Eosinophil Levels in First Hospitalization for Acute Exacerbation of Chronic Obstructive Pulmonary Disease (COPD) Are Associated with Increased COPD-Related Readmissions/M.** Belanger, S. Couillard, F.-A. Vezina, K. Girard, P. Larivee, T. Poder, J. Courteau, A. Vanasse, Sherbrooke, Canada, p.A5911
- 3:30 Mepolizumab for Eosinophilic Chronic Obstructive Pulmonary Disease (COPD): A Meta-Analysis of METREX and METREO Exacerbation Endpoints/M.** Bafadhel, F.C. Sciurba, P. Paggiaro, I.D. Pavord, K. Chapman, S.W. Yancey, D.B. Rubin, B. Mayer, S.S. Harris, E.S. Bradford, Oxford, United Kingdom, p.A5912
- 3:45 Serum IgG Subclass Levels and Risk of Exacerbations and Hospitalizations in Patients with COPD/F.S.S. Leitao Filho, S. Won Ra, A. Mattman, R.R. Schellenberg, G. Criner, P. Woodruff, S. Lazarus, R. Albert, J.E. Connett, M.K. Han, F. Martinez, J.M. Leung, S. Paul Man, S.D. Aaron, R.M. Reed, D. Sin, Vancouver, Canada, p.A5913**
- 4:00 Monitoring COPD Disease Activity for Personalized, Preventative Treatment/V.** Chen, C. Shannon, Z. Hollander, R. Balshaw, S.J. Tebbutt, B. McManus, R. Ng, D.D. Sin, Vancouver, Canada, p.A5914

MINI SYMPOSIUM

C96 ADVANCES IN THE MANAGEMENT OF PULMONARY NTM DISEASE

2:15 p.m. - 4:15 p.m. MARRIOTT MARQUIS SAN DIEGO MARINA
Grand Ballroom 8-9 (North Tower, Lobby Level)

Chairing: R. Thomson, MBBS, PhD, Greenslopes, Australia
K.N. Olivier, MD, MPH, Bethesda, MD
J. Van Ingen, MD, PhD, Nijmegen, Netherlands

Oral Presentations

- 2:15 Randomized Phase 3 Trial of Amikacin Liposome Inhalation Suspension (ALIS) for Treatment-Refractory Nontuberculous Mycobacterial (NTM) Lung Disease Caused by Mycobacterium Avium Complex (MAC) in Adult Patients/D.E. Griffith, G. Eagle, R.M. Thomson, T.R. Aksamit, N. Hasegawa, K. Morimoto, D.J. Addrizzo-Harris, A.E. Oâ€™Donnell, T.K. Marras, P.A. Flume, M.R. Loebinger, L.C. Morgan, P.F. Castellotti, A.T. Hill, S.J. Ruoss, J.J. Yim, F.C. Ringshausen, S.K. Field, J. Nezamis, K.L. Winthrop, Tyler, TX, p.A5915**
- 2:30 Prescribing Patterns for Mycobacterium Avium Complex (MAC) and M. Xenopi Pulmonary Disease in Ontario, Canada: A Population Based Study/S.K. Brode, H. Chung, M. Campitelli, J.C. Kwong, A. Marchand-Austin, K.L. Winthrop, F.B. Jamieson, T.K. Marras, Toronto, Canada, p.A5916**
- 2:45 Macrolide Resistant Mycobacterium Avium Complex Lung Disease Treated with Bedaquiline/J.** Philley, M.S. Devine, K.M. Calhoun, R.J. Wallace, F. Thakkar, B.A. Brown-Elliott, E. Iakhiaeva, S. Molina, M. Allen, D.E. Griffith, Tyler, TX, p.A5917
- 3:00 Treatment Regimens Prescribed for Pulmonary Mycobacterium Abscessus Infections Among Hospitalized Patients in the United States, 2000-2015/E.** Ricotta, Y.L. Lai, D.R. Prevots, K.N. Olivier, J. Adjemian, Bethesda, MD, p.A5918

- 3:15 Nitric Oxide Inhalations in CF Patients Infected with Mycobacterium Abscessus Complex: A Prospective, Open-Labelled, Multi-Center Pilot Study/L.** Bentur, K. Masarweh, G. Livnat-Levanon, M. Ashkenazi, A. Dagan, M. Mizrahi, Y. Av-Gay, M. Aviram, O. Efrati, Haifa, Israel, p.A5919
- 3:30 Clinical Efficacy and Safety of Fluoroquinolone-Containing Regimens in Patients with Mycobacterium Avium Complex (MAC) Pulmonary Disease/H.** Khadawardi, T.K. Marras, M. Mehrabi, S.K. Brode, Toronto, Canada, p.A5920
- 3:45 Development and Efficacy of a Novel Nebulized Antibiotic Formulation for the Treatment of Mycobacterium Abscessus Pulmonary Infections/T.** Hofmann, B. Banaschewski, M. Hittinger, C.-M. Lehr, M. Stapleton, D. Verma, D. Ordway, S. Ufer, K. Stapleton, Doylestown, PA, p.A5921

Featured Speaker

- 4:00 Alternative Trial Designs for Complex Infections/B.** Saville, Austin, TX

MINI SYMPOSIUM

C97 DIFFUSE PARENCHYMAL LUNG DISEASES: EVALUATION, OUTCOMES, AND TRIALS

2:15 p.m. - 4:15 p.m. MARRIOTT MARQUIS SAN DIEGO MARINA
Grand Ballroom 5-6 (North Tower, Lobby Level)

Chairing: M. Koenigshoff, MD, PhD, Aurora, CO
C.J. Ryerson, MD, Vancouver, Canada
D.A. Lynch, MBBCh, Denver, CO

Oral Presentations

- 2:15 A Convolutional Neural Network for the Classification of Interstitial Lung Disease Patterns/A.** Christe, L. Ebner, M. Anthimopoulos, S. Christodoulidis, S. Mougiakakou, Bern, Switzerland, p.A5922
- 2:30 A Comparison of Micro Computed Tomography to Histology in Idiopathic Pulmonary Fibrosis/N.** Tanabe, T.V. Colby, J.E. McDonough, D.M. Vasilescu, F. Xu, K. Ikezoe, S. Verleden, B.M. Vanaudenaerde, J.C. Hogg, Vancouver, Canada, p.A5923
- 2:45 Quantification of Cyst Ventilation Using Hyperpolarized ¹²⁹Xe MRI Correlates with Pulmonary Function Tests in Patients with Lymphangioleiomyomatosis/D.** Roach, L. Walkup, C. Hall, R.P. Thomen, F.X. McCormack, N. Gupta, J.C. Woods, Cincinnati, OH, p.A5924
- 3:00 Dynamic Contrast-Enhanced Magnetic Resonance Imaging for the Evaluation of Perfusion Heterogeneity in Idiopathic Pulmonary Fibrosis/N.** Weatherley, H. Marshall, P. Hughes, M. Austin, L. Smith, S.A. Renshaw, S. Bianchi, J.M. Wild, Sheffield, United Kingdom, p.A5925
- 3:15 Longitudinal Prediction of Outcome in Idiopathic Pulmonary Fibrosis Using Automated CT Analysis/J.** Jacob, B.J. Bartholmai, C.H. Van Moorsel, S. Rajagopalan, A. Devaraj, H. Van Es, T. Moua, F. Van Beek, M. Struik, R. Clay, M. Kokosi, A. De Lauretis, E. Judge, R. Karwoski, T. Peikert, F. Maldonado, E.A. Renzoni, T. Maher, A. Altmann, A.U. Wells, Rochester, MN, p.A5926

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- 3:30** **A Phase 2 Trial of KD025 to Assess Efficacy, Safety and Tolerability in Patients with Idiopathic Pulmonary Fibrosis/F.** Averill, T.E. Albertson, D.M. Baratz, S. Chaudhary, S. Mobin, T. O'Brien, M.B. Scholand, T.P. Whelan, M. Poyurovsky, O. Schueller, J. Ryan, K.F. Gibson, Clearwater, FL, p.A5927
- 3:45** **Assessment of the Effects of GLPG1690 in Idiopathic Pulmonary Disease (IPF) Patients Using Functional Respiratory Imaging (FRI)/B.** Mignot, W. Vos, C. Van Holsbeke, M. Lanclus, J. De Backer, A. Fieuw, P. Ford, Kontich, Belgium, p.A5928
- 4:00** **K_{ca}3.1 Channel Blockade Reduces Vascular Remodelling in a Large Animal Model of Bleomycin Induced Pulmonary Fibrosis/H.**B. Dersseh, L. Organ, E. Koumoundouros, C. Pagel, A. Stent, U.E. Perera, V.D.S. Nimanthi, K. Snibson, Parkville, Australia, p.A5929

MINI SYMPOSIUM

C98 SLEEP PHENOTYPES, GENETICS, AND BIOMARKERS: NOVEL INSIGHTS

2:15 p.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER

Room 7 A-B (Upper Level)

Chairing: R. Mehra, MD, Cleveland, OH
M. Sanchez De La Torre, PhD, Lleida, Spain
R. Saxena, PhD, Boston, MA

Oral Presentations

- 2:15** **Adhesion Molecule Gene Polymorphisms and Serum Protein Levels in Obstructive Sleep Apnea/A.** Sandford, A. Ha, L. Akhbar, A. Saferali, N. Fox, A. Hirsch-Allen, S. Warby, S.F. Van Eeden, N. Ayas, Vancouver, Canada, p.A5930
- 2:30** **Epigenome-Wide Association Studies Shows DNA Methylation Association with Excessive Daytime Sleepiness Among African Americans/H.** Wang, R. Barfield, T. Sofer, B.E. Cade, R. Saxena, C. Han, S.R. Patel, S.R. Sunyaev, X. Zhu, S.A. Gharib, W.C. Johnson, J.I. Rotter, Y. Liu, X. Lin, S.S. Redline, Boston, MA, p.A5931
- 2:45** **Differentially Methylated Pathways in Highlanders with Sleep Apnea/L.**V. Pham, X. Hong, W.-Y. Tang, J.J. Miranda, R.H. Gilman, W. Checkley, A.R. Schwartz, V.Y. Polotsky, Baltimore, MD, p.A5932
- 3:00** **MicroRNA Profile of Cardiovascular Risk in Patients with Obstructive Sleep Apnoea/F.** Santamaria-Martos, I. Benitez, F. Ortega, O. Minguez, A. Cortijo, V. Quibus, J.M. Fernandez-Real, F. Barbe, M. Sanchez de la Torre, Lleida, Spain, p.A5933
- 3:15** **Circulating Plasma Exosomes May Signal Circadian Clock Misalignment to Peripheral Tissues/A.** Khalyfa, Chicago, IL, p.A5934
- 3:30** **Quantifying the Severity of Pharyngeal Airflow Obstruction Using Polysomnography/D.** Mann, A. Azarbarzin, S. Mariani, A. Franciosini, A. Camassa, L. Taranto-Montemurro, L. Messineo, S. Redline, D. White, A. Wellman, P. Terrill, S. Sands, Brisbane, Australia, p.A5935

- 3:45** **Characteristics of Upper Airway Collapse Assessed During Drug-Induced Sleep Endoscopy Predict Response and Deterioration Under Mandibular Advancement Device Therapy/S.** Op de Beeck, M. Dieltjens, A.E.R. Verbruggen, A.V. Vroegop, E. Hamans, J. Verbraecken, W.A. De Backer, P.H. Van de Heyning, M.J. Braem, O.M. Vanderveken, Wilrijk, Belgium, p.A5936
- 4:00** **Increases in Heart Sound Intensity Following Respiratory Events Are Positively Correlated with Drops in Oxygen Saturation During the Events/M.**M. Kabir, B. Gavrilovic, S. Saha, K. Zhu, A. Yadollahi, Toronto, Canada, p.A5937

MINI SYMPOSIUM

C99 HARNESSING THE IMMUNE SYSTEM IN LUNG CANCER: WHY SO DEFENSIVE?

2:15 p.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER

Room 6 B (Upper Level)

Chairing: R. Savai, PhD, Bad Nauheim, Germany
P.P. Massion, MD, Nashville, TN
C.R. Sears, MD, Indianapolis, IN

Featured Speaker

- 2:15** **Inflammation and Immunity in the Pathogenesis of Lung Cancer/S.**M. Dubinett, MD, Los Angeles, CA Oral Presentations
- 2:30** **Reprogramming of Tumor Associated Macrophages by Modulating Wnt β -Catenin Signalling in Lung Cancer/P.** Sarode, X. Zheng, A. Weigert, A. Tretyn, S. Guenther, S.S. Pullamsetti, F. Grimminger, W. Seeger, R. Savai, Bad Nauheim, Germany, p.A5938
- 2:45** **The Characteristics and Significance of Low Density Neutrophils (LDN): A New and Unique Sub-Population of Circulating Neutrophils, in Human Lung Cancer/Z.**G. Fridlender, O. Eyal, A. Zlotnik, P. Damti, J. Micaeli, L. Levy, M. Shaul, Jerusalem, Israel, p.A5939
- 3:00** **Single Cell RNA Sequencing Profiling of Pulmonary and Systemic T Cells in Subjects with Lung Cancer/J.** Beattie, I. Sulaiman, B. Wu, Y. Li, B. Franca, L. Perez, J.-C.J. Tsay, L.N. Segal, New York, NY, p.A5940
- 3:15** **Immune Alterations in the Airway Transcriptome of Lung Cancer Patients/J.** Lel, E. Billatos, E. Moses, C.S. Stevenson, M. Lorenzi, G. Liu, J.D. Campbell, Y. Koga, J. Zhang, F. Duan, H. Marques, A. Maoz, M.E. Lenburg, A. Spira, J. Beane, Boston, MA, p.A5941
- 3:30** **Enhanced Anticancer Activity of Anti-CD47 Antibody Expressing CAR-T Cells Against Non-Small-Cell Lung Cancer in a Xenograft Mouse Model/H.** Li, Shanghai, China, p.A5942
- 3:45** **A Herpesvirus Noncoding RNA Controls NSCLC Tumor Progression Through Selective Degradation of miR-27 in Immune Cells/A.** Korde, M.C. Gwin, P. Pawlica, J. Steitz, S. Takyar, New Haven, CT, p.A5943
- 4:00** **Inhibition of Melanoma Lung Metastasis by Chi311 Neutralizing Antibody/B.** Ma, S. Kamle, B. Akosman, C. He, C. Lee, J.A. Elias, Providence, RI, p.A5944

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

C101 ASTHMA CLINICAL AND MECHANISTIC STUDIES

2:15 p.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER

Room 11 A-B (Upper Level)

Abstract Summaries 2:15-2:45

Viewing/Discussion 2:45-4:15

Chairing: A. Haczkz, MD, PhD, Davis, CA

A. Ray, PhD, Pittsburgh, PA

T.S. Hallstrand, MD, MPH, Seattle, WA

401 C3a is Required for ILC2 Function in Allergic Airway Inflammation/N. Gour, U. Smole, H.M. Yong, S. Lajoie, Baltimore, MD, p.A5945

402 Genetic Variation in Surfactant Protein-A2 Differentially Modulates Resolution of Eosinophilia During Allergic Airways Inflammation/A.B. Dy, K.J. Addison, W. Pederson, M. Arif, M. Kraft, J.G. Ledford, Tucson, AZ, p.A5946

403 Mitochondrial Reactive Oxygen Species (mROS) Signaling Contributes to Obese Allergic Airway Disease/A.E. Dixon, E. Nakeda, B. Korwin-Mihavics, A. van der Vliet, M.E. Poynter, B.T. Suratt, C.G. Irvin, K.E. Black, Y.M.W. Janssen-Heininger, V. Anathy, Burlington, VT, p.A5947

404 Dupilumab Produces Rapid and Sustained Improvements in Asthma-Related Symptoms in Patients with Uncontrolled, Moderate-To-Severe Asthma from the LIBERTY ASTHMA QUEST Study/J. Corren, M. Castro, S. Guillonneau, J. Chao, N. Amin, G. Pirozzi, N.M.H. Graham, A. Teper, A. Khan, Los Angeles, CA, p.A5948

405 Type 2 Biomarkers Associated with Dupilumab Efficacy in Patients with Uncontrolled, Moderate-To-Severe Asthma Enrolled in the Phase 3 Study LIBERTY ASTHMA QUEST/S.E. Wenzel, I. Pavord, B. Zhang, J. Maroni, P. Rowe, J.D. Hamilton, B.N. Swanson, N. Amin, G. Pirozzi, N.M.H. Graham, A. Teper, Pittsburgh, PA, p.A5949

406 Secreted Phospholipase A2 Group X Regulates Type-2 Cytokine Expression in Mast Cells/R. Murphy, J.D. Nolin, Y. Lai, A. Piliponsky, W.A. Altemeier, T.S. Hallstrand, Seattle, WA, p.A5950

407 Dehydroepiandrosterone Supplementation May Benefit Certain Women with Asthma: A Pilot Study/N. Marozkina, L. Logan, M. DeBoer, B. Gaston, Cleveland, OH, p.A5951

408 Interleukin-25 and Eosinophils Progenitor Cell Mobilization in Allergic Asthma/W. Tang, W. Du, S.G. Smith, R. Sehmi, P. O'Byrne, Shanghai, China, p.A5952

409 RNA-seq Transcriptomics and Time-Course Longitudinal Gene-Set Analyses Reveal Potential Pathways Altered During Bronchial Thermoplasty Treatment in Severe Asthmatics/S.-Y. Liao, A.L. Linderholm, K.Y. Yoneda, N.J. Kenyon, R.W. Harper, Sacramento, CA, p.A5953

410 Exhaled Volatile Organic Compounds as Markers for Medication Use in Asthma Within the U-BIOPRED Cohort/P. Brinkman, W. Ahmed, C. Gómez, H.H. Knobel, H. Weda, T.J. Vink, T.M. Nijsen, G. Pennazza, M. Santonico, A. D'Amico, C.E. Wheelock, S.E. Dahlen, P. Montuschi, S.J. Vijverberg, A.H. Maitland-van der Zee, P.J. Sterk, S.J. Fowler, Amsterdam, Netherlands, p.A5954

411 House Dust Mite-Derived Protease Allergen Sensing by Lung Endothelial and Proangiogenic Cells Induces Asthma/K. Asosingh, K. Queisser, N. Wanner, M. Jin, M.A. Aronica, S.C. Erzurum, Cleveland, OH, p.A5955

412 An 'Omics' Study to Investigate the Mechanisms Underlying Circadian Rhythm in Asthma/H. Durrington, M. Wilkinson, R. Maidstone, D. Singh, D.W. Ray, S.J. Fowler, Manchester, United Kingdom, p.A5956

413 Longitudinal Follow-Up of Sputum Transcriptomic-Associated Clusters in Asthma from the U-BIOPRED Cohort/S. Pavlidis, K. Sun, Y. Guo, M. Loza, F. Baribaud, A. Rowe, A. Sousa, J.H. Riley, J. Corfield, R. Djukanovic, P. Sterk, I.M. Adcock, K.F. Chung, London, United Kingdom, p.A5957

414 Time Series Fluctuation of Clinical and Molecular Markers in Healthy and Asthmatic Subjects Before and After Rhinovirus Inoculation/A. Sinha, X. Binbin, E. Delgado-Eckert, R. Chaleckis, C.C. Wheelock, U. Frey, R. Lutter, P.J. Sterk, Amsterdam, Netherlands, p.A5958

415 Fevipiprant, a Selective Prostaglandin D₂ Receptor 2 Antagonist, Potently Inhibits Chemotaxis and Cytokine Production by Group 2 Innate Lymphoid Cells/L. Xue, C. Hardman, W. Chen, P. Batty, G. Ogg, V.J. Erpenbeck, D.A. Sandham, Oxford, United Kingdom, p.A5959

416 Long-Term Efficacy and Safety of Bronchial Thermoplasty (BT): 3 Year Follow-Up Results from a Large Scale Prospective Study/G.L. Chupp, J.N. Kline, S.B. Khatri, C.E. McEvoy, G.A. Silvestri, A. Shifren, M. Castro, S. Bansal, M.R. McClelland, M.T. Dransfield, R. Olivenstein, S. Ryan, M.J. Simoff, M.M. Wahidi, C.R. Lamb, J.S. Ferguson, A. Haas, D.K. Hogarth, R.S. Tejedor, J.W. Toth, A. Majid, P. LaCamera, M. Fitzgerald, K.B. Enfield, M. Grubb, E. McMullen, R. Strauven, M. Laviolette, New Haven, CT, p.A5960

417 The Effect of rs750064 on SPLUNC1 Expression and Function in Asthmatic Airway Epithelial Cells/N. Schaefer, P. Di, S.E. Wenzel, N.N. Jarjour, L.C. Denlinger, M. Castro, A.M. Coverstone, W.G. Teague, A. Dakhama, S. Gellatly, M.A. Seibold, C. Moreno, J. Boomer, S.Y. Park, G. Crisafi, B.R. Phillips, H.W. Chu, Denver, CO, p.A5961

418 Improvements in Asthma-Related Quality of Life Observed Within 4 Weeks of Treatment with Tezepelumab/J. Corren, J.R. Parnes, L. Wang, M. Mo, S.L. Roseti, J.M. Griffiths, S. O'Quinn, R. van der Merwe, Los Angeles, CA, p.A5962

419 IgE Stimulates Airway Mesenchymal Cells by Two Independent Signaling Pathways: STAT3 and MicroRNA21-5p and PI3K-AKT-mTOR Signaling Pathway/L. Fang, M. Tamm, D. Stolz, M. Roth, Basel, Switzerland, p.A5963

- 420 **Fractional Exhaled Nitric Oxide and the Peripheral Blood Eosinophil Count as Biomarkers of the Response to Mepolizumab in Patients with Severe Eosinophilic Asthma/** R. Shrimanker, I.D. Pavord, R. Price, E.S. Bradford, O.N. Keene, S. Yancey, Oxford, United Kingdom, p.A5964
- 421 **Gut Microbiome Patterns in Adults Differentiate Asthma and Asthma-Related Clinical Features/**Y.J. Huang, L.A. Begley, O. Ndum, A. Baptist, J. Erb-Downward, Ann Arbor, MI, p.A5965
- 422 **Phenotypic Characterization of Blood and Lung ILC2 in Asthmatics Undergoing Segmental Allergen Provocation/**K. Pardali, C. Winkler, T. Hochdorfer, A. Cavallin, A. Hasselberg, O. Vaarala, M. Mueller, K. Lueer, J.M. Hohlfeld, Mölndal, Sweden, p.A5966
- 423 **Understanding Heterogeneity in Severe Asthmatics Using High Dimensional Analysis of Cellular Phenotypes/**M. Camiolo, X. Zhou, T.B. Oriss, K.C. Nadeau, S.E. Wenzel, A. Ray, Pittsburgh, PA, p.A5967
- 424 **Lowered Expression of Soluble Adenylate Cyclase (sAC) and Cellular Redox Enzymes in Human Airway Smooth Muscle Cells Derived from Asthma/**A. Ghosh, R.A. Panettieri, D.J. Stuehr, Cleveland, OH, p.A5968
- 425 **Age-Specific Associations Between Circulation of Viral Pathogens and Asthma Health Services Utilization/**L. Feldman, J. Zhu, T.M. To, Toronto, Canada, p.A5969

- 204 **Structured Smoking Exposure Variability in the Electronic Health Record Hurts Lung Cancer Screening Practices/**D. Kats, J.D. Thornton, D.C. Kaelber, Y. Tarabichi, Cleveland, OH, p.A5973
- 205 **Assessing the Implications of Average Household Income on Adherence to Lung Cancer Screening Recommendations/**F. Genese, S. Kuperberg, C.R. Bellinger, Winston-Salem, NC, p.A5974
- 206 **Lung Cancer Risk and Characteristics of Adults Undergoing LDCT Lung Cancer Screening/**L. Henderson, M.W. Marsh, M.A. Pritchard, T.S. Benefield, P.L. Molina, M.P. Rivera, Chapel Hill, NC, p.A5975
- 207 **“What Is Shared Decision Making?” A Qualitative Study of Clinician Communication in Lung Cancer Screening Programs/**A.C. Melzer, S.E. Golden, L. Miranda, S. Ono, C.G. Slatore, Minneapolis, MN, p.A5976
- 208 **Success Factors and Barriers in Lung Cancer Screening Program Implementation in the VA: Results of a Qualitative Study/**A.E. Fabbri, S.E. Lillie, S.S. Fu, C.H. Wendt, A.C. Melzer, Minneapolis, MN, p.A5977
- 209 **A Qualitative Study of Clinician Views of Lung Cancer Screening: The Role of Uncertainty/**A.C. Melzer, S. Golden, L. Miranda, S. Ono, C.G. Slatore, Minneapolis, MN, p.A5978
- 210 **“I Just Wanna Know”: A Qualitative Study of Patients Offered Lung Cancer Screening/**S. Golden, S. Ono, S. Thakurta, R.S. Wiener, A.C. Melzer, S. Datta, C.G. Slatore, Portland, OR, p.A5979
- 211 **Evaluating the Effectiveness of Lung Cancer Screening in Patients with Chronic Obstructive Lung Disease/**M.S. Kale, B. Ferket, C.Y. Kong, J.P. Wisnivesky, New York, NY, p.A5980
- 212 **Patient and Clinician Perspectives on Smoking Cessation in Three Lung Cancer Screening Programs/**S. Golden, S. Ono, R.S. Wiener, A.C. Melzer, J. Davis, C.G. Slatore, Portland, OR, p.A5981
- 213 **Identifying Eligibility for Lung Cancer Screening in Hospitalized Smokers: An Opportunity to Improve Screening Rates/**D. Kim, R.S. Wiener, E. Helm, H. Kathuria, Boston, MA, p.A5982
- 214 **Health and Quality of Life Assessment in Four Groups of Lung Cancer Patients: Low Dose Computed Tomography Screened, Chest X-Ray Detected, Incidentally-Found, and Routinely Diagnosed/**D. Liu, D.E. Midthun, L. Qiuyuan, W. Jason A, L. Luo, S. Jeff A., P. Yang, Chengdu, China, p.A5983
- 215 **Disparities in Early Stage of Lung Cancer Treatment According to Hispanic Origin A Population-Based Study/**M.P. Zambrano Loor, J.P. Wisnivesky, G. Mhango, F. Fernandes, N.J. Ferreras, Guayaquil, Ecuador, p.A5984
- 216 **Smoking Cessation Rates Amongst Participants and Non-Participants in a Low-Dose CT Screening Program/**B. Rodrigues, M. Seeley, A. Tenenbaum, K. Enochs, R. Malec, P.J. Mazzone, H.K. Choi, Cleveland, OH, p.A5985
- 217 **Assessing Effectiveness of a Group Education Class on Lung Cancer Screening/**L. Sakoda, M. Meyer, N. Chawla, M. Sanchez, S. Nayak, K. San, G. Zin Jr., G. Minowada, Oakland, CA, p.A5986

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

C102 ADVANCING LUNG CANCER SCREENING PROCESSES AND OUTCOMES

2:15 p.m. - 4:15 p.m. **SAN DIEGO CONVENTION CENTER**

Room 6 D (Upper Level)

Abstract Summaries 2:15-2:45
Viewing/Discussion 2:45-4:15

Chairing: J.P. Wisnivesky, DrPH, MD, New York, NY
 G.W. Garrison, MD, Burlington, VT
 J. Iaccarino, MD, MSc, Boston, MA

- 201 **Lung Cancer Screening and Health Literacy/**C. Brillante, K. Haas, A. Elzokaky, M. Pasquinelli, L. Feldman, K.L. Kovitz, L. Sharp, M.J. Joo, Chicago, IL, p.A5970
- 202 **Potential Barriers to Lung Cancer Screening: Clinico-Socioeconomic Characteristics of Participants and Non-Participants/**S. Raju, A. Khawaja, X. Wang, X. Han, P.J. Mazzone, Cleveland, OH, p.A5971
- 203 **Lung Cancer Patients Who Quitted Smoking Cigarette Over 15 Years Prior to Diagnosis Are at the Same Risk of Death as Those Who Met the USPSTs Criteria for Lung Cancer Screening/**L. Luo, D.E. Midthun, Y. Wang, D. Liu, S.M. Stoddard, Q. Li, J.A. Wampfler, P. Yang, Rochester, MN, p.A5972

TUESDAY AFTERNOON

- 218 **The Association of Communication Characteristics and Risk Perception with Smoking Behaviors Among Patients with Incidentally Detected Pulmonary Nodules/A.C. Melzer, R.S. Wiener, J.M. Iaccarino, C.G. Slatore, Minneapolis, MN, p.A5987**
- 219 **Incidental Pulmonary Nodule Characterization in Primary Care Progress Notes/J.D. Thornton, K. Black, E. Stott, A. Huml, Cleveland, OH, p.A5988**
- 220 **No Stone Unturned: Nodule Net, an Intervention to Reduce Loss to Follow-Up of Pulmonary Nodules/H. Patel, A.T. Shah, S.Y. Abujaber, A.L. Flores, K. Kelley, T.G. Weinstock, L. Khorashadi, M.J. Shortsleeve, A. Tewari, C.C. Thomson, Cambridge, MA, p.A5989**
- 221 **Monitoring Efficacy of Lung Nodule Tracking at the Baltimore VA/A. Kumar, B. Sivasailam, J. Patel, J. Deepak, Baltimore, MD, p.A5990**
- 222 **E-Consult Management of Lung Nodules: Do Primary Care Providers Follow Recommendations?/M. Van Buskirk, S. Kumari, C.W. Atwood, Pittsburgh, PA, p.A5991**
- 223 **Lung Cancer in the Palm of Our Hands- A Critical Appraisal of iOS Medical Applications Available/L. Kallur, A. Ataya, H.L. Paz y Mar, A. Gonzalez-Estrada, Johnson City, TN, p.A5992**
- 705 **A Critical Systematic Review of the Government Mandated Hemodynamic Interventions for Sepsis (SEP-1)/D.J. Pepper, D.S. Jaswal, J. Sun, J. Welsh, C. Natanson, P.Q. Eichacker, Bethesda, MD, p.A5997**
- 706 **A Quality Improvement Study to Increase Sepsis Recognition by EMS Providers Using the Prehospital Sepsis (PRESS) Screening Tool/C. Polito, S. Rajasekar, N. Nabavi, A. Mohsin, G.S. Martin, A. Yancey, J.E. Sevransky, Atlanta, GA, p.A5998**
- 707 **Evaluation of a Sepsis Care Bundle and Care Coordination for Timely Antibiotic Administration and Improving Hospital Outcomes/E. Arain, C. Ye, C. Joyce, S. Zelisko, M. Afshar, M.M. Churpek, E.R. Gilbert, Maywood, IL, p.A5999**
- 708 **Early Hypotension Severity and Intensive Care Unit Outcomes/J. Jentzer, A. Sakhuja, S. Vallabhajosyula, D. Murphree, A. Khanna, K. Kashani, Rochester, MN, p.A6000**
- 709 **Focusing on Earlier Antibiotics and Fluid Support to Achieve a More Effective and Efficient Sepsis Performance Measure that Improves Survival: A Systematic Review and Meta-Analysis/D.J. Pepper, X. Cui, W. Xu, J. Sun, J. Welsh, C. Natanson, P.Q. Eichacker, Bethesda, MD, p.A6001**
- 710 **Frequency of Surviving Sepsis Campaign Bundle Compliance for Hospital-Acquired Sepsis/S. Goodman, S. Shah, B. Varghese, J.A. Greenberg, Chicago, IL, p.A6002**
- 711 **Disparities in the Care of Patients with Sepsis/C. Rabascall Ayoub, J. Rey-Mendoza, W. Kowacz, S.J. Quinn, A. Kaye, V. Esmero, A. Tulaimat, J.A. Greenberg, R. Gueret, Chicago, IL, p.A6003**
- 712 **The Association of Intravenous Sodium Bicarbonate with Mortality in Patients with Lactic Acidosis Caused by Sepsis/N. Emami, H.B. Gershengorn, D.G. Fein, Bronx, NY, p.A6004**
- 713 **Prognostic and Therapeutic Value of Subtyping Shock Following Out-of-Hospital Cardiac Arrest/J.R. Beitter, R.J. Anderson, S.P. Jinadasa, L. Hsu, T.B. Ghafouri, S. Tyagi, J.K. Joshua, A. Mueller, D. Talmor, R.E. Sell, San Diego, CA, p.A6005**
- 714 **Magnitude of Fluid Positive Balance on Post-Shock Day 1 Correlates with the Number of Subsequent Ventilator Days/S. Yee, E. Cassidy, A. Kelly, S. Pasha, K. Dave, A. Kalema, S. Dhar, A. Montgomery-Yates, P. Morris, Lexington, KY, p.A6006**
- 715 **Vasopressin Use in Septic Shock and Effect on Mortality/H. Hadid, B. DiGiovine, J.H. Jennings, Detroit, MI, p.A6007**
- 716 **Incidence of Diabetes Insipidus After Cessation of Vasopressin Infusion for Treatment of Shock/H. Ferenchick, N. Ferguson, P. Dicipinigitis, Bronx, NY, p.A6008**
- 717 **Metabolomics Analysis of MSC Therapy in A Phase I Clinical Trial for Septic Shock/B.W. Winston, M. Banoei, L. McIntyre, D.J. Stewart, S.H.-J. Mei, D. Courtman, I. Watpool, J.T. Granton, J.C. Marshall, C.C. Dos Santos, K.R. Walley, K. Schlosser, D. Fergusson, Calgary, Canada, p.A6009**
- 718 **A Phase 2a Randomized Controlled Trial of Echocardiogram-Guided Resuscitation in Early Septic Shock/R. Burk, S.M. Brown, E. Wilson, C.K. Grissom, E.L. Hirshberg, M.J. Lanspa, Salt Lake City, UT, p.A6010**

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

C103 CRITICAL CARE: SEPSIS AND SHOCK - WHAT WE ARE SUPPOSED TO DO, WHAT IS ACTUALLY DONE, AND WHAT CAN WE DO BETTER

2:15 p.m. - 4:15 p.m. **SAN DIEGO CONVENTION CENTER**

Room 31 A-C (Upper Level)

Abstract Summaries 2:15-2:45
Viewing/Discussion 2:45-4:15

Chairing: J.-T.T. Chen, MD, Bronx, NY
C.W. Seymour, MS, MSc, Pittsburg, PA
I.S. Douglas, MD, Denver, CO

- 701 **Classification and Regression Tree Analysis to Predict Mortality in EMS Patients at Risk for Sepsis/S. Law, S. Rajasekar, C. Dunn, I. Bloom, A. Patel, M. Warnock, G. Cotsonis, G. Martin, J. Sevransky, C. Polito, Atlanta, GA, p.A5993**
- 702 **Nearly 20% of ED Patients with Clinical Sepsis Are Not Admitted to the Hospital/I. Peltan, N.C. Dean, J.R. Bledsoe, T.L. Allen, E.L. Wilson, M.M. Samore, S.M. Brown, Murray, UT, p.A5994**
- 703 **The Product of Pulse Pressure and Heart Rate, an Early Indicator of the Presence of Sepsis/D. Lynch, T.J. Bice, Chapel Hill, NC, p.A5995**
- 704 **Predictive Validity of qSOFA for Sepsis Among Patients with Community-Onset Staphylococcal Infection and SIRS in Northeast Thailand/S. Gupta, K.E. Rudd, C. Wikraiphat, S. Tandhavanant, G. Wongsuwan, P. Ariyaprasert, P. Suntornsut, N. Teerawattanasook, Y. Jutrakul, N. Srisurat, P. Chaimanee, J. Anukunanchai, S. Phiphitaporn, P. Srisamang, P. Chetchotisakd, C.W. Seymour, D.C. Angus, J. Peacock, N. Chantratita, T. E. West, Seattle, WA, p.A5996**

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- 719 **Doppler Evaluation of Carotid Corrected Flow Time in Assessing Fluid Responsiveness in Undifferentiated Shock/W.** Toppen, S. Hu, E. Aquije, S. Ong, R.G. Buhr, T.S. Wang, I. Joel, S.Y. Chang, D. Elashoff, D. Markovic, I. Barjaktarevic, Los Angeles, CA, p.A6011
- 720 **Incremental Pulse Pressure Predicts Better Short-Term Outcomes in Patients with Sepsis Admitted to ICU/W.-F.** Fang, K.-Y. Hung, Y.-M. Chen, Y.-C. Chong, Y.-T. Fang, K.-T. Huang, Y.-H. Wang, H. Yeh, Y.-T. Chang, C.C. Wang, M.-C. Lin, Kaohsiung, Taiwan, p.A6012
- 721 **The Predictive Accuracy of Variations in Inferior Vena Cava Diameter, Pulse Pressure, and Central Venous Pressure with Respiration in Determining Volume Status of Critically Ill Patients/K.** Rurak, M. Patel, J. Chowdhury, H.B. Bhatt, A. Kasarabada, M.S. Sherman, Philadelphia, PA, p.A6013
- 722 **Association Between Timing of Appropriate Antibiotics and Mortality in Sepsis Is Not Influenced by Source of Infection/E.** Qian, A.C. McKown, L.B. Ware, T.W. Rice, Nashville, TN, p.A6014
- 723 **An Evaluation of Plasma RIPK3 Levels in Patients with a Concern for Sepsis in the Emergency Department/E.** Schenck, S. Rotter, E.J. Finkelzstein, W.J. Ford, J.K. Lessing, J.E. Arbo, I.I. Siempos, A.M.K. Choi, New York, NY, p.A6015
- 724 **Rate of Mechanical Ventilation in Septic Shock Patients with Severe Malnutrition/A.** Wahab, A. Abdullah, A. Salama, G. Eigbire, M. Schinlever, R. Alweis, Rochester, NY, p.A6016
- 725 **Comparative Sepsis Mortality in Patients with HIV - A Meta-Analysis/F.** Pyarali, R. Iordanov, L. Tamariz, A. Palacio, A.A. Quartin, Miami, FL, p.A6017

- 603 **Anxiety in Patients Receiving Non-Invasive Ventilation for Acute Respiratory Failure: Prevalence, Risk Factors and Prognostic Impact/A.** Demoule, L. Dangers, J.-P. Laforet, A. Kouatchet, S. Jaber, F. Meziani, S. Perbet, E. Azoulay, Paris, France, p.A6020
- 604 **Can CDT Scores on ICU Admission Predict Outcomes in Patients with Concurrent Negative CAM-ICU Results?/K.C.** Thandra, J. Ogunmuyiwa, G. Yang, K.S. Tan, H. Yulico, A. Yesne, J. Root, B. Korc-Grodzicki, A. Koshy, N. Kostelecky, K. matsoukas, S. Chawla, L.P. Voigt, New York, NY, p.A6021
- 605 **Efficacy of Low Dose Prophylactic Quetiapine on Delirium Prevention in Critically Ill Patients: A Prospective, Randomized, Double-Blind, Placebo-Controlled Study/Y.** Kim, H.-S. Kim, S.H. Lee, J.S. Park, Y.-J. Cho, H. Yoon, J. Lee, C.-T. Lee, Y.J. Lee, Seongnam-si, Korea, Republic of, p.A6022
- 606 **Outpatient Psychoactive Medication Usage and Post-Operative Delirium After Major Surgery/T.** O'Gorman, C.A. Austin, E. Stern, T. Sturmer, J. Busby-Whitehead, S.S. Carson, Chapel Hill, NC, p.A6023
- 607 **Limb Muscle Weakness in ICU Patients Is More Severe than Previously Reported/G.S.** Supinski, P.F. Netzel, L.A.P. Callahan, Lexington, KY, p.A6024
- 608 **Critical Illness Polyneuromyopathy in Neurosurgical Patients/D.** Kelmenson, D. Quan, M. Moss, Aurora, CO, p.A6025
- 609 **Early Mobilization in the ICU: A 1-Day Point-Prevalence Study in Brazil/K.** Timenetsky, D. Carnieli-Cazati, T.D. Correa, A. Serpa Neto, R.C.F. Chaves, M.S. Cesar De Assuncao, R.A.C. Eid, Sao Paulo, Brazil, p.A6026
- 610 **Tracking Physical Activity Levels in Critically Ill Patients During Intensive Care Unit and Ward Admission/T.C.** Rollinson, B. Connolly, C. Said, S. Berney, Heidelberg, Australia, p.A6027
- 611 **Understanding Perceived Barriers to Patient Mobility in a Medical ICU Using a Validated Early Mobility Barriers Survey/C.M.** Goodson, L.A. Friedman, E. Manthey, K. Heckle, A. Lavezza, A. Toonstra, A. Parker, J. Seltzer, M. Velaetis, M. Glover, C. Outten, K. Schwartz, A. Jones, S. Coggins, D.M. Needham, Baltimore, MD, p.A6028
- 612 **Physical Rehabilitation Interventions in the Intensive Care Unit: A Scoping Review of 96 Prospective Studies/J.** Reid, J. Unger, D. McCaskell, L. Childerhose, D.J. Zorko, M.E. Kho, Hamilton, Canada, p.A6029
- 613 **Evidence that Early Mobility Decreases Time on a Ventilator, ICU and Hospital LOS. Results of a Quasi-Experimental Study/B.** DiGiovine, R. Bello, K. Luplow, J. Kenyon, T. Sebastian, S. Schuldt, J. Bechard, S. Mehboob, C. Ting, C. Gondolfo, J.L. Swiderek, J.H. Jennings, A. Myszenski, Detroit, MI, p.A6030
- 614 **Outcomes from a Multicentre Pilot Randomized Clinical Trial of Early In-Bed Cycling with Mechanically Ventilated Patients: CYCLE Pilot RCT/M.** Kho, A.J. Molloy, F.J. Clarke, D.J. Cook, J.C. Rudkowski, K. Obrovac, M. McCaughan, T. Millen, T.A. Karachi, B. Rochweg, C. Farley, E. McDonald, A. Fox-Robichaud, E. Loreto, J.C. Reid, A. Matte, M.S. Herridge, S. Mathur, V. Lo, O.M. Smith, K.E. Burns, D. Feltracco, R. Porteous, A.J. Seely, J. Lamontagne, E. Campbell, I. Ball, K. Abercrombie, D.M. Heels-Ansdell, J.-E. Tarride, J.R. Pellizzari, A. Costigan, D. McCaskell, K.K.-Y. Koo, Hamilton, Canada, p.A6031

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

C104 CRITICAL CARE: BODY AND MIND IN AND OUT OF THE ICU - SEDATION, DELIRIUM, MOBILIZATION, AND LONG TERM FUNCTIONAL AND COGNITIVE OUTCOMES

**2:15 p.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER
Room 30 C-E (Upper Level)**

Abstract Summaries 2:15-2:45
Viewing/Discussion 2:45-4:15

Chairing: C.T.L. Hough, MD, MSc, Seattle, WA
S. Mehta, MD, Toronto, Canada
B. Connolly, PhD, London, United Kingdom

- 601 **Analgesia-First Sedation, Protocol-Directed Sedation (PS), or PS with Daily Sedative Interruption in Mechanically Ventilated Adults: A 3-Arm Pilot RCT/M.A.** Tanios, H.M. Nguyen, H. Park, S. Mehta, S.K. Epstein, G. Flores, F.A. Youssef, A. Beltran, R.M. Sidhom, A. Sehgal, J.D. Leo, J. Devlin, Long Beach, CA, p.A6018
- 602 **Increases in Minimal and Maximal Pupillary Diameter by Digital Pupillometry Are Associated with Changes in Depth of Sedation in Mechanically Ventilated MICU Patients/R.** Paccione, S.E. Jolley, R. Kamat, J. Johnson, B.P. deBoisblanc, New Orleans, LA, p.A6019

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- 615** **Validity of the Patient-Reported Functional Scale - Intensive Care Unit (PRFS-ICU)**/J. Reid, F.J. Clarke, D.J. Cook, A. Molloy, J.C. Rudkowski, P. Stratford, M. Kho, Hamilton, Canada, p.A6032
- 616** **Prevalence of and Risk Factors for Frailty After Hospitalization for Critical Illness**/N.E. Brummel, T.D. Girard, J.L. Thompson, R. Chandrasekhar, P. Pandharipande, E.W. Ely, Nashville, TN, p.A6033
- 617** **Frailty Subphenotypes and Functional Recovery in Older Survivors of Acute Respiratory Failure**/M.R. Baldwin, W.C. Gonzalez, L.R. Pollack, A. Javadi, M.S. Maurer, D.J. Lederer, New York, NY, p.A6034
- 618** **The Prevalence of Hypoxic-Ischemic Injury on Very Early Head CT and Association with Neurologic Outcome Following Out-of-Hospital Cardiac Arrest**/A. Caraganis, P. Singh, S.B. Mahmood, J. Larson, J. Moore, M. Mulder, R.R. Kempainen, M.E. Prekker, Minneapolis, MN, p.A6035
- 619** **Cognitive Impairment After Sepsis (CASS) Study: Predictors of Cognitive Impairment**/S. Beesley, R.O. Hopkins, E.L. Wilson, A. Presson, C.K. Grissom, M.T. Rondina, S.M. Brown, Murray, UT, p.A6036
- 620** **Charlson Comorbidity Score Is Not Predictive of Neurologic Outcomes in Cardiac Arrest Following Hypothermia**/J. Aguilera, L. Harper, A.L. Schenone, G. Patarroyo, X. Han, X. Wang, C. Aaron, J.A. Guzman, A. Duggal, Cleveland, OH, p.A6037
- 621** **Qualitative Analysis of Informal Caregivers' Perceptions About Post-Intensive Care Syndrome (PICS) and ICU Survivor Care**/D. Allen, S. Wang, Y.N. Kheir, D. Golovyan, N. Fowler, S. Lasiter, M.G. Austrom, M. Boustani, B.A. Khan, Indianapolis, IN, p.A6038
- 622** **A Novel Model for Comprehensive Intensive Care Unit Delirium Management**/J. Friedman, R. Gupta, S. Kirpalani, A. Bassily-Marcus, C. Wells, G. Caliendo, R. Freeman, A. Manasia, J.M. Oropello, V. LoPachin, D. Reich, R. Kohli-Seth, New York, NY, p.A6039
- 503** **Simplified 2Ts Score for Heparin-Induced Thrombocytopenia Risk**/T. Gallo, A. Padilla-Jones, H. Bal, S. Curry, K. Ramos, R. Raschke, Phoenix, AZ, p.A6042
- 504** **Prediction of Intensive Care Unit (ICU) Outcomes in Patients with a History of Acute Myeloid Leukemia (AML)**/Y. Lynch, S. Agarwal, M. Triplette, B.E. Storer, E.H. Estey, M.L. Sorrow, Seattle, WA, p.A6043
- 505** **A National Survey of Approaches to Manage the Complex ICU Patient with Addiction**/A. Reichheld, K. Hills-Evans, J. Sheehan, M. Tandon, N. Tocci, D. Hsu, J. Marshall, S. O'Donoghue, J. Stevens, Boston, MA, p.A6044
- 506** **Effect of Opioid Dependence on Outcomes of Patients with Septic Shock and ARDS: A 5-Year Propensity Score Matched Analysis**/F. Vazquez de Lara, F. Bolivar Rincon, V. Santibanez, B. Salguero, D. Pan, New York, NY, p.A6045
- 507** **Impact of Dexmedetomidine for the Treatment of Alcohol Withdrawal Syndrome Upon Intensive Care Unit Length of Stay**/E. Yavarovich, M. Bintvihok, J. McCarty, J. Breeze, P. LaCamera, Burlington, MA, p.A6046
- 508** **Phosphatidylethanol (PEth) Accurately Predicts Presence of an Alcohol Use Disorder in Critically Ill Patients**/A. Majid-Moosa, S.E. Jolley, B.P. deBoisblanc, L. Simon, P. Molina, New Orleans, LA, p.A6047
- 509** **Critically Ill Caucasian Patients Admitted for Alcohol Withdrawal Have a Longer Hospital Length of Stay and Receive Higher Doses of Benzodiazepines**/N. Ghionni, A.M. Abdul Hameed, B.E. Iriarte, A. Malik, A. Maheshwari, D.J. Valentino, III, Darby, PA, p.A6048
- 510** **Treatment of Alcohol Withdrawal Syndrome with Benzodiazepines or Phenobarbital in the Medical Intensive Care Unit, a Retrospective Comparison**/J.J. Saukkonen, T. Mekuria, M. Ronan, G. Connell, West Roxbury, MA, p.A6049
- 511** **Trends Over Time in Drug Administration During Adult In-Hospital Cardiac Arrest**/A. Moskowitz, C. Ross, L.W. Andersen, A.V. Grossestreuer, K.M. Berg, M.W. Donnino, Boston, MA, p.A6050
- 512** **Early High Glycemic Variability Was Associated with an Increased 30-Day Mortality in Patients with Sepsis**/Y.-C. Lee, Z.-R. Zheng, W.-C. Chao, C.-H. Tseng, M.-C. Chan, Taichung, Taiwan, p.A6051
- 513** **Role of Admission Glycated Hemoglobin in Critically Ill Patients with Pneumonia**/C.-Y. Kuo, W.-A. Chang, C.-M. Chen, Y.-C. Tsai, S.-F. Huang, M.-J. Tsai, J.-R. Tsai, C.-C. Sheu, Kaohsiung, Taiwan, p.A6052
- 514** **Challenging the Obesity Paradox in the Medical Intensive Care Unit**/A. Chowdhury, X. Han, X. Wang, A. Duggal, Cleveland, OH, p.A6053
- 515** **Challenging Dogma - Early Endoscopic Intervention Is an Option for Necrotizing Pancreatitis Resulting in Significant Improvement in Organ Failure**/P. Tawfik, G.V. Trikudanathan, Minneapolis, MN, p.A6054
- 516** **Prevalence and Outcomes of Clostridium Difficile Infection Among Hospitalized Adults with Cystic Fibrosis**/K. Chatterjee, A.A. Mitma, A. Goyal, V.S.R. Koppurapu, B. Alzghoul, L.G. Johnson, R. Jagana, Little Rock, AR, p.A6055

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

C105 CRITICAL CARE: MULTI-ORGAN FAILURE AND NON-PULMONARY CRITICAL CARE - FROM RESEARCH TO PRACTICE

2:15 p.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER

Room 28 C-E (Upper Level)

Abstract Summaries 2:15-2:45

Viewing/Discussion 2:45-4:15

Chairing: D.C. Files, MD, Winston-Salem, NC
M. Hua, MD, MSci, New York, NY

- 501** **Clinical-Laboratory Algorithm for Diagnosis of HIT in Critical Care Settings**/M. Hamarshi, L. Yaqoub, P. Grover, M. Ramakrishnanm, Z. Ali, Kansas City, KS, p.A6040
- 502** **External Validation of the Hit Expert Probability (HEP) Score in Critically Ill Patients**/M. Hamarshi, Z. Ali, P. Grover, L. Yaqoub, M. Ramakrishnanm, Kansas City, MO, p.A6041

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- 517 **Factors Associated with the Development of Acute Kidney Injury in Patients with Acute Respiratory Distress Syndrome/A.** Panitchote, A. Hasting, O. Mehkri, M. Li, T. Hanane, A. Duggal, Cleveland, OH, p.A6056
- 518 **Factors Associated with Acute Kidney Injury and Mortality in Critically Ill Cancer Patients/S.A. Namendys-Silva, B.M.** Cordova-Sanchez, E. Ruiz-Garcia, A. Lopez, A.R. Bautista-Ocampo, M. Barragan-Dessavre, A. Meneses-Garcia, A. Herrera-Gomez, Mexico City, Mexico, p.A6057
- 519 **The Relationship Between Disease Severity and Sleep Quality in the Context of Intensive Care Unit Sleep-Promoting Interventions: A Randomized Controlled Trial/N. Murali, M.A.** Pisani, M.P. Knauert, New Haven, CT, p.A6058
- 520 **Outcomes and Cost Analysis of Patients Admitted to the Intensive Care Unit Due to Spontaneous Intracranial Hemorrhage/K. Kyeremanteng, S. Fernando, P. Reardon, P.** Tanuseputro, K. Thavorn, D. Dowlatshahi, S. English, J. Perry, E. Wijdicks, E. Rosenberg, D. Heyland, Ottawa, Canada, p.A6059
- 521 **Association Between Temperature Variability and Mortality in Hospitalized Patients with Infection/S. Bhavani, K. Carey, D.** Edelson, M.M. Churpek, Chicago, IL, p.A6060
- 522 **Longitudinal Analysis of Acute Physiologic Indicators of ICU Patients Improves Prediction Accuracy of 90-Day Patient Mortality/A. Kovacich, M. Grigsby, B. Morgan, A. Leroux, P.M.** Herrera Aldana, R.A. Roldan, E.L. Paz, A.A. Jaymez, E. Chirinos, J. Portugal, R. Quispe, R.G. Brower, W. Checkley, Baltimore, MD, p.A6061
- 523 **Predictors of Complicated Percutaneous Dilatational Tracheostomy Insertion/J. Hansen, K. Morris, S. Thapamagar, W.** Klein, Loma Linda, CA, p.A6062
- 524 **Understanding the Reproducibility of Randomized Controlled Trials in Critical Care: A Systematic Review/D. Niven, J.** McCormick, T. Barnes, K. Fiest, S. Straus, B. Hemmelgarn, L. Jeffs, H.T. Stelfox, Calgary, Canada, p.A6063
- 902 **Patterns of Progressive Massive Fibrosis on Coal Miner Chest Radiographs 2000 to 2015/C. Halldin, D.J. Blackley, T. Markle,** R.A. Cohen, A.S. Laney, Morgantown, WV, p.A6065
- 903 **Progressive Massive Fibrosis in Central Appalachian Coal Miners - Findings from Three Clinics/D. Blackley, L. Reynolds,** C. Short, R. Carson, E. Storey, C. Halldin, A.S. Laney, Morgantown, WV, p.A6066
- 904 **New Mexico Female Miners Have Lower Odds for COPD than Their Male Counterparts/P. Sen, O.B. Myers, X. Wang, M.** Moreno, R. Karr, T. Sanchez, L. Cook, A. Sood, N.A. Assad, Albuquerque, NM, p.A6067
- 905 **Respiratory Disease Among Miners: Preliminary Results from a Hard Rock Mining Cohort in Ontario, Canada/V.H. Arrandale,** C. Berriault, N.E. Lightfoot, P.A. Demers, Toronto, Canada, p.A6068
- 906 **Lung Function Declines in Former Coal Mine Workers Absent Further Exposure/S. Gandhi, K. Almgberg, L. Go, R.A. Cohen,** Chicago, IL, p.A6069
- 907 **Discordance in Prevalence of Abnormal Spirometry Based on Different Reference Equations in a Depleted Uranium-Exposed Surveillance Cohort/B. Weiler, M. McDiarmid, M. Cloeren, J.** Gaitens, S.E. Hines, Baltimore, MD, p.A6070
- 908 **A Novel Clinical Score for Diagnosing Occupational Asthma/M.** Taghiakbari, J.-A. Pralong, C. Lemiere, G. Moullec, P. Saha-Chaudhuri, A. Cartier, R. Castano, J. l'Archeveque, E. Suarathana, Montréal, Canada, p.A6071
- 909 **Clustering Respiratory Symptoms and Cleaning and Disinfecting Activities and Evaluating Their Associations Among Healthcare Workers/F.-C. Su, M.A. Virji, M. Friesen, M.** Humann, A. Stefaniak, M.L. Stanton, X. Liang, R.F. LeBouf, P. Henneberger, Morgantown, WV, p.A6072
- 910 **Occupational Exposures Influence CT Imaging Characteristics in the Spiromics Cohort/L.M. Paulin, B.M. Smith, A. Koch, M.K.** Han, E.A. Hoffman, C. Martinez, C.O. Ejike, P.D. Blanc, J. Rous, R.G. Barr, S.P. Peters, R. Paine, C.S. Pirozzi, C.B. Cooper, M.T. Dransfield, A.P. Comellas, R.E. Kanner, N. Putcha, N.N. Hansel, Baltimore, MD, p.A6073
- 911 **Strategic Research Objectives for Occupational Respiratory Health from the National Occupational Research Agenda/P.K.** Henneberger, A. Sood, D.N. Weissman, Morgantown, WV, p.A6074
- 912 **Flavoring-Related Lung Disease in a Worker at a Coffee Roasting and Packaging Facility/R.R. Harvey, B.M. Hawley, E.J.** Korbach, A.X. Rawal, V.L. Roggli, R.L. Bailey, J.M. Cox-Ganser, K.J. Cummings, Morgantown, WV, p.A6075
- 913 **Oscillometry and HRCT Complement Spirometry in Follow-Up of Microwave Popcorn Workers/J.M. Cox-Ganser, R.L. Bailey, K.B.** Fedan, D.A. Lynch, K.J. Cummings, Morgantown, WV, p.A6076
- 914 **Lung Cancer Risks Across Different Industries and Occupations in Ontario, Canada: The Establishment of the Occupational Disease Surveillance System (ODSS)/V.H.** Arrandale, J. Jung, S. Feinstein, L. Palma, J. McLeod, C. McLeod, A. Peter, P.A. Demers, Toronto, Canada, p.A6077

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

C106 OCCUPATIONAL LUNG EPIDEMIOLOGY

2:15 p.m. - 4:15 p.m. **MARRIOTT MARQUIS SAN DIEGO MARINA**

Pacific Ballroom 15-17 (North Tower, First Floor)

Abstract Summaries 2:15-2:45
Viewing/Discussion 2:45-4:15

Chairing: S.E. Hines, MD, MSPH, Baltimore, MD
 C. Carlsten, MD, MPH, Vancouver, Canada
 S.D. Krefft, MD, MPH, Denver, CO
 E. Fechter-Leggett, MPVM, DVM, Morgantown, WV

901 **Resurgence of Progressive Massive Fibrosis in U.S. Coal Miners Filing for Federal Black Lung Program Benefits/K.** Almgberg, C.N. Halldin, D.J. Blackley, S. Laney, E. Storey, C.S. Rose, L. Go, R.A. Cohen, Chicago, IL, p.A6064

TUESDAY AFTERNOON

- 915 Longitudinal Analysis of Spirometry in Symptomatic Military Deployers Returning from Iraq and Afghanistan/L. Zell-Baran, S.D. Krefft, M. Strand, J. Wolff, E.B. Gottschall, C. Rose, Denver, CO, p.A6078**
- 916 Rheumatoid Arthritis Risk Associated with Military Occupations/P.D. Blanc, C. Tonner, K. Seal, D. Bertenthal, D. Ying, G. Schmajak, San Francisco, CA, p.A6079**
- 917 Lung Capacity and Compliance Are Associated with Blast Exposure in Veterans of Iraq and Afghanistan/M.J. Falvo, A.M. Sotolongo, N. Jani, J. Klein, O. Osinubi, D. Ndirangu, N. Eager, D. Helmer, East Orange, NJ, p.A6080**
- 918 Successful Treatment of Deployment-Related Constrictive Bronchiolitis with Azithromycin/E. Papierniak, Y. Samra, Gainesville, FL, p.A6081**
- 919 The Effect of Deployment on Pulmonary Function in Active Duty Military Members with Asthma/J. Woods, B. Barber, M.J. Morris, San Antonio, TX, p.A6082**
- 920 Liver Function Enzymes Are Elevated in Deployed Iraq and Afghanistan Veterans and Associated with Pulmonary Function/M.J. Falvo, D. Helmer, G. Guo, L. Wold, N. Eager, J. Klein, D. Ndirangu, A.M. Sotolongo, East Orange, NJ, p.A6083**
- 921 Serum Lipid Profile and Atherogenic Indices of E-Waste Workers in Benin City, Nigeria/A.R. Isara, Y. Akinfenwa, A.Q. Aigbokhaode, Benin, Nigeria, p.A6084**
- 922 Drilling Down on Hard Metal Lung Disease: An Unusual Case of a Dental Lab Technician with Rapidly Progressive Interstitial Lung Disease/L. Santhosh, A. Venado, P.D. Blanc, K.D. Jones, D. Brush, B.J. Ley, San Francisco, CA, p.A6085**
- 923 Granulomatous Pulmonary Disease Associated with Rare Metals (Hafnium and Niobium) in Workers from an Aerospace/Defense Manufacturing Company/S. Sanyal, J.A. Crawford, J.L. Abraham, V. Gimino, Syracuse, NY, p.A6086**
- 802 Methylation Patterns of Lung Function Decline in Human Immunodeficiency Virus/J. Leung, G. Zhou, C.X. Yang, W.-C. Tan, M. Kobor, S. Horvath, D.D. Sin, K.M. Kunisaki, S.-F.P. Man, Vancouver, Canada, p.A6088**
- 803 Exosomal Micro RNAs Shuttling from HIV Viral Protein-Treated Macrophages Disrupt Tight Junction Barrier Integrity and Mitochondrial Biogenesis of Alveolar Epithelial Cells/Z. Yuan, X. Fan, N.M. Maurice, B. Bedi, D.M. Guidot, R.T. Sadikot, Decatur, GA, p.A6089**
- 804 Viral Load, Telomere Length and Microbial Communities in the Gut Lung Axis of HIV Donors/J.S.W. Yang, D.A. Ngan, S. Tam, J. Leung, D.D. Sin, S.-F.P. Man, Vancouver, Canada, p.A6090**
- 805 Differential Expression of Long Noncoding RNAs in Cocaine and HIV-1 Tat treated Pulmonary Smooth Muscle Cells/M. Chinnappan, A. Mohan, P. Chalise, D. Koestler, N.K. Dhillon, Kansas City, KS, p.A6091**
- 806 Prevalence of Low DLCO and/or HRCT Evidence of Emphysema in HIV+ Nonsmokers and Smokers with Normal Spirometry/S. Ruparell, Y. Strulovici-Barel, R.J. Kaner, R.G. Crystal, New York, NY, p.A6092**
- 807 Diagnosis and Management of COPD in HIV-Infected Individuals: Opportunities for Improvement/J.S. Zifodya, M. Triplette, S. Shahrir, E. Attia, K.M. Akgun, G.W. Soo Hoo, C. Wongtrakool, M.C. Rodriguez-Barradas, J.P. Tate, K.A. Crothers, Seattle, WA, p.A6093**
- 808 Doxycycline Is Safe and Well-Tolerated in HIV-Positive Individuals with COPD and/or Early Emphysema/R.J. Kaner, S.L. O'Beirne, T.J. Walsh, R.G. Crystal, M.A. Glesby, New York, NY, p.A6094**
- 809 Is Severity of Obstruction Associated with Lung Cancer Risk in a Cohort of HIV-Infected and Uninfected Patients with COPD?/K.M. Akgun, K. Sigel, K. Cheung, F. Kidwai-Khan, A.K. Bryant, C. Brandt, A. Justice, K.A. Crothers, West Haven, CT, p.A6095**
- 810 The Effect of HIV Status on the Frequency of Acute Respiratory Illness: A Longitudinal Cohort Study/J. Brown, E. Pickett, C. Smith, S. Rofael, T. Mahungu, D. Lowe, S. Madge, M. Youle, M. Johnson, J.R. Hurst, T. McHugh, I. Abubakar, M.C.I. Lipman, London, United Kingdom, p.A6096**
- 811 Marijuana Smoking and Pneumonia Risk: Findings from the Multi-Center AIDS Cohort Study/D.P. Tashkin, J. Quint, R. Detels, Los Angeles, CA, p.A6097**
- 812 A Paradigm Shift of Pulmonary Complications of HIV/ AIDS: A Post Mortem Analysis Over 27 Year Period/K. Hersi, R. Ogunti, H. Yaqoob, D. Ugwendum, T. Okoli, M.N. Fidelia-Lambert, A. Mehari, Washington, DC, p.A6098**
- 813 Lung Function Decline and CD4+T-Cell Counts at ART Initiation in the START Trial/C. Serrano, G. Collins, J. Connett, E. Harrer, S. Ivalo, M. Sajeeda, J. Ross, K.M. Kunisaki, Minneapolis, MN, p.A6099**

POSTER DISCUSSION SESSION

C107 HIV: BENCH TO BEDSIDE

2:15 p.m. - 4:15 p.m. **MARRIOTT MARQUIS SAN DIEGO MARINA**

Grand Ballroom 11-13 (North Tower, Lobby Level)

Poster Viewing **2:15-3:00**

Discussion **3:00-4:15**

Chairing: L. Huang, MD, San Francisco, CA
E. Attia, MD, MPH, Seattle, WA
B.S. Staitieh, MD, Atlanta, GA

- 801 HIV Transgene Expression Increases Matrix Metalloproteinase-9 in Rat Alveolar Macrophages/A. Kukoyi, A.T. Roth, M. Ahmed, X. Fan, S.C. Auld, D.M. Guidot, B.S. Staitieh, Atlanta, GA, p.A6087**

- 814 Pulmonary Effects of Immediate Versus Deferred Antiretroviral Treatment Initiation: Final Follow-Up Results from the Randomized Strategic Timing of Antiretroviral Treatment (START) Pulmonary Substudy/K.M. Kunisaki, D.E. Niewoehner, G. Collins, B. Aagaard, N.B. Atako, E. Bakowska, A. Clarke, G.M. Corbelli, E. Ekong, S. Emery, E.B. Finley, E. Florence, R.M. Infante, C.M. Kityo, J.S. Madero, D.E. Nixon, E. Tedaldi, J. Vestbo, R. Wood, J.E. Connett, Minneapolis, MN, p.A6100**
- 815 HIV Impairs Prostanoid Receptor Expression in Alveolar Macrophages/E. Knott, S.K. Cribbs, A. Kukoyi, X. Fan, D.M. Guidot, B.S. Staitieh, Atlanta, GA, p.A6101**
- 816 The Effect of HIV Infection on the Upper Respiratory Mucosal Immune Environment/S.A. Sellers, K.D. Chason, W.A. Fischer, Chapel Hill, NC, p.A6102**
- 817 Association of Substance Abuse Disorders in HIV Patients with Nontuberculous Mycobacteria/N. Lapinel, S.E. Jolley, J. Ali, D.A. Welsh, New Orleans, LA, p.A6103**
- 818 Use of Magnetic Activated Cell Sorting to Identify Immunoglobulin-Bound Bacteria in Bronchoalveolar Lavage Fluid in Individuals with HIV and COPD/D.G. Dunlap, L. Mullinax, J. Ries, K. Li, A. Fitch, L. Huang, B. Methe, T. Hand, A.M. Morris, Pittsburgh, PA, p.A6104**
- 819 Likelihood that a Visit to a Comprehensive HIV Clinic will Result in Diagnosis of Tuberculosis Co-Infection After First 3 Months of Implementation in Kono, Sierra Leone/K. Kongpakpaisarn, S. Hudey, F. Bangura, J.M. Sesay, A.S. Fillie, A. Kannessie, A. Oxner, Tampa, FL, p.A6105**
- 304 Endothelial Calcitonin Receptor-Like Receptor Is Necessary to Protect Neonatal Mice Against Experimental Bronchopulmonary Dysplasia/B. Shivanna, A. Shrestha, R. Menon, Houston, TX, p.A6109**
- 305 Auranofin Induces Heme Oxygenase-1 Via Nuclear Factor-Dependent Mechanisms in Lung Epithelial Cells/K. Dunigan, Q. Li, R. Li, S. Wall, T.E. Tipple, Birmingham, AL, p.A6110**
- 306 S-Nitrosogluthione Reductase Knock-Out Mice Are Protected from Pulmonary Arterial Hypertensive Changes Following Neonatal Hyperoxic Bronchopulmonary Dysplasia/K. Bonilla Fernandez, A. Jafri, L.A. Smith, A. DiMarino, B.M. Gaston, T.M. Raffay, Caguas, PR, p.A6111**
- 307 Proposed Role of MicroRNA (miR)-99 in Hyperoxia-Induced Acute Lung Injury (HALI) and Bronchopulmonary Dysplasia (BPD)/M. Leong, P. Das, D. Shah, S. Chaubey, V. Bhandari, Philadelphia, PA, p.A6112**
- 308 Characterization of Neonatal Mononuclear Phagocytes in Hyperoxia-Induced Lung Injury with Novel Roles for IL-1 Family Cytokines/L.C. Eldredge, R.S. Creasy, J.-F. Lai, S.F. Ziegler, Seattle, WA, p.A6113**
- 309 Krüppel-Like Factor 4 (Klf4) Regulates ATII Cell Survival and Is Decreased in Lungs of Newborn Mice Exposed to Hyperoxia/J. Mohr, M. Koch, N. Oikonomou, K. Dinger, S. Wickström, C. Vohlen, D. Hirani, M. Odenthal, J. Dötsch, M.A. Alejandre Alcazar, Cologne, Germany, p.A6114**
- 310 Stimulation of Natriuretic Peptide Receptor-C (NPR-C) Induces a Hypoxia-Inducible Factor 1 (HIF-1)-Mediated Response in Alveolar Type II Cells/R.M. Ryan, M.K. Paintlia, D.A. Newton, J.E. Baatz, Charleston, SC, p.A6115**
- 311 Hyperoxic Exposure Causes Metabolic Shifts Towards Pentose Phosphate Pathway, Leading to Abnormal Proliferation in Lung Endothelial Cells/H. Yao, H. Zhao, A.L. Peterson, P.A. Denery, Providence, RI, p.A6116**
- 312 Adenosine Signaling Mediators Are Upregulated in Human Bronchopulmonary Dysplasia/J.L. Davies, H. Li, T.W. Mills, H. Karmouty-Quintana, H.L. Huyck, G.S. Pryhuber, M.R. Blackburn, Houston, TX, p.A6117**
- 313 Functional Respiratory Imaging in Bronchopulmonary Dysplasia: A Novel Imaging Technique/K. Vanhaverbeke, M. Slaats, M. Al-Nejar, N. Everaars, A. Van Eyck, B. De Winter, K. Van Hoorenbeeck, J. De Dooy, L. Mahieu, J. De Backer, W. Vos, B. Mignot, M. Lanclus, A. Mulder, S.L. Verhulst, Wilrijk, Belgium, p.A6118**
- 314 Prevention of Ventilator Induced Lung Injury by Total Liquid Ventilation in an Ovine Neonatal Model of Induced Surfactant Deficiency/M. Sage, S. Marouan, C. Forand-Choinière, C. Berger, M. Nadeau, B. Chabot, P. Micheau, J.-P. Praud, É. Fortin-Pellerin, Sherbrooke, Canada, p.A6119**
- 315 Ventilator Inspiratory Pressure Rise Influences Regional Ventilation in a Simulated Bronchopulmonary Dysplasia Lung Model/I.A. Sammour, R. Chatburn, Cleveland, OH, p.A6120**
- 316 Non-Invasive Assessment of Microvasculature in Infants Using Videomicroscopy/E. Lima Leite Praca, J. Sturm, C.J. Tiller, L.J. Prifogle, J.E. Hatch, J.E. Slaven, S. Gao, G. Hogg, L.S. Haneline, D.M. Haas, R.S. Tepper, Indianapolis, IN, p.A6121**

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

C108 BPD AND OTHER CONGENITAL LUNG DISEASE

2:15 p.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER

Room 6 E (Upper Level)

Abstract Summaries 2:15-2:45

Viewing/Discussion 2:45-4:15

Chairing: L.M. Noguee, MD, Baltimore, MD
T.E. Tipple, MD, Birmingham, AL
K. Lingappan, MBBS, Houston, TX

301 In a Murine Model of Bronchopulmonary Dysplasia, Lung CD103+ Dendritic Cells Display Accelerated Developmental Expansion and Acquire a Secretory Phenotype that Promotes Hypoalveolarization/T.X. Cui, C. Fulton, A.P. Popova, Ann Arbor, MI, p.A6106

302 miR-17~92 Cluster Haploinsufficiency Causes Alveolar and Vascular Simplification In Newborn Mice/M. Robbins, J. Taylor, J. Wang, H.A. Cardona, L.K. Rogers, K.N. Farrow, Chicago, IL, p.A6107

303 How Fibroblast Growth Factors Critical to Mouse Lung Branching Morphogenesis Functionally Compare in Early Human Lung Development/S. Danopoulos, S. Bellusci, D. Warburton, D. Al Alam, Los Angeles, CA, p.A6108

- 317 Effect of Antenatal Betamethasone on Pulmonary Diffusing Capacity and Alveolar Volume of Term Infants/A.**
Bandyopadhyay, J.A. Kisling, C.J. Tiller, C.A. Evrard, L.J. Prifogle, L.S. Haneline, D.M. Haas, R.S. Tepper, Indianapolis, IN, p.A6122
- 318 Diaphragmatic Activity of Extremely Preterm Infants During the Peri-Extubation Period/S.** Latremouille, M. Bhuller, S. Rao, W. Shalish, G.M. Sant'Anna, Montreal, Canada, p.A6123
- 319 Optimizing Noninvasive Respiratory Support in the Delivery Room and Early Caffeine Initiation to Decrease Bronchopulmonary Dysplasia Amongst Infants Born =32 & 0/7 Weeks Gestational Age/L.** Rhein, S. Chu, H. White, C. McGlinchy, J. O'Rourke, L. Owens, Worcester, MA, p.A6124
- 320 Predictors of Lung Function in Former Preterm Infants: A Boston Children's Cohort/L.P.** Hayden, J.M. Gaffin, C.A. Sheils, C.P. Hersh, L.M. Rhein, Boston, MA, p.A6125
- 321 BREATH: An Open-Access Database of Normal Lung Development Generated by the Molecular Atlas of Lung Development Program (LungMAP)/R.** Clark, N.C. Gaddis, J.L. Levy, M. Duparc, H. Pan, G.P. Page, J.A. Whitsett, S.M. Palmer, Durham, NC, p.A6126
- 322 Association of MUC-5B in Pulmonary Hypertension in Preterm Babies with Bronchopulmonary Dysplasia/R.** Siddaiah, N. Fuentes Ortiz, D. Kitch, S. DiAngelo, C. Ojimmuo, V. Aluquin, P. Silveyra, Hershey, PA, p.A7780
- 323 Single Nucleotide Polymorphisms of TGF-Beta Are Associated with Bronchopulmonary Dysplasia and Patent Ductus Arteriosus in Extremely Low Birth Weight Infants/M.** Salton, S. Amatya, A. Zylak, S. Rajbhandari, M. Gordon, U. Paudel, L. Parton, Valhalla, NY, p.A7781
- 324 Genetic Polymorphisms Affecting Myosin Light Chain Phosphorylation and Association with Patent Ductus Arteriosus in ELBW Infants/S.** Rajbhandari, S. Amatya, M. Gordon, U. Paudel, L.A. Parton, Valhalla, NY, p.A7782
- 1002 Comparison of Electrophysiological Remodeling in the Right Ventricles of Rats with Pulmonary Hypertension and Pulmonary Fibrosis-Associated Pulmonary Hypertension/N.**
Cao, M. Vaillancourt, G. Ruffenach, T. Le, S. Moazeni, M. Eghbali, S. Umar, Los Angeles, CA, p.A6128
- 1003 Direct Association Between Mitochondria Alterations and Impaired Contractile Function in Right Ventricular Failure Due to Pressure Overload in Rats/J.L.** Philip, T.-C. Cheng, D.M. Tabima, T.A. Hacker, N.C. Chesler, Madison, WI, p.A6129
- 1004 Pyruvate Dehydrogenase Kinase-Mediated Mitochondrial Metabolism and Fission in Right Ventricular Fibroblasts Promote Right Ventricular Fibrosis in Experimental Pulmonary Arterial Hypertension/L.** Tian, D. Wu, A. Das Gupta, J. Mewburn, K.-H. Chen, K. Dunham-Snary, S.L. Archer, Kingston, Canada, p.A6130
- 1005 Alpha 7 Nicotinic Acetylcholine Receptor (α7 nAChR) Signaling Modulates Right Ventricular Fibrosis in Pulmonary Hypertension/A.** Vang, R.T. Clements, A. Allawzi, N.R. Kue, T.J. Mancini, G. Choudhary, Providence, RI, p.A6131
- 1006 "Hypertrophic" Signal Transduction Pathways in the Decompensated Right Ventricle Muscle in an Animal Model of Pulmonary Hypertension/R.** Rogers, M. Fournier, R.C. Middleton, E. Marban, M.I. Lewis, Los Angeles, CA, p.A6132
- 1007 Long Noncoding RNA H19 in the Development of Pulmonary Arterial Hypertension and Right Ventricular Failure/J.** Omura, T. Peterlini, S. Provencher, S. Bonnet, Quebec City, Canada, p.A6133
- 1008 Contributions of Myocardial Mechanics to Right Ventricular Failure: Model Simulations and Predictions/J.L.** Philip, R.J. Pewowaruk, C.S. Chen, M. Mark Nyame, D.M. Tabima, A.J. Baker, N.C. Chesler, Madison, WI, p.A6134
- 1009 Decreased Myocardial Perfusion Reserve Predicts Poor Survival in PAH/R.L.** Damico, C. Ireland, S.C. Mathai, T.M. Kolb, S.L. Zimmerman, J. Vogel-Claussen, P.M. Hassoun, Baltimore, MD, p.A6135
- 1010 Wall Tension and Not Hypoperfusion Mediates Neurohormonal Activation of the Right Ventricle in Pulmonary Arterial Hypertension/J.A.** Groeneveldt, C.E. van der Bruggen, M.T. Rijnierse, J.S.J.A. van Campen, P.G. Raijmakers, M.C. Huisman, A.A. Lammertsma, H.J. Bogaard, C.P. Allaart, N. Westerhof, B.E. Westerhof, A. Vonk Noordegraaf, F.S. De Man, Amsterdam, Netherlands, p.A6136
- 1011 A Multi-Harmonic Approach Towards Characterizing Right Ventricle - Pulmonary Artery Interaction/A.** Muralidhar, C. Meadows, C. Abbott, C. Carter, K.R. Stenmark, K.S. Hunter, T.M. Bull, Aurora, CO, p.A6137
- 1012 Diastolic Compliance, Systolic Contractility and TRPG: New Ratios of Right Ventricular and Pulmonary Arterial Function in Pulmonary Arterial Hypertension/T.** Crowe, G. Jayasekera, M.K. Johnson, A.C. Church, A.J. Peacock, Glasgow, United Kingdom, p.A6138
- 1013 End-Systolic Dyssynchrony Significantly Impacts Determination of Right Ventricular Ejection Fraction by Novel Method of Volumetric Analysis Using Cardiac MRI/K.**
Wickstrom, J. Rosado-Toro, R.R. Vanderpool, R. Puri, S. Airhart, M. Altbach, R. Avery, F.P. Rischard, Tucson, AZ, p.A6139

POSTER DISCUSSION SESSION

C109 SURF CITY: EXERCISE AND RV FUNCTION IN PH

2:15 p.m. - 4:15 p.m. MARRIOTT MARQUIS SAN DIEGO MARINA

Pacific Ballroom 24-26 (North Tower, First Floor)

Poster Viewing 2:15-3:00

Discussion 3:00-4:15

Chairing: T. Lahm, MD, Indianapolis, IN
E. Brittain, MD, Nashville, TN
C.E. Ventetuolo, MD, MSCR, Providence, RI

1001 Right Ventricle-Pulmonary Artery Uncoupling Precedes the Development of Pulmonary Hypertension In Vivo/B.M.
Wertheim, A.O. Samokhin, G.A. Alba, E. Arons, T.M. Kolb, R.J. Tedford, B.A. Maron, Boston, MA, p.A6127

- 1014 **The Dilemma of Methods: Fick Vs Thermodilution Cardiac Output in Pulmonary Hypertension**/B.A. Jalil, B. Salgado, R. Cavallazzi, K. El-Kersh, Louisville, KY, p.A6140
- 1015 **Simplified Pressure Volume Loops Overestimate RV Function in a Load Dependent Fashion in Patients with PAH**/R.R. Vanderpool, J.A. Rosado-Toro, K. Wickstrom, R. Puri, S. Airhart, M.I. Altbach, R.J. Avery, J.X.J. Yuan, F.P. Rischard, Tucson, AZ, p.A6141
- 1016 **The Relationship of Cardiac Output to Alveolar-Capillary Expansion in Response to Exercise to Identify and Track PAH Patients**/C. Wheatley, G.M. Stewart, G. Patangey, K.E. Joyce, B. Ziegler, B.S. Cierzan, B.D. Johnson, Scottsdale, AZ, p.A6142
- 1017 **Reduced Right Ventricular Contractile Reserve in Patients with Systemic Sclerosis and Borderline Pulmonary Arterial Pressures**/E. Grünig, A. Marra, B. Egenlauf, S. Harutyunova, N. Blank, H.-M. Lorenz, C. Fiehn, N. Benjamin, C. Fischer, A. Cittadini, E. Bossone, C. Nagel, Heidelberg, Germany, p.A6143
- 1018 **Impaired Systemic Oxygen Extraction in Treated Exercise Pulmonary Hypertension: A New Engine in an Old Car?**/M. Faria Urbina, R. Oliveira, S. Segre, L. Lawler, A.B. Waxman, D.M. Systrom, Boston, MA, p.A6144
- 1019 **Biomarker Diagnostics for Pulmonary Hypertension, Management by Exercise Training or Supplemental Oxygen**/G. Grunig, C.A. Eichstaedt, S. Ulrich, N. Durmus, K.E. Bloch, E. Gruenig, S. Pylawka, Tuxedo, NY, p.A6145
- 1020 **Exercise Intolerance in Preload Failure Treated with Pyridostigmine**/M. Faria Urbina, R. Oliveira, A.L. Oaklander, A.B. Waxman, D.M. Systrom, Boston, MA, p.A6146
- 1021 **Right Ventricular Dysfunction in Young Adults Born Premature**/K. Goss, A.G. Beshish, J. Macdonald, G. Barton, A. Mulchrone, N.C. Chesler, C. Francois, O. Wieben, M.W. Eldridge, Madison, WI, p.A7783
- 102 **A Prospective, Randomized, Controlled Trial of Ergonomic Outcomes Comparing Rotational Head to Conventional Bronchoscopes During Bronchoscopy**/C. Gilbert, J. Thiboutot, C. Mallow, D.H. Yu, N.J. Pastis, B. Salwen, C. Argento, A. Chen, H.J. Lee, L.B. Yarmus, Seattle, WA, p.A6148
- 103 **Mortality Predictors in Interventional Pulmonology Common Diagnoses: Insight from National Inpatient Sample Database**/S. Alqalyoobi, S.-Y. Liao, N. Stollenwerk, K.Y. Yoneda, C. Phan, Sacramento, CA, p.A6149
- 104 **Standardized Sample Handling During Endobronchial Ultrasound Guided Transbronchial Needle Aspiration Enhances Yield in the Diagnosis and Staging of Lung Cancer**/S. Newhouse, S. Klebe, A. Williams, D. Moffat, R. Woodman, J. D'Costa, A. Rose, Bedford Park, Australia, p.A6150
- 105 **Radiation Dose to Patients and Clinicians During Biopsy of Peripheral Pulmonary Lesions Guided by Augmented Fluoroscopy**/K. Bhadra, Chattanooga, TN, p.A6151
- 106 **The Role of EBUS-TBNI Cisplatin Injection Strategies in Lung Tumor Treatment**/V. Mori, J.H.T. Bates, G.S. Roy, H. Mehta, C.M. Kinsey, Burlington, VT, p.A6152
- 107 **First in Human Use of a Hybrid Real-Time Ultrasound-Guided Fine Needle Acquisition System for Peripheral Pulmonary Lesions: A Multicenter Pilot Study**/L.B. Yarmus, G.A. Silvestri, N.J. Pastis, A.C. Chen, Baltimore, MD, p.A6153
- 108 **Use of Augmented Fluoroscopic Navigation and Guidance Technology with Transbronchial Cryo Biopsy to Acquire Tissue from Peripheral Lung Nodules**/B. Pertzov, A. Unterman, M. Heching, E. Gershman, D. Rosengarten, M.R. Kramer, Petach-Tikva, Israel, p.A6154
- 109 **Adequacy of the Performance of Endobronchial Ultrasound-Transbronchial Needle Aspiration (EBUS-TBNA) by Full Time Bronchoscopists (Interventional Pulmonary Specialists - IP Group) Versus Non-Full Time Advanced Diagnostic Bronchoscopists (ADB Group): The C/C.A. Aravena Leon, Y. Sarda, J. Reynolds, J. Brainard, J.C. Cicienia, S. Sethi, T.R. Gildea, M. Machuzak, A.C. Mehta, H. Choi, P.J. Mazzone, B.P. Young, L.S.H. Lam, M.L. Ribeiro Neto, F.A. Almeida, Santiago, Chile, p.A6155**

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

C110 INTERVENTIONAL PULMONOLOGY: THE SWISS ARMY KNIFE FOR THORACIC ONCOLOGY

2:15 p.m. - 4:15 p.m. SAN DIEGO CONVENTION CENTER
 Room 5 A-B (Upper Level)

Abstract Summaries 2:15-2:45
Viewing/Discussion 2:45-4:15

Chairing: R. Semaan, MD, Pittsburgh, PA
 B. Furukawa, MD, Loma Linda, CA
 L. Mudambi, MD, Portland, OR
 A.D. Lerner, MD, Baltimore, MD

101 **Outcome of PD-L1 Testing in Endobronchial Ultrasound Guided Transbronchial Needle Aspiration (EBUS-TBNA)**/ N. Al Nasrallah, K.J. Diab, Indianapolis, IN, p.A6147

110 **Augmented Endobronchial Fluoroscopic Navigation and Localization System: Comparison with Cone Beam CT**/M. Pritchett, Pinehurst, NC, p.A6156

111 **A Pilot Study of Endobronchial Ultrasound Guided Transbronchial Needle Aspiration for Immunophenotyping the Lung Cancer Tumor Microenvironment**/E. Moon, S. O'Brien, J. Thompson, S. Kim, K. Ma, D. DiBardino, A. Lanfranco, A. Vachani, A. Haas, S. Albelda, Philadelphia, PA, p.A6157

112 **PD-L1 Testing of EBUS-TBNA Samples Acquired for the Diagnosis and Staging of Non-Small Cell Lung Cancer: Feasibility and Results**/A. Smith, H. Wang, A. Zerbo, S. Beaudoin, L.M. Ofiara, A. Benedetti, A.V. Gonzalez, Montreal, Canada, p.A6158

113 **Experienced Bronchoscopists Demonstrate Improved Ergonomics with a Rotational Head Bronchoscope When Performing Simulated Bronchoscopy**/J. Thiboutot, C. Gilbert, C. Mallow, D.H. Yu, M. Dinga, D. Lutz, N.J. Pastis, C. Argento, A. Chen, H.J. Lee, L.B. Yarmus, Baltimore, MD, p.A6159

TUESDAY AFTERNOON

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- 114 **Open Bronchus Sign: A Risk Factor for Hemoptysis After Percutaneous Transthoracic Biopsy**/H. Kim, C.M. Park, S.H. Yoon, E.J. Hwang, J.H. Lee, S.Y. Ahn, J.M. Goo, Seoul, Korea, Republic of, p.A6160
- 115 **Long-Term Quality Adjusted Survival Following Therapeutic Bronchoscopy for Malignant Central Airway Obstruction**/P. Ong, H. Grosu, L.G. Debiase, R.F. Casal, G.A. Eapen, C.A. Jimenez, L. Noor, D.E. Ost, San Antonio, TX, p.A6161
- 116 **Diagnostic Yield of Electromagnetic Navigation Bronchoscopy for Peripheral Pulmonary Lesions: One-Year Results of the Prospective, Multicenter NAVIGATE Study**/E.E. Folch, M.R. Bowling, M.A. Nead, M.A. Pritchett, G.P. LeMense, T.R. Gildea, R.I. Bechara, A.K. Mahajan, B.C. Ellis, B.A. Murillo, D.J. Minnich, S.J. Khandhar, Boston, MA, p.A7784

4:30 p.m.-6:30 p.m.

SECTION MEMBERSHIP MEETINGS

The Section meetings are open to all ATS members and other interested individuals. Items to be discussed include the Sections' current projects and future directions.

MEDICAL EDUCATION

MANCHESTER GRAND HYATT SAN DIEGO
Seaport Ballroom A (Second Level, Seaport Tower)

Chairing: Jennifer W. McCallister, MD, Columbus, OH
Henry Fessler, MD, Baltimore, MD

TERRORISM AND INHALATION DISASTERS

MANCHESTER GRAND HYATT SAN DIEGO
Seaport Ballroom B (Second Level, Seaport Tower)

Chairing: Carl W. White, MD, Denver, CO
Sven Jordt, PhD, Chapel Hill, NC



ATS 2018
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International Conference
San Diego, CA
Wednesday Morning, May 23

CLINICAL

PEDIATRIC CLINICAL CORE CURRICULUM

CME Credits Available: 1
MOC Points Available: 1

PCC4 PEDIATRIC CLINICAL CORE CURRICULUM

7:00 a.m. - 8:00 a.m. **SAN DIEGO CONVENTION CENTER**

Room 6 A (Upper Level)

Target Audience

Pediatric pulmonary and critical care physicians who work in a clinical setting and are currently engaged in maintenance of certification

Objectives

At the conclusion of this session, the participant will be able to:

- remain current with medical knowledge relevant to their practice in pediatric pulmonology;
- evaluate their understanding of key skills and content areas in pediatric pulmonology as well as receive feedback on their comprehension of a result of a pre-test/post-test comparison;
- support clinicians who are engaged in maintenance of certification activities by providing updates on subjects included in recertification requirements.

The Pediatric Core Curriculum symposia promote lifelong learning and the enhancement of the clinical judgment and skills essential for practicing pediatrician. The symposia will address topics that have been identified by an ATS pediatric working group, which is comprised of members of the ATS Education Committee and the International Conference Committee, who have identified important areas within pediatric medicine (including severe asthma, ILD, BPD, pulmonary hypertension and pulmonary manifestations of pulmonary disease). Attendees will increase their medical knowledge as a result of attending this symposium, and this will be measured by a comparison of pre-test vs. post-test results on the corresponding maintenance of certification module. The ATS Pediatric Core Curriculum will focus on a 3-year content cycle of key medical content in the area of pediatric medicine.

Chairing: J. Retting, MD, Boston, MA

7:00 New Concepts in Pediatric Pulmonary Physiology
C.L. Ren, MD, Indianapolis, IN

7:30 How Pulmonary Physiology Guides Intensive Care Management
P.A. Verhoef, PhD, MD, Chicago, IL

SUNRISE SEMINARS

CME Credits Available: 1

R Registration Fee: \$50.00 (includes continental breakfast.)
Attendance is limited. Pre-registration is required.

7:00 a.m. - 8:00 a.m. **MARRIOTT MARQUIS SAN DIEGO MARINA**

- SS301 LOOKING FOR PATTERNS AND BEYOND IN RESPIRATORY DISEASES**
B. Suki, PhD, Boston, MA
T. Winkler, PhD, Boston, MA
Grand Ballroom 1 (North Tower, Lobby Level)
- SS302 WHAT'S IN A NAME? ENDOTYPES AND PERSONALIZED MEDICINE IN LUNG DISEASE: 2018 AND BEYOND**
D. Russell, MD, Birmingham, AL
Grand Ballroom 2 (North Tower, Lobby Level)
- SS303 ILD AND THE ANTISYNTHEASE SYNDROME: DIAGNOSTIC AND TREATMENT CHALLENGES**
R. Hallowell, MD, Boston, MA
Grand Ballroom 3 (North Tower, Lobby Level)
- SS304 OPTIMIZING MY PATIENT FOR LUNG TRANSPLANTATION: A STEP BY STEP GUIDE TO REFERRAL, EVALUATION AND SELECTION**
A. Venado, MD, San Francisco, CA
Grand Ballroom 4 (North Tower, Lobby Level)
- SS305 DIAGNOSTIC APPROACH TO THE ADULT PATIENT WITH CYSTIC LUNG DISEASE**
A. Kumar, MD, Grand Rapids, MI
Presidio 1 (North Tower, Lobby Level)
- SS306 CONTROVERSIES IN THE DIAGNOSIS AND MANAGEMENT OF MALIGNANT PLEURAL EFFUSIONS**
O. Epelbaum, MD, Valhalla, NY
Presidio 2 (North Tower, Lobby Level)
- SS307 "SARCOIDOLOGIST": THE SHIP NEEDS A CAPTAIN**
K. Provost, DO, PhD, Buffalo, NY
Temecula 1-2 (North Tower, First Floor)
- SS308 COMPLICATIONS OF BRONCHOSCOPY: MANAGEMENT STRATEGIES AND PREVENTION**
C. Argento, MD, Chicago, IL
Temecula 3-4 (North Tower, First Floor)
- SS309 CLINICAL FRAILTY: A FUNCTIONAL OUTCOME IN IPF**
J.S. Sheth, MD, Ann Arbor, MI
Leucadia (South Tower, First Floor)
- SS310 A GLOBAL PERSPECTIVE ON SEPSIS: IDENTIFICATION AND MANAGEMENT IN LOW, MIDDLE AND HIGH INCOME COUNTRIES**
S.T. Jacob, MD, MPH, Liverpool, United Kingdom
S. Murthy, MD, Vancouver, Canada
Point Loma (South Tower, First Floor)

- SS311 UP IN SMOKE: THE EFFECT OF ALTITUDE AND SMOKE EXPOSURE ON LUNG GENE EXPRESSION**
J.P. Metcalf, MD, Oklahoma City, OK
Solana (South Tower, First Floor)
- SS312 TAKE A DEEP BREATH: AEROSOLIZED ANTIBIOTICS FOR LUNG DISEASE**
G. Hong, MD, MHS, Philadelphia, PA
Balboa (South Tower, Third Floor)
- SS313 WHEN IT'S NOT THE HEART: THE PULMONOLOGIST IN THE CARDIOLOGY CLINIC**
D. Liptzin, MD, MS, Aurora, CO
Mission Hills (South Tower, Third Floor)
- SS314 CREATING A PULMONARY EMBOLISM RESPONSE TEAM**
P. Rali, MD, Philadelphia, PA
Cardiff (South Tower, Third Floor)
- SS315 ORGANS-ON-CHIPS FOR THE LUNGS: ADVANCED MICROPHYSIOLOGICAL SYSTEMS FOR BIOMARKER DISCOVERY AND DRUG DEVELOPMENT**
K. Hajipouran Benam, PhD, Aurora, CO
Del Mar (South Tower, Third Floor)
- SS316 INVESTIGATING THE 3D PATHOLOGY OF THE HUMAN LUNG USING MULTI-RESOLUTION COMPUTED TOMOGRAPHY AND STEREOLOGY**
D.M. Vasilescu, PhD, Vancouver, Canada
Miramar (South Tower, Third Floor)
- SS317 POSITIONAL THERAPY FOR THE TREATMENT OF OSA: EPIDEMIOLOGY, PATHOPHYSIOLOGY AND TREATMENT OPTIONS**
G. Hamilton, MBBS, PhD, Clayton, Australia
Palomar (South Tower, Third Floor)

BASIC • CLINICAL • TRANSLATIONAL**ATS KEYNOTE SERIES**

CME Credits Available: .75

The Keynote Series provides state of the art lectures on selected topics in an unopposed format showcasing timely and diverse topics which relate to pulmonary, critical care and sleep medicine.

*Two sessions are presented each morning during the conference.
Below are the topics for Wednesday, May 23rd*

K7 ON PHARMA: THE COMPLEXITY OF INNOVATION

8:15 a.m. - 9:00 a.m.

SAN DIEGO CONVENTION CENTER

Room 6 B (Upper Level)

Speaker: Theodore F. Reiss, MD, MBE, New Hope, PA

K8 THE PULMONOLOGIST AS MEDICAL EDUCATOR: A PERSONAL PERSPECTIVE

8:15 a.m. - 9:00 a.m.

SAN DIEGO CONVENTION CENTER

Room 6 C/F (Upper Level)

Speaker: Steven E. Weinberger, MD, Philadelphia, PA

FACULTY DEVELOPMENT SEMINAR**FD3 THE MENTOR/MENTEE RELATIONSHIP: HOW TO FORM AN EFFECTIVE PARTNERSHIP AND RESOLVE CONFLICTS**

Conference badges are required for admission.

Space is limited and admittance is on a first-come, first-served basis.

There is no additional fee.

7:00 a.m. - 8:00 a.m.

SAN DIEGO CONVENTION CENTER

Room 2 (Upper Level)

Target Audience

Early and mid-career clinical and/or research faculty, clinical and postdoctoral fellows, medical and graduate students, residents, nurses, and allied health professionals involved in or seeking careers in academic pulmonary, critical care and/or sleep medicine

Objectives

At the conclusion of this session, the participant will be able to:

- describe the importance of the mentor-mentee relationship and how this relationship will mature and change over time as the early career professional develops their independent career;
- describe a plan for achieving independence from their mentor, and delineate a plan to openly discuss and negotiate this transition;

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- develop a specific career development plan for working with their mentor(s).

Supportive relationships between mentor and mentee are critical for early career professionals' success. Mentors can provide advice, infrastructure, monetary, and other support critical to mentees' success. Successful mentors must recognize that each mentee has different qualities, capabilities and challenges. As part of career development, however, it is necessary for early career professionals to establish an independent career path that is distinguished from their mentors. This is a process and should be handled thoughtfully and openly by both the mentor and mentee. This session will focus on how to foster a supportive partnership and anticipate and resolve any conflicts in the mentor/mentee relationship.

Chairing: G.P. Downey, MD, Denver, CO

Speakers: T. Blackwell, MD, Nashville, TN
 B. Moore, PhD, Ann Arbor, MI
 Z. Borok, MD, Los Angeles, CA
 I. Petrache, MD, Denver, CO

CLINICAL
YEAR IN REVIEW
CME Credits Available: 2
MOC Points Available: 2

D1 CLINICAL YEAR IN REVIEW 4

9:15 a.m. - 11:15 a.m. SAN DIEGO CONVENTION CENTER

Hall H (Ground Level)

Target Audience

Providers including physicians, nurses, respiratory therapists, nurse practitioners, physician assistants; trainees including residents and fellows; clinical researchers

Objectives

At the conclusion of this session, the participant will be able to:

- apply new clinical research knowledge to clinical practice;
- learn new findings about key conditions in pulmonary, critical care and sleep;
- have new strategies to manage the care of common conditions in pulmonary, critical care, and sleep.

The annual Clinical Year in Review symposia provides concise summaries of the most impactful clinical research publications related to specific clinical topics.

Speakers will highlight 5 of the most important and influential publications on their topic in written format and during their talks.

Chairing: D.W. Ford, MD, Charleston, SC
 V.E. Ortega, MD, PhD, Winston Salem, NC
 J.S. Lee, MD, Aurora, CO

9:15 General Critical Care
 H.C. Prescott, MD, MSci, Ann Arbor, MI

9:45 Quality Improvement in Critical Care
 A. Amaral, MD, Toronto, Canada

10:15 Health Disparities
 E. Forno, MD, MPH, Pittsburgh, PA

10:45 Nosocomial Pneumonia
 M. Klompas, MD, MPH, Boston, MA

CLINICAL • TRANSLATIONAL
CLINICAL TOPICS IN PULMONARY MEDICINE
CME Credits Available: 2
MOC Points Available: 2

D2 UNDERSTANDING CHRONIC LUNG ALLOGRAFT DYSFUNCTION: UPDATE FROM THE BEDSIDE AND BENCH

Assemblies on Clinical Problems; Allergy, Immunology and Inflammation; Respiratory Cell and Molecular Biology

9:15 a.m. - 11:15 a.m.

SAN DIEGO CONVENTION CENTER

Ballroom 20 B-C (Upper Level)

Target Audience

Clinicians, researchers and patient care providers in the field of lung transplantation

Objectives

At the conclusion of this session, the participant will be able to:

- learn novel methodologies for monitoring graft function in lung transplant recipients and evaluating chronic graft failure;
- better define prognosis and select suitable treatment options for patients with CLAD;
- become aware of the ongoing research in the field and potential new therapeutic options on the horizon.

Recent discoveries in the clinical and basic science arena have changed the clinical and scientific approach to chronic graft failure after lung transplantation. This session will be of interests to clinicians and researchers alike. New clinical tools to phenotype patients, to improve prognostication, and to tailor therapeutic interventions in chronic lung allograft dysfunction (CLAD) will be discussed. Novel clinical, translational, and basic science methods being employed to further our understanding of CLAD will be reviewed.

Chairing: A.R. Glanville, MD, MBBS, Sydney, Australia
 E. Belloli, MD, Ann Arbor, MI
 V.N. Lama, MD, MS, Ann Arbor, MI

9:15 The CLAD Nomenclature: What Is in This Basket?
 G.M. Verleden, MD, PhD, Leuven, Belgium

9:35 Graft Monitoring and Prognostication: How Can We Use Physiologic and Radiologic Methodologies to Guide Patient Care?
 E. Belloli, MD, Ann Arbor, MI

9:55 Immune Modulation as a Key in Targeting CLAD: Are We Getting Any Wiser?
 D. Kreisel, MD, PhD, St. Louis, MO

10:15 Is It All Fibrosis? Fibrotic Mechanisms in Pathogenesis of CLAD and Role of Anti-Fibrotic Therapeutic Modalities
 V.N. Lama, MD, MS, Ann Arbor, MI

10:35 Role of Guidelines in Advancing Clinical Care and Research in the Lung Transplant Arena
 A.R. Glanville, MD, MBBS, Sydney, Australia

WEDNESDAY MORNING

CLINICAL

CLINICAL TOPICS IN PULMONARY MEDICINE

CME Credits Available: 2

MOC Points Available: 2

D3 WOMEN AND LUNG DISEASE

Assemblies on Clinical Problems; Behavioral Science and Health Services Research; Environmental, Occupational and Population Health

9:15 a.m. - 11:15 a.m.

SAN DIEGO CONVENTION CENTER

Ballroom 20 D (Upper Level)

Target Audience

Providers of lung health

Objectives

At the conclusion of this session, the participant will be able to:

- advance clinicians and researchers knowledge about gender differences in specific pulmonary diseases (COPD, Lung Cancer, PAH, ILD, and Asthma);
- facilitate the integration of newly acquired knowledge into clinical practice by personalizing and improving management of women with specific lung diseases;
- improve patient related outcomes by delivering personalized medicine and identifying new areas for research leading to novel approaches.

Sex differences exist in pulmonary medicine. Certain diseases present differently in females, have a greater severity compared to males, or affect women almost exclusively. Some disorders have been traditionally viewed as male-specific (COPD) or are rare diseases and diagnostic delays are common. Potential theories include detrimental effects of sex hormones, gender susceptibility and differences in lifestyle. Data also suggests that outcomes differ in females in specific pulmonary diseases. Current guidelines lack tailored approach to diagnose and manage women with pulmonary disorders. Nevertheless, experts in the field believe that more research leading to personalized management is needed to improve outcomes.

Chairing: T.Y. Beiko, MD, Charleston, SC
K.K. Guntupalli, MD, Houston, TX

9:15 A Patient's Perspective
P. Ortiz, Escondido, CA

9:20 Asthma in Women
K.K. Guntupalli, MD, Houston, TX

9:43 COPD in Women
T.Y. Beiko, MD, Charleston, SC

10:06 ILD in Women
T.P. Whelan, MD, Charleston, SC

10:29 Lung Cancer in Women
B. Bade, MD, New Haven, CT

10:52 PAH in Women
R.G. Argula, MBBS, MPH, Charleston, SC

This session and the International Conference are supported by educational grants from Actelion Pharmaceuticals US, Inc., AstraZeneca LP, Bayer US, GlaxoSmithKline, Sanofi Genzyme and Regeneron Pharmaceuticals, Sunovion Pharmaceuticals Inc. All CME sessions have been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) and are free of the control of commercial interests.

CLINICAL

CRITICAL CARE TRACK

CME Credits Available: 2

D4 EXTRACORPOREAL LIFE SUPPORT FOR RESPIRATORY FAILURE IN ADULTS: KEEPING PACE WITH THE DATA

9:15 a.m. - 11:15 a.m.

SAN DIEGO CONVENTION CENTER

Ballroom 20 A (Upper Level)

Target Audience

Clinicians and researchers, including trainees, with an interest in critical care and the management of patients with ECLS for respiratory failure

Objectives

At the conclusion of this session, the participant will be able to:

- understand the role, impact, and limitations of the application of ECLS in ARDS;
- apply best conventional management strategies in ARDS;
- learn new findings about the use of ECLS for hypercarbic respiratory failure and bridge to lung transplantation.

Extracorporeal Life Support (ECLS), including extracorporeal membrane oxygenation (ECMO) and extracorporeal carbon dioxide removal (ECCO2R), is increasingly used in severe respiratory failure. However, the data supporting the use of ECLS are limited. This session will review the best available evidence regarding ECLS in the context of the acute respiratory distress syndrome, chronic obstructive pulmonary disease, and end-stage lung disease when ECLS is implemented as a bridge to transplantation. Emphasis will be placed on the anticipated results from the recently concluded EOLIA trial, the use of ECCO2R to minimize invasive mechanical ventilation, and how ultra-protective ventilation may be applied without ECLS.

Chairing: R.S. Stephens, MD, Baltimore, MD
D. Abrams, MD, New York, NY
C.L. Hodgson, PhD, Melbourne, Australia

9:15 EOLIA: Putting It Into Context
N.D. Ferguson, MD, MSc, Toronto, Canada

9:40 ECCO2R: The Future of Extracorporeal Support for ARDS?
M. Gillies, MD, Edinburgh, United Kingdom

10:00 We Don't Need ECLS for ARDS: Ultra-Protective Ventilation Without ECLS
M.N. Gong, MS, MD, Bronx, NY

10:20 ECCO2R for COPD: Where Do We Stand?
D. Brodie, MD, New York, NY

10:40 ECLS as Bridge to Transplant
D. Abrams, MD, New York, NY

11:00 Panel Discussion
R.S. Stephens, MD, Baltimore, MD

BASIC • CLINICAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

D5 MECHANOBIOLOGY IN THE AIRWAY ENVIRONMENT: FEEL THE FORCE

Assemblies on Respiratory Structure and Function; Allergy, Immunology and Inflammation; Respiratory Cell and Molecular Biology

9:15 a.m. - 11:15 a.m. MARRIOTT MARQUIS SAN DIEGO MARINA

Pacific Ballroom 18-19 (North Tower, First Floor)

Target Audience

Basic and translational scientists who wish to learn about emerging concepts in cell mechanics; impact of cell mechanics on airway function; in-vitro methods for characterizing cellular response to mechanical stimuli

Objectives

At the conclusion of this session, the participant will be able to:

- appreciate newly discovered aspects of cell mechanics and its inter-relationships with airway function;
- learn new findings about physical mechanisms that may be independent of type 2 inflammation in asthma;
- target cell mechanics in drug screening and evaluation to overcome airway dysfunction.

Virtually all airway diseases involve alteration in cell mechanics. The extent to which these cell-level changes are influenced by intrinsic (stiffness, contraction, and gene expression) or extrinsic (exposures to environmental stimuli) factors, or combinations of both, remains unclear. This session will highlight our current knowledge, providing biomechanical insights into the complex mechanisms that make airway cells susceptible, or not, to mechanical dysfunction.

Chairing: R. Krishnan, PhD, MS, Boston, MA
A.J. Ammit, PhD, Ultimo, Australia
C. Pascoe, PhD, Winnipeg, Canada

9:15 Introduction

R. Krishnan, PhD, MS, Boston, MA

9:21 Contractile Responses of Bioengineered Muscle Microtissues Under Physiologic and Pathologic Loading Conditions

B. Fabry, PhD, Erlangen, Germany

9:40 Studying Morphogenesis and Remodeling in Airway Organoids

D.J. Tschumperlin, PhD, Rochester, MN

9:59 Fluctuation-Driven Mechanotransduction Drives Mitochondrial-Network Structure and Function

B. Suki, PhD, Boston, MA

10:18 Unjamming Transition of the Airway Epithelium: A Biomechanical Link to Asthma

J.A. Park, PhD, Boston, MA

10:37 Tissue-Based Human Pulmonary Models for Mechanotransduction Research

D.E. Wagner, PhD, Lund, Sweden

10:56 The Role of Extracellular Matrix Forces in Asthma

T.L. Hackett, PhD, Vancouver, Canada

BASIC • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

D6 MANIPULATING INFLAMMATORY AND EPITHELIAL NETWORKS FOR PREVENTION AND TREATMENT OF LUNG CANCER

Assemblies on Thoracic Oncology; Allergy, Immunology and Inflammation; Respiratory Cell and Molecular Biology

9:15 a.m. - 11:15 a.m. SAN DIEGO CONVENTION CENTER

Room 16 A-B (Mezzanine Level)

Target Audience

Basic and translational researchers with an interest in the interaction between the airway epithelium and inflammatory cells, especially in premalignancy and early cancer

Objectives

At the conclusion of this session, the participant will be able to:

- learn about new findings in interactions between the immune system and cancer cells;
- improve knowledge about immunotherapy and novel therapies aiming to manipulate immune evasion;
- understand the role of the immune system in cancer prevention.

Major recent advances in cancer biology have brought interactions between inflammatory and epithelial cells into sharp focus. Epithelial oncogenic alteration can predate tumor formation and may activate or inhibit inflammatory surveillance networks. The dynamics of this interaction dictate how a tumor may form, regress, or progress. This session will explore these dynamics, with a focus on strategies to manipulate the interaction of premalignant and malignant epithelial cells with infiltrating inflammatory cells to prevent or treat lung cancer.

Chairing: E. Ostrin, MD, PhD, Houston, TX
S.J. Moghaddam, MD, Houston, TX
R. Savai, PhD, Bad Nauheim, Germany

9:15 A Patient's Perspective

B. Johnson-Filipiak, Ottawa Hills, OH

9:20 The Role of the Immunoproteasome in Lung Carcinogenesis

E. Ostrin, MD, PhD, Houston, TX

9:40 Immune Checkpoint Inhibition in Lung Cancer Chemoprevention

R.L. Keith, MD, Denver, CO

10:00 Interplay Between STAT3/NF-κB Mediated Cytokine Network and Estrogen Signaling in K-Ras Mutant Lung Tumorigenesis

S.J. Moghaddam, MD, Houston, TX

10:20 Immunometabolism in Early and Advanced Lung Cancer

F. Kheradmand, MD, Houston, TX

10:40 Cancer Cell and Macrophage Cross-Talk in the Lung Tumor Microenvironment

R. Savai, PhD, Bad Nauheim, Germany

BASIC • CLINICAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

D7 FROM CANCER BIOLOGY TO NEW THERAPEUTICS: TARGETING CELL PROLIFERATION SIGNALING HUBS IN PULMONARY HYPERTENSION AND FIBROSIS

Assemblies on Pulmonary Circulation; Respiratory Cell and Molecular Biology; Respiratory Structure and Function; Thoracic Oncology

9:15 a.m. - 11:15 a.m. SAN DIEGO CONVENTION CENTER

Room 15 A-B (Mezzanine Level)

Target Audience

Clinicians and scientists who are interested in understanding the mechanisms driving disease pathogenesis and novel therapeutic developments in pulmonary hypertension, pulmonary fibrosis and lung cancer

Objectives

At the conclusion of this session, the participant will be able to:

- understand the mechanistic roles of major pro-proliferative signaling pathways that act as “central signaling hubs” in PH, IPF and cancer;
- learn new findings about cellular, pre-clinical and clinical studies focused on cancer-shared PH and IPF abnormalities;
- learn about novel and emerging anti-proliferative therapies for PH and IPF.

Pulmonary hypertension (PH) and idiopathic pulmonary fibrosis (IPF) are progressive diseases with high mortality rates and poor treatment options, both of which share incredible number of pathological molecular mechanisms with human cancers. This offers exciting opportunity to employ cancer-specific strategies and/or re-purpose anti-cancer agents for treatment of those diseases. This session will provide overview of major pro-proliferative signaling pathways that act as “central signaling hubs” in PH, IPF and cancer, summarize recent progress in cellular, pre-clinical and clinical studies focused on cancer-shared abnormalities, and discuss the opportunities for re-purposing or cross-development of anti-cancer agents that can be used in improving PH and IPF treatment.

Chairing: M. Rabinovitch, MD, Stanford, CA
W. Seeger, MD, Giessen, Germany

9:15 PH: Analogous Features with Carcinogenesis
R. Savai, PhD, Bad Nauheim, Germany

9:35 HIPPO-mTOR Signaling Hubs: Cancer-Like Alterations in Pulmonary Hypertension
E.A. Goncharova, PhD, Pittsburgh, PA

9:55 IPF: Analogous Features of Carcinogenesis - TGFβ-ALK5 Signaling Hub as an Example
R.C. Chambers, PhD, London, United Kingdom

10:15 FoxO: Critical Integrator of Growth Factor and Inflammatory Signaling Hubs - FoxO Activation as a Strategy to Treat PH and IPF
S.S. Pullamsetti, PhD, Bad Nauheim, Germany

10:35 New Molecular Targets in Pulmonary Fibrosis: Experiences and Perspective From the Clinic
P.W. Noble, MD, Los Angeles, CA

10:55 PH: From Cancer Biology to New Therapeutics: Are We Ready to Translate?

M.T. Gladwin, MD, Pittsburgh, PA

BASIC

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

D8 UNRAVELING THE MYSTERIES OF THE MITOCHONDRIA IN PULMONARY INFLAMMATION/INJURY

Assemblies on Allergy, Immunology and Inflammation; Respiratory Cell and Molecular Biology

9:15 a.m. - 11:15 a.m. SAN DIEGO CONVENTION CENTER

Room 14 A-B (Mezzanine Level)

Target Audience

Clinical and basic science researchers

Objectives

At the conclusion of this session, the participant will be able to:

- learn new findings about the significance of mitochondrial biogenesis signals in pulmonary inflammation;
- apply the mechanisms of mitochondrial dysfunction to infection or inflammation;
- discuss potential therapeutic targets to treat pulmonary inflammation.

Recent high impact papers show the critical role of the mitochondria in lung inflammation and associated tissue injury. Apart from the cellular energy powerhouse of the mitochondria, recent studies suggest critical inflammatory signaling pathways drive cell behavior and death. The goal of this symposium is to highlight recent exciting data that points to possible mitochondrial mechanisms (e.g. heme biosynthesis, oxygen sensing, mitochondrial biogenesis, mitophagy, and mitochondrial repair) that drive pulmonary inflammation and injury. Targeting these pathways have the potential to lead to a novel therapeutic approach to treat acute lung tissue injury induced by inflammation.

Chairing: R.G. Scheraga, MD, Cleveland, OH
A. Rogers, MPH, MD, Stanford, CA
P.T. Schumacker, PhD, Chicago, IL

9:15 Mitochondrial Integrity in the Setting of Pulmonary Infection
C.A. Piantadosi, MD, Durham, NC

9:35 Mitochondrial Damage and Inflammasome Activation
M. Karin, PhD, La Jolla, CA

9:55 Mitochondrial Regulation of Lung Inflammation
J. Bhattacharya, MD, New York, NY

10:15 Mitochondria Damage Associated Molecular Patterns (DAMPs) in Bacterial Pneumonia
P. Ray, PhD, Pittsburgh, PA

10:35 Mitophagy and Mesenchymal Stem Cell Survival
L.A. Ortiz, MD, Pittsburgh, PA

10:55 Autophagy and Mitochondrial Dysfunction
S.M. Cloonan, PhD, New York, NY

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

CLINICAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

MOC Points Available: 2

D9 CONTROVERSIES IN CLINICAL PEDIATRIC PULMONOLOGY

Assemblies on Pediatrics; Allergy, Immunology and Inflammation; Clinical Problems; Respiratory Structure and Function

9:15 a.m. - 11:15 a.m. **SAN DIEGO CONVENTION CENTER**

Room 6 A (Upper Level)

Target Audience

Pediatric pulmonologists; adult pulmonologists; respiratory therapists; nurses

Objectives

At the conclusion of this session, the participant will be able to:

- learn about potential modes of transmission of pathogens in Cystic Fibrosis that are not prevented by the current methods of infection control;
- integrate the evaluation and management of the pulmonary complications of Sickle Cell Disease into the overall management of the disease;
- apply or modify the current guidelines for the management of viral bronchiolitis in clinical practice.

Despite the number of publications and the development of guidelines for the evaluation and management of various diseases, there are still many issues pertaining to their diagnosis and management that remain controversial. This session will present 3 such controversial topics in a "Pro/Con" format. The first topic refers to the clinical significance of the FEF25-75 in the evaluation of lung diseases. The second topic, discuss the clinical appropriateness of the most recent guidelines on bronchiolitis. The third topic is discussing the significance of the pulmonary evaluation of patients with Sickle Cell Disease.

Chairing: A.C. Koumbourlis, MD, MPH, Washington, DC
M. Gappa, MD, Hanover, Germany

9:15 Introduction

A.C. Koumbourlis, MD, MPH, Washington, DC

9:20 PRO: Bronchodilators, Steroids and Oxygen Should Not Be Given in Viral Bronchiolitis

M.A. Brown, MD, Aurora, CO

9:37 CON: Bronchodilators, Steroids and Oxygen Should Not Be Given in Viral Bronchiolitis

M.A. Wall, MD, Portland, OR

9:54 PRO: Pulmonary Function Testing and Evaluation Are Not Necessary for the Standard Management of Patients with Sickle Cell Disease

K. Smith-Whitley, MD, Philadelphia, PA

10:11 CON: Pulmonary Function Testing and Evaluation Are Not Necessary for the Standard Management of Patients with Sickle Cell Disease

A.C. Koumbourlis, MD, MPH, Washington, DC

10:28 PRO: Routine Visits to the CF Clinics Should Be Reduced Due to the Increased Risk of Infection

C. Wainwright, MBBS, MD, Brisbane, Australia

10:45 CON: Routine Visits to the CF Clinics Should Be Reduced Due to the Increased Risk of Infection

G.S. Sawicki, MPH, MD, Boston, MA

This session and the International Conference are supported by an educational grant from Vertex Pharmaceuticals Inc.

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BEHAVIORAL • CLINICAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

Nursing Contact Hours Available: 2.4

D10 GROWING UP WITH CHRONIC PULMONARY DISEASE: CHALLENGES IN THE TRANSITION FROM PEDIATRIC TO ADULT FOCUSED HEALTH CARE

Assemblies on Pediatrics; Behavioral Science and Health Services Research; Clinical Problems; Nursing; Education Committee; Training Committee; Members in Transition and Training Committee

9:15 a.m. - 11:15 a.m. **SAN DIEGO CONVENTION CENTER**

Room 33 A-C (Upper Level)

Target Audience

Physicians, registered nurses, advanced practice nurses and other allied health professionals providing care to those with chronic respiratory conditions of childhood in which successful transition to adult focused health care is of importance

Objectives

At the conclusion of this session, the participant will be able to:

- develop new strategies to manage barriers and developmental challenges in the transition from pediatric to adult care for patients with chronic childhood-onset pulmonary disease;
- discuss successful evidence based transition models in pulmonary disease populations, focusing on key process and outcome measures for success;
- describe current needs in transitional care education and be able to integrate such topics in formal curricula for pediatric and adult pulmonary trainees.

Over the past several decades survival has increased dramatically amongst children with many chronic respiratory conditions including cystic fibrosis, chronic respiratory insufficiency, and neuromuscular disease. As a result, health systems need to develop and support programs to improve the transition from pediatric to adult focused health care. Adolescents and young adults are often ill equipped to complete this transition successfully, formalized transition programs are uncommon, and resources for certain populations are lacking within adult-focused health care systems. This symposium will address the challenges patients, their caregivers and clinicians have in transitioning care, and will review evidence-based tools used to foster this transition.

Chairing: E. Crowley, MD, Indianapolis, IN
D. Li, MD, Los Angeles, CA
G.S. Sawicki, MPH, MD, Boston, MA

- 9:15 Health Care Transition in the United States: Current State of Affairs**
G.S. Sawicki, MPH, MD, Boston, MA
- 9:35 Lost in Transition: Growing Older with Cystic Fibrosis**
C. Kvam, JD, MPP, Rochester, NY
- 9:50 Providing Care for a Changing Cystic Fibrosis Population: A Model for Health Care Transition**
E. Crowley, MD, Indianapolis, IN
- 10:10 Challenges in Pediatric to Adult Transition in Neuromuscular Disease**
J.P. Brown, MD, PhD, Salt Lake City, UT
- 10:30 The Adolescent with Chronic Pulmonary Disease: Developmental and Psychosocial Challenges for Self-Management and Transition**
J. Butcher, PhD, Ann Arbor, MI
- 10:50 A Better Workforce for Transitional Care: Training Issues**
S.E. Kirkby, MD, Columbus, OH

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BEHAVIORAL • CLINICAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

Nursing Contact Hours Available: 2.4

D11 BATTLING BURNOUT: OVERCOMING THE BIGGEST THREAT TO HEALTH CARE QUALITY AND SAFETY

Assemblies on Behavioral Science and Health Services Research; Clinical Problems; Critical Care; Nursing; Pediatrics; Thoracic Oncology; Membership Committee

9:15 a.m. - 11:15 a.m. SAN DIEGO CONVENTION CENTER
Room 1 A-B (Upper Level)

Target Audience

Practicing health care workers, researchers, registered nurses, advanced practice nurses, trainees, educators, health care administrators, and policy-makers

Objectives

At the conclusion of this session, the participant will be able to:

- define burnout syndrome and describe the scope of the problem, including prevalence and adverse effects of burnout among health care workers with different clinical roles;
- identify major determinants of burnout among health care workers practicing in different clinical settings;
- describe specific interventions that can help reduce the burden of burnout.

The purpose of this session is to engage researchers, clinicians, educators, trainees and administrators in an effort to address the crisis of burnout syndrome among practicing health care workers. This is pertinent to clinicians

who care for patients with critical illness, cancer, advanced lung diseases, or children with chronic respiratory illnesses. We will discuss the scope of the problem, including the prevalence, risk factors, and outcomes related to burnout among nurses, advanced practitioners, physicians, and trainees. We will discuss evidence-based solutions and develop a platform to discuss future directions for research, policy, and clinical practice to overcome the burden of burnout.

Chairing: S. Rinne, MD, PhD, Bedford, MA
S.M. Kassutto, MD, Philadelphia, PA
R. Adamson, MBBS, Seattle, WA

- 9:15 The Root of the Matter: Understanding the Historical Context of Burnout in Health Care**
S. Rinne, MD, PhD, Bedford, MA
- 9:25 The Cost of Burnout: Impact on Patients, Productivity, and Professional Satisfaction**
C. Sinsky, MD, Chicago, IL
- 9:45 Physicians in Critical Condition: Burnout Among Pulmonary and Critical Care Physicians**
M. Moss, MD, Aurora, CO
- 10:05 Fallout on the Front: How Burnout Affects Nurses**
D.K. Costa, PhD, RN, Ann Arbor, MI
- 10:25 Restoring Joy in Medicine: Health System Solutions to the Growing Burden of Burnout**
T. Shah, MD, MPH, Washington, DC
- 10:45 Be Mindful of the Burn: Preventing Burnout Through Mindfulness**
M. Mealer, PhD, Aurora, CO
- 11:05 Panel Discussion: Battling Burnout Solutions**

MINI SYMPOSIUM

D12 IMMUNOTHERAPY IN LUNG DISEASE

9:15 a.m. - 11:15 a.m. MARRIOTT MARQUIS SAN DIEGO MARINA
Grand Ballroom 5-6 (North Tower, Lobby Level)

Chairing: G.M. Gauvreau, PhD, Hamilton, Canada
P. Akuthota, MD, La Jolla, CA

Oral Presentations

- 9:15 The Potential for RORgamma Antagonists to Treat A Sub-Population of Severe Asthma: A Translational Approach/ D.** Lamb, K. Quast, K. Fundel-Clemens, J. Erjefalt, C. Sandén, H.J. Hoffmann, A. Braun, K. Sewald, M. Keck, S. Blum, E. Thaler, I. Christ, V. Brauchle, D. De Sousa, M. Konen-Bergmann, M. Labadia, J. Wahle, D. Delic, Biberach an der Riss, Germany, p.A6162
- 9:30 Dupilumab Treatment Produces Rapid and Sustained Improvements in FEV1 in Patients with Uncontrolled, Moderate-To-Severe Asthma from the LIBERTY ASTHMA QUEST Study/M.** Castro, W.W. Busse, B. Zhang, J. Maroni, P. Rowe, N. Amin, G. Pirozzi, N.M.H. Graham, A. Teper, St. Louis, MO, p.A6163

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- 9:45** **Fevipirant Demonstrates Novel Anti-Inflammatory Effects on Blood and Airway Gene Expression in Patients with Persistent Eosinophilic Asthma/E.** Khokhlovich, A. Madar, V.J. Erpenbeck, D. Sandham, B.A. Knorr, S. Barsainya, S. Heath, A. Esteve, I. Gut, R.M. Saunders, C. Brightling, Cambridge, MA, p.A6164
- 10:00** **On-Demand Inhaled Interferon-Beta 1a for the Prevention of Severe Asthma Exacerbations: Results of the INEXAS Phase 2a Study/C.** McCrae, M. Olsson, M. Aurell, C. Lundin, J. Paraskos, A. Cavallin, M. Kjerrulf, K. Karlsson, R. Marsden, A. Malmgren, P. Gustafson, T. Harrison, Molndal, Sweden, p.A6165
- 10:15** **The Effect of Treatment with Omalizumab on Anti-Viral Responses in Adults with Severe Allergic Asthma/P.A.B.** Wark, K. Nichol, D. Dorahy, A. Collison, J. Mattes, New Lambton, Australia, p.A6166
- 10:30** **The RIFF Study (Cohort A): A Phase II, Randomized, Double-Blind, Placebo-Controlled Trial of Lebrikizumab as Monotherapy in Patients with Idiopathic Pulmonary Fibrosis/J.J.** Swigris, T. Ogura, M. Scholand, I. Glaspole, T.M. Maher, D. Kardatzke, J. Kaminski, M. Castro, R. Owen, M. Neighbors, P. Belloni, Denver, CO, p.A6167
- 10:45** **The RIFF Study (Cohort B): A Phase II, Randomized, Double-Blind, Placebo-Controlled Trial of Lebrikizumab in Combination with Pirfenidone in Patients with Idiopathic Pulmonary Fibrosis/T.** M. Maher, Y. Kondoh, T. J. Corte, M. K. Glassberg, U. Costabel, L. H. Lancaster, D. Kardatzke, J. Kaminski, M. Howard, J. K. Olsson, M. Neighbors, R. Owen, P. Belloni, London, United Kingdom, p.A6168
- 11:00** **Inhaled PI3K δ Inhibitor Nemiralisib Improves Lung Function and Reduces Re-Exacerbations in Exacerbating Chronic Obstructive Pulmonary Disease (COPD) Patients (PII116678) /E.** Hessel, J. Hamblin, J. Robertson, M. Begg, E. Jarvis, R. Wilson, C. Leemereise, Y. Cui, M. Mizuma, M. Montembault, C. Van Holsbeke, J. De Backer, A. Cahn, Stevenage, United Kingdom, p.A6169
- 9:30** **Performance of a Community Based Strategy Led by Health Workers Using Lung Function Questionnaire and Pocket Spirometer for Detecting Chronic Obstructive Pulmonary Disease in Rural India/P.** Jarhyan, A. Hutchinson, R. Khatkar, N. Srinivasapura Venkateshmurthy, D. Prabhakaran, S. Mohan, Gurgaon, India, p.A6171
- 9:45** **Hospital Mortality and Readmission Rates for Chronic Obstructive Pulmonary Disease Are Not Correlated/A.** Mehta, D. Matlock, I. S. Douglas, Denver, CO, p.A6172
- 10:00** **Unintentional Discontinuation of Respiratory Medications Following Hospitalization of Individuals with Chronic Obstructive Pulmonary Disease (COPD)/A.S.** Gershon, R.E. McGihon, D. Thiruchelvam, T.M. To, C. Bell, R. Wu, S. D. Aaron, Toronto, Canada, p.A6173
- 10:15** **Can Virtual Teach-To-Goal Replace In-Person Teach-To-Goal for Effective Respiratory Inhaler Technique Training Among Hospitalized Patients?/V.** G. Press, C. Kelly, L. Venable, K. Carey, S. R. White, V. Arora, Chicago, IL, p.A6174
- 10:30** **A Randomized Clinical Trial of the Effect of Biofeedback on Inhaler Adherence and Technique Delivered by Community Pharmacists in Obstructive Airway Disease/M.** Mokoka, S. O'Dwyer, E. MacHale, G. Greene, B. Cushen, I. Sulaiman, F. Boland, S. Z. Bosnic-Anticevich, R. Reilly, S. Ryder, R. W. Costello, Dublin, Ireland, p.A6175
- 10:45** **Comparative Effectiveness of a Peer-Led Supplemental Oxygen InfoLine for Patients and Caregivers (PELICAN)/V.** Prieto-Centurion, S. Basu, N.E. Bracken, R. Casaburi, R. Gallardo III, V. Gonzalez, M. Grabarek, S.D. Illendula, J. Proszasz, R.A. Sandhaus, J. Sullivan, L. J. Walsh, J.A. Krishnan, Chicago, IL, p.A6176
- 11:00** **Social Determinants of Adherence to Pulmonary Rehabilitation in Chronic Obstructive Pulmonary Disease: A Mixed Methods Study/G.R.** Oates, C.M. Ott, S.J. Niranjani, C. Schumann, M.T. Dransfield, Birmingham, AL, p.A6177

MINI SYMPOSIUM

D13 IMPROVING DIAGNOSIS, CARE QUALITY, AND ADHERENCE IN COPD**9:15 a.m. - 11:15 a.m. SAN DIEGO CONVENTION CENTER****Room 32 A-B (Upper Level)**

Chairing: V.S. Fan, MD, MPH, Seattle, WA
A. Lambert, MD, MHS, Spokane, WA
M.S. Stefan, MD, PhD, Springfield, MA

Oral Presentations

- 9:15** **Discovery of Novel COPD Subtypes Via Cluster Analysis of Clinical Features Extracted from Electronic Health Records/M.** Pikoula, J. K. Quint, K. Direk, F. Nissen, A. Gonzalez-Izquierdo, H. Hemingway, L. Smeeth, S. Denaxas, London, United Kingdom, p.A6170

MINI SYMPOSIUM

D14 ILD: CLINICAL RESEARCH**9:15 a.m. - 11:15 a.m. SAN DIEGO CONVENTION CENTER****Room 3 (Upper Level)**

Chairing: A.E. Holland, PhD, Melbourne, Australia
C.J. Ryerson, MD, Vancouver, Canada
Y. Kondoh, MD, Seto Aichi, Japan

- 9:15** **Randomized, Double-Blind, Placebo-Controlled, Multiple Dose, Dose-Escalation Study of BG00011 (Formerly STX-100) in Patients with Idiopathic Pulmonary Fibrosis (IPF)/G.** Raghu, M. Mouded, D. A. Culver, M. J. Hamblin, J. A. Golden, S. Veeraraghavan, R. I. Enelow, L. H. Lancaster, H. J. Goldberg, A. E. Frost, L. C. Ginns, B. J. Maroni, D. Sheppard, N. Kaminski, I. O. Rosas, M. Arjomandi, A. Prasse, C. Stebbins, G. Zhao, G. Song, M. Arefayene, R. Christmann de Souza, S. M. Violette, D. C. Gallagher, K. F. Gibson, Seattle, WA, p.AA7785

- 9:30 Predicting Mortality in Systemic Sclerosis-Related Interstitial Lung Disease in Two Independent Cohorts/D.P. Tashkin, E. Volkmann, M. Sim, M. Roth, P. Clements, D. E. Furst, R. Elashoff, L. Keyes-Elstein, A. Pinckney, E. Goldmuntz, K. Sullivan, Los Angeles, CA, p.A6178**
- 9:45 Large-Scale Serum Proteomic Profiling of Rheumatoid Arthritis-Interstitial Lung Disease/X. Wu, S. Taheri, R. Maurer, S. Poli de Frias, R. R. Gill, H. Hatabu, M. Nishino, M. L. Frits, C. K. Iannaccone, M. E. Weinblatt, N. A. Shadick, P. F. Dellaripa, I. O. Rosas, A. M. K. Choi, F. J. Martinez, T. J. Doyle, New York, NY, p.A6179**
- 10:00 The NHLBI Lymphangioleiomyomatosis Registry: Prognostic Radiologic and Physiologic Biomarkers Emerge from a 15-Year Prospective Longitudinal Analysis/N. Gupta, H. Lee, J. H. Ryu, A. M. Taveira-DaSilva, G. J. Beck, J. Lee, K. McCarthy, G. A. Finlay, K. K. Brown, S. J. Ruoss, N. Avila, J. Moss, F. X. McCormack, Cincinnati, OH, p.A6180**
- 10:15 Genetic Determinants of Interstitial Lung Abnormalities/R.K. Putman, B.D. Hobbs, T. Araki, M. Nishino, J. Dupuis, F. Sun, G.T. O'Connor, I.O. Rosas, G.R. Washko, E.K. Silverman, H. Hatabu, M.H. Cho, G.M. Hunninghake, Boston, MA, p.A6181**
- 10:30 Identification of Diagnostic Criteria for Chronic Hypersensitivity Pneumonitis: An International Modified Delphi Survey/J. Morisset, K.A. Johannson, K.D. Jones, P.J. Wolters, H.R. Collard, S.L. Walsh, B. Ley, Montreal, Canada p.A6183**
- 10:45 A New Sarcoidosis Diagnostic Score/A. Bickett, E.E. Lower, R.P. Baughman, Cincinnati, OH, p.A6184**
- 11:00 Factors Associated with Reduced Survival in Sarcoidosis Associated Pulmonary Hypertension: Results of the Registry for Sarcoidosis Associated Pulmonary Hypertension (ReSAPH)/ V. Kouranos, O.A. Shlobin, S.D. Nathan, A.U. Wells, D.A. Culver, J. Barney, F.C. Cordova, E.M. Carmona, E.H. Alhamad, M.B. Scholand, M. Wijsenbeek, R.P. Baughman, London, United Kingdom, p.A7785**
- 9:30 A Stepped Wedge Randomized Controlled Trial of a Pragmatic, Nurse-Led Intervention to Support Surrogate Decision Makers in ICUs/D.B. White, D.C. Angus, A.-M. Shields, C. Pidro, C. Paner, P. Buddadhumaruk, C.-C.H. Chang, J.M. Kahn, A. Kowinsky, S. Martin, R.M. Arnold, Pittsburgh, PA, p.A6186**
- 9:45 Latent Class Analysis of Acute Respiratory Distress Syndrome (ARDS): Secondary Analysis of the Statins for Acutely Injured Lungs from Sepsis (SAILS) Trial/P. Sinha, K. Delucchi, B.T. Thompson, D.F. McAuley, M.A. Matthay, C.S. Calfee, San Francisco, CA, p.A6187**
- 10:00 Balanced Crystalloids Versus Saline for Adults with Sepsis or Septic Shock/R.M. Brown, J.P. Wanderer, J.M. Ehrenfeld, J.L. Stollings, A.C. McKown, L. Wang, G.R. Bernard, W.H. Self, T.W. Rice, M.W. Semler, Nashville, TN, p.A6188**
- 10:15 Diaphragm Impairment and Failure of Non Invasive Ventilation in Patients with Acute Exacerbation of Chronic Obstructive Pulmonary Disease - DIPANIV Study/R. Tonelli, A. Marchioni, I. Castaniere, R. Fantini, A. Viani, F. Giaroni, V. Ruggieri, E. Clini, Modena, Italy, p.A6189**
- 10:30 Severe Hyperglycemia in 1000 Intensive Care Unit Patients: A Higher Mortality Rate and a Higher Incidence of Diabetes in a Long-Term Follow-Up Study/A. Ben Hamou, L. Robriquet, E. Kipnis, B. Voisin, S. Preau, F. Tamion, C. Vanbaelinghem, D. Thellier, D. Du Cheyron, A. Bignon, J. Poissy, E. Jaillette, M. Jourdain, Lille, France, p.A6190**
- 10:45 Trends in Outcomes of Acute Respiratory Distress Syndrome in The United States: A 10-Year Nationwide Analysis/D. Pan, B. Sabharwal, V. Santibanez, F. Vazquez de Lara, I. Kejo, L.M.-Y. Chen, J.P. Mathew, New York, NY, p.A6191**
- 11:00 Clinical Impact of an Electronic Dashboard and Alert System that Promotes Sedation Minimization and Ventilator Liberation/B.J. Anderson, D. Do, C. Chivers, K. Choi, E. Gitelman, M. Draugelis, S. Mehta, B.D. Fuchs, Philadelphia, PA, p.A7786**

MINI SYMPOSIUM

D15 CRITICAL CARE: FROM RISK IDENTIFICATION TO IMPROVING OUTCOMES: NEW INSIGHTS FROM CLINICAL TRIALS AND OBSERVATIONAL COHORTS

9:15 a.m. - 11:15 a.m. SAN DIEGO CONVENTION CENTER
Room 29 A-D (Upper Level)

Chairing: S. Mehta, MD, Toronto, Canada
T.J. Iwashyna, MD, PhD, Ann Arbor, MI
M.J. Lanspa, MD, MSCR, Salt Lake City, UT

Oral Presentations

9:15 Effect of a Self-Directed Mobile App Mindfulness Program for ICU Survivors: A Pilot RCT/C.E. Cox, C.T. Hough, D. Jones, A. Ungar, W. Reagan, M.D. Key, T. Gremore, M.K. Olsen, L. Sanders, J.M. Greeson, L.S. Poter, Durham, NC, p.A6185

MINI SYMPOSIUM

D16 AIR POLLUTION EXPOSURE, SYMPTOMS, AND INFLAMMATION

9:15 a.m. - 11:15 a.m. SAN DIEGO CONVENTION CENTER
Room 30 A-B (Upper Level)

Chairing: A. Hansell, MD, London, United Kingdom
M.B. Rice, MD, MPH, Boston, MA

Oral Presentations

9:15 The Impact of Long-Term Exposure to PM2.5 and Ozone on the Risk of Acute Respiratory Distress Syndrome (ARDS) for the Elderly/J. Rhee, F. Dominici, A. Zanobetti, J. Schwartz, Y. Wang, Q. Di, D.C. Christiani, Boston, MA, p.A6192

9:30 Air Pollutant Exposure Is an Independent Risk Factor for Acute Respiratory Distress Syndrome After Severe Trauma/J.P. Reilly, Z. Zhao, M.G.S. Shashaty, J.D. Christie, P.N. Lanken, T. Koyama, C. Wang, J.R. Balmes, M.A. Matthay, C.S. Calfee, L.B. Ware, Philadelphia, PA, p.A6193

- 9:45** **The Impact of Air Pollution Regulations on the Incidence of Hospitalizations and Emergency Department Visits for Respiratory Infections in New York State/D. Croft, W. Zhang, S. Lin, S. Thurston, P. Hopke, M. Masiol, S. Squizzato, E. van Wijngaarden, D.Q. Rich, Rochester, NY, p.A6194**
- 10:00** **Long-Term Outdoor Air Pollution Exposure Is Associated with Increased Cough and Sputum in Spiromics Participants/L.M. Paulin, A. Gasset, N.E. Alexis, R.E. Kanner, S.P. Peters, J.A. Krishnan, R. Paine, M.T. Dransfield, P. Woodruff, C.B. Cooper, R.G. Barr, A.P. Comellas, C.S. Pirozzi, M.K. Han, A. Fawzy, N. Putcha, P. Breyse, J.D. Kaufman, N.N. Hansel, Baltimore, MD, p.A6195**
- 10:15** **Timing and Mode of Commute Impacts In-Transit Black Carbon Exposure and Airway Inflammation/S. Lovinsky-Desir, R.L. Miller, S.N. Chillrud, M. Perzanowski, K.H. Jung, New York, NY, p.A6196**
- 10:30** **Diesel Exhaust Exposure Increases Muscle Sympathetic Nerve Activity - A Human Exposure Study/G. Rankin, M. Kabele, T. Sandstrom, R. Brown, V.G. Macefield, J.A. Bosson, Umeå, Sweden, p.A6197**
- 10:45** **Co-Exposure to Diesel Exhaust and Allergen Impairs Lung Function and Induces Local and Systemic Inflammation/D. Wooding, M. Syberg-Olsen, A. Yuen, C. Carlsten, Vancouver, Canada, p.A6198**
- 11:00** **Spatial Analysis of Air Pollutants that Impact the Respiratory Health of North Central Texas by the Application of Principal Component Analysis and Hierarchical Clustering/N. Cao, A. Hunt, Arlington, TX, p.A6199**

MINI SYMPOSIUM

D17 THE BEASTS WITHIN US: TARGETING THE MICROBIOME

9:15 a.m. - 11:15 a.m. MARRIOTT MARQUIS SAN DIEGO MARINA
Pacific Ballroom 21 (North Tower, First Floor)

Chairing: A. Pragman, MD, PhD, Minneapolis, MN
A.M. Morris, MD, MS, Pittsburgh, PA
J.D. Chalmers, MD, PhD, Dundee, United Kingdom

Oral Presentations

- 9:15** **Integrated Microbiome and Metabolome Analysis of Lung Sputum as a Novel Approach to Precision Medicine/R. Quinn, L. Deright-Goldasich, G. Humphrey, R. Knight, D.J. Conrad, P.C. Dorrestein, La Jolla, CA, p.A6200**
- 9:30** **Molecular Analysis of Airway Stent Biofilm/J.E. McGinniss, I. Imai, M. Brown, L. Frye, V.R. Knecht, M.B. Sohn, A.R. Lanfranco, A.R. Haas, F.D. Bushman, R.G. Collman, Philadelphia, PA, p.A6201**
- 9:45** **Microbiome Communities in Pseudomonas Aeruginosa Pneumonia/C. Pickens, P. Hountras, J.M. Walter, J.M. Kruser, C. Qi, B.D. Singer, S. Green, P. Seed, R.G. Wunderink, Chicago, IL, p.A6202**

Featured Speaker

- 10:00** **The Evolving Landscape of Lung Microbiota and Its Interactions with the Host/L.N. Segal, MD, New York, NY**

Oral Presentations

- 10:30** **The COPD Frequent Exacerbator Phenotype Is Associated with Decreased Upper Airway Microbiota Alpha Diversity/A. Pragman, T.J. Gould, K. Knutson, S. Hodgson, R.E. Isaacson, C.S. Reilly, C.H. Wendt, Minneapolis, MN, p.A6203**
- 10:45** **Effect of Well-Controlled HIV Infection on the Respiratory Microbiome/M. Qi, R.B. Day, E. Sodergren, G.M. Weinstock, H. Lin, X. Gao, Q. Dong, H.L. Twigg, Indianapolis, IN, p.A6204**
- 11:00** **Clinical Relevance of the Pulmonary Mycobiome in Non-Cystic Fibrosis Bronchiectasis: The CAMEB Study/M. Mac Aogáin, R. Chandrasekaran, A.L.Y.H. Lim, T.B. Low, G.L. Tan, T. Hassan, T.-H. Ong, C.K.-L.K. Leong, A.H. Ng, D. Bertrand, J.J.Y.Y. Koh, S.L. Pang, Z.Y. Lee, X.W. Gwee, C. Martinus, Y.Y. Sio, S.A.& Matta, F.T. Chew, H.R. Keir, M. Koh, J.A. Abisheganaden, N. Nagarajan, J.D. Chalmers, S.H. Chotirmall, Singapore, Singapore, p.A6205**

MINI SYMPOSIUM

D18 THE EPI (THELIAL) CENTER IN LUNG DISEASE

9:15 a.m. - 11:15 a.m. MARRIOTT MARQUIS SAN DIEGO MARINA
Pacific Ballroom 22 (North Tower, First Floor)

Chairing: J. Verheyden, PhD, La Jolla, CA
R. Zemans, MD, Ann Arbor, MI

Featured Speaker

- 9:15** **Mind the Gap: Linking Alveolar Epithelial Cell Dysfunction to Pulmonary Fibrosis/L.R. Young, MD, Nashville, TN**

Oral Presentations

- 9:30** **Inducible Alveolar Epithelial Type II (AT2) Cell -Specific Grp78 Knockout Mice Develop Endoplasmic Reticulum (ER) Stress and Reversible Pulmonary Fibrosis/B. Zhou, H. Wang, Y. Liu, P. Flodby, E.D. Crandall, A. Lee, Z. Borok, Los Angeles, CA, p.A6206**
- 9:45** **C/EBP Homologous Protein Mediates ER Stress-Induced Lung Fibrosis: A Potential Role for Localized Hypoxia/A. Burman, J.A. Kropski, C.L. Calvi, W. Lawson, T.S. Blackwell, H. Tanjore, Nashville, TN, p.A6207**
- 10:00** **ATF3 Plays a Role in AECII ER Stress-Mediated Mitochondrial Dysfunction and the Susceptibility to Lung Fibrosis/M. Bueno, K. Fiedler, B.G. Mays, A. Nasser, S.J. Shulkowski, A. Potkonjak, J. Pogue, J.T. Carter, M. Rojas, A.L. Mora, Pittsburgh, PA, p.A6208**
- 10:15** **A Novel Murine Model of Expressing a Surfactant Protein C BRICHOS Mutation Charts a Path from Epithelial Endoplasmic Reticulum Stress to Spontaneous Acute Lung Injury and Fibrotic Remodeling/J. Katzen, Y. Tomer, M. Kopp, A. Venosa, S. Mulugeta, M.F. Beers, Philadelphia, PA, p.A6209**
- 10:30** **Escaping the ER Quality Control System: How a Mutation in the ABCA3 Transporter Disrupts Cellular Homeostasis/S. Mulugeta, M. Zhao, M.F. Beers, Philadelphia, PA, p.A6210**
- 10:45** **Targeting CEBP α /BMP4 Signaling to Restore Epithelial-Mesenchymal Homeostasis in Lung Fibrosis/Q. Tan, X.Y. Ma, G. Ligresti, A. Haak, J. Meridew, D.J. Tschumperlin, Rochester, MN, p.A6211**

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

11:00 Flow Cytometry Underestimates and Planimetry Overestimates AEC2 Expansion After Lung Injury in Mice/R. Zemans, N. Jansing, J. McClendon, E. Redente, R. Tuder, D. Hyde, J. Nyengaard, Ann Arbor, MI, p.A6212

MINI SYMPOSIUM

D19 SLEEP DISORDERED BREATHING AND CARDIOMETABOLIC OUTCOMES: BENCH TO BEDSIDE

9:15 a.m. - 11:15 a.m. SAN DIEGO CONVENTION CENTER

Room 7 A-B (Upper Level)

Chairing: N.A. Shah, MD, MPH, MSci, New York, NY
J. Sunderram, MD, New Brunswick, NJ
M.S. Badr, MD, Detroit, MI

Oral Presentations

- 9:15 Oxyhemoglobin Resaturation Overshoot Following Obstructive Breathing Events Mitigates Sleep Apnea-Induced Glucose Elevations/L.V. Pham, A.R. Schwartz, J.C. Jun, Baltimore, MD, p.A6213**
- 9:30 Hepatocyte HIF-1 Mediates Transcriptional Changes in a Mouse Model of Nonalcoholic Fatty Liver Disease/O. Mesarwi, M.-K. Shin, S. Bevans-Fonti, E.A. Moya, V.Y. Polotsky, G. Xu, K.M. Fisch, A. Malhotra, La Jolla, CA, p.A6214**
- 9:45 Plasma Exosomes Derived from OSA Patients Promote In Vitro Senescence of Naïve Endothelial Cells: Effect of Long-Term Adherent CPAP/A. Khalyfa, Chicago, IL, p.A6215**
- 10:00 Dysregulated Human Cartilage Glycoprotein 39 Pathway Is Associated with Endothelial Dysfunction and Hypertension in Obstructive Sleep Apnea/V. Mohsenin, B. Jafari, New Haven, CT, p.A6216**
- 10:15 Nuclear Transcription Factor C/EBP β Plays a Central Role in a New Mechanism for Intermittent Hypoxia Induced Injury in Vascular Endothelial Cells/L. Zhao, L. Li, Y. Wu, N. Zhao, L. Li, Shanghai, China, p.A6217**
- 10:30 Results of the ROSA Trial: A Randomised Controlled Trial of the Effect of CPAP on Diabetic Macular Oedema in People with Concurrent Obstructive Sleep Apnoea/S.D. West, B. Prudon, S.B. Mohammed, J. Hughes, R. Gupta, S. Gerry, J.R. Stradling, Newcastle Upon Tyne, United Kingdom, p.A6218**
- 10:45 Sex-Specific Differences in Systemic Inflammation Markers in Response to Obstructive Sleep Apnea Treatment: The Sleep Apnea Stress Study Randomized Controlled Trial/A.M. May, L. Wang, H.K. Walia, K.P. Strohl, R. Mehra, Cleveland, OH, p.A6219**
- 11:00 Impact of Sleep Disordered Breathing on Diabetes Based on Presence or Absence of Family History of Diabetes; The Nagahama Study/T. Minami, T. Matsumoto, K. Tanizawa, K. Murase, H. Takeyama, T. Oga, S. Nagashima, T. Wakamura, T. Hirai, Y. Tabara, F. Matsuda, K. Chin, Kyoto, Japan, p.A6220**

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

D21 INFECTIONS AND IMMUNITY

9:15 a.m. - 11:15 a.m. MARRIOTT MARQUIS SAN DIEGO MARINA

Grand Ballroom 11-13 (North Tower, Lobby Level)

Abstract Summaries 9:15-9:45
Viewing/Discussion 9:45-11:15

Chairing: C. Dela Cruz, MD, PhD, New Haven, CT
J.C. Deng, MS, MD, Ann Arbor, MI
B. Mehrad, MD, Gainesville, FL

- 801 Rhinovirus Infection Induces Inflammasome Activation In Vivo/M. Han, J.K. Bentley, Q. Wu, J. Lei, T. Ishikawa, J.L. Hinde, C. Rajput, E.E. Metitiri, B.N. Eder, C.R. Blake, A.M. Goldsmith, G. Mentz, R.C. McEachin, M.A. Sartor, T.C. Lewis, M.B. Hershenson, Ann Arbor, MI, p.A6221**
- 802 Differential Effects of IL-33 on Anti-Viral Immune Responses in Asthmatic and Healthy Individuals/J.W. Upham, L. Jurak, Y. Xi, Woolloongabba, Australia, p.A6222**
- 803 Club Cell Secretory Protein-16 Protects Against Mycoplasma Pneumoniae-Induced Airway Remodeling./M. Insel, W. Pederson, K.J. Addison, C.A. Owen, A.B. Dy, S. Guerra, F.D. Martinez, M. Kraft, J.G. Ledford, Tucson, AZ, p.A6223**
- 804 Poor Baseline Asthma Control Is Associated with Greater Virus Load Following Rhinovirus Infection/J. Dhariwal, E. Wong, B. Trujillo-torralbo, D.J. Jackson, S.L. Johnston, London, United Kingdom, p.A6224**
- 805 IL-33 Drives Influenza-Induced Exacerbations of Asthma and Halts Innate and Adaptive Anti-Viral Responses by Instruction of Epithelial and Dendritic Cells/L. Ravanetti, A. Dikhuis, Y.S. Sabogal Piñeros, R. Lutter, Amsterdam, Netherlands, p.A6225**
- 806 The Histone Deacetylase Inhibitor Trichostatin a Modulates Rhinovirus-Induced Airway Responses in Immature Mice Through IL-1 Receptor Antagonist/J.K. Bentley, J.L. Hinde, J. Lei, T. Ishikawa, C. Rajput, M. Han, M.B. Hershenson, Ann Arbor, MI, p.A6226**
- 807 Deficient IFIH1 Expression and Type-I Interferon Response to Rhinovirus by Nasal Epithelial Cells from Asthmatic Children Homozygous for the IFIH1 Minor Alleles of SNPs rs3747517 and rs1990760 Is Associated with Increased Viral Replication Ex Vivo/K.A. Barrow, M.P. White, S.R. Reeves, J.A. Gorman, R. James, J.S. Debley, Seattle, WA, p.A6227**
- 808 Multiplex Molecular Detection of Respiratory Pathogens of Adult Patients Admitted to Hospital for Asthma Exacerbation and Their Clinical Outcomes/F. Ko, P.K. Chan, A. Ip, K. Ling, A. Kwok, K.P. Chan, T.-O. Chan, D.S. Hui, Hong Kong, Hong Kong, p.A6228**
- 809 Transcriptomic Profiles of Conditional Reprogrammed Cells from Human Infant Airway Epithelial Cells Demonstrate Stability of Antiviral Immunity/K. Salka, M.A. Arroyo Morr, K. Panchapakesan, G. Perez, G.R. Nino, Washington, DC, p.A6229**

- 810 Education of Stem Cells by BCG: An Innovative Approach in TB Vaccine Development/E. Kaufmann, J. Sanz, J.L. Dunn, N. Khan, L.E. Mendonca, A. Pacis, F. Tzelepis, E. Pernet, A. Dumaine, F. Mailhot-Léonard, E. Ahmed, J. Belle, R. Besla, B.D. Mazer, I.L. King, A. Nijnik, C.S. Robbins, L.B. Barreiro, M. Divangahi, Montreal, Canada, p.A6230**
- 811 Host Matricellular Protein Thrombospondin-1 Limits Extracellular Matrix Proteolysis During Acute Pseudomonas Aeruginosa-Induced Lung Injury/Y. Qu, T.F. Olonisakin, W. Bain, M. Hulver, Z. Xiong, M.E. Zegans, R.M.Q. Shanks, J. Bomberger, J.M. Pilewski, A. Ray, Z. Cheng, P. Ray, J. Lee, Pittsburgh, PA, p.A6231**
- 812 Epithelial LOX-1 Induction Modulates Acute Pulmonary Inflammation During Pneumonia/E. Symer, Y. Kim, L. Washington, M.R. Jones, J.P. Mizgerd, K. Traber, L.J. Quinton, Boston, MA, p.A6232**
- 813 TBK1 Controls Inflammatory Cytokine Expression in S. Pneumoniae Pneumonia/R.S. Hagan, J.C. Gomez, J.L. Torres-Castillo, J.R. Martin, C.M. Doerschuk, Chapel Hill, NC, p.A6233**
- 814 Priming of Innate Immune Cells by Type I and II Interferons During Infections of Influenza Virus and Streptococcus Pneumoniae/S. Hanada, K. Carver, Z. Tsai, J.C. Deng, Ann Arbor, MI, p.A6234**
- 815 Interferon Lambda Therapy Worsens Influenza, Staphylococcus Aureus Super-Infection/H. Rich, C. McCourt, W.Q. Zheng, K. McHugh, J.F. Alcorn, Pittsburgh, PA, p.A6235**
- 816 Gut Commensal Metabolites Modulate Sterile Lung Inflammation: A Role for Acetate and Propionate/A. Prakash, X. Tian, J. Hellman, San Francisco, CA, p.A6236**
- 817 Mechanical Forces Suppress Innate Anti-Viral Immunity in Primary Human Airway Epithelial Cells Obtained from Asthma Donors/P.C. Veerati, N.W. Bartlett, K. Nichol, P.A. Wark, D.A. Knight, C.L. Grainge, New Lambton Heights, Australia, p.A6237**
- 818 Inhibition of Equilibrative Nucleoside Transporters Protect Against Pseudomonas Aeruginosa-Induced Acute Respiratory Distress Syndrome/E. Chambers, A. White, A. Vang, Z. Wang, T.W. Mills, G. Choudhary, S.I.S. Rounds, A. Ayala, M.R. Blackburn, Q. Lu, Providence, RI, p.A6238**
- 819 The Inflammasome Potentiates Influenza, Staphylococcus Aureus Super-Infection in Mice/K.M. Robinson, K. Ramanam, M.E. Clay, K.J. McHugh, J.F. Alcorn, Pittsburgh, PA, p.A6239**
- 820 Signaling Lymphocytic Activation Molecule Family (SLAMF) Receptors May Act as Inhibitory Receptors in the Airways of HIV-Infected Individuals/A.K. Dickey, Y. Pacheco, B. Corleis, A. Schiff, A.C. Lisanti, B.D. Medoff, J.L. Cho, D.G. Kavanagh, W.A. Burgers, R.J. Wilkinson, F. Tafesse, S. Fortune, D.S. Kwon, Boston, MA, p.A6240**
- 821 Anaphylatoxins Enhance Recruitment of Monocytes Via Chemokines Produced by Pleural Mesothelial Cells in Tuberculous Pleural Effusion/L. Luo, X. Li, C. Hu, X. Hu, W. Tang, S. Deng, J. Feng, Changsha, China, p.A6241**
- 822 Cell-based Comprehensive and Systematic Binding Analysis Between HLA -DR or -DQ Regions and T Cell Epitopes of TB Antigens/Y. Hoshino, H. Miyadera, H. Nagai, T. Yoshiyama, K. Tokunaga, Tokyo, Japan, p.A6242**

- 823 Distinct Lung Microbiota Associate with Chronic Lung Disease in Children with HIV on Antiretroviral Therapy/S. Bhadriraju, D.W. Fadrosch, M.K. Shenoy, K.V. Lynch, R.A. Ferrand, G. Mchugh, L. Huang, J.Z. Metcalfe, S.V. Lynch, San Francisco, CA, p.A6243**

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

D22 CUTTING EDGE RESEARCH IN SMOKING CESSATION AND E-CIGARETTES

9:15 a.m. - 11:15 a.m.

SAN DIEGO CONVENTION CENTER

Room 11 A-B (Upper Level)

- Abstract Summaries 9:15-9:45**
- Viewing/Discussion 9:45-11:15**
- Chairing:** S. Pakhale, MD, MSCE, Ottawa, Canada
H.J. Farber, MD, MSPH, Houston, TX
D.J. Upson, MD, MA, Albuquerque, NM
- 401 Flavor Use in a Large Cohort of Long-Term Electronic Cigarette Users: Implications for Future Pulmonary Research/ A. Sinharoy, F. Tongyao, P. Mondal, J. Foulds, P. Du, Hershey, PA, p.A6244**
- 402 E-Cigarette Use Is Associated with Emphysema, Chronic Bronchitis and COPD/M.F. Perez, N. Atuegwu, E. Mead, C. Oncken, E.M. Mortensen, Farmington, CT, p.A6245**
- 403 'To Vape or Not to Vape': Young Peoples Beliefs About Emerging Tobacco Products/J. Foster, B. Oliver, J. Bozier, Sydney, Australia, p.A6246**
- 404 Electronic Cigarette, Conventional Cigarette and Marijuana Use Patterns in San Diego County/C.M. Bojanowski, C. Dagni, T. El-Hajjaoui, A. Moshensky, C.J. Javier, A. Du, L.E. Crotty Alexander, La Jolla, CA, p.A6247**
- 405 Validity of VHA Administrative Data to Determine Accurate Smoking Status/S. Golden, M. Howard, S. Shull, C. Forsberg, E. Hooker, K.A. Crothers, C.G. Slatore, Portland, OR, p.A6248**
- 406 Smartphone Application "CureApp" for Smoking Cessation - A Multicenter Cooperative Single Group Intervention Study/K. Masaki, H. Tateno, N. Kameyama, E. Morino, R. Watanabe, K. Sekine, T. Ono, T. Muto, S. Suzuki, K. Satake, K. Fukunaga, T. Betsuyaku, Tokyo, Japan, p.A6249**
- 407 Outcomes of an Inpatient Smoking Cessation Consult Service at an Urban Safety Net Hospital/N. Herbst, E. Helm, C. Fitzgerald, C. O'Donnell, R.S. Wiener, H. Kathuria, Boston, MA, p.A6250**
- 408 Social, Economic, and Behavioral Determinants of Successful Smoking Cessation - Findings from the REGARDS Cohort/T. Parekh, C. Wu, L. McClure, V. Howard, M. Cushman, A. Malek, K. Harrington, A. Cherrington, M.T. Dransfield, S. Bhatia, Birmingham, AL, p.A6251**
- 409 Related Factors to Smoking Cessation Rate in Individuals with and Without COPD After 3 and 12 Months in a Smoking Cessation Primary Care Attention Center (prevfumo)/O.A. Nascimento, J. O. Barros, N.R. Santos, N.C. Oliveira, R. Vicente, J.R. Jardim, Sao Paulo, Brazil, p.A6252**

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- 410 **A Systematic Review of Interventions for Smoking Tobacco in Low Socio-Economic Populations**/C.B. Charron, T. Hayes, S. Pakhale, Vancouver, Canada, p.A6253
- 411 **A 10-Year Single-Center Experience of Smoking Cessation Clinic in Japan**/H. Tomioka, M. Yamazoe, T. Wada, Kobe, Japan, p.A6254
- 412 **Provider and Patient Level Barriers and Facilitators to Tobacco Treatment for Hospitalized Smokers with Other Substance Use Disorders**/B. Seth, N. Herbst, V. Cobb, R. Seibert, K. Clark, E. Helm, R.S. Wiener, H. Kathuria, Boston, MA, p.A6255
- 413 **Spirometric Characteristics of a Smoking Population Attending a Primary Attention Smoking Cessation Clinics in Brazil**/O.A. Nascimento, N.R. Santos, N.C. Oliveira, J.O. Barros, R. Vicente, J.R. Jardim, Sao Paulo, Brazil, p.A6256
- 414 **Different Effect of Smoking Cessation on Forced Oscillation Parameters Depending on Baseline Airflow Limitation**/Y. Koizumi, H. Nagase, Tokyo, Japan, p.A6257
- 415 **A Study of Smoking Status and Inpatient Deaths on Medical Wards in a London Teaching Hospital**/E.C. Alexander, C. Burford, M. Jayne, A. Cheng, J. Hall, K. Lee, A.S. Patel, London, United Kingdom, p.A6258
- 416 **Proposal for Smoke-Free Public Housing: A Review of Attitudes and Preferences from Residents of Multi-Unit Housing**/P. Galiatsatos, R. Koehl, C. Caufield-Noll, E. Brigham, F. Leone, N. Hansel, C. Rand, M. McCormack, Baltimore, MD, p.A6259
- 417 **Gamifying Tobacco-Free Kids: Employing Medical Visualization and Games in Youth Anti-Tobacco Outreach**/P. Whitten, B. Aulakh, K. Verma, B. Cross, I.-H. Hsu, J. Stoner, K. Copelen, K. Hall, J. Kluesner, K. Greenawalt, S. Barrows, J. Farmer, R. Davis, Peoria, IL, p.A6260
- 418 **Exploring the Barriers and Incentive Architecture for Modifying Smoke Exposures Among Asthmatics**/M.S. Jassal, C. Tower, M. Zhu, M. Stitzer, C. Lewis-Land, A.M. Butz, Baltimore, MD, p.A6261
- 602 **Fungi in the Cystic Fibrosis Airway: Discovery and Impact**/G. Hong, J. Martin, L.A. Ramharack, V. Fleck, M. Nicolo, D.J. Dorgan, K. Alby, S.M. Kawut, D. Hadjiliadis, Philadelphia, PA, p.A6263
- 603 **Identification of Aspergillus in Patients with Cystic Fibrosis**/M.A. Azevedo, C. Nemastil, S.E. Kirkby, Columbus, OH, p.A6264
- 604 **A Specialised Processing Method Enables Correlation of Inflammatory Mediators in Spontaneously Expectored and Induced Sputum with Bronchoalveolar Lavage Fluid in Cystic Fibrosis for Clinical Trial Purposes**/O.J. McElvaney, D. Horan, C. Gunaratnam, E.P. Reeves, N.G. McElvaney, Dublin, Ireland, p.A6265
- 605 **Cystic Fibrosis Pulmonary Exacerbation 30-Day Readmissions in 2014: Insight from the Nationwide Readmission Database**/J.V. Pugashetti, S. Alqalyoobi, M. Wilson, B.M. Morrissey, Sacramento, CA, p.A6266
- 606 **Sex Differences in Pulmonary Exacerbations in Cystic Fibrosis Patients**/K. Montemayor, R. Dezube, N. Lechtzin, M. Jennings, A. Thaxton, S. Allgood, C.A. Merlo, K.A. Riekert, N.E. West, Baltimore, MD, p.A6267
- 607 **The Impacts of Particulate Pollution on Acute Pulmonary Exacerbations, FEV1, and FVC in Cystic Fibrosis Patients**/D.L. Mendoza, C.S. Pirozzi, T.G. Liou, N.P. Harlan, R. Paine, Salt Lake City, UT, p.A6268
- 608 **Clinical Efficacy and Safety of CFTR-Directed Therapies in Cystic Fibrosis: A Systematic Review and Meta-Analysis**/A.-R. Habib, M. Kajbafzadeh, C.L. Yang, K. Skolnik, B. Quon, Sydney, Australia, p.A6269
- 609 **Demographics of Cystic Fibrosis Liver Disease: A Single Center Review**/R. Helton, J. Lascano, J. Immergluck, Oklahoma City, OK, p.A6270
- 610 **Adherence to Therapy and Patient Reported Satisfaction Using a Novel Airway Clearance and Lung Expansion Treatment in Motor Neuron Disease (MND) and Cystic Fibrosis (CF) Patients in the Home Setting**/R. Sharma, M. Prickett, J.M. Coleman, J.L. Hixon, L.F. Wolfe, Chicago, IL, p.A6271
- 611 **Non-Cystic Fibrosis Bronchiectasis Associated with Chronic Obstructive Pulmonary Disease: Who is at Risk for More Severe Disease?**/A.S. Sadigov, R. Baylarov, K. Abasaliyeva, Baku, Azerbaijan, p.A6272
- 612 **Etiologies of Bronchiectasis in an Active Duty Military Population**/I. McInnis, E.T. Mccann, B. Barber, M.J. Morris, JBSA - Fort Sam Houston, TX, p.A6273
- 613 **The Clinical Features of Bronchiectasis Associated with Alpha-1 Antitrypsin Deficiency, Common Variable Immunodeficiency, and Primary Ciliary Dyskinesia**/R. Choate, E. Eden, D.J. Addrizzo-Harris, T.R. Aksamit, C.L. Daley, L.A. Daniels, A.M. DiMango, K.P. Fennelly, D.E. Griffith, M.M. Johnson, M.R. Knowles, M.L. Metersky, P.G. Noone, A.E. O'Donnell, K.N. Olivier, M.A. Salathe, A. Schmid, B.M. Thomashow, G. Tino, G.M. Turino, K.L. Winthrop, A.F. Barker, Lexington, KY, p.A6275
- 614 **A Prospective Assessment of Procalcitonin Levels in Bronchiectasis**/W. Bowman, S. Ahdoot, M. Juarez, B.M. Morrissey, Sacramento, CA, p.A6276

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

D23 ADULT CF AND NON-CF BRONCHIECTASIS

9:15 a.m. - 11:15 a.m. SAN DIEGO CONVENTION CENTER

Room 30 C-E (Upper Level)

Abstract Summaries 9:15-9:45

Viewing/Discussion 9:45-11:15

Chairing: A.E. O'Donnell, MD, Washington, DC
D. Polineni, MD, MPH, Kansas City, KS

- 601 **Intracellular Persistence of Pseudomonas Aeruginosa in Airway Epithelial Cells and in Cystic Fibrosis Lung**/E. Faure, P. Jorth, J. Berube, E. Brochiero, D. Newman, S. Rousseau, D. Nguyen, Montreal, Canada, p.A6262

- 615 **Sleep Quality in Relation to Pulmonary Function in Patients with Cystic Fibrosis/S.A. Tahir, J.R. Woytanowski, M.J. Stephen, Philadelphia, PA, p.A6277**
- 616 **Clinical Outcomes in Relation to Care of a Multidisciplinary Non-Cystic Fibrosis Bronchiectasis Out-Patient Clinic/J. Yuan, S. Ho, J. Y. H. Lee, E.C. Tan, X.N. Wang, L.M. Tham, A. Verma, S.H. Puah, J.A. Abisheganaden, A. Y. H. Lim, Singapore, Singapore, p.A6278**
- 617 **Effect of Inhaled Liposomal Ciprofloxacin on Severe Pulmonary Exacerbations in Patients with Bronchiectasis and Chronic Pseudomonas Aeruginosa Lung Infections/J. Chalmers, C. Haworth, A.M. Davis, I. Gonda, J.K. Froehlich, A.E. O'Donnell, Dundee, United Kingdom, p.A6279**
- 618 **Safety and Tolerability of ARD-3150, Inhaled Liposomal Ciprofloxacin, in Patients with Bronchiectasis and Chronic Pseudomonas Aeruginosa Infection: Results from Two Phase 3 Trials/S. Sethi, C. Haworth, A.M. Davis, I. Gonda, J.K. Froehlich, A.E. O'Donnell, Buffalo, NY, p.A6280**
- 619 **Longitudinal Analysis of Pulmonary Exacerbations: Results from ORBIT-3 and ORBIT-4 Trials of ARD-3150 in Patients with Non Cystic Fibrosis Bronchiectasis and Chronic Infection with Pseudomonas Aeruginosa/J. Froehlich, D. Cipolla, A.M. Davis, I. Gonda, B. Thompson, Hayward, CA, p.A6281**
- 620 **Factors Associated with Extended Inhaled Corticosteroid Use in U.S. Medicare Bronchiectasis Patients/E. Henkle, B. Chan, T.R. Aksamit, J.R. Curtis, K.L. Winthrop, Portland, OR, p.A6282**
- 621 **Systemic Inflammatory Biomarker Analysis in Current and Former Smokers with and Without Bronchiectasis/G. Kinney, K. Young, Y. Okajima, C. Martinez, D.J. Maselli, W. Wang, J.E. Hokanson, J.L. Curtis, R. San Jose Estepar, B.D. Ross, M.K. Han, F.J. Martinez, R.P. Bowler, A. Diaz, Aurora, CO, p.A6283**
- 622 **The Impact of Exacerbation Definition in Non-Cystic Fibrosis Bronchiectasis (NCFB) Studies: Results from the RESPIRE Trials of Ciprofloxacin Dry Powder for Inhalation (DPI) Using Different Definitions of Exacerbation/T. Aksamit, T.J. Bandel, A. De Soyza, S. Elborn, E. Operschall, K. Winthrop, R. Wilson, Rochester, MN, p.A6284**
- 623 **Systemic Chitotriosidase Activity Associates with the Exacerbator Phenotype in Non-Cystic Fibrosis Bronchiectasis/T. Poh, P.Y. Tiew, K.X. Thng, Z. Tien, A.Y.H. Lim, T.B. Low, G.L. Tan, W.M. Chew, A.K.W. Chan, T.M. Hassan, T.H. Ong, M.S. Koh, J.A.A. Abisheganaden, S.H. Chotirmall, Singapore, Singapore, p.A6285**
- 624 **Routine Evaluation for Hypoxia, Hypercarbia, and Pulmonary Hypertension Is Infrequent for Patients with Advanced Cystic Fibrosis Prior to Lung Transplant Referral/K.J. Ramos, L.E. Rejman, R. Somayaji, E.D. Lease, M.L. Aitken, C.H. Goss, Seattle, WA, p.A6286**
- 625 **Long-term Safety and Efficacy of Tezacaftor/Ivacaftor in Patients With Cystic Fibrosis Homozygous for F508del-CFTR or Heterozygous for F508del and a Residual Function Mutation: First Interim Analysis Results of a Phase 3, Open-label, Rollover Study/A. Flume, C. A. Owen, C. D. Brown, L. Wang, M. Jain, Z. Yuan, J. Lekstrom-Himes, C. L. Keating, Charleston, SC, P.A7807**

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

D24 CRITICAL CARE: REFINING THE DAY TO DAY PRACTICE OF CRITICAL CARE - FROM TRIAGE TO IMPLEMENTATION OF BEST PRACTICE TO DISPOSITION

9:15 a.m. - 11:15 a.m. SAN DIEGO CONVENTION CENTER

Room 31 A-C (Upper Level)

Abstract Summaries 9:15-9:45

Viewing/Discussion 9:45-11:15

Chairing: H.B. Gershengorn, MD, Miami, FL
J. Stevens, MD, MS, Boston, MA
R.C. Hyzy, ND, Ann Arbor, MI

701 Effect of Implementation of Emergency Department Critical Care Response System on Patient Disposition and Outcome/K. Morrissette, C.D. Hypes, J.M. Mosier, Tucson, AZ, p.A6287

702 Development and Evaluation of a Cognitive Aid Booklet for Use in Rapid Response Scenarios/A. Lehr, O. Mitchell, M. Lo, L.M. Kam, A. Andriotis, K.J. Felner, B. Kaufman, C. Madeira, New York, NY, p.A6288

703 Clinical Estimates of Patient Benefit from ICU Care Are Influenced by Logically Irrelevant Factors: A Randomized Study/T.S. Valley, A.J. Admon, D.B. Zahuranec, A. Garland, A. Fagerlin, T.J. Iwashyna, Ann Arbor, MI, p.A6289

704 Intensive Care Unit Clinician Agreement About Patient Care at Time of Ward Transfer and Association with Outcomes/J.M. Neborak, J.C. Rojas, A. Garazha, M. Kilaru, K.A. Carey, M.M. Churpek, V.M. Arora, Chicago, IL, p.A6290

705 Evaluation of the Number of Providers and Handoffs for Patients Receiving Prolonged Mechanical Ventilation/T. Bice, K. Short, S.S. Carson, Chapel Hill, NC, p.A6291

706 Reducing Transfer Time from the Acute Inpatient Floors to the MICU: A Quality Improvement Intervention/M.K. Ellis, R. Bender, J. Roddy, A. Rusk, Milwaukee, WI, p.A6292

707 Disparate Provision of Low Tidal Volume Ventilation: A Secondary Analysis of United States Critical Illness and Injury Trials Group Critical Illness Outcomes Study (USCIITG-CIOS) Data/M.L. Malnoske, A. Barwise, M. Wilson, J. Kempke, C. Quill, A.P. Pietropaoli, Rochester, NY, p.A6293

708 Mind the Gap: Errors in Ventilator Data Communication During Daily ICU Rounds/A. Bhushan, D. Williams, J. Bordley, V. Mohan, J.A. Gold, K. Artis, Portland, OR, p.A6294

709 Patterns of Low Tidal Volume Noncompliance During Invasive Mechanical Ventilation/M. Sjoding, M.N. Gong, T.J. Iwashyna, Ann Arbor, MI, p.A6295

710 Applying Learning Theory to Predict Areas of Non-Compliance with an ARDS Protocol/S. Mucha, A. Kapoor, A. Duggal, Cleveland, OH, p.A6296

- 711 **The Impact of Partial Adherence to Lung Protective Ventilation on Outcomes in Acute Respiratory Distress Syndrome/** G.S. Schneider, N.N. Goel, S. Ranginwala, G.T. Loo, K.S. Mathews, New York, NY, p.A6297
- 712 **After the FACTT: Volume Overload, Implementation of Fluid Management Strategies, and Outcomes in Moderate/Severe ARDS/**K. Seitz, E.S. Caldwell, K.H. Mitchell, C.L. Hough, Seattle, WA, p.A6298
- 713 **Simulation-Based Mastery Learning Improves Resident Skill Managing Mechanical Ventilators/**A. Frogameni, J. Barsuk, L. Sivarajan, E. Cohen, C.J. Schroedl, Chicago, IL, p.A6299
- 714 **Quality Improvement in Ventilation Times in Patients Excluded from a Protocol as Evidence of Culture Change/**A. Greenwald, P. Kurlansky, M. Argenziano, N.H. Yip, B. Bennett, D. Langone, E. Veloria, S. Guevara, V.K. Moitra, New York, NY, p.A6300
- 715 **Role of STAT Chest X-Ray in Uncomplicated Intubations in ICU/**I. Ratnani, A. Akber, G. Gheewala, S.R. Surani, D. Bawa, Houston, TX, p.A6301
- 716 **Ventilator Associated Complications: Development and Validation of an Automated Detection Algorithm and Application in a Population-Based Cohort of Adult Critical Care Patients in Alberta/**D.C. Vis, A. Soo, D.J. Zuege, Calgary, Canada, p.A6302
- 717 **Does an Antimicrobial Time Out Impact the Duration of Usage of Antimicrobials in the PICU?/**C. Babbitt, S. Adams, L. Ngo, Long Beach, CA, p.A6303
- 718 **Reduction of Central Line Associated Bloodstream Infections and Catheter Associated Urinary Tract Infections by Utilizing a Morning Report Format in the ICU/**D. Arshed, O.A. Abe, P. Trivedi, J. Gasperino, Flushing, NY, p.A6304
- 719 **Delayed Dose of Pharmacological VTE Prophylaxis and VTE Incidence in Hospitalized Patients/**S. Patil, S. Karanth, M. Ayad, P. Vijhni, S. Kaushal, A. Sen, K. Gopal, B. Patel, Houston, TX, p.A6305
- 720 **Impact of Weekly Tele-Education Sessions Based on CERTAIN Platform in a Medical Intensive Care Unit with Limited Resources/**P. Kovacevic, S. Dragic, D. Momcicevic, B. Zlojutro, S. Kovacevic, V. Djajic, T. Kovacevic, E. Festic, O. Gajic, Banja Luka, Bosnia and Herzegovina, p.A6306
- 721 **Predictors of Post-Discharge Outcomes and Care-Seeking Behaviors among Children with Acute Infectious Illness in Southwestern Uganda/**P.P. Moschovis, J.M. Blake, A.K. Liebman, E. Kumbakumba, M.O. Wiens, Boston, MA, p.A6307
- 722 **The Feasibility and Acceptability of a Written Exposure Therapy (WET) Resilience Intervention in Critical Care Nurses/**M. Mealer, K. Cochran, J. Evans, M. Moss, Aurora, CO, p.A6308
- 723 **Impact of Physician Workload on Risk of ICU Readmission and Accuracy for Predicting Bouncebacks/**T. Jiang, J.C. Rojas, P. Lyons, M. Kilaru, K. Carey, L.R. Venable, M.M. Churpek, Chicago, IL, p.A6309
- 724 **Hurricane Harvey: Impact on ICU Admission/**A. Sen, M. Ayad, S. Karanth, S. Patil, K. Luther, B. Patel, Houston, TX, p.A6310
- 725 **Intensivist Service Impact on ICU Length of Stay Over a Two-Year Period in a Community Hospital/**I. Butler, S.W. Zgliniec, A. Presente, K. Koirala, San Diego, CA, p.A6311

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

D25 ADVANCES IN RARE LUNG AND PULMONARY VASCULAR DISEASE IN CHILDREN

9:15 a.m. - 11:15 a.m.

SAN DIEGO CONVENTION CENTER

Room 6 D (Upper Level)

- | | |
|---------------------------|-------------------|
| Abstract Summaries | 9:15-9:45 |
| Viewing/Discussion | 9:45-11:15 |
- Chairing:** R.R. Deterding, MD, Aurora, CO
E.D. Austin, MD, Nashville, TN
A.M. Casey, MD, Boston, MA
- 201 **Transition to Oral Treprostinil from Parenteral or Inhaled Treprostinil or as Add-On Therapy in Pediatric Subjects with Pulmonary Arterial Hypertension/**D. Ivy, J. Feinstein, D. Yung, M. Mullen, E. Kirkpatrick, R. Hirsch, E.D. Austin, J. Fineman, A. Doran, D. Solum, C. Deng, R.K. Hopper, Aurora, CO, p.A6312
- 202 **Elevated Periostin and NT-proBNP in Tracheal Aspirates Were Associated with Pulmonary Hypertension in Mechanically Ventilated Children with RSV Bronchiolitis/**L.D. Vu, C. Ward, J. Devincenzo, R. Philip, S.A. Cormier, D. Kimura, Memphis, TN, p.A6313
- 203 **Comparison Between Paediatric and Adult Patients with Pulmonary Arterial Hypertension/**A. Manes, F. Dardi, M. Palazzini, A. Rinaldi, A. Albini, E. Monti, E. Zuffa, D. Guarino, F. Pasca, N. Gallé, Bologna, Italy, p.A6314
- 204 **Relationship Between Pulmonary Vascular Resistance and Right Ventricular Dysfunction Assessed by MRI in Pediatric Pulmonary Arterial Hypertension/**R.K. Hopper, H. Chen, M. Ogawa, J.A. Feinstein, Palo Alto, CA, p.A6315
- 205 **Preserved Right Ventricular Function Despite Relatively High Pulmonary Arterial Pressure in Children and Adolescents with Pulmonary Arterial Hypertension/**T. Nakayama, S. Takatsuki, S. Yanai, S. Ikehara, H. Matsuura, Tokyo, Japan, p.A6316
- 206 **Clinical Application of Laser Doppler Flowmetry in Children and Young Adults with Pulmonary Arterial Hypertension/**S. Takatsuki, T. Nakayama, S. Yanai, S. Ikehara, H. Matsuura, Tokyo, Japan, p.A6317
- 207 **Characterizing Bronchoalveolar Lavages and Bronchial Casts in Patients with Congenital Heart Disease and Plastic Bronchitis at Time of Percutaneous Lymphatic Intervention/**A. Geanacopoulos, Y. Dori, M. Itkin, E. Pinto, J. Johnstone, J. Piccione, S. Goldfarb, Philadelphia, PA, p.A6318
- 208 **Childhood Interstitial Lung Disease in a Large Tertiary Care Center: Implications of a Family Needs Assessment Survey/**K. Mogren, S.K. Welsh, K. Krone, M.P. Fishman, A.M. Casey, Boston, MA, p.A6319
- 209 **Clinical Characteristics and Long-Term Follow Up of Post-Infectious Bronchiolitis Obliterans in Children/**H. Chung, Y.Y. Jang, Daegu, Korea, Republic of, p.A6320
- 210 **Lung Shape from Chest Computed Tomography Scan Predicts Diagnosis of Neuroendocrine Cell Hyperplasia of Infancy/**E. Mastej, S.M. Humphries, M. Cook, D. Liptzin, J. Weinman, R.R. Deterding, E.M. DeBoer, Aurora, CO, p.A6321

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- 211 **A Recurrent Hemizygous Deletion at the MHC Region Impacting MICA, LINC01149, HCP5, HCG26 Associates with Idiopathic Pulmonary Hemosiderosis/G. Vazquez Garcia, F. Mentch, X. Chang, A. Zuppa, S.B. Goldfarb, H. Hakonarson, Philadelphia, PA, p.A6322**
- 212 **Multiplexed Direct Genomic Selection to Identify Non-Coding and Copy Number Variation in ABCA3 Among Neonates with Respiratory Failure and Children with Interstitial Lung Disease (chILD) with Monoallelic ABCA3 Variants/J. Wambach, J.B. Tam-Williams, D.J. Wegner, D.M. Alvarado, A. Hamvas, F.S. Cole, L.M. Nogee, St. Louis, MO, p.A6323**
- 213 **Pulmonary Screening of Pediatric Hematopoietic Stem Cell Transplant Patients/C. Towe, N. Gloude, J. El-Bietar, M. Grimley, L. Walkup, J.C. Woods, K. Myers, Cincinnati, OH, p.A6324**
- 214 **Assessment of Late Pulmonary Outcomes and Exercise Capacity Among Pediatric Survivors of High-Risk Neuroblastoma/A.E. Stone, D. Novetsky Friedman, B.H. Kushner, S. Wolden, S. Modak, M.P. LaQuaglia, J. Costello, H. Veler, X. Wu, N.-K. Cheung, C.A. Sklar, New York, NY, p.A6325**
- 215 **Prognostic Factors of Outcome in Pediatric Oncology Patients with a Pulmonary Complication/K. Kim, H.J. Lee, E.A. Yang, H.S. Kim, Y.H. Chun, J.-S. Yoon, H.H. Kim, J. Kim, Seoul, Korea, Republic of, p.A6326**
- 216 **Association of Airway Smooth Muscle Deficiency with Congenital Pulmonary Airway Malformation/W. Shi, Y. Jiang, Y. Luo, R. Moats, D. Warburton, L. Wang, Los Angeles, CA, p.A6327**
- 217 **AVXS-101 Phase 1 Gene Therapy Clinical Trial in SMA Type 1: Continued Event-Free Survival, Achievement of Developmental Milestones, and Continued Respiratory and Nutritional Support Independence/R. Shell, S. Al-Zaidy, K. Kotha, W.D. Arnold, L. Rodino-Klapac, T.W. Prior, L. Lowes, L. Alfano, K. Berry, K. Church, J.T. Kissel, S. Nagendran, J. L'Italien, D.M. Sproule, C. Wells, A.H.M. Burghes, K.D. Foust, K. Meyer, S. Likhite, B. Kaspar, J. Mendell, Columbus, OH, p.A6328**
- 218 **Abnormal Surfactant Protein Expression and Activation of Anti-Apoptotic Pathways in Severe Interstitial Lung Disease (ILD) in Rubinstein-Taybi Syndrome (RTS)/X. Li, S.S. Wong, J. Zhao, A. Jegga, K. Shayan, J.S. Hagood, Tianjin, China, p.A7787**
- 501 **Dysfunctional Endothelial Cells in Patients with Chronic Thromboembolic Pulmonary Hypertension/V. Smolders, I. Blanco, L. Piccari, J. Garcia Lucio, E. Zodda, L. Sebastian, M. Castellá, J. Osorio, M. Cascante, V.I. Peinado, P. Quax, J.A. Barberà, O. Tura-Ceide, Barcelona, Spain, p.A6329**
- 502 **PPAR Signaling Pathway Involved in CTEPH Pathogenesis/S.J. Halliday, D. Matthews, M. Talati, E.D. Austin, Y.R. Su, N.L. Fortune, T.S. Absi, J.D. West, A.R. Hemnes, Nashville, TN, p.A6330**
- 503 **Status of Nitric Oxide Metabolites in Patients with Chronic Thromboembolic Pulmonary Hypertension/R. Zhang, L. Wang, Q.-H. Zhao, S.-G. Gong, R. Jiang, J.-M. Liu, Shanghai, China, p.A6331**
- 504 **Absence of the Factor V Leiden Mutation and Genetic Risk for Chronic Thromboembolic Pulmonary Hypertension/M.W. Dodson, K.L. Sumner, J. Sanders, L.M. Brown, H. Best, L. Cannon-Albright, G. Elliott, Murray, UT, p.A6332**
- 505 **Prevalence, Localization of Venous Thromboembolism and Outcomes in Adults with Sickle Cell Disease/F. Ogundipe, R. Ogunti, J. Ngwa, C. Nwachukwu, D. Ugwendum, P. Whitesell, J. Taylor, A. Mehari, Washington, DC, p.A6333**
- 506 **Clinical Characteristics of Venous Thromboembolism in Patients with Sickle Cell Disease/B. Scarpato, R. Strykowski, J. Patel, R.T. Cohen, S.M. Nouriaie, E.S. Klings, Boston, MA, p.A6334**
- 507 **Gender Difference of Survival in Chinese Patients with Inoperable Chronic Thromboembolic Pulmonary Hypertension/T. Chen, P. Yuan, J. Liu, Shanghai, China, p.A6335**
- 508 **Ventilation/Perfusion Scintigraphy for the Diagnosis of CTEPH After Splenectomy/M. Gerges, C. Gerges, G. Karanikas, W. Birkfellner, I. Weinberg, I. Schwarzinger, N. Skoro-Sajer, M.K. Frey, M. Publig, M.P. Schaffarich, J. Jakowitsch, B. Moser, S. Taghavi, W. Klepetko, M. Hacker, I.M. Lang, Vienna, Austria, p.A6336**
- 509 **Determining the Minimal Clinically Important Difference (MCID) for the PEmbQoL Questionnaire, A Measure of PE-Specific Quality of Life/A. Akaberi, F.A. Klok, C. Danny, A.M. Hirsch, J.T. Granton, S.R. Kahn, Montreal, Canada, p.A6337**
- 510 **Non-Invasive Cardiopulmonary Exercise Testing to Screen Patients After Pulmonary Embolism for Chronic Thromboembolic Disease/T. Fernandes, D. Strozza, B. Crabb, G. Faulkner, A. Salcido, B.G. Money, R.M. Wiglesworth, T.A. Morris, San Diego, CA, p.A6338**
- 511 **Cross-Border European Cooperation in Pulmonary Endarterectomy/K. Karlocai, G. Csozsa, Z. Lazar, I.M. Lang, B. Moser, S. Taghavi, W. Klepetko, Budapest, Hungary, p.A6339**
- 512 **West Coast PERT: A First Year Experience with a Multidisciplinary Pulmonary Embolism Response Team/B. Lindgren, A. Weinberg, O. Friedman, S. Dohad, V.F. Tapson, Los Angeles, CA, p.A6340**
- 513 **Impact of Discontinuation of Pulmonary Hypertension-Targeted Drugs in Chronic Thromboembolic Pulmonary Hypertension Patients After Balloon Pulmonary Angioplasty/Y. Shintani, J. Ueda, T. Ogo, Osaka, Japan, p.A6341**

POSTER DISCUSSION SESSION

D26 WITH FRIENDS LIKE THESE: INSIDE THE SPECTRUM OF PE AND CTEPH

9:15 a.m. - 11:15 a.m. SAN DIEGO CONVENTION CENTER
Room 28 C-E (Upper Level)

Poster Viewing 9:15-10:00
Discussion 10:00-11:15

Chairing: N.H. Kim, MD, La Jolla, CA
 W.R. Auger, MD, La Jolla, CA
 P.A. Thistlethwaite, MD, PhD, La Jolla, CA

WEDNESDAY MORNING

- 514 Subcutaneous Treprostinil for the Treatment of Non-Operable Chronic Thromboembolic Pulmonary Hypertension: A Randomized, Controlled Trial CTREPH/R.** Sadushi-Kolici, P. Jansa, G. Kopec, A. Torbicki, I.-A. Campean, G. Hoeffken, N. Skoro-Sajer, I. Simkova, K. Karlocai, R. Steringer-Mascherbauer, M. Samarzija, B. Salobir, W. Klepetko, J. Lindner, I. Lang, Vienna, Austria, p.A6342
- 515 Long-Term Outcomes of Patients with Chronic Thromboembolic Pulmonary Hypertension at a Single Japanese Pulmonary Endarterectomy Center/H.** Miwa, N. Tanabe, T. Jujo, F. Kato, R. Anazawa, K. Yamamoto, A. Naito, H. Kasai, R. Nishimura, T. Sugiura, S. Sakao, K. Tatsumi, Chiba, Japan, p.A6343
- 516 Clot-in-Transit: Survival Outcomes by Differing Treatment Modalities - A Pooled Analysis/M.** Islam, D. Nesheim, N. Ramesh, M. Ehrlich, D. Steiger, J. Filopei, New York, NY, p.A6344
- 517 Comparison of Outcomes Between Catheter-Directed Thrombolysis and Systemic Anticoagulation in Patients with Submassive Pulmonary Embolism/T.** Lat, K. Lipatov, W. Chen, D. Bretzing, A. Subramanian, E. Chang, M. Ribeiro, B. Dolla, H.D. White, A. Arroliga, S.A. Ghamande, Temple, TX, p.A6345
- 518 Treatment Effect of Rivaroxaban in the Extended Treatment of Venous Thromboembolism: A Comparative Network Meta-Analysis/V.** Mai, S. Provencher, M. Cuherat, S. Jardel, L. Bertoletti, J.-C. Lega, Quebec City, Canada, p.A6346
- 519 Outpatient Management and Early Discharge Compared to Standard Care in Patients with Acute Pulmonary Embolism in a Southern California Teaching Hospital/D.J.** Elias, A. Benezé, J. Waalen, P.M. Averell, D. Dworsky, La Jolla, CA, p.A6347
- 520 Inferior Vena Cava Filter Improves Mortality in Pulmonary Embolism/Z.M.** Htun, M.H. Gul, H.H. Aye, P. Jain, A.K. Lwin, Chicago, IL, p.A6348
- 521 Plasma-Based Circulating MicroRNA Biomarkers for Chronic Thromboembolism Pulmonary Hypertension/A.T.** Fabro, H.R. Crunivel, P.D.S. Leao, S.S. Batah, A.L. Santos, J.R. Machado-Rugulo, A.I. de Padua, J.A. Baddini-Martinez, C.A. Rainho, H.H.B. Yoo, V.L. Capelozzi, Ribeirao Preto, Brazil, p.A6349
- 522 Balloon Pulmonary Angioplasty for Inoperable Chronic Thromboembolic Pulmonary Hypertension: The Initial Experience at Paris-Sud University/P.** Brenot, X. Jais, Y. Taniguchi, C. Garcia Alonso, M. Humbert, E. Fadel, G. Simonneau, Le Plesis Robinson, France, p.A7788
- 523 Familial Clustering Suggests a Genetic Contribution to Risk of Chronic Thromboembolic Pulmonary Hypertension/M.W.** Dodson, K. Allen-Brady, L.M. Brown, G. Elliott, L. Cannon-Albright, Murray, UT, p.A7789

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

D27 REDOX AND BEYOND: MITOCHONDRIA, ER STRESS, AND PROTEASOMES

9:15 a.m. - 11:15 a.m.

MARRIOTT MARQUIS SAN DIEGO MARINA

Pacific Ballroom 15-17 (North Tower, First Floor)

Abstract Summaries

9:15-9:45

Viewing/Discussion

9:45-11:15

Chairing: M.-J. Kang, MD, PhD, New Haven, CT
C.J. Gottardi, PhD, Chicago, IL
S. Meiners, PhD, Munich, Germany

- 901 Alterations in the Expression of Slc7a11 in Murine Lung Fibroblasts Is Responsible for Aging-Dependent Oxidation of Cysteine/Cystine Redox State (Eh Cys/CySS)/J.** Ritzenthaler, Y. Zhang, T.J. Burke, J. Otero, J. Roman, W.H. Watson, Louisville, KY, p.A6350
- 902 Role of Alpha 4 Nicotinic Acetylcholine Receptors (α4 nAChR) in Regulation of Fibronectin Expression and Redox State in Lung Fibroblasts/J.** Ritzenthaler, W.H. Watson, Y. Zheng, T.J. Burke, E. Torres-González, G. Arteel, J. Roman, Louisville, KY, p.A6351
- 903 Nuclear Thioredoxin-1 Potentiates Inflammatory Signaling and Cell Death During Hyperoxic Injury/P.** Vitiello, B. Forred, M. Floen, M. Booze, J. Cain, A. Fairchild, S. Baack, A. Ashbacher, E. Fale, J. Weimer, Y.-M. Go, Sioux Falls, SD, p.A6352
- 904 Oxidative Stress Enhances the Expression of IL-33 in Airway Epithelial Cells During Virus Infection/H.** Aizawa, A. Koarai, Y. Shishikura, S. Yanagisawa, M. Yamaya, H. Sugiura, T. Numakura, M. Yamada, T. Ichikawa, N. Fujino, M. Noda, Y. Okada, M. Ichinose, Sendai, Japan, p.A6353
- 905 MUC5B Expression in IPF Is Associated with ER Stress/E.** Dobrinskikh, A.D. Walts, D.A. Schwartz, Aurora, CO, p.A6354
- 906 The Heme-Oxygenase 1 Induction Prevents Senescence in COPD Lung Fibroblasts by Protecting Against Mitochondrial Dysfunction/B.** Even, S. Fayad-Kobeissi, J.-M. Gagliolo, R. Motterlini, J. Boczkowski, R. Foresti, M. Dagouassat, Creteil, France, p.A6355
- 907 Integated Stress Response and Mitochondrial Function During Adaptation to Smoke Exposure in Alveolar Epithelial Type 2 Cells/A.** Blumental-Perry, I. Bederman, N.A. Perry, J. Wu, D. Krokowski, D.M. Townsend, Y. Perry, M. Hatzoglou, Cleveland, OH, p.A6356
- 908 Inflammatory and Oxidative Stress in the Airway Epithelium Are Mediated Through O-Linked N-Acetyl-Glucosamine Modification and Regulated by FGF23/S.** Blumhof, S. Hutcheson, D. Eason-Duncan, D. Russell, L. Viera, J.M. Wells, G. King, S. Krick, J.W. Barnes, Birmingham, AL, p.A6357
- 909 Defining PiMZ AATD Liver Disease Susceptibility with CRISPR Targeted Syngeneic iPSCs/J.** Kaserman, M. Higgins, D.N. Kotton, A.A. Wilson, Boston, MA, p.A6358

- 910 Long Non-Coding RNA Malat1 Regulates Macrophage Polarization and Lung Injury and Fibrosis/H. Cui, N. Xie, S. Banerjee, S. Guo, R.-M. Liu, V.J. Thannickal, G. Liu, Birmingham, AL, p.A6359**
- 911 Stanniocalcin-1 (STC1) Maintains Mitochondrial Bioenergetics and Prevents Oxidant-Induced Lung Injury Via TLR4/Y. Zhang, P.J. Lee, New Haven, CT, p.A6360**
- 912 The Key Interplay of Fatty Acid Oxidation and Apoptosis Resistance of Macrophages in Pulmonary Fibrosis/L. Gu, J.L. Casey, D. Davis, A.B.B. Carter, Birmingham, AL, p.A6361**
- 913 SIRT3 Overexpression Ameliorates Asbestos-Induced Alveolar Epithelial Cell Mitochondrial DNA Damage, Monocyte-Derived Alveolar Macrophage Recruitment and Lung Fibrosis/R. Jablonski, P. Cheresch, E. Malsin, S.-J. Kim, D.R. Gius, A. Misharin, G.S. Budinger, D.W. Kamp, Chicago, IL, p.A6362**
- 914 NOX4 Modulates Lung Macrophage Polarization in Pulmonary Fibrosis Via Regulation of Mitochondrial Biogenesis/C. He, J. Larson-Casey, L. Gu, V.J. Thannickal, A.B.B. Carter, Birmingham, AL, p.A6363**
- 915 Mitochondrial Uncoupling Protein-2 Regulates Age-Related Lung Fibrosis Via Alterations in Cellular Reactive Oxygen Species, Metabolism and Senescence/S. Rangarajan, M.L. Locy, D. Chanda, D. Kurundkar, A. Kurundkar, K. Bernard, J. Deshane, J.W. Zmijewski, V. Darley-Usmar, V.J. Thannickal, Birmingham, AL, p.A6364**
- 916 TGF β -Induced Fibroblast Activation Requires HDAC-Mediated Epigenetic Suppression of Anti-Fibrotic Genes/D. Jones, A.J. Haak, N. Caporarello, G. Ligresti, D.J. Tschumperlin, Rochester, MN, p.A6365**
- 917 Elevated Mitochondrial DNA Is Associated with Poor Disease Outcomes in Sarcoidosis/C. Ryu, C. Brandsdorfer, T. Adams, D. Kelleher, M. Yaggi, N. Kaminski, E. Herzog, M. Gulati, New Haven, CT, p.A6366**
- 918 Emerging Evidence for BAX-Inhibitor-1 (BI-1) in Differential Unfolded Protein Response (UPR) in Idiopathic Pulmonary Fibrosis (IPF) Fibroblasts/S. Bui, A. Doane, L. Rodriguez, S.D. Nathan, G.M. Grant, Manassas, VA, p.A6367**
- 919 The Endoplasmic Reticulum Chaperone, GRP78, Protects Against the Adverse Effects of Cigarette Smoke on Lung Cell Proteostasis/M.O. Aksoy, N. Shetty, R. Ji, N. Shariff, N. Binnat, K. Cordova, S.G. Kelsen, Philadelphia, PA, p.A6368**
- 920 Sphingomyelin Synthase 2 and Caveolin 1 Mediate TLR4 and ER Stress Responses/P. Geraghty, J. Poon, M. White, A. Dabo, N.G. McElvaney, E.P. Reeves, R. Wadgaonkar, New York, NY, p.A6369**
- 921 Oxidative Stress and Cell Death in Whole Body Low Dose X-Radiation Exposure in an In Vivo Model/S. Puukila, S. Muise, J. McEvoy, T. Bouchier, A.M. Hooker, D.R. Boreham, D.-L. Dixon, Adelaide, Australia, p.A6370**
- 922 Flow-Mediated Inflammatory Signaling Through Mitochondrial Reactive Oxygen Species in Endothelial Cells Is Mediated by Glycolytic Suppression of Oxidative Phosphorylation/D. Wu, A.Y. Meliton, R.B. Hamanaka, K. Sun, Y. Fang, G.M. Mutlu, Chicago, IL, p.A6371**
- 923 Nrf-2 Inducers Ameliorate Hyperoxia-Compromised Macrophage Functions/K. Dial, W. Wu, M. Wang, J. Wu, L. Mantell, Jamaica, NY, p.A6372**
- 924 Redox States of Thiol Disulfide Couples and Markers of Extracellular Matrix Remodeling in Bronchoalveolar Lavage Fluid of HIV-Infected Subjects with COPD/S.A. Suliman, J. Ritzenthaler, P. Peyrani, T. Wiemken, T.J. Burke, Y. Zheng, J.A. Ramirez, W.H. Watson, J. Roman, Louisville, KY, p.A6373**
- 925 Proteomic Profiling of the Airway Epithelium in COPD Reveals Sex-Enhanced Alterations Linked to Xenobiotic Metabolism and ER Stress, Correlated to Airway Wall Thickening and Goblet Cell Density in Women/A.M. Wheelock, T. Heyder, M. Yang, M. Kohler, H. Merikallio, C.-X. Li, R. Karimi, C. Sihlbom, S. Nyren, C.M. Skold, Stockholm, Sweden, p.A7790**

POSTER DISCUSSION SESSION

D28 RESPIRATORY DISEASE DIAGNOSIS: PULMONARY FUNCTION TESTING AND IMAGING

9:15 a.m. - 11:15 a.m. **MARRIOTT MARQUIS SAN DIEGO MARINA**
Pacific Ballroom 24-26 (North Tower, First Floor)

Poster Viewing 9:15-10:00

Discussion 10:00-11:15

Chairing: G.S. Skloot, MD, New York, NY
G.K. Prisk, PhD, DSc, La Jolla, CA
C.C. Hsia, MD, Dallas, TX

- 1001 A Low Morphometric Complexity of Emphysematous Lesion on Chest CT Predicts Long-Term Survival in COPD Patients/J. Hwang, Y.-M. Oh, M. Lee, S. Choi, S.M. Lee, N. Kim, Seoul, Korea, Republic of, p.A6374**
- 1002 Computed Tomography Total Airway Count Predicts Disease Changes in the Quiet Zone in Severe COPD/M. Kirby, N. Tanabe, D.M. Vasilescu, W.-C. Tan, H.O. Coxson, J.C. Hogg, Vancouver, Canada, p.A6375**
- 1003 Ventilation Defects in Asthma on Hyperpolarized Gas MRI Are Associated with Airway Mucus Plugs on CT/D. Mummy, E. Dunican, T. Lampkins, W. Zha, M. Evans, M. Schiebler, S.K. Nagle, R.L. Sorkness, N.N. Jarjour, J.V. Fahy, S.B. Fain, Madison, WI, p.A6376**
- 1004 Pulmonary Ventilation Imaging in Asthma and Cystic Fibrosis Using Oxygen-Enhanced 3D Radial Ultrashort Echo Time MRI/W. Zha, S.J. Kruger, R.V. Cadman, A. Hahn, S.K. Nagle, S.B. Fain, Madison, WI, p.A6377**
- 1005 Metabolic Syndrome Is Associated with Distal Airway Dysfunction and Respiratory Symptoms in Obese Subjects/I. Bohart, S.T. Schuster, B. Oppenheimer, R.M. Goldring, K.I. Berger, New York, NY, p.A6378**
- 1006 Assessment of Regional Lung Ventilation and Airflow in Clinical Patients Using 4DXV/A. Fouras, A. Winnett, R. Carnibella, C.R. Samarage, Los Angeles, CA, p.A6379**

- 1007 Spatial Reference Maps of the Lung/R. Moats, H.A. Pollack, D.S. Koos, M.D. Nelson, Y. Tang, S.E. Fraser, W. Shi, D. Warburton, Los Angeles, CA, p.A6380**
- 1008 Determining the Minimal Clinically Important Difference: MRI Ventilation Defect Percent in Asthmatics/R. Eddy, S.L. Svenningsen, D.G. McCormack, G. Parraga, London, Canada, p.A6381**
- 1009 Regional Ventilation Changes in Severe Asthma After Bronchial Thermoplasty/C. Hall, J.D. Quirk, C. Goss, J. Kozlowski, R.P. Thomen, J.C. Woods, N. Tustison, J. Mugler, K. Schechtman, L. Gallagher, T. Koch, I. Ruset, F.W. Hersman, M. Castro, St. Louis, MO, p.A6382**
- 1010 Arterial Blood Gases Predict Pattern of Lung Damage in Mechanically Ventilated Patients Where Lung Elastance Cannot/Z.Y. Win, A.R. Clark, G. Chase, A. Rastar, M.H. Tawhai, Auckland, New Zealand, p.A6383**
- 1011 Changes in Airway Wall Microstructures Following Bronchial Thermoplasty Detected by Optical Coherence Tomography/J. Thiboutot, W. Yuan, H. Park, A.D. Lerner, A. Nelson, J. Loube, W. Mitzner, L.B. Yarmus, X. Li, R.H. Brown, Baltimore, MD, p.A6384**
- 1012 Intrapulmonary Deposition and Uptake Kinetics of Electronic Cigarette Vapor Imaged with PET/J.G. Venegas, J. Zhao, G.C. Motta Ribeiro, P. Demokritou, M. Papisov, Boston, MA, p.A6385**
- 1013 Investigation of Structure-Function Relationships in Cystic Fibrosis Lung Disease Using Hyperpolarized Xenon and Ultra-Short Echo MRI/R. Thomen, L. Walkup, D. Roach, N.S. Higano, Z.I. Cleveland, A. Schapiro, A.S. Brody, J.P. Clancy, J.C. Woods, Columbia, MO, p.A6386**
- 1014 QCT Imaging-Based Clusters of Former Smokers Identify Clinical Phenotypes in the SubPopulations and Intermediate Outcome Measures in COPD Study (SPIROMICS)/S. Choi, B. Haghighi, E.A. Hoffman, J.D. Newell, A.P. Comellas, R.G. Barr, M.K. Han, C.B. Cooper, W.K. O'Neal, P. Woodruff, F.J. Martinez, E.R. Bleecker, R.P. Bowler, J.A. Krishnan, R.E. Kanner, R. Paine, S.P. Peters, M.T. Dransfield, N.N. Hansel, G.J. Criner, D. Couper, S.P. Bhatt, C.-L. Lin, Daegu, Korea, Republic of, p.A6387**
- 1015 The Structural Origin of Honeycomb Cysts in IPF/J.E. McDonough, S.E. Verleden, J. Verschakelen, W. Wuyts, B.M. Vanaudenaerde, Leuven, Canada, p.A6388**
- 1016 CT DPM fSAD Measurements Compared at RV Vs. FRC in a Normal and COPD Population: COPDGene/A.P. Comellas, J.D. Newell Jr, M. Kirby, J.P. Sieren, S. Peterson, E.A. Hoffman, Iowa City, IA, p.A6389**
- 1017 Artificial Intelligence on Pulmonary Function Tests Improves Respiratory Disease Diagnosis/M. Topalovic, N. Das, P.-R. Burgel, M. Daenen, E. Derom, C. Haenebalcke, R. Janssen, G. Liistro, R. Louis, V. Ninane, C. Pison, M. Schlessler, P. Vercauter, C. Vogelmeier, E.F.M. Wouters, J. Wynants, W. Janssens, Leuven, Belgium, p.A6390**
- 1018 Spirometry Is a Marker of General Health and Disability in the Elderly: The Canadian Longitudinal Study of Aging/J.M. Huang, M.L. Duong, K.J. Killian, P. Raina, Y. Xie, A.D. Dragoman, S.J. Chen, Hamilton, Canada, p.A6391**
- 1019 Unsupervised Discovery of Spatial Informed Lung Texture Pattern (sLTP) for Pulmonary Emphysema Subtypes: The Subpopulations and Intermediate Outcome Measures in COPD Study (SPIROMICS)/J. Yang, E.D. Angelini, P.P. Balte, E.A. Hoffman, J.H.M. Austin, B.M. Smith, E.R. Bleecker, R.P. Bowler, C.B. Cooper, D. Couper, M.T. Dransfield, M.K. Han, N.N. Hansel, F.J. Martinez, R. Paine, J.D. Schroeder, P. Woodruff, V.E. Ortega, A.F. Laine, R.G. Barr, New York, NY, p.A6392**
- 1020 Effect of Anti-Th2 Therapy on MRI Ventilation Heterogeneity in Prednisone-Dependent Asthma/S.L. Svenningsen, R. Eddy, D.P.I. Capaldi, M. Kjarsgaard, K. Radford, G. Parraga, P. Nair, Hamilton, Canada, p.A6393**
- 1021 Interpretation and Variation of DLCO with Obesity: Conclusions from 14 Years of Pulmonary Function Data/P.H. Patel, S. Patolia, A. Kravac, H. Wilson, G.L. Ruppel, R. Nayak, St. Louis, MO, p.A6394**
- 1022 Bronchodilator Responsiveness in COPD: Results from SPIROMICS/I. Barjaktarevic, S. Hu, D. Couper, W.H. Anderson, R.E. Kanner, R. Paine, R.J. Kaner, J.L. Curtis, W.K. O'Neal, P. Woodruff, L. Postow, M.K. Han, F.J. Martinez, R.G. Barr, J.M. Wells, V.E. Ortega, E.A. Hoffman, C.M. Doerschuk, V. Kim, M.T. Dransfield, S.P. Bhatt, N.R. Bhakta, M.B. Drummond, R.P. Bowler, G.J. Criner, C. Martinez, D. Tashkin, C.B. Cooper, Los Angeles, CA, p.A6395**
- 1023 Prevalence and Mechanism of Clinical Symptoms in Smokers with Preserved Pulmonary Function/D. Chandra, T. Nyunoya, J.M. Bon, C. Karoleski, C. Riley, F.C. Scieurba, Pittsburgh, PA, p.A6396**
- 1024 Heterogeneous Burden of Emphysema and Functional Small Airway Abnormalities in Smokers with FEV1/FVC Ratio Above Lower Limit of Normal but Below 0.7/C.S. Pirozzi, T. Gu, P. Quibrera, E. Carretta, M.K. Han, S. Murray, C.B. Cooper, D.P. Tashkin, E.C. Kleerup, E.A. Hoffman, C. Martinez, S. Christenson, N.N. Hansel, R.G. Barr, E.R. Bleecker, V.E. Ortega, F.J. Martinez, R.E. Kanner, R. Paine, Salt Lake City, UT, p.A6397**
- 1025 Cross-Sectional Associations of High Fraction of Exhaled Nitric Oxide (FENO) in the National Health and Nutrition Examination Surveys (NHANES)/F. Kukhon, M. Ehtisham, M. Roberts, C. Eaton, Pawtucket, RI, p.A6398**

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

D29 PATHOPHYSIOLOGY OF OSA: INTERMITTENT HYPOXIA AND BEYOND

9:15 a.m. - 11:15 a.m.

SAN DIEGO CONVENTION CENTER

Room 6 E (Upper Level)

Abstract Summaries

9:15-9:45

Viewing/Discussion

9:45-11:15

Chairing: R. Tamisier, MD, PhD, Grenoble, France
V.Y. Polotsky, MD, PhD, Baltimore, MD

- 301 Mechanisms and Significance of Leptin-Induced Upregulation of the Hypoxic Ventilatory Response/C. Caballero Eraso, M.K. Shin, H. Pho, A.R. Schwartz, W.-Y. Tang, J.S.K. Sham, V.Y. Polotsky, Baltimore, MD, p.A6399**
- 302 Intranasal Leptin Treats Sleep-Disordered Breathing in Dio Mice/S. Berger, H. Pho, T.A. Fleury Curado, A.R. Schwartz, V.Y. Polotsky, Baltimore, MD, p.A6400**
- 303 Leptin Induces Hypertension Acting in the Carotid Bodies: Possible Involvement of TRP Channels/M.K. Shin, C. Caballero Eraso, W.W.-Y. Tang, B.H.-Y. Yeung, C. Gu, J.S.K. Sham, M. Shirahata, V.Y. Polotsky, Baltimore, MD, p.A6401**
- 304 Intermittent Hypoxia and Cardiovascular Remodeling in a Murine Model of Sleep Apnea: Effect of Age/A. Castro-Grattoni, M. Torres, M. Suarez, R. Alvarez, A. Martinez, C. Girón, I. Almendros, R. Farre, J.M. Montserrat, M. Dalmases, D. Gozal, F. Barbe, M. Sanchez De La Torre, Lleida, Spain, p.A6402**
- 305 Chronic Intermittent Hypoxia Accelerates Age-Related Collagen Deposition in Mouse Mammary Gland/L. Deniau, N. Morel, M. Torres, J.A. Brinkman, R. Farre, I. Almendros, M. Teodorescu, O. Broytman, Madison, WI, p.A6403**
- 306 Physiology of an Aged Mouse Model of Long-Term Intermittent Hypoxia/T. Gallego Martin, A. Gordillo, S. Yubero, E. Olea, E. Gonzalez-Obeso, A. Rocher, C.P. O'Donnell, A. Obeso, Pittsburgh, PA, p.A6404**
- 307 Alpha-Lipoic Acid Reduces Intermittent Hypoxia-Induced Renal Injury in a Mouse Model of Sleep Apnea/B.H. Abuyassin, M. Badran, S. Golbidi, N. Ayas, I. Laher, Vancouver, Canada, p.A6405**
- 308 Intermittent Hypoxia Disrupted Insulin Signaling and Glucose Homeostasis in Liver Cells/C. Gu, H. Yi, J. Feng, Z. Zhang, J. Zhou, M. Li, Q.Y. Li, Shanghai, China, p.A6406**
- 309 Differential Effects of High Fat Diet and Intermittent Hypoxia on C57BL/6N and C57BL/6J Mouse Strains/M. Ge, S.C. Yeung, J.C.W. Mak, M.S. Ip, Hong Kong, Hong Kong, p.A6407**
- 310 Heme-Oxygenase-1 Activity Decreases Pulmonary Artery Pressure in Obstructive Sleep Apnea Patients with Pulmonary Hypertension/L. Kim, D. Patel, F.A. Youssef, S. Zhao, B. Jafari, Orange, CA, p.A6408**
- 311 Obstructive Sleep Apnea (OSA) and Obesity Increase Serum Levels of Inflammatory Adhesion Molecules/B.U. Peres, A. Hirsch Allen, N. Fox, I. Laher, F. Almeida, S. Van Eeden, N. Ayas, Vancouver, Canada, p.A6409**
- 312 Complement Mediates Von Willebrand Factor Release in Obstructive Sleep Apnea/T. Thoma, M. Emin, S. Gao, R. Shah, S. Jelic, New York, NY, p.A6410**
- 313 Global Histone H3K23/H3K36 Hypoacetylation and HDAC1 Up-Regulation Are Associated with Disease Severity and Adverse Consequences in Obstructive Sleep Apnea Patients/Y.-C. Chen, M.-C. Lin, M.-C. Su, C.-H. Chin, K.-T. Huang, Y.-C. Chang, Kaohsiung, Taiwan, p.A6411**

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

D30 A BETTER PATH FORWARD: IMPROVING PATIENT OUTCOMES IN LUNG CANCER

9:15 a.m. - 11:15 a.m.

SAN DIEGO CONVENTION CENTER

Room 5 A-B (Upper Level)

Abstract Summaries 9:15-9:45
Viewing/Discussion 9:45-11:15

- Chairing:** A.A. Balekian, MD, MS, Los Angeles, CA
G.L. Narsavage, PhD, MSN, RN, APRN, Morgantown, FL
- 101 Analysis of Recurrence and Survival After Surgery or Stereotactic Radiotherapy for Early Stage NSCLC/D. Khemasuwan, J.S. Sorenson, G. Cannon, K. Teerapunchareon, D. Griffin, Brighton, MA, p.A6412**
- 102 Comorbid Illnesses, Functional Status and Short-Term Complications in Veterans Undergoing Lung Cancer Resection/P. Yong, J. Wisnivesky, C.Y. Kong, K. Stone, S. Bates, K. Sigel, New York, NY, p.A6413**
- 103 Wedge Resection Is a Better Operation for Most Stage I Non-Small Cell Lung Cancer 2cm: Seer-Medicare Analysis of 1,186 Patients/A.S. Wolf, S. Tuminello, N. Alpert, D.G. Nicastrì, E. Taioli, R.M. Flores, New York, NY, p.A6414**
- 104 Patterns of Multidisciplinary Tumor Board Utilization in the Management of Non-Small Cell Lung Cancer/J.R. Rayburn, C.L. Wilshire, C.R. Gilbert, B.E. Louie, R.W. Aye, A.S. Farivar, E. Vallieres, J.A. Gorden, Seattle, WA, p.A6415**
- 105 AVATS: Awake Video Assisted Thoracic Surgery for Patients with Poor Pulmonary Function/A. Klijian, San Diego, CA, p.A6416**
- 106 Refusal of Recommended Care for Non-Small Cell Lung Cancer/A.A. Balekian, S.M. Atay, A.A. Kim, Los Angeles, CA, p.A6417**
- 107 Location of Death Among Patients Who Die from Lung Cancer in the United States: Analysis of the Multiple Cause of Mortality/F. Ardeshir-Larjani, J. Schuster, C. Dolan, Z. Yaqoob, A. Dowlati, Cleveland, OH, p.A6418**
- 108 Contemporary Incidence Rates of Venous Thromboembolism in Patients with Non-Small Cell Lung Cancer/D.C. Escobar Olaya, N. Meti, G. Kasymjanova, V. Cohen, J. Agulnik, D. Small, A. Kezouh, V. Tagalakis, Montreal, Canada, p.A6419**
- 109 Survival Benefit Associated with Aspirin Use in Inoperable Non-Small Cell Lung Cancer Patients: A Population-Based Retrospective Cohort Study/M.-C. Chuang, M.-J. Hsieh, Y.-H. Tsai, Y.-H. Yang, Pu-Tz, Taiwan, p.A6420**
- 110 Characteristics of Primary Lung Malignancy in Fibrosis Patients with and Without Lung Transplantation/E. Gershman, Petah Tikva, Israel, p.A6421**
- 111 Do Uninsured Patients with Lung Cancer Have Better Access to Treatment?/K. Kailasam, L. Yadav, G.S. Thind, P.P. Patel, Kalamazoo, MI, p.A6422**

- 112 Prognostic Factors in Patients Diagnosed with Malignant Pleural Effusion/C. MacRosty, A. Wright, D.M. Chambers, S. Ghosh, A.R. Belanger, C. Burks, M.P. Rivera, J. Akulian, Chapel Hill, NC, p.A6423**
- 113 PD-1 Immune Checkpoint Inhibitor Alters Airway Inflammation and Pulmonary Function: A Prospective Study/Y. Suzuki, M. Katayama, S. Imokawa, M. Toyoshima, K. Yokomura, H. Kusagaya, Y. Kaida, H. Matsuda, N. Koshimizu, T. Yamada, T. Shirai, M. Masuda, H. Hayakawa, H. Yasui, H. Hozumi, K. Furuhashi, N. Enomoto, T. Fujisawa, Y. Nakamura, N. Inui, T. Suda, Hamamatsu, Japan, p.A6424**

THEMATIC POSTER SESSION

D31 INTERVENTIONAL PULMONARY: CASE REPORTS II

9:15 a.m. - 3:30 p.m. **SAN DIEGO CONVENTION CENTER**

Area G (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: L.A. Seaburg, MD, Seattle, WA

- P623 Bronchoscopic Resection of Endobronchial Carcinoid with Use of Electrocautery/V. Deshmukh, S. Iyer, Nagpur, India, p.A6425**
- P624 Spybite Forceps Biopsy Using Spyglass Direct Visualization System Vs Transbronchial Lung Biopsy to Diagnose Non-Small Cell Lung Cancer/S. Pilli, T. Kirtane, N. Thosani, P. Jani, Houston, TX, p.A6426**
- P625 Sequential Treatment for Persistent Air Leak: Persistence Pays Off!/M.U. Khawar, S. Benzaquen, A. Aragaki, Cincinnati, OH, p.A6427**
- P626 Diagnostic and Therapeutic Challenges in Managing a Persistent Air Leak: Intrabronchial Valve Placement/S. Keshishyan, O. Epelbaum, L.P. Paul, K.N. Harris, Valhalla, NY, p.A6428**
- P627 A Case of Orthopnea Caused by Unilateral Bronchomalacia/H.B. Bhatt, K. Morrow, A. Borah, E. Abramian, Philadelphia, PA, p.A6429**
- P628 A Case of Adapting to Antiplatelets: Successful Diagnosis of Nocardia Via Endobronchial Ultrasound Using a 25 Gauge Needle/J. Prete, S.A. Waheed, A. Goyal, Maywood, IL, p.A6430**
- P629 Narrow Road Ahead - Diagnosing a Mediastinal Lymphadenopathy in the Patient with a Tracheostomy Tube by Conventional Transbronchial Needle Aspiration/Y.L. Shen, Y.H. Hsiao, Taipei, Taiwan, p.A6431**
- P630 Extranodal NK/T-Cell Lymphoma of the Trachea Causing Airway Compromise/S. Raju, S. Sethi, Cleveland, OH, p.A6432**
- P631 Inflammatory Myofibroblastic Tumor of the Bronchus: Bronchoscopic Treatment and Molecular Analysis/A.N. Iyer, T. Radonic, L. Heukamp, E. Thunnissen, H. Daniels, Amsterdam, Netherlands, p.A6433**
- P632 Endobronchial Valve (EBV) Use in Life Threatening Hemoptysis to Allow Safe Palliative Extubation/B. Patel, D. Abi-Fadel, J. Rosenheck, Z. Boujaoude, W. Abouzgheib, Camden, NJ, p.A6434**
- P633 The Expanding Applications of EUS/EBUS/E. Ho, S. Tonthat, P. Hegde, Fresno, CA, p.A6435**
- P634 Long-Term Management of HHT-Related PAVM: Lessons Learned on the Need for More HHT Centres of Excellence/F. Chowdhury, R.J. Owen, O. Halliwell, D.P. Vethanayagam, Edmonton, Canada, p.A6436**
- Facilitator:** A.D. Lerner, MD, Baltimore, MD
- P635 Severe Mediastinal Abscess After Endobronchial Ultrasound with Transbronchial Needle Aspiration/J. Dai, Nijjing, China, p.A6437**
- P636 Unusual Navigation Bronchoscopy Pathway of an Accessory Right Upper Lobe Bronchus/A.H. Alraiyes, M. Elrifai, W.S. Jaber, North Chicago, IL, p.A6438**
- P637 Cast Away: A Case of Lymphatic Plastic Bronchitis with Chyloptysis Utilizing Advanced Lymphatic Imaging/M.S. Norton, F. Nichols, J. Andrews, R. Kern, D. Kelm, Rochester, MN, p.A6439**
- P638 Not All Wheezes Are the Same: A Rare Presentation of Pulmonary Benign Metastasizing Leiomyoma/M. Darnell, E. Jiang, L.M. Catalano, Philadelphia, PA, p.A6440**
- P639 Tracheobronchopathia Osteochondroplastica: Is Further Education in an Atypical Presentation/S.J. Patel, L.V. Varley, M. Gautam, Liverpool, United Kingdom, p.A6441**
- P640 Use of Endotracheal Stent for Hemostasis of a Bleeding Glomus Tumor/G. Samuel, A. Chrissian, J. Diaz-Mendoza, Detroit, MI, p.A6442**
- P641 Endobronchial Liposuction: Excision of Endobronchial Lipoma in Patient with Pulmonary Hamartoma/M.E. Schimmel, K. Van Nostrand, Atlanta, GA, p.A6443**
- P642 Minimally Invasive Precision Lung Biopsies: Cryobiopsy Coupled with Electromagnetic Navigational Bronchoscopy/J.M. Wilson, K.N. Cao, Tampa, FL, p.A6444**
- P643 Treatment of Persistent Bronchopleural Fistula with Manually Modified Endobronchial Stent and Amplatzer Device/A. de Lima, Y.B. Gesthalter, M. Barry, J.L. Wilson, M.S. Kent, A. Majid, V.K. Holden, A.C. Chee, Boston, MA, p.A6445**
- P644 Extensive Submassive Pulmonary Embolism Treated with Catheter Directed Thrombolysis with Dramatic Clinical and Angiographic Improvement/M. Albahhar, N. Ohene-Baah, S. Patel, H.-A. Vo, Augusta, GA, p.A6446**
- P645 Endobronchial Lesions: A Case of Pyogenic Granulomas with Sarcoidosis Treated with Argon Plasma Coagulation/M. Reichmuth, A. Patel, G. Pierson, J. Gordon, Pueblo, CO, p.A6447**
- P646 Unrelenting Tracheobronchial Stenosis in Relapsing Polychondritis/S. Murney, C. Radchenko, R.W. Shepherd, Richmond, VA, p.A6448**
- Facilitator:** K. Klooster, RN, Groningen, Netherlands
- P647 Leaving No Airway Stent Behind: A Unique Method/R.J. Cho, F.D. Zamora, H. Gibson, E. Dincer, Edina, MN, p.A6449**

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- P648 Not Your Ordinary Sore Throat: A Rare Case of Extranodal Lymphoma**/J. Lyou, T.T. Cheng, N. Wahid, J. Longoria, M. Davoudi, Orange, CA, p.A6450
- P649 Fatal Case of Mucous Impaction with Transtracheal Oxygen Therapy**/K. Gaurav, A.P. Maskey, S. Pandey, R.R. Joshi, Lexington, KY, p.A6451
- P650 Acute Bacterial Pericarditis: A Rare Complication of Transbronchial Biopsy**/J. Rathod, V.R. Patel, Milwaukee, WI, p.A6452
- P651 Bronchial Aspergillosis After Bronchial Thermoplasty: A Case Report**/H. Tashimo, K. Miyakawa, N. Ohshima, M. Ohgiya, O. Narumoto, H. Nagai, H. Matsui, A. Hebisawa, K. Ohta, Kiyose, Tokyo, Japan, p.A6453
- P652 Tracheal-Spinal Fistula, a Late Complication of Tracheostomy**/D. Jun, J. Jun, J. Martires, N. Barot, Los Angeles, CA, p.A6454
- P653 Carcinoma Ex Pleomorphic Adenoma of the Airway and Parenchyma**/J. Reisenauer, N. Azadeh, R. Pillappa, E.S. Edell, Rochester, MN, p.A6455
- Facilitator:** A.Z. Jiwani, MD, MSc, Houston, TX
- P654 A Novel Method for Diagnosis of Mesothelioma**/A. Ramaswamy, J. Puchalski, New Haven, CT, p.A6456
- P655 Use of a Silicone Endobronchial Spigot for Massive Refractory Hemoptysis**/T. Leclair, V.K. Holden, M.S. Parikh, A. Majid, A.C. Chee, Boston, MA, p.A6457
- P656 Endobronchial Ultrasound Guided Transbronchial Needle Aspiration in Histoplasmosis Diagnosis**/T. Vandemoortele, G. Courteau Godmaire, Montreal, Canada, p.A6458
- P657 Foreign Body Aspiration: Elemental Magnesium**/B. Forbes, U. Nazir, F.R. Quijano, Kansas City, KS, p.A6459
- P658 A Surprising Cause of Pulmonary Nodules**/M. Oron, B. Husta, New York, NY, p.A6460
- P659 Cerebral Air Embolism as a Cause of Acute Stroke Following Argon Plasma Coagulation as Treatment for Bronchial Webs**/D.K. Mathew, C. Sriaroon, Tampa, FL, p.A6461
- P660 The Role of Intra Bronchial Valve in a Case of Pneumothorax with Persistent Air Leak In Spite of Video-Assisted Thoroscopic Surgery**/H. Oo, K. Patel, Englewood, NJ, p.A6462
- P661 Treated Bronchoscopy with Cryotherapy in Patient with Broncholithiasis - Case Report**/L.V. dos Reis, L.P. Bruno, R.E.B. Salles, T.T. Mafort, D.M. Ferraz, Rio de Janeiro, Brazil, p.A6463
- P662 Use of Electromagnetic Navigational Bronchoscopy in a Pregnant Woman with Multiple Pulmonary Nodules**/R.P. Ramonell, C. Grodzin, K. Van Nostrand, Atlanta, GA, p.A6464
- P663 Bronchoscopic Removal of Broncholiths**/K. Alshabani, M. Smith, T.R. Gildea, Cleveland, OH, p.A6465
- P664 A Stent in the Vein for a Man's Pain - a Case of Pulmonary Venous Stenosis Cured by a 4mm Stent**/N. Jayakumar, M. Patel, J. Thomas, Rancho Mirage, CA, p.A6466

- P665 Navigational Bronchoscopy with Airo CT Confirmation - Biopsy of a Cystic Lesion**/G.Z. Cheng, E. Kessler, C.X. Giovacchini, K. Mahmood, S.L. Shofer, M.M. Wahidi, Durham, NC, p.A6467
- P666 Endobronchial Blockade for Lung Isolation in the Setting of Unilateral Necrotizing Pneumonia as a Bridge to Pneumonectomy**/C.J. Ellison, B. Morris, P.P. Miller, V. Vachharajani, R. Jain, D. LoVerde, Winston-Salem, NC, p.A6468
- P667 "That Was Amazing!" - Use of Virtual Reality Distraction as Adjunct for Bronchoscopy**/D. Golovyan, B.A. Khan, M.O. Farber, Indianapolis, IN, p.A6469
- P668 The Case of the Slippery Stent: A Case Report Describing Multiple Stent Migrations**/P. Sankhyani, A. Mahajan, T. Bhandari, K.P.L. Nguyen, C.T. Cook, Johnson City, TN, p.A6470

THEMATIC POSTER SESSION

D32 ILD: CASE REPORTS II

9:15 a.m. - 3:30 p.m.

SAN DIEGO CONVENTION CENTER

Area H (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: A. Kumar, MD, Grand Rapids, MI

- P849 Hypersensitivity Pneumonitis: Hypoxemia with Normal Chest Imaging**/M. Naddour, D. Venkat, P. Kim, M. Balaan, Pittsburgh, PA, p.A6471
- P850 Hemoptysis: An Unusual Presentation of Desquamative Interstitial Pneumonia**/L.B. Tlhabano, M. Moizuddin, C.C. Odigwe, C.R. Sanders, P.L. Loper, Columbia, SC, p.A6472
- P851 A Complex Case of Interstitial Lung Disease Related to Nontuberculous Mycobacteria and Hot Tub Exposure**/I. Nakayama, J.E. Fishman, M.K. Glassberg Csete, Miami, FL, p.A6473
- P852 Asthma Masquerader Uncovered by Bronchoscopic Transbronchial Cryobiopsy**/O. Kalchiem-Dekel, L. Parker, A.B. Sagar, J.R. Galvin, N.W. Todd, E.M. Pickering, A. Sachdeva, Baltimore, MD, p.A6474
- P853 A Case of Rapidly Progressive Interstitial Pneumonia in Association with Amyopathic Dermatomyositis with Elevated Titers of Anti-MDA-5 Antibody, Successfully Treated with Rituximab in Addition to Standard Immunosuppressive Therapy**/T. Nishizawa, G. Kida, Y. Tsukahara, K. Emoto, E. Tsumiyama, S. Kriiwa, T. Oba, R. Kawabe, S. Sato, K. Akasaka, H. Ishii, M. Amano, H. Matsushima, Saitama, Japan, p.A6475
- P854 Rare Cause of Secondary Pulmonary Alveolar Proteinosis**/S. Hemvimon, S. Supawita, P. Sriwichian, A. Sakulchan, Saraburi, Thailand, p.A6476
- P855 A Case of Neurologic and Parotid Sarcoidosis After Treatment with Tumor Necrosis Factor Alpha (TNF- α) Inhibitor Infliximab**/L. Bajpayee, J.S. Berman, P. Govender, F.J. Hawkins, Boston, MA, p.A6477

- P856** **EBUS Identification of Vasculitis Masquerading as a Pet-Positive Mediastinal Mass/C.** Volk, R.J. Miller, San Diego, CA, p.A6478
- P857** **Incomplete Heerfordt's Syndrome as an Initial Presentation of Sarcoidosis/M.** Hafiz, A. El-Bakush, O.N. Obi, Greenville, NC, p.A6479
- P858** **Sarcoidosis: When Neurologic Complaints Equal Systemic Disease/J.** Lester, H. Dyal, C. Nepal, M. Disselkamp, Lexington, KY, p.A6480
- P859** **Pulmonologist Insight on Renal Sarcoidosis: Report of Two Cases/M.I.** Shafi, S.D. Williams, I. Waseem, Cleveland, OH, p.A6481
- P860** **Hypersensitivity Pneumonitis with Elevated IgE: A Novel Subtype?/V.** Patel, W. Khan, New Brunswick, NJ, p.A6482
- P861** **Thoracic Manifestations of Neurofibromatosis-1 Disease/V.** Terla, M. Dongol, H. Rataul, E.O. Ortiz-Diaz, L.E. Carrasco, K. Wong Lama, New York, NY, p.A6483
- P862** **Synthesising the Correct Diagnosis in the Work-Up of Interstitial Lung Disease: Myositis Panel May Be Key/S.** Walsh, A.W. O'Regan, Galway, Ireland, p.A6484
- P863** **Relapsing Pulmonary Alveolar Proteinosis Treated with GM-CSF/E.** Alkhankan, H. Alkhankan, H.S. Bukamur, A. Amro, M.A. Megri, F. Alkhankan, F.M. Zeid, Huntington, WV, p.A6485
- P864** **Rare Case of Severe Cryptogenic Organizing Pneumonia Resistant to Steroids Plus Azathioprine/H.S.** Bukamur, H. Mezughi, Y. Shweihat, Huntington, WV, p.A6486
- P865** **Sarcoidosis Mimicking Metastatic Lung Cancer/A.** Bansal, L. Kallur, A. Alazzeah, A. Patel, C.T. Ebeo, Johnson City, TN, p.A6487
- P866** **Management of Spontaneous Pneumomediastinum in Dermatomyositis with Cyclosporine/S.** Hapangama, E. Perez, A. Adial, N. Ahmed, Y. Fuzailov, R. Gumpeni, Flushing, NY, p.A6488
- P867** **HIV False Positivity Due to Sarcoidosis/J.** Lio, G. Barmaimon, P.S. Patrawalla, New York, NY, p.A6489
- P868** **Cavitary Sarcoidosis Complicated by Invasive Pulmonary Aspergillosis/M.** Bikak, A. Noor, Indianapolis, IN, p.A6490
- P869** **Light-Chain Deposition Disease: A Rare Cause of Cystic Lung Disease/S.** Cullivan, K.F. Deasy, N. Mayer, M.R. Cahill, M.P. Kennedy, Cork, Ireland, p.A6491
- P870** **Heerfordts Syndrome and Hypercalcemia as the Presenting Features of Sarcoidosis/D.** Lane, I. Wong, L. Gross, Brooklyn, NY, p.A6492
- P871** **Disseminated Skeletal Sarcoidosis Mimicking Malignant Metastasis/A.** Jacob, K. Granet, C. Patton, Long Branch, NJ, p.A6493
- P872** **A Case of Pancreatic and Splenic Involvement as the Main Presentation of Sarcoidosis/H.S.** Pinto Souza, F. Marques da Costa, L. Paez Vargas, L. Kawano Dourado, B.G. Baldi, R.A. Kairalla, Sao Paulo, Brazil, p.A6494
- Facilitator:** E.D. Ferrand, MD, San Francisco, CA
- P873** **A Rare Case of Cocaine User with Sporadic Lymphangioliomyomatosis/R.S.** Patti, A.K. Rai, N. Aggarwal, P. Chandar, J.P. Shaw, W. Pascal, K. Chawla, Brooklyn, NY, p.A6495
- P874** **A Lung Cyst in a Sea of Histiocytes: Systemic Langerhans Cell Histiocytosis Diagnosed Via EBUS/A.M.** Andruska, M. Shafiq, R. Ohgami, H.H. Guo, A.W. Sung, Stanford, CA, p.A6496
- P875** **An Atypical Case of Eosinophilic Radiation Pneumonitis/A.** Bommakanti, R. Masroujeh, R. El Ghouli, Cleveland, OH, p.A6497
- P876** **Paradoxical Development of Panuveitis and Granulomatous Interstitial Lung Disease Associated with Adalimumab Therapy for Psoriasis/H.** Sajjad, I. Han, J.S. Wilson, Iowa City, IA, p.A6498
- P877** **Lung Infiltrates in a Patient with MALT Lymphoma: Organizing Pneumonia (OP) Versus Malignancy/A.** Gautam, C. Mosebach, P. Grover, Farmington, CT, p.A6499
- P878** **Recurrent Metastatic Disease, or Something More Sarcoid?/C.V.** Edelson, J. Woods, J.C. Edelson, A. Brown, M.J. Morris, San Antonio, TX, p.A6500
- P879** **A Pulmonary Puzzle: Granulomatous Lung Disease and Organizing Pneumonia In a Patient with HIV/A.** Poor, S. Dua, New York, NY, p.A6501
- P880** **Symptomatic Gastric Sarcoidosis: A Rare Entity/B.** Bhattarai, J. Lamichhane, O. Abdulfattah, P.B. Datar, A. Lixon, S. Dahal, D. Enriquez, M.F. Schmidt, J.B. Quist, Brooklyn, NY, p.A6502
- P881** **Relapsing Remitting Isolated Pulmonary Anti Glomerular Basement Membrane Disease/M.** Rudrappa, L. Kokatur, Shreveport, LA, p.A6503
- P882** **Focal Organizing Pneumonia in a Severe Hemophiliac: A Diagnostic Dilemma/J.** Lau, Rochester, MN, p.A6504
- P883** **An Unusual Presentation of Pulmonary Sarcoidosis: Early Cystic Lung Disease/J.** Chan, K. Gyure, S. Hadique, Morgantown, WV, p.A6505
- P884** **Interstitial Lung Disease as an Extrahepatic Manifestation of Autoimmune Hepatitis/A.D.** Hyslop, N. Gupta, K.A. Wikenheiser-Brokamp, Cincinnati, OH, p.A6506
- P885** **Lymphangioliomyomatosis (LAM) of the Uterus: Risk of Pulmonary LAM?/K.B.** Ascher, M.K. Glassberg Csete, Miami, FL, p.A6507
- P886** **Obliterative Bronchiolitis: A Rare Complication of Aspiration Pneumonitis/C.** Choong, K.M. Eu, A. Lim, J.A. Abisheganaden, G.T. Chai, Singapore, Singapore, p.A6508
- P887** **A Fatal Case of Anti-MDA5 Antibody Positive Clinically Amyopathic Dermatomyositis (CADM) Associated with Rapidly Progressive Interstitial Lung Disease/A.** Mohammed, C. Torres, M. AlNabulsi, S.B. Smith, Chicago, IL, p.A6509
- P888** **An Unusual Cause of Pulmonary Fibrosis/I.** Johnson, L.M. Logue, R. Miarrostami, Brooklyn, NY, p.A6510
- P889** **Cryptococcus Neoformans Found in the Lymph Node of a Patient with Sarcoidosis Not on Immunosuppressive Therapy: A Unique Case/M.** Reddy, R. Nayak, St. Louis, MO, p.A6511

- P890 Follicular Bronchiolitis Mimicking Mycobacterial Infection: Case Report/M.D.S. Pessi, M. Rodrigues de Oliveira, R.B. Filho, A.F. Amaral, F.E. Arimura, R. Sales, E. Nascimento, B.G. Baldi, R.A. Kairalla, Sao Paulo, Brazil, p.A6512**
- P891 Follicular Bronchiolitis Associated with Behcet's Disease/M.F. Siddiqi, R.P. Bomar, D. Steiger, New York, NY, p.A6513**
- P892 Necrotizing Sarcoid Granulomatosis Presenting as a Left Breast Mass Concerning for Malignancy/N. Crowley, L.C. Moses, Richmond, VA, p.A6514**
- P893 Pulmonary Amyloidosis - A Deadly Disease/P. Sen, B. Chang, Albuquerque, NM, p.A6515**
- P894 Lipoid Pneumonia Presenting as Multiple Pulmonary Masses/A. Krvavac, S. Patolia, St. Louis, MO, p.A6516**
- P895 A Case of Rheumatoid Arthritis Complicated by Sarcoidosis and Necrotizing Granulomatous Infection/A.A. Greco, K. Gershner, D.J. Addrizzo-Harris, New York, NY, p.A6517**
- P896 An Atypical Presentation of Pulmonary Sarcoidosis/A. Prince, N.K. Meena, U. Kaphle, Little Rock, AR, p.A6518**

THEMATIC POSTER SESSION

D33 ILD: CASE REPORTS III

9:15 a.m. - 3:30 p.m.

SAN DIEGO CONVENTION CENTER

Area H (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: J. Sellares Torres, MD, PhD, Barcelona, Spain

- P900 DIPNECH: A Lung Lined by Tumor/H. Tavakoli, J. Patel, M. Bhargava, Oakland, CA, p.A6519**
- P901 Pulmonary Lymphangiomyomatosis: A Prime of Life Misfortune/C. Orabi, V. Patel, A. Madanieh, E. Geigel, Orlando, FL, p.A6520**
- P902 Rounding Out the "Hole" Differential for Cystic Lung Disease/A. Haywood, B. Stephens, S.G. Adams, J.I. Peters, San Antonio, TX, p.A6521**
- P903 Early Diagnosis and Treatment of Acute Interstitial Pneumonia/N. Lin, J.A. Hippensteel, C. Cool, W.J. Janssen, Aurora, CO, p.A6522**
- P904 Cystic Lung Disease Mimicking Lung Fibrosis/M. Shahzadi, A. Mogla, A.Z. Rasheed, F. Arjomand, V.P. Vasudevan, Brooklyn, NY, p.A6523**
- P905 Hypopigmented Cutaneous Sarcoidosis/N. Sayedy, E. Matayeva, D. Patel, A. Alaverdian, E. Harris, J. Akella, East Meadow, NY, p.A6524**
- P906 History Is an Art: Birds Can Be Responsible for Chronic Cough/M. Shahzadi, M.K.M. Dang, A. Mogla, A.Z. Rasheed, L.N. Gerolemou, Brooklyn, NY, p.A6525**
- P907 Pulmonary Alveolar Proteinosis: A Rare Disease, First-Line Treatment Resulting in a Near-Fatal Complication/T. Onger, S. Velani, J. Kazakov, Cleveland, OH, p.A6526**
- P908 Pulmonary Renal Syndrome: Diffuse Alveolar Hemorrhage in Association with ANCA Negative Pauci-Immune Glomerulonephritis/L.N. Saladi, D. Shaikh, M. Saad, E. Cancio-Rodriguez, M. Adrish, Bronx, NY, p.A6527**
- P909 Recurrent Sarcoidosis Resembling Splenic Malignancy/H. Alkhankan, E. Alkhankan, H. Mezughi, M.A. Megri, H.S. Bukamur, A. Amro, F. Alkhankan, F.M. Zeid, St. Louis, MO, p.A6528**
- P910 Presentation of MPO-ANCA Positive Microscopic Polyangiitis with Usual Interstitial Pneumonia/A. Bryan, A.K. Uduman, S. Gezahegne, K. Thavarajah, Detroit, MI, p.A6529**
- P911 Fibrosing Mediastinitis Due to Histoplasma: A Rare but Potentially Treatable Entity/A. Yankovich, C. Schuring, A. Sodhi, Memphis, TN, p.A6530**
- P912 Hidden Diagnosis of Collagen Vascular Disease/M. Shahzadi, M.K.M. Dang, A.Z. Rasheed, L.N. Gerolemou, Brooklyn, NY, p.A6531**
- P913 Dizziness as the Initial Presentation of Sarcoidosis/R.D.R. Palagiri, A. Jillella, F. Habash, H. Paydak, Little Rock, AR, p.A6532**
- P914 Association Between Sjogren Syndrome, Primary Biliary Cirrhosis and Interstitial Lung Disease/A. Das, A. Faisal, A. Kumar, Grand Rapids, MI, p.A6533**
- P915 Lymphangiomas/M. Abdelkader, M. Jamal, L.G. Jean, York, PA, p.A6534**
- P916 Sarcoidosis a Radiographic Chameleon/V. Garvia, M. Rives, A. Niroula, P. Putthapiban, A. Mora, J. Stempel, J. Sta Cruz, Philadelphia, PA, p.A6535**
- P917 Sarcoidosis Presenting as Dacryoadenitis/V. Pathak, J. Wininger, Raleigh, NC, p.A6536**
- P918 Approach to Progressive Mixed Obstructive and Restrictive Lung Disease with Persistent Mosaicism on Computed Tomography in an Asymptomatic Young Female/V. Kaul, R. Mocerino, T.M. McGarry, Elmhurst, NY, p.A6537**
- P919 Cystic Lung Disease Due to Primary Light Chain Deposition/A.T. Fabro, L.F. Biazim, F.M. Lima, V. Carvalho, J. Castelli, P.D.S. Leao, S.S. Batah, M.K. Santos, J. Baddini-Martinez, Ribeirao Preto, Brazil, p.A6538**
- P920 A Case of Sarcoidosis Imitating Lymphoma/G. Dellinger, E. Crowley, A. Noor, Indianapolis, IN, p.A6539**
- P921 Symptomatic Sarcoidosis, Asthma or Both? A Diagnostic and Management Dilemma/A. Khawaja, R.M. Kotloff, Cleveland, OH, p.A6540**

Facilitator: A.O. Adegunsoye, MD, Chicago, IL

- P922 Antisynthetase Syndrome Interstitial Lung Disease Acute Exacerbation Due to Bacterial Infection: Case Report/H.S. Pinto Souza, G.L.M.D. Assunção, J.R. Bandeira de Oliveira Filho, L. Paez Vargas, F.M. da Costa, M. Rodrigues de Oliveira, F.E. Arimura, A.F. Amaral, B.G. Baldi, R.A. Kairalla, Sao Paulo, Brazil, p.A6541**
- P923 Interstitial Lung Disease in a Patient with Quiescent Ulcerative Colitis/K.P. Chen, D. Kahn, Danbury, CT, p.A6542**

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- P924** **Pneumothorax in a Woman with Tuberous Sclerosis - the Trigger to Diagnosis of Lymphangiomyomatosis**/J. Barata, M. Batista, R. Silva, E. Magalhaes, I. Vicente, J. Valente, S. Valente, Covilha, Portugal, p.A6543
- P925** **Fatal Acute on Chronic Respiratory Failure Due to Cryptogenic Organizing Pneumonia in the Setting of Systemic Lupus Erythematosus**/P. Sankhyan, A. Mahajan, M.F. Khalid, S. Bhogal, G. Falasca, Johnson City, TN, p.A6544
- P926** **Familial Pleuroparenchymal Fibroelastosis**/S. Ozkaya, A. Dirican, O.S. Bekdemir, C. Yuksel, S. Gun, F. Yildirim, D. Zorlu, Istanbul, Turkey, p.A6545
- P927** **Arthralgias: An Atypical Presentation of Sarcoidosis**/M. Korotun, Z. Hasan, K. Singh, New Hyde Park, NY, p.A6546
- P928** **'Tree-in-Bud' Pattern: An Atypical Finding of Sarcoidosis**/J. Shah, D. Kogan, Milwaukee, WI, p.A6547
- P929** **A Rare Presentation of Pulmonary Sarcoidosis**/R. Surendran, New Brunswick, NJ, p.A6548
- P930** **Melanoma Induced Systemic Sarcoidosis: A Case Report**/R. Rico, Y. Perez, O. Salamo, M. Mirsaedi, Miami, FL, p.A6549
- P931** **When Uncontrolled Asthma Isn't Uncontrolled Asthma**/R. Westman, Columbus, OH, p.A6550
- P932** **An Unusual Presentation of Chronic Eosinophilic Pneumonia**/S. Jeong, K.V. Shenoy, Philadelphia, PA, p.A6551
- P933** **Lymphocytic Interstitial Pneumonitis with Lung-Localised MALT Lymphoma Presenting as Infiltrates on Chest X-Ray in an Asymptomatic Patient**/D.C. Watchorn, M. O'Callaghan, A. Fabre, E.F. McKone, Dublin, Ireland, p.A6552
- P934** **A Case of Vanishing Cavities**/L. Khorsheed, Dublin, Ireland, p.A6553
- P935** **An Unusual Cause of Interstitial Lung Disease in the Setting of Active Tuberculosis**/C. Wong, S. Sahni, A. Adial, M.A. Cheema, A. Hines, A. Iftikhar, Harlem, NY, p.A6554
- P936** **A Single Patient with Pulmonary Langerhan's Cell Histiocytosis Followed by Respiratory Bronchiolitis Interstitial Lung Disease**/P.A. Donohue, C. Quill, Rochester, NY, p.A6555
- P937** **Interferon Beta Induced Sarcoidosis**/D. Becnel, S. Hadigal, D.C. Patel, Gainesville, FL, p.A6556
- P938** **A Left Parotid Mass: The Missing Clue for the Diagnosis of a Systemic Illness**/J.A. Marin-Acevedo, C. Sanchez-Alvarez, D. Padmanabhan Menon, R.M. Chirila, Jacksonville, FL, p.A6557
- P939** **Cryptogenic Organizing Pneumonia After Allogeneic Hematopoietic Stem Cell Transplant, Difficult to Diagnose, Easy to Treat**/M. Anwar, A. Thandra, J.D. Parekh, G. Timothy, N. Yadav, A. Osman, Omaha, NE, p.A6558
- P940** **A Common Presentation of a Rare Disease: Pulmonary Langerhans Cell Histiocytosis**/T. Khan, J. Mikhail, X. Sun, R. Bajwa, S. Mansur, Neptune, NJ, p.A6559
- P941** **Myositis Associated ILD in a Patient with Autoantibody to PMScl**/J. Pugashetti, J. Oldham, Sacramento, CA, p.A6560
- P942** **ANCA-Associated Vasculitis in the Setting of Hypertensive Crisis and Renal Failure**/A. Kubbara, D. Sachdev, A. Ali, Y. Yoon, Toledo, OH, p.A6561

P943 **Pulmonary Langerhans Cell Histiocytosis(PLCH): A Rare Cause of Chronic Cough**/S. Pilli, P. Vijhani, R.M. Estrada-Y-Martin, S.V. Cherian, Houston, TX, p.A6562

P944 **A Patient with Familial Idiopathic Pulmonary Fibrosis Presenting with Diffuse Alveolar Hemorrhage**/C. Bardita, J.A. De Andrade, Birmingham, AL, p.A6563

THEMATIC POSTER SESSION

D34 LUNG TRANSPLANT AND DRUG INDUCED LUNG DISEASE: CASE REPORTS

9:15 a.m. - 3:30 p.m.

SAN DIEGO CONVENTION CENTER

Area J (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: D. Corwin, MD, Baltimore, MD

- P1009** **When a Donor Loses Control: A Rare Case of Post-Transplant Lymphoproliferative Disorder**/C.L. Shappley, Z. Ghandour, New Orleans, LA, p.A6564
- P1010** **Primary Pulmonary Calciphylaxis Found Six-Months After Simultaneous Liver-Kidney Transplantation**/J.J. Lee, J. Murthy, Houston, TX, p.A6565
- P1011** **Single Lung Transplant: Don't Forget the Native Lung**/B.A. Jalil, M. Howsare, A.M. Ramirez, D.R. Nunley, Louisville, KY, p.A6566
- P1012** **Aortic Stenosis in Lung Transplant: A Pulmonologist's Dilemma**/B. Buddhdev, K.L. Bailey, H.M. Strah, Omaha, NE, p.A6567
- P1013** **Restrictive Graft Syndrome/Pleuroparenchymal Fibroelastosis as a Manifestation of Chronic Lung Allograft Dysfunction (CLAD) in Lung Transplant: A Case Report**/L. Fernandez, G. Puerta, W. Martinez, F. Sanabria, M. Velasquez, C.S. Leib, Cali, Colombia, p.A6568
- P1014** **Tension Pneumothorax in a Heart Transplant Recipient**/M. Kwon, C.A. Keller, D. Erasmus, F. Alvarez, T. Narula, J.M. Mallea, Jacksonville, FL, p.A6569
- P1015** **Double Whammy - Constrictive Pericarditis and Solitary Plasmacytoma After Lung Transplantation**/F. Alvarez, M. Galarza-Jimenez, D. Erasmus, J.M. Mallea, C.A. Keller, T. Narula, P. Patel, Jacksonville, FL, p.A6570
- P1016** **Nintedanib Exposure Prior to Lung Transplantation as a Possible Risk Factor for Post-Operative Complications**/C. Rutherford, P. Ging, J. Kleinerova, J. Egan, Dublin, Ireland, p.A6571
- P1017** **Successful Use of Pirfenidone in a Case of Progressive Restrictive Allograft Dysfunction After Lung Transplantation**/J. Roddy, A.L. Anton, A.J. Zane, K. Shah, Milwaukee, WI, p.A6572

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- P1018 Acute Respiratory Failure: A Rare Presentation of a Well-Known Chronic Disease in Lung Transplantation/T.** Thaniyavarn, D.C. Neujahr, Durham, NC, p.A6573
- P1019 Regrets Over a Missed Opportunity to Have a Biological Child - One Couple's Journey After Lung Transplantation for Cystic Fibrosis/S.** Ladores, L.A. Bray, J. Brown, Birmingham, AL, p.A6574
- P1020 Case Studies on HPV Post Lung Transplant and Implication on Management/L.** Khorsheed, Dublin, Ireland, p.A6575
- P1021 A Rare Case of Cocaine-Induced Organizing Pneumonia/C.** Halasan, E. Nadler, P. Uy, C. Monterroso, Farmington, CT, p.A6576
- P1022 Pulmonary Toxicity Due to 5-Fluorouracil (5-FU) Manifested as Diffuse Alveolar Hemorrhage: Case Report/L.** Fernandez, A. Dominguez, W. Martinez, F. Sanabria, C.S. Leib, Cali, Colombia, p.A6577
- P1023 Alveolar Hemorrhage and Respiratory Failure Secondary to Apixaban/J.E.** Morales, B.P. Emerick, P.L. Griffin, J. Grill, Sun City, AZ, p.A6578
- P1024 Leflunomide Worsening or Improving Rheumatoid Nodules?/A.** Fadda, D. Singh, Phoenix, AZ, p.A6579
- P1025 Development of Granulomatosis with Polyangiitis During Systemic Retinoid Therapy, Case Report/G.** Assuncao, J.R. Bandeira, R. Mizutani, B.M. Piloto, A.F. Amaral, Sao Paulo, Brazil, p.A6580
- P1026 Diffuse Alveolar Hemorrhage Due to Excessive Anticoagulation/A.A.** Patel, A. Adial, V.R. Thakkar, S.R. Karbowitz, A. Iftikhar, Flushing, NY, p.A6581
- P1027 Rare Case of Rapidly Progressive Interstitial Lung Disease Following Adult Tetanus, Diphtheria, and Pertussis (TDAP) Vaccination/N.** Biru, O.A. Shlobin, S. Aryal, S.D. Nathan, L. Marinek, C.J. Woods, A.W. Brown, C. King, Washington, DC, p.A6582
- P1028 Daptomycin Induced Eosinophilic Pneumonitis: A Rare Entity/P.** Iyer, M.P. Muthiah, Memphis, TN, p.A6583
- P1029 Rituximab and Bendamustine Induced Diffuse Alveolar Damage/Z.** Esper, W. Mansour, B. Karam, M. Chalhoub, Staten Island, NY, p.A6584
- Facilitator:** M. Veltkamp, MD, PhD, Nieuwegein, Netherlands
- P1030 Diffuse Alveolar Hemorrhage Mimicking Pneumonia Secondary to Apixaban Administration/S.T.** Katta, L. Aljundi, W.A. Ventimiglia, Grosse Pointe Farms, MI, p.A6585
- P1031 Cocaine Induced Severe Resistant Pulmonary Hypertension/K.** Srour, M.S. Khan, Z. Khan, M. Banifadel, F. Khateeb, J. Hammersley, Toledo, OH, p.A6586
- P1032 Benzocaine Spray-Induced Methemoglobinemia/N.** Jiwa, U. Ibe, R. Beri, Waterbury, CT, p.A6587
- P1033 Every Dog Has Its Day: FIBOS Caused by Diacetyl Exposure from an Unusual Source/K.** Warrior, A.J. Gamino, Chicago, IL, p.A6588
- P1034 "Crack Lung": A Cause of Acute Hypoxic Respiratory Failure/A.A.** Patel, H. Singh, P. Gill, V.R. Thakkar, M. Cheema, A. Iftikhar, Flushing, NY, p.A6589
- P1035 A Double Whammy-When Pulmonary Toxin Join Forces/K.** Hersi, A.-I. SeyedAmirHosseini, A. Girdhar, Y. Sangwan, Salisbury, MD, p.A6590
- P1036 Acute Interstitial Pneumonitis with Crazy Paving Pattern After Chemotherapy for Colorectal Cancer/J.E.** Morales, B.P. Emerick, Sun City, AZ, p.A6591
- P1037 Successful Treatment of Diffuse Alveolar Hemorrhage and Hypoxemic Respiratory Failure Secondary to Warfarin Coagulopathy with BiPAP/B.** Warner, A. Taylor, C.J. Van Hook, Longmont, CO, p.A6592
- P1038 Rare Presentation of Thyroid Storm with Diffuse Alveolar Hemorrhage/G.** Malhotra, A. Khurana, L. Srinivasan, North Chicago, IL, p.A6593
- P1039 An Unexpected "Red Woman" with Oral Vancomycin/W.** Rodriguez, A. Cordero, D. Vazquez, O. Cantres-Fonseca, San Juan, PR, p.A6594
- P1040 Severe Methotrexate-Induced Pulmonary Toxicity/J.A.** Kileci, O. Charran, J. Filopei, New York, NY, p.A6595
- P1041 FOLFOX Induced Lung Injury/M.F.** Siddiqi, J. Filopei, S. Shah, R. Sulica, New York, NY, p.A6596
- P1042 Use of Venovenous Extracorporeal Membrane Oxygenation for Diffuse Alveolar Hemorrhage Due to Inhaled Synthetic Cannabinoids or "Spice"/M.** Patel, L.M. Tormoehlen, D. Gutteridge, Indianapolis, IN, p.A6597
- P1043 Carfilzomib-Related Severe Pneumonitis/D.** Desai, N. Keer, T. Geva, J. Dargin, K. Eissa, Burlington, MA, p.A6598
- P1044 Nivolumab Induced Multi-Organ Dysfunction: Pneumonitis, Cardiomyopathy and Hepatitis/T.R.** Chandak, G.A. Ciofoaia, M. Almahmoud, N. Mbaebie, S. Alarcon, J. Murati, Pittsfield, MA, p.A6599
- P1045 An Unusual Case of Unilateral Pulmonary Fibrosis Induced by Amiodarone Toxicity/A.** Madanieh, A. Rajasekaran, C. Orabi, F. Afridi, Orlando, FL, p.A6600
- P1046 TNF Alpha Antagonist Induced Sarcoidosis/J.** Katsis, L. Frye, R.S. Bermea, B. Kaumeyer, A. Husain, Chicago, IL, p.A6601
- P1047 Nivolumab-Induced Interstitial Lung Disease: A Case Report/A.M.** Abdul Hameed, S.A. Sheikh, A. Malik, S. Shikdar, N. Ghionni, A. Bhardwaj, A.R. Pillai, M.J. Korman, D.J. Valentino, III, Darby, PA, p.A6602
- P1048 A Case of Exogenous Lipoid Pneumonia Caused by Sesame Oil Pulling Successfully Treated with Whole Lung Lavage/K.** Akasaka, Y. Tsukahara, T. Nishizawa, T. Oba, M. Amano, H. Matsushima, Saitama, Japan, p.A6603

THEMATIC POSTER SESSION

D35 DRUG INDUCED LUNG DISEASE: CASE REPORTS

9:15 a.m. - 3:30 p.m.

SAN DIEGO CONVENTION CENTER

Area J (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: M. Bueso, MD, Wesley Chapel, FL

- P1052 Kratom; A Potential Cause of Acute Respiratory Distress Syndrome/H.A. Jaliawala, T. Abdo, P.V. Carlile, Oklahoma City, OK, p.A6604**
- P1053 Alveolar Hemorrhage in Acute Pneumonitis After Gluteus Adjuvant Injection/S. Rodriguez-Llamazares, E.F. Castro-Arellano, C. Castillo-Villatoro, L.J. Arroyo-Hernandez, H. Rodriguez Bautista, T.D.J. Aguirre Pérez, R. Del Razo-Rodríguez, Mexico City, Mexico, p.A6605**
- P1054 Nivolumab Induced Organizing Pneumonia During Treatment for Metastatic Melanoma/J. Salonia, S. Kurtz, K. Rose, New York, NY, p.A6606**
- P1055 Chemotherapy-Induced Pneumonitis in a Patient with Hodgkin's Lymphoma/M. Shahzadi, J. Chiu, A.Z. Rasheed, L.N. Gerolemou, Brooklyn, NY, p.A6607**
- P1056 Bicalutamide Induced Pneumonitis/B. Kim, J. Stoeber, J. Salonia, A.T. Abed, New York, NY, p.A6608**
- P1057 Immune-Mediated Pneumonitis Due to Nivolumab: Is It Worth Using?/R.M. Davis, P. Patel, O.I. Ikladios, Peoria, IL, p.A6609**
- P1058 An Unusual Case of Pulmonary Edema in a Pregnant Patient/R. Reddy, P. Shah, Gainesville, FL, p.A6610**
- P1059 Late-Onset Drug-Induced ILD in a Patient Taking Sirolimus for Over 15 Years/A. Poor, S. Dua, New York, NY, p.A6611**
- P1060 Nivolumab Induced Granulomatous Reaction/K. Pal, H.C. Malpass, M. Hanley, W.W. Grosh, Charlottesville, VA, p.A6612**
- P1061 It's Not All Heart Failure/J.D. Parekh, S.P. Kukrety, A. Munir, Y. Alshebani, R. Pritza, R. Plambeck, T. Bor, Omaha, NE, p.A6613**
- P1062 Eosinophilic Pneumonia Following Treatment with Nivolumab-Ipilimumab for Metastatic Melanoma/N.A. Wajda, E. Pina, Cincinnati, OH, p.A6614**
- P1063 Acute Fibrinous and Organizing Pneumonia (AFOP) Associated with Chemotherapy Drug Reaction: A Case Report/M. Cerezoli, M.R. Soares, R.C.C. Tibana, C.Y. Fukuda, C.A.D.C. Pereira, Sao Paulo, Brazil, p.A6615**
- P1064 Acute, Progressive, Interstitial Pneumonitis in the Setting of Sirolimus/M. Sheth, M.P. Schreiber, J. Stratton, Washington, DC, p.A6616**
- P1065 Dasatinib Related Pleural Effusions with Three Cases/A. Gurun Kaya, S. Erol, A. Ciledag, A. Kaya, Ankara, Turkey, p.A6617**
- P1066 Pegylated Liposomal Doxorubicin - Induced Lung Injury with Organizing Pneumonia Successfully Treated with Glucocorticoids/D.E. Amariei, O. Kalchiem-Dekel, N. Okonkwo, E.M. Pickering, A. Sachdeva, Baltimore, MD, p.A6618**
- P1067 It's Never Lupus: A Rare Case of Methimazole Induced Pleural Effusion/P. Sen, M.J. Dunn, Detroit, MI, p.A6619**
- P1068 Pleuroparenchymal Fibroelastosis (PPFE): A Rare Disease Entity, Secondary to Methotrexate?/C. Zhang, J.H. Rhee, Towson, MD, p.A6620**
- Facilitator:** C. Valenzuela, DrMed, Madrid, Spain
- P1069 Acute Amiodarone Lung Toxicity Immediately Following Cardiac Transplantation Surgery/A. Martin, A. Valvani, I.R. Kugasia, M.B. Beasley, O. Epelbaum, Valhalla, NY, p.A6621**
- P1070 Afatinib-Induced Fatal Interstitial Lung Disease: A Case Report/Y. Dong, H. Lin, Y. Gao, H. Qin, X. Shan, Shanghai, China, p.A6622**
- P1071 Amoxicillin Induced Steven-Johnson Syndrome and Bronchiolitis Obliterans/C. Farrell, D.S. O'Callaghan, Dublin, Ireland, p.A6623**
- P1072 Tyrosine Kinase Inhibitor Induced Lung Injury Masking Accelerated Repopulation of Metastatic Non-Small Cell Lung Cancer/V. Reddy, T. Hossain, J. Munger, S. Parnia, New York, NY, p.A6624**
- P1073 Friend or Foe: Hidden Dangers of Nivolumab Immunotherapy/O. Morim, S.J. Koenig, New Hyde Park, NY, p.A6625**
- P1074 Mesalamine-Induced Eosinophilic Pneumonia in a Patient with Ulcerative Colitis/Y. Park, S. Kim, Daejeon, Korea, Republic of, p.A6626**
- P1075 Eosinophilic Pleural Effusion: Amoxicillin-Clavulanate Deemed Culprit/H.A. Jaliawala, V.H. Kha, D.R. McCaffree, Oklahoma City, OK, p.A6627**
- P1076 A Case of Pulmonary Fibrosis Secondary to Oxaliplatin: From Rarity to Reality/A.C. Alves Moreira, R. Gomes, J.H. Soares, J. Roldao Vieira, Almada, Lisboa, Portugal, p.A6628**
- P1077 Everolimus Induced Lung Disease: A Case Report/A. Ciledag, D. Dogan Mulazimoglu, S. Erol, F. Ciftci, A. Kaya, G. Celik, G. Utkan, O.O. Kumbasar, Ankara, Turkey, p.A6629**
- P1078 A Clinical Case of Eosinophilic Pneumonia Associated with Polysubstance Use/N. Jiwa, T. Munawar, J. Devlin, D. Roer, Waterbury, CT, p.A6630**
- P1079 The Case of Mysterious Hypoxemia: Rasburicase-Induced Methemoglobinemia/S. Ahmed, B. Perler, D. Gutman, A. Foderaro, Providence, RI, p.A6631**
- P1080 You Take My Breath Away: Unusual Relation Between Bladder and Lungs/S. Narsingam, H. Grewal, M. Matsuoka, Lebanon, NH, p.A6632**
- P1081 Prasugrel an Alternative to Clopidogrel; In Patients with Diffuse Alveolar Hemorrhage and Coronary Artery Disease/A. Goldstein, S. Siddiqui, T. Vo, Amarillo, TX, p.A6633**

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- P1082 A Case of Dapsone Induced Eosinophilic Pneumonia/H.K. Kim, N.R. Jeong, J.H. Park, H.J. Jang, Busan, Korea, Republic of, p.A6634**
- P1083 Blown by Blow: An Usual Etiology of Pneumomediastinum/O. Ishikawa, H. Jen, New York, NY, p.A6635**
- P1084 A Case of Acute Hypersensitivity Pneumonitis Due to Cannabis Dabbing/L.S. Richman, J. Whitaker, W.V. Kinnard, Lafayette, CO, p.A6636**
- P1085 Albuterol-Induced Lactic Acidosis, a Diagnosis Not to Be Overlooked/A. Madanieh, C. Orabi, I. Acosta-Sanchez, F. Afridi, Orlando, FL, p.A6637**

Facilitator: T. Kulkarni, MD, MPH, Birmingham, AL

- P1086 Acute Hypoxic Respiratory Failure and Diffuse Alveolar Hemorrhage Due to Intramuscular Injection of an Oil-Based Cosmetic Substance/C.N. Parkhurst, D.C. Weir, K. Rajwani, N. Narula, New York, NY, p.A6638**
- P1087 A Fatal Case of Radiation Pneumonitis/B.-C. Tran, D. Amariei, N. Todd, Baltimore, MD, p.A6639**
- P1088 Non-Resolving Pneumonia. A Case of Azacitidine-Induced ILD/A.P. Noriega Aldave, T. Pelleg, A.L. Loschner, Roanoke, VA, p.A6640**
- P1089 Every Organophosphate Has Its Thorn: A Case of Acephate Poisoning/A.A. Jiang, O. Bui, P. Desai, M. Self, T.A. Morris, San Diego, CA, p.A6641**
- P1090 Dyspnea While on Daptomycin/M. Abdelkader, V. Singh, York, PA, p.A6642**
- P1091 Eosinophilic Interstitial Pneumonia Due to Naproxen/Z.M. Harris, D.E. Antin-Ozerkis, New Haven, CT, p.A6643**
- P1092 Amiodarone and Fluconazole: A Deadly Combination/A.K. Rai, P. Soni, W. Pascal, N. Aggarwal, Brooklyn, NY, p.A6644**
- P1093 Apixaban, an Infrequent Cause of Diffuse Alveolar Hemorrhage/J. Cantu-Clatza, T. Abdo, H.A. Jaliawala, K.R. Jones, Oklahoma City, OK, p.A6645**
- P1094 Organizing Pneumonia Due to Sirolimus/A.S. Shah, M.R. Balaan, N. Khaton, R. Agarwal, N. Bhanot, Pittsburgh, PA, p.A6646**
- P1095 The Culprit Midostaurin in a Case of Drug-Induced Pneumonitis/B. Lee, C.D. Onofrei, F. Sheski, Indianapolis, IN, p.A6647**
- P1096 Fibrotic Hypersensitivity Pneumonitis Induced by Oxaliplatin: A Unexpected but Serious Side Effect in Treating Colorectal Cancer/C.-Y. Chen, C.-H. Chen, W.-C. Liao, S.-J. Liang, C.-Y. Tu, Taichung, Taiwan, p.A6648**
- P1097 First Impressions Matter: Diffuse Alveolar Hemorrhage After One Dose of Gemcitabine/T. Tran, N. Adra, F. Sheski, Indianapolis, IN, p.A6649**
- P1098 Nonspecific Interstitial Pneumonia: A Rare Adverse Reaction of Atorvastatin/J. Xu, S. Verga, J. Stoll, W. Khan, New Brunswick, NJ, p.A6650**

- P1099 Lipoid Pneumonia, an Unexpected Diagnosis in a Healthy Middle-Aged Patient/C. Hecht, S.K. Komanapalli, Muncie, IN, p.A6651**
- P1100 Bortezomib Induced Organizing Pneumonia in a Patient with Underlying Interstitial Lung Disease: The (Im)Perfect Setup/O. Sinokrot, C.L. Liu, R. Condos, New York, NY, p.A6652**
- P1101 Recurrent Pneumothorax in a Young Patient Being Treated with Ustekinumab/C. Orabi, A. Madanieh, I. Acosta Sanchez, S. Siddiqui, Orlando, FL, p.A6653**

THEMATIC POSTER SESSION

D36 PLEURAL DISEASE: CASE REPORTS II

9:15 a.m. - 3:30 p.m.

SAN DIEGO CONVENTION CENTER

Area G (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: N. Arger, MD, San Francisco, CA

- P672 Malignant Mesothelioma: An Unexpected Diagnosis in a Young Man/M. Kang, O.V. Khullar, C. Steuer, K. Van Nostrand, Atlanta, GA, p.A6654**
- P673 Pancreaticopleural Fistulae; a Rare Pulmonary Complication of an Intra-Abdominal Disease/M. Antoine, B. Sharma, D. Markabawi, P. Koppaarth, Syracuse, NY, p.A6655**
- P674 A Case of Transudative Chylothorax: A Diagnostic Dilemma/K. Rajdev, A. Avula, D. Sharma, W. Mansour, A. Siddiqui, M. Chalhoub, Staten Island, NY, p.A6656**
- P675 Protein Losing Enteropathy with Marasmus/T. Kukkadapu, A. Chandora, J. Keshavamurthy, S. Taylor, T.A. Dillard, Augusta, GA, p.A6657**
- P676 The T-ruth Is in the Pleura: T-Cell Lymphoma in a Patient on Abatacept Diagnosed by Pleural Fluid Analysis/K.A. McPherson, A.K. Levy, Aurora, CO, p.A6658**
- P677 Re-Expansion Pulmonary Edema After Large Volume Thoracentesis: A Teachable Moment/Z. Khan, A. Wahab, A. Abdullah, Toledo, OH, p.A6659**
- P678 Bloody Enzymes: Recurrent Hemoptysis in a Patient with Acute Pancreatitis/S. Gillenwater, E. Rojas, S. Palasamudram Shekar, K.B. Patel, J.M. Dolan, A. Gonzalez, A. Hadeh, Weston, FL, p.A6660**
- P679 Pyocholethorax: A Rare Complication of Percutaneous Transhepatic Biliary Drainage/Z. Khan, M.S. Khan, K. Srour, S. Rehman, J.R. Hammersley, Toledo, OH, p.A6661**
- P680 Bilateral Chylothorax and Chylous Ascites: A Rare Presentation of an Uncommon Disorder/A. Mahajan, P. Sankhyan, B. Boonpheng, E. Josan, K. Bajaj, Johnson City, TN, p.A6662**

P681 Benign Nodular Adenomatous Hyperplasia of the Thyroid: An Unusual Cause of Pleural Effusion?/S. Pilli, B.J. McKelvey, Houston, TX, p.A6663

Facilitator: G.A. Fernandez Romero, MD, Philadelphia, PA

P682 Getting It off Your Chest: A Case of Actinomyces Israelii Causing Empyema Necessitans/A. Bello, D. Sese, H. Kakarala, Akron, OH, p.A6664

P683 Tainted Milk: Dasatinib-Induced Bilateral Chylothorax with Associated Streptococcal Infection/W. Brasher, P. Patel, Houston, TX, p.A6665

P684 A Rare Cause of Empyema in a Patient with Germ Cell Tumor/R. Mangat, A. Eranki, Syracuse, NY, p.A6666

P685 Talcoma: The Confounding of a Differential Diagnosis in a Patient with a Pleural-Based Mass/P. Ramirez, B. Giri, Temple, TX, p.A6667

P686 Left Sided Catamenial Pneumothorax : A Rare Entity/N. Narula, B. Gomez, S. Ngu, A. Avula, W. Mansour, M.N. Chalhoub, Staten Island, NY, p.A6668

P687 Recurrence of Resected Solitary Fibrous Tumor/D. Espinal Monzón, E. Morello, C. Colunche, C. Canal, J. Ramirez, J. Caceres, R. Chancafe, S. Vasquez, K. Tafur, O. Gayoso, Lima, Peru, p.A6669

P688 Extramedullary Hematopoiesis of the Pleura: A Rare Cause of Massive Hemothorax/K. Linder, O. Epelbaum, A. Agarwal, Valhalla, NY, p.A6670

P689 Pancreatico-Pleural Fistula Presenting with Large Right-Sided Pleural Effusion/D. Prime, A. Singh, M.J. Rosen, New York, NY, p.A6671

P690 Exudative Pleural Effusion as an Initial Presentation of Rheumatoid Arthritis/N. George, Houston, TX, p.A6672

P691 Malignant Mesothelioma Presenting as a Chylous Pleural Effusion/R. Reddy, L. Benninger, P. Shah, Gainesville, FL, p.A6673

Facilitator: W. Shapiro, MD, Philadelphia, PA

P692 Isolated Chylothorax After Intra-Abdominal Surgery/N. Seif, A. Noor, Indianapolis, IN, p.A6674

P693 A Case of Pleuropulmonary Nodular Lymphoid Hyperplasia Presenting with Recurrent Exudative Pleural Effusions/C.C. Odigwe, R. Bradley, M.J. Mayson, L.B. Tihabano, C.I. Odigwe, J.R. Hucks, R.E.M. Gripaldo, Columbia, SC, p.A6675

P694 Resection of Solitary Fibrous Tumor of the Pleura with Single Port VATS/K. Zakharov, J. Gumer, G. Brevetti, Brooklyn, NY, p.A6676

P695 Asymptomatic Reexpansion Pulmonary Edema Following Thoracoscopy/N. Appusamy, Trichy, India, p.A6677

P696 Spontaneous Pneumomediastinum (Hamman's Syndrome): A Case Report/Y. Eslaamizaad, M. Berrou, P. Almalouf, Mobile, AL, p.A6678

P697 Deadly Imposter: A Rare Pleural Tumor Masquerading as Pulmonary Abscess/E.E. O'Shea Paudel, S.E. Kopec, Worcester, MA, p.A6679

P698 Black Pleural Effusion: Rare Presentation of Thoracic Endometriosis/W. Mansour, A. Avula, D. Sharma, H. El Hage, D. Elsayegh, Staten Island, NY, p.A6680

P699 An Unusual Cause of Pleural Effusion/I. Kejo, J. Salonia, A. Diaz, D. Pan, M.M. O'Sullivan, New York, NY, p.A6681

P700 Spontaneous Pneumothorax Caused by Excessive Positive Airway Pressure Therapy for Obstructive Sleep Apnea/J.T. Mao, A. Bernabei, N. Cutrufello, J.D. Kern, Albuquerque, NM, p.A6682

P701 The Pancreas: An Unlikely Source for Right-Sided Pleural Effusion/M.U. Khawar, J.M. Elwing, Cincinnati, OH, p.A6683

Facilitator: A.M. Goyanes, MD, Baltimore, MD

P702 Transudative Chylothorax: A Portal Hypertension Problem?/B. Salwen, D.H. Yu, D.J. Feller-Kopman, H.J. Lee, L.B. Yarmus, C. Gilbert, Baltimore, MD, p.A6684

P703 A Unique Case of Systemic Amyloidosis Presenting with Recurrent Pleural Effusion/O.M. Ahmedtaha, S. Soherwardi, J.I. Obi, A. Mehari, Washington, DC, p.A6685

P704 Malignant Pleural Effusion as the First Presentation of Thyroid Cancer/T. Phupitakphol, R. Alejandro, S.-L.C. Kwa, Framingham, MA, p.A6686

P705 Catamenial Pneumothorax- A Rare Case of Thoracic Endometriosis/A.M. Shah, L. Curiel, C.A. Thurm, H. Patel, M. Fuchs, Jamaica, NY, p.A6687

P706 Spontaneous Chylothorax in an Adult with Noonan Syndrome/R. Baalachandran, M. Paparo, A. Sachdeva, E. Pickering, Baltimore, MD, p.A6688

P707 Pleural Effusion as Initial Manifestation of Ovarian Malignancy/E. Kandoth, R. Mocerino, V. Kaul, T.M. McGarry, Queens, NY, p.A6689

P708 Pleural Tuberculosis and the Utility of ADA in Low Prevalence Population/L.L. Seijo, J. Filopei, New York, NY, p.A6690

P709 Smells Like Anaerobes: Cooperative Immune Evasion and a Foul-Smelling Intensive Care Unit/R. Belecanech, K.M. DeMerle, B.J. McVerry, Pittsburgh, PA, p.A6691

P710 Another Case of Pleural Based Malignancy or Perhaps Not: An Unusual Presentation of Gunshot Injury/J. Duke, P. Vijhiani, S.V. Cherian, R.M. Estrada-Y-Martin, Houston, TX, p.A6692

P711 When Normal Flora Goes Wild! A Rare Cause of a Complicated Para-Pneumonic Effusion/N. Malik, A. Cunningham, E.O. Ortiz-Diaz, M. Olibrice-Saint-Fleur, K. Wong-Lama, New York, NY, p.A6693

Facilitator: A. Sergew, MD, Denver, CO

P712 Get to the Point: A Case of a Subpleural Cyst Mimicking Pneumothorax/C. Lanks, J. Tourtellotte, Torrance, CA, p.A6694

P713 A Complex Parapneumonic Pleural Effusion Presenting with Back Spasms/A. Shallal, M. Reaume, L. Yadav, M. Olken, Kalamazoo, MI, p.A6695

P714 Catamenial Hemothorax - An Unusual Cause of Elevated Adenosine Deaminase in the Pleural Fluid/N. Herbst, S. Belok, E. Billatos, Boston, MA, p.A6696

- P715 Right Sided Hemothorax Associated with Type B Aortic Dissection Without Rupture: A Case Report and Review of Literature**/F. Houshmand, S. Marco, V. Maddipati, Greenville, NC, p.A6697
- P716 A Case of Cryptogenic Bilateral Fibrosing Pleuritis, an Extremely Rare Form of Interstitial Lung Disease**/G. Ivashchuk, M. Sanchez Sierra Marino, R. Arauco Brown, McAllen, TX, p.A6698
- P717 A Pleural Effusion May Be Your Only Clue: A Rare Presentation of Advanced Ovarian Carcinoma**/A. Labus, M.B. Abdelfattah, R.G. Sangani, Morgantown, WV, p.A6699
- P718 A Case of Epithelioid Malignant Pleural Mesothelioma that Revealed Bilateral Miliary Lung Metastases at Autopsy**/Y. Asato, H. Satoshi, O. Yusuke, O. Ken, M. Kazuyoshi, Nakano-ku, Japan, p.A6700
- P719 Lung Entrapment Due to Pleural Involvement of Lymphoplasmacytic Lymphoma in Waldenstrom Macroglobulinemia**/P. Ntiamoah, R. Hakim, D. Singh, S.B. Smith, Chicago, IL, p.A6701
- P720 Doege Potter Syndrome: Solitary Fibrous Tumor of the Pleura Associated with Hypoglycemia**/M.I. Maguina, D.A. Salazar Martinez, G.F. Velasquez Pinto, W. Chavez, A. Ventura, O. Flores, C. Colunche, O. Gayoso, J.F. Ramirez, J.F. Ramirez, San Martin de Porres, Peru, p.A6702
- P721 Chylothorax Due to Esophageal Duplication Cyst: Case Report**/L.J. Arroyo-Hernandez, S. Rodriguez-Llamazares, H. Rodriguez-Bautista, R.E. Carriles-Heredia, M.A. Salazar Lezama, Mexico City, Mexico, p.A6703
- P729 Achromobacter Xylosoxidans Pneumonia Secondary to Contaminated Home Nebulizer Use in a Patient with Non-Cystic Fibrosis Bronchiectasis**/C.J. Van Hook, B. Warner, A. Taylor, M. Beer, J. Gould, E.J. McManus, Longmont, CO, p.A6708
- P730 Congenital Bronchial Atresia**/S. Hadigal, H.A.M. Fakh, S. Daouk, P.S. Sriram, Gainesville, FL, p.A6709
- P731 Obliterative Bronchitis and Bronchiolitis After Toxic Epidermal Necrolysis**/J. O'Connor, J. Barney, Birmingham, AL, p.A6710
- P732 Long Term Sequale of Refrigerant Exposure, All Obstruction Is Not COPD**/O. Chaudhary, G. Trikha, Syracuse, NY, p.A6711
- P733 3D Printing and the Cystic Fibrosis Lung**/A.A. Mirza, T.E. Robinson, H.H. Guo, Palo Alto, CA, p.A6712
- P734 Mycobacterium Abscessus in a Patient with Cystic Fibrosis**/E. Randhawa, S. Bhandari, M.J. Stephen, Philadelphia, PA, p.A6713
- P735 Cystic Fibrosis and Twin Pregnancy, the Challenge of Multidisciplinary Care: A Case Report**/L. Fernandez, A.M. Angel, W. Martinez, F. Sanabria, C.S. Leib, Cali, Colombia, p.A6714

Facilitator: S.A. Sellers, MD, Chapel Hill, NC

- P736 An Extremely Rare Case of c.418C>T Cystic Fibrosis Transmembrane Regulator Gene Mutation Causing Recurrent Sinopulmonary Infections and Bronchiectasis**/T. Ashby, A. Babbar, P. Staiano, J. Cury, Jacksonville, FL, p.A6715
- P737 Inhaler Screw -Up: A Real World CF Case**/P. Arooj, R.B. Plant, C.B. Ni Ealaithe, D.M. Murphy, K.K. Doddakula, B.J. Plant, Cork, Ireland, p.A6716
- P738 Comorbid Pulmonary Disease May Mask Adult Cystic Fibrosis with Clinical Benefit from Initiation of CF-Specific Therapies - An Illustrative Case**/Y. Matusov, N. Achamallah, R.A. Belkin, Santa Barbara, CA, p.A6717
- P739 Cystic Fibrosis Transmembrane Conductance Regulator Δ F508 Heterozygosity: A Spectrum of Disease Burden**/J. Banipal, B.L. Icard, J.M. Sweet, A.L. Loschner, Roanoke, VA, p.A6718
- P740 Delayed Diagnosis of Cystic Fibrosis in a 62 Year Old Female Leading to Bilateral Lung Transplant**/A. Vijayaraman, M.A. Azevedo, S.E. Kirkby, Columbus, OH, p.A6719
- P741 Fifty Shades of Cystic Fibrosis**/N. Pakzad, E. Langfelder-Schwind, L. DePalo, M.M. O'Sullivan, P.A. Walker, New York, NY, p.A6720
- P742 Measured Fetal and Neonatal Exposure to Lumacaftor and Ivacaftor During Pregnancy and While Breastfeeding**/A. Trimble, C. McKinzie, M. Terrell, E. Stringer, C.R. Esther, Chapel Hill, NC, p.A6721
- P743 CFTR Mutation Carriers State Presenting with CFTR Related Diseases**/P. Ramirez, A.J. Hayek, V.E. Brito, Temple, TX, p.A6722
- P744 A Rare Cause of Overwhelming Sepsis in an Asplenic Patient**/H. Ahmad, H. Erickson, Minneapolis, MN, p.A6723
- P745 Endemic Kaposi Disease (KD) with Pulmonary Localization: A Case Report**/O.N. Mireille, D.K. Yacine, Dakar, Senegal, p.A6724
- P746 Not so "Cryptogenic": A Case of Organizing Pneumonia (OP) Associated with Common Variable Immunodeficiency (CVID)**/G. Manek, L. Delasos, C. Mosebach, Farmington, CT, p.A6725

THEMATIC POSTER SESSION

D37 CF AND NON-CF BRONCHIECTASIS AND IMMUNE DEFICIENCIES: CASE REPORTS

9:15 a.m. - 3:30 p.m. **SAN DIEGO CONVENTION CENTER**
Area G (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: K.M. Robinson, DrMed, Pittsburgh, PA

- P725 Williams-Campbell Syndrome: An Elusive Cause of Bronchiectasis**/ M. Naddour, M. Kalani, A. Singh, Pittsburgh, PA, p.A6704
- P726 Tracheobroncomegaly "Mounier-Kuhn Syndrome"**/H. Asad, Kansas City, MO, p.A6705
- P727 A Large Airway Problem: A Case of an Elderly Female with Mounier-Kuhn Syndrome**/A. Vu, J.P. Utz, Rochester, MN, p.A6706
- P728 Reversible Adult Bronchiectasis**/D. Hou, Y. Song, Shanghai, China, p.A6707

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

THEMATIC POSTER SESSION

D38 COUGH: CASE REPORTS

9:15 a.m. - 3:30 p.m. SAN DIEGO CONVENTION CENTER

Area G (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: D. Price, MD, New York, NY

- P750 Symptoms of Posterior Glottic Stenosis Presenting Three Decades After Initial Endotracheal Trauma/A.S. Flora, R.E. Kose, Toledo, OH, p.A6726**
- P751 Massive Hemoptysis in a Patient with Marfan's Syndrome/J. Centeno, P. Trivedi, A. Iftikhar, L. Sanso, Flushing, NY, p.A6727**
- P752 Tracheobronchopatia Osteochondroplastica; a Rare Cause of Persistent Cough/R. Rico, Y. Perez, Y. Buryk, D.J. De La Zerda, R.A. Calderon-Candelario, Miami, FL, p.A6728**
- P753 Tracheobronchopatia Osteochondroplastica Newly Diagnosed in a Nonagenarian with Chronic Cough/F. Zahiruddin, A. Colomer, J. Zimmerman, Houston, TX, p.A6729**
- P754 "Doctor, I Coughed Up my Lung!"/J. Lee, P.S. Garimella, K. Bates, Lawrenceville, GA, p.A6730**
- P755 Foreign Body Aspiration - Finding the Root of the Problem/A. Chowdhury, F. Berenyi, B. Fernandes, Sydney, Australia, p.A6731**
- P756 Chronic Cough in a Woman from Cameroon: A Case of Tropical Pulmonary Eosinophilia/A. Chada, S. Ayub, L.G. Johnson, Little Rock, AR, p.A6732**
- P757 Plastic Bronchitis: A Tale of Lymphatic Anomalies/K. Lam, S.J. Ruoss, Stanford, CA, p.A6733**
- P758 Pulmonary Botryomycosis/J.M. Yachachin, O. Gayoso, W. Chavez, E. Valdivia, A. Ramirez, J. Cok, J. Caceres, A. Quintana, Lima, Peru, p.A6734**
- P759 Late Presentation of Retained Intrathoracic Foreign Body/P. Kaur, G. Elshimy, B. Singh, Paterson, NJ, p.A6735**
- P760 Diffuse Idiopathic Pulmonary Neuroendocrine Cell Hyperplasia (DIPNECH), An Under Recognized Clinical Entity/A. Divakaran, S. Bhattacharya, W. Khan, New Brunswick, NJ, p.A6736**
- P761 Tracheobronchopatia Osteochondroplastica: Rare Cause of Dyspnea, Cough, and Bronchitis/B.A. Hirsh, L.W. Greenspon, Wynnewood, PA, p.A6737**
- P762 A Benign Coughing Attack and a Severe Bleed: Bilateral Spontaneous Rectus Sheath Hematomas in an Unlikely Scenario/B.C. Walsh, R. Postelnicu, H. Sauthoff, K.J. Felner, New York, NY, p.A6738**
- P763 Unusual Cause of Chronic Cough in a Patient with Hepatocellular Carcinoma/M. Kwon, B. Colaco, D. Sella, K. Mody, J.P. Leventhal, V. Arunthari, Jacksonville, FL, p.A6739**

- P764 Community Acquired Respiratory Illness as a Co-Morbidity for COPD Patient Readmission - Case Review 2017/S. Morgan, S. Moskowski, S. Melinauskas, J. Eichorst, Chicago, IL, p.A6740**

THEMATIC POSTER SESSION

D39 DYSPNEA: CASE REPORTS II

9:15 a.m. - 3:30 p.m. SAN DIEGO CONVENTION CENTER

Area G (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: J.Y. So, MD, Philadelphia, PA

- P768 Angry Airways: A Tale of Bronchocentric Granulomatosis/S. Yeramareddy, H. Grewal, K.B. Martin, Worcester, MA, p.A6741**
- P769 Myhre Syndrome in Montana, a Case Report/K. Mitchell, F. Caceres, Billings, MT, p.A6742**
- P770 Unexplained Cough, Dyspnea, and Eosinophilia: Don't Forget the Zebras/R. Guthrie, L.C. Moses, Richmond, VA, p.A6743**
- P771 The Liver's Caprice: Porto-Pulmonary Hypertension and Hepato-Pulmonary Syndrome Together/P.J. Thacker, A. Abichandani, H. Grover, A. Singh, Abington, PA, p.A6744**
- P772 Acute Airway Obstruction and Superior Vena Cava Syndrome Secondary to Malignant Teratoma/A. Houser, S. Assar, G.T. Chu, Phoenix, AZ, p.A6745**
- P773 Mounier Kuhn Syndrome; a Magnified Incidental Finding/K. Medepalli, Y. Perez, L.J. Barahona, M. Mirsaedi, Miami, FL, p.A6746**
- Facilitator:** J. Evankovich, MD Pittsburgh, PA
- P774 A Curious Case of Hypoxia: Hepatopulmonary Syndrome in Dyskeratosis Congenita/A. Rose, R. Hsiao, D. Koura, D.R. Crouch, La Jolla, CA, p.A6747**
- P775 Croup in Adults: All Bite and No Bark?/P.P. Patel, C. Jacob, G.S. Thind, M. Loehrke, Kalamazoo, MI, p.A6748**
- P776 Phrenic Nerve Injury - a Commonly Missed Diagnosis/P. Sen, U. Majumdar, Albuquerque, NM, p.A6749**
- P777 Angioedema: Rare Side Effect of Hydrochlorothiazide and Triamterene Treatment/S. Timberline, B. Rice, H. Yaqoob, M.M. Munawar, Washington, DC, p.A6750**
- P778 An Uncommon Cause for a Common Complaint: Dyspnea on Exertion Caused by a Double Aortic Arch/C.M. Bojanowski, V. Pretorius, T.M. Fernandes, La Jolla, CA, p.A6751**
- P779 Pentoxifylline Reduces Intrapulmonary Shunt in a Patient with Hepatopulmonary Syndrome/N. Alipanah, N. Juul, V. Mohindra, A.A. Gohil, San Jose, CA, p.A6752**
- Facilitator:** B.C. Tran, MD, Baltimore, MD
- P780 Acute Respiratory Failure: A Rare Manifestation of Sweet Hydrothorax/M.A. Mohamad Alahmad, A. Gundabolu, R. Kasmani, Toledo, OH, p.A6753**

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- P781** **Vanishing Bone Disease/A.** Tamura, S.J. Evans, Honolulu, HI, p.A6754
- P782** **An Unusual Presentation of Multiple Myeloma as Diffuse Alveolar Hemorrhage/M.** Khattab, Z. Smith, J. West, H.A. Hussein, Oklahoma City, OK, p.A6755
- P783** **A Rare Disease Associated with Acute Respiratory Failure in an ICU Patient/R.** Westman, Columbus, OH, p.A6756
- P784** **A Case of Intermittent Upper Airway Obstruction: Sudden Recurrent Choking Sensation/S.** Awadallah, Z. Rehman, H. Sarwar, Greenville, NC, p.A6757
- P785** **Inexplicable Dyspnea in a Soldier: Constrictive Bronchiolitis/K.** Lemma, I. Milojevic, K. Vyas, E. Paal, Washington, DC, p.A6758
- Facilitator:** D.W. Chang, MD, Torrance, CA
- P786** **Bilateral Vocal Cord Paralysis from Type 1 Chiari Malformation Masquerading as Chronic Obstructive Pulmonary Disease/A.** Kalansky, A.M. Khan, D.E. Murphy, A.G. Peerless, Cincinnati, OH, p.A6759
- P787** **Special Delivery: Opening the Enigma of Dyspnea in the Pregnant Patient/J.** Mailman, C. Quill, A. Pedulla, Rochester, NY, p.A6760
- P788** **High Flow Nasal Cannula (HFNC) Oxygen Therapy as a Palliative Measure in End Stage Lung Disease (ESLD)/D.** Khateeb, J.A. Mariglio, Philadelphia, PA, p.A6761
- P789** **A Case of Ortner Syndrome/J.** Singh, G. Chaviano, A.T. Scardella, New Brunswick, NJ, p.A6762
- P790** **A Toothache to Kill. A Case of Dental Abscess Complicated with Descending Necrotizing Mediastinitis/M.** Dogra, M. Abdelghany, H. Dharia, J. Lamichhane, Syracuse, NY, p.A6763
- P791** **Hepatopulmonary Syndrome Masquerading as Interstitial Lung Disease/C.C.** Odigwe, L.B. Tlhabano, R.E.M. Gripaldo, Columbia, SC, p.A6764
- P792** **An Unusual Case of Dyspnea/H.** Patel, R. Osipov, S. Gaffney, D. Bynum, J. Vavalle, Chapel Hill, NC, p.A6765
- P793** **“Casting” for a Diagnosis: A Case of Plastic Bronchitis in an Adult Patient Following Cardiopulmonary Bypass/K.** Lam, Stanford, CA, p.A6766
- P794** **An Unusual Case of Gastrointestinal-Induced Lung Compression with Hypoxia/L.** Delasos, G. Manek, P. Troy, Farmington, CT, p.A6767
- P795** **Isolated Congenital Sternal Defect/Absence in a Patient of 58 Year Old/Y.** Abdel-Aziz, A. Kubbara, Y. Yoon, Toledo, OH, p.A6768
- P796** **Breathless with Dapsone/A.** Munir, A. Thandra, A.K. Rakhra, D. Huang, A.D. Wells, Omaha, NE, p.A6769
- P797** **Mitochondrial Myopathy Presenting in Late Adulthood: A Rare Occurrence/H.** Hadid, Detroit, MI, p.A6770

THEMATIC POSTER SESSION

D40 COPD: CASE REPORTS

9:15 a.m. - 3:30 p.m.

SAN DIEGO CONVENTION CENTER

Area L (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion

12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: C. Riley, MD, Pittsburgh, PA

- P1325** **A Protruding Chest Wall Mass: An Unusual Case of Intercostal Lung Herniation/S.** Malik, I. Wong, G. Lombardo, Brooklyn, NY, p.A6771
- P1326** **A Ball of Fun: Allergic Bronchopulmonary Aspergillosis Presenting as a Pneumothorax/R.** Powers, D. Sese, A.R. Cucci, Akron, OH, p.A6772
- P1327** **Quantitative Computed Tomography in Diagnosing Emphysema/L.G.** Vargas Buonfiglio, S.J. Kraus, A.P. Comellas, Iowa City, IA, p.A6773
- P1328** **Vanishing Lung Syndrome: A Familial Disease?/H.A.** Jaliawala, B. Saksouk, M.S. Khan, A. Ul-Haq, B.R. Brown, Oklahoma City, OK, p.A6774
- P1329** **Mycobacterium Avium Masquerading as a Possible Lung Carcinoma in a Patient with Advanced COPD/M.** Shahzadi, A.Z. Rasheed, R. Chand, L. Iatypov, L.N. Gerolemou, Brooklyn, NY, p.A6775
- P1330** **Recurrent Spontaneous Bilateral Lung Hernia: A Unique Entity/M.E.** Rosenthal, S.V. Cherian, R.M. Estrada-Y-Martin, Houston, TX, p.A6776
- P1331** **A Twisted Pulmonary Complication Following Surgery/T.H.-Y.** Pan, R. Choudhury, T. Alias, D. Felter, A. Mora, Dallas, TX, p.A6777
- P1332** **COPD and Severe Ventilatory Failure: Intubation Vs Noninvasive Ventilation Is Not by Number/P.** Ward, E. Ortiz-Diaz, G. Pesola, New York, NY, p.A6778
- Facilitator:** A. Lambert, MD, MHS, Seattle, WA
- P1333** **Spontaneous Intercostal Lung Hernia: A Case of an Unusual Presentation/A.** Madanieh, A. Faiz, I. Acosta-Sanchez, D. Banks, Orlando, FL, p.A6779
- P1334** **The Cocktail Effect of Cigarettes and Marijuana in Giant Bullous Emphysema/J.N.** Blixt, D.K. Narendra, Houston, TX, p.A6780
- P1335** **A Rare Case of Spontaneous Pulmonary Bleeding into an Emphysematous Bulla/A.A.** Innabi, A. Chada, T. Barter, Little Rock, AR, p.A6781
- P1336** **Recurrent Acute Pancreatitis Secondary to Alpha-1-Antitrypsin Deficiency/Z.** Awan, A. Turner, Birmingham, United Kingdom, p.A6782
- P1337** **Assessment of Suitable Patients and Targets for Lung Volume Reduction with Endobronchial Valves in COPD/C.** Johns, H. Marshall, A.J. Swift, R. Jagan, W.D. Nicholas, S. Laurie, H.-F. Chan, J.M. Wild, R.A. Lawson, Sheffield, United Kingdom, p.A6783

- P1338** **Aspiration of Dental Molding in a Patient with Extensive Lung Disease: A Need for Intervention**/J. Centeno, A. Iftikhar, A. Adial, R. Thomas, R. Levy, Flushing, NY, p.A6784
- P1339** **Respiratory Support During Surgery with Nasal High Flow in Type II Respiratory Failure**/J.F. Martin - Lazaro, N. Watt, B. Salzmann, V. Macavei, M. Brown, O. Mohr, London, United Kingdom, p.A6785
- P1340** **A Case of Fluid Filled Emphysematous Bullae: A Cause for Concern?**J. Wong, Minneapolis, MN, p.A6786

THEMATIC POSTER SESSION

D41 CRITICAL CARE: LEARNING TO FLY - INNOVATIONS IN EDUCATION

9:15 a.m. - 3:30 p.m. **SAN DIEGO CONVENTION CENTER**

Area K (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: M.J. Lanspa, MD, MSCR, Salt Lake City, UT
A.A. Hope, MD, Bronx, NY

- P1131** **An Airway Management Program Utilizing Rapid Sequence Intubation, Video Laryngoscopy, and the Bougie Yields High First-Pass Success by Critical Care Fellows**/K.W. Dodd, M.E. Prekker, J. Peterson, J. Bhoopal, J. Boland, E. Soto, J.W. Leatherman, Minneapolis, MN, p.A6787
- P1132** **Impact of A One Day Introductory Course to Pulmonary and Pleural Procedures**/A. de Lima, A. Majid, A.C. Chee, M.S. Parikh, Boston, MA, p.A6788
- P1133** **A Novel Clinician-Performed Ultrasound Curriculum for Internal Medicine Residents**/C. Baston, E. Harmon, W. Chan, N. Panebianco, L. Bellini, Philadelphia, PA, p.A6789
- P1134** **Assessing and Improving Resident Stress During Rapid Response Scenarios**/O. Mitchell, A. Lehr, M. Lo, L.M. Kam, A. Andriotis, B. Kaufman, K.J. Felner, C. Madeira, New York, NY, p.A6790
- P1135** **Rapid Mortality Review as a Tool for Resident Debriefing in the Intensive Care Unit**/B.J. Garber, W. Simon, O.O. Amubieya, T.H. Neville, Los Angeles, CA, p.A6791
- P1136** **High Fidelity Simulation-Based Education to Improve Medical Resident Competence and Comfort in Ventilator Management in the Intensive Care Unit**/M. Champion, E. Pohoata, J.A. Gold, S.A. Nonas, Portland, OR, p.A6792
- P1137** **Aligning Education and Efficiency on ICU Bedside Rounds: A Qualitative Study**/J.L. Frydman, K. Coffman, A. Uppal, New York, NY, p.A6793
- P1138** **Implementation of a Formal Medical Intensive Care Unit Curriculum for Housestaff**/J. Willoughby, A. Trivedi, Chicago, IL, p.A6794

- P1139** **Improvement in Knowledge and Confidence After the Implementation of a Unique Resident Curriculum in the Medical Intensive Care Unit**/J. Hunninghake, M. Koroscil, A. George, A. Skabelund, S. Deas, San Antonio, TX, p.A6795
- P1140** **Multi-disciplinary, Interprofessional Communication Simulations for Training Critical Care Fellows in Communication About Serious Illness Care Goals**/N.G. Shah, B. Marr, G. Netzer, S. Tisherman, Baltimore, MD, p.A6796
- P1141** **A Ten-Minute Lecture Impacted the Interpretation of Do-Not-Attempt-Resuscitation Order in Resident Physicians in Japan**/Y. Mishima, K. Wakabayashi, H. Shigemitsu, Tokyo, Japan, p.A6797
- P1142** **Creation and Evaluation of a Simple and Affordable Simulator to Teach Peripheral IV Insertion**/J.W. Talan, A. Cohen, M.M. Hayes, Boston, MA, p.A6798
- P1143** **Simulation For Mock CPR Associated with Increased Accuracy in ACLS Protocol Delivery**/Z. Syed, M. Hanna, T. Pandya, M.R. Alziadat, A. Sharaan, M. Ismail, Paterson, NJ, p.A6799
- P1144** **Cardiothoracic Surgical Intensive Care Unit Boot Camp Can Improve Cardiovascular Critical Care Knowledge Among Trainees**/M. Rahmanian, L.A. Eisen, A. Keene, R. Conigliaro, A. Carlese, Bronx, NY, p.A6800

THEMATIC POSTER SESSION

D42 CRITICAL CARE: BLINDED BY THE LIGHT - IMAGING IN CRITICAL CARE

9:15 a.m. - 3:30 p.m. **SAN DIEGO CONVENTION CENTER**

Area K (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: S.B. Fain, PhD, Madison, WI
G.F. Curley, MB, PhD, Toronto, Canada

- P1146** **BMI Does Not Influence Cardiac View in Critically Ill Patients**/V. Sharma, R. Gueret, J. Bailitz, Chicago, IL, p.A6801
- P1147** **Formalized Ultrasound Education**/C. Rappaport, J. Smock, A. Vose, Iowa City, IA, p.A6802
- P1148** **Effectiveness of a Self-Directed Critical Care Ultrasound Course**/Z. Fulkerson, K.J. Diab, W.G.G. Carlos, Indianapolis, IN, p.A6803
- P1149** **Inferior Vena Cava Ultrasound in Sepsis; Are Residents Able to Identify the Right Patients?**/B.H. Lashari, M. Hamid, U. Shoukat, P. Thacker, R. Patel, Abington, PA, p.A6804
- P1150** **A Startling Conclusion: The Presence of B Lung Ultrasonography Performed by Medical Residents Did Not Lead to Less Fluid Administration**/C. Iskandir, V. Viswanathan, H. Bhatt, R.C. Rajmane, Brooklyn, NY, p.A6805

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- P1151 Estimating the Accuracy of Pulmonary and Critical Care Medicine Fellows in Determining Ejection Fraction, Right Ventricular Size and the Presence of a Pericardial Effusion using Bedside Ultrasound/U. Chaddha, R. Ronaghi, D. Maehara, N. Damaghi, D. Kelley, Los Angeles, CA, p.A6806**
- P1152 Accuracy of Volume Responsiveness Assessment by Internal Medicine Residents Using Carotid Doppler After a Single Training Session/J.A. Vargas, E. Reid, H. Goraya, M. Abbasi, R.D. Juan Carlos, R.T. Faillace, P. Gulani, Bronx, NY, p.A6807**
- P1153 A Survey of the Use of Ultrasound Based Parameters to Assess Fluid Responsiveness/V. Sharma, N. Hammond, H. Li, J. Rodriguez, R. Gueret, J. Baillitz, Chicago, IL, p.A6808**
- P1154 Enteral Feed Can Be Started After Uncomplicated Feeding Tube Placement Without STAT Abdominal-Xray/I. Ratnani, F. Hirani, D. Bawa, Houston, TX, p.A6809**
- P1155 Evaluating the Practice of Repositioning Endotracheal Tubes in Neonates and Children Based on Radiographic Location/D.D. Im, P.A. Ross, J. Hotz, C.J. Newth, Los Angeles, CA, p.A6810**
- P1156 Clinical Value of Computed Tomography in Patients with Acute Respiratory Failure Who Admitted to Micu/C.G. Lee, E.S. Kim, L. Sang Hoon, Y.J. Lee, J.S. Park, H. Yoon, J. Lee, L. Choon-Taek, Y.-J. Cho, Seongnam, Korea, Republic of p.A6811**
- P1157 Assessment of Regional Perfusion in Acute Lung Injury Using Dual-Energy CT/Y. Xin, M. Cereda, H. Hamedani, S. Na, M. Pourfathi, S. Siddiqui, F. Amzajerdian, N. Meeder, I. Duncan, L. Loza, R. Baron, A. Roberts, J. Ehrich, H. Profka, S. Kadlecck, N. Tustison, J. Gee, B.P. Kavanagh, R.R. Rizzi, Philadelphia, PA, p.A6812**
- P1158 Diagnostic Performance of Fludeoxyglucose (FDG) Positron Emission Tomography (PET) in Critically Ill Patients with Sepsis of Unknown Origin: A Systematic Review and Meta-Analysis/C.-K. Huang, J.-Y. Huang, S.-Y. Ruan, K.-L. Chien, Taipei, Taiwan, p.A6813**
- P1159 A Retrospective Study of the Effect of Emergency Medicine Clinician Performed Ultrasound on Clinical Outcomes in Critically Ill Patients with Sepsis/C. Baston, B.J. Anderson, J.P. Reilly, M.G.S. Shashaty, C.A. Ittner, M. Mccarthy, J. Wilson, N. Panebianco, N. Meyer, Philadelphia, PA, p.A6814**
- Facilitators:** A. Amaral, MD, Toronto, Canada
I.K. Louh, MD, PhD, New York, NY
- P1161 Device Utilization Before and After Implementation of a Checklist on Multi-Disciplinary Rounds in a Community Hospital/I. Butler, A. Presente, S.W. Zgliniec, K. Koirala, San Diego, CA, p.A6815**
- P1162 The Central Line “Mental Model”: A Novel Quality Improvement Initiative to Identify and Reduce Unnecessary Central Venous Catheters in Surgical and Cardiothoracic ICUs/M. Hoyler, M. Rivera, C. Rosenbauer, V.K. Moitra, New York, NY, p.A6816**
- P1163 Incidence of Upper Extremity Thrombosis After the Implementation of Midline Catheters/V. Sharma, N.O. Bammes, J. Paul, G.H. Howell, Kansas City, MO, p.A6817**
- P1164 Central Line-Associated Bloodstream Infections: Analysis of 102,091 Hospitalizations/S. Sivsammeye, C. Jacob, P.P. Patel, K. Kailasam, Kalamazoo, MI, p.A6818**
- P1165 Extended-Dwell Peripheral Intravenous Catheters: A Novel Approach to Decreasing Central Venous Catheter Utilization/S. Zarbiv, A. Manasia, S. Griffiths, P. Maddireddy, M. Bamajboor, R. Freeman, K. Wiley, J. Albano, A. Brito, G. Lee, C. Wells, C. Valcorza, E. Hannon, R. Kohli-Seth, New York, NY, p.A6819**
- P1166 Improving Documentation of Endotracheal Intubations in the Medical Intensive Care Unit at a Tertiary Care Hospital/B. Lindgren, P. Azizad-Pinto, O. Rojanapairat, U. Hoang, Los Angeles, CA, p.A6820**
- P1167 Institution of a Pre-Intubation Checklist in the Medical Intensive Care Unit/E. Beck, J.P. Boltax, Salt Lake City, UT, p.A6821**
- P1168 Initial Impact of a Clinical Decision Support System to Improve the Safety of QT Prolonging Antibiotics/C. Heise, T. Gallo, R.A. Raschke, S. Curry, R. Woosley, Phoenix, AZ, p.A6822**
- P1169 A Clinical Decision Support System to Enable Precision Delivery of Evidence-Based Care to Mechanically-Ventilated Patients/S. Assar, S. Fountain, B. Stoffer, K.S. Ramos, S. Curry, R.A. Raschke, Phoenix, AZ, p.A6823**
- P1170 Wake Up and Extubate: A Case Control Study Investigating the Association Between the Daily Spontaneous Awakening Trial and Unplanned Extubations/M. Ferrera, R. Hyzy, J. Du, Ann Arbor, MI, p.A6824**
- P1171 The Mechanical Ventilation Discontinuation Process and Unnecessary Days of Ventilation Analysis/C.G. Mol, M.K.A. Aquino, R.B.D. Reis, C.C. Oliveira, L.B.D. Santos, B.M.N.D. Lucena, L.M.S. Malbouisson, C. Tanaka, Sao Paulo, Brazil, p.A6825**
- Facilitator:** K. Kashani, MD, MSc, Rochester, MN
- P1172 The Design of an Electronic Medical Record Based Clinical Decision Support System in a Large Healthcare System to Improve Antibiotic Safety Using a Validated Risk Score/C. Heise, T. Gallo, S. Curry, R. Woosley, Phoenix, AZ, p.A6826**
- P1173 Minimization of Arterial Blood Gas Sampling in Mechanically Ventilated Patients Via Continuous SpO2 and End Tidal CO2 Monitoring. A Choosing Wisely Project/R. Clouser, P. Stevens, M. Hamlin, G.B. Allen, Burlington, VT, p.A6827**

THEMATIC POSTER SESSION

D43 CRITICAL CARE: THE RISING - QUALITY IMPROVEMENT AND IMPLEMENTATION OF BEST PRACTICE

9:15 a.m. - 3:30 p.m. **SAN DIEGO CONVENTION CENTER**
Area K (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

- P1174 Improving the Appropriateness of Serum Magnesium Testing in an Intensive Care Unit/P.M. Dodek, A. Lo, T. Zhao, S. Rajapakse, A. Leung, J. Chow, R. Wong, M. Norena, Vancouver, Canada, p.A6828**
- P1175 Reducing Routine Blood Testing in the Medical-Surgical Intensive Care Unit: a Single Center Quality Improvement Study/J. Viau-Lapointe, A. Geagea, A. Alali, R.M. Artigas, A.A. Al-Fares, M. Hamidi, B.L. Ferreyro, S. Mehta, Toronto, Canada, p.A6829**
- P1176 Changing Practice in the ICU: Implementing On-Demand Morning Chest X-Rays/B. Mourad, J. Shapiro, S. Kurtz, C. Nguyen, J. Stoeber, New York, NY, p.A6830**
- P1177 Inappropriate Continuation of Stress Ulcer Prophylaxis Following ICU Discharge/A. Daggan, J. Mercado, A. Singh, J. Caines, E. Ola, A. Renson, P. Bhatt, P. Ayoung-Chee, Brooklyn, NY, p.A6831**
- P1178 Risk Profile and Prophylaxis Status of Venous Thromboembolism in the Hospital Care Setting in China: A Report from the Identification of Chinese Hospitalized Patients' Risk Profile for Venous Thromboembolism (DissoIVE 2)/Z.-G. Zhai, Q.-C. Kan, W.-M. Li, X.-Y. Qin, J.-M. Qu, Y.-K. Shi, R.-H. Xu, Z. Zhang, C. Wang, Beijing, China, p.A6832**
- P1179 Patterns in VTE Prophylaxis Dose Delays Among Hospitalized Patients/S. Karanth, S. Patil, M. Ayad, A. Sen, K. Gopal, K. Gomez, B. Patel, Houston, TX, p.A6833**
- P1180 Changing Practice of Stress Ulcer Prophylaxis in Medical Intensive Care Unit at Tertiary Care Center/K. Patel, V. Pronesti, M.A. Kalani, P. Kim, K. Ma, A. Singh, Pittsburgh, PA, p.A6834**
- P1181 Reduction in the Use of Gastric Acid Suppression in a Regional Medical Center ICU After Implementation of an Evidence-Based Algorithm for Stress Ulcer Prophylaxis/S. Pasnick, S. Beane, J. Demirovic, S. Lyon, D. Otero-Bell, M. Montoya, T. Dammad, L. Goitein, Santa Fe, NM, p.A6835**
- P1182 Resident Physician's Perspective on Transitions of Care in a Medical Intensive Care Unit: A Quality Improvement Pre-Intervention Descriptive Study/M. Dongol, E.O. Ortiz-Diaz, A. Kunadu, A. Otokititi, P. Cruz, R. Ayinla, New York, NY, p.A6836**
- Facilitators:** R.D. Hite, MD, Cleveland, OH
J. Maguire, MD, Chapel Hill, NC
- P1184 Rapid Response Checklists- A Pilot Study for a Novel Approach/P. Thacker, A. Rafiq, D. Schneider, Abington, PA, p.A6837**
- P1185 Predictors and Outcome of Diagnostic Error in Patients at Risk for Critical Illness/J. Chae, N. Jayaprakash, M. Sabov, S. Samavedam, O. Gajic, B.W. Pickering, Rochester, MN, p.A6838**
- P1186 Arrival to the ICU During Night Shift Is More Frequent in Infected Patients Directly Admitted to the ICU Compared to Transfers from the Floor/S.P. Taylor, C. Karvetski, C. Lewis, A. Heffner, B.T. Taylor, Charlotte, NC, p.A6839**
- P1187 Review of Outcomes of Patients Transferred to Medical Intensive Care Units: A Meta-Analysis/A. Papé, K.B. Enfield, Charlottesville, VA, p.A6840**
- P1188 Risk Factors for Unplanned Intensive Care Unit Transfer After Inter-Hospital Transfer of Medical Patients/M. Montalvo, R.V. Patel, A.M. Sheth, E.J. Yoo, K.F. D'Mello, Philadelphia, PA, p.A6841**
- P1189 Clinical Outcomes and Prognostic Factors in Patients Directly Transferred to the Intensive Care Unit from Long Term Care Beds in Institutions and Hospitals/S.H. Lee, Y.J. Ryu, Y. Han, S.J. Kim, J.H. Lee, J.H. Chang, Seoul, Korea, Republic of, p.A6842**
- P1190 Internal Medicine Resident Education and Experience - Difference Between a "Closed" and "Open" Critical Care Unit Model/M. Gupta, S.S. Alagusundaramoorthy, A. Jacob, V. Kramer, C. Patton, Long Branch, NJ, p.A6843**
- P1191 Outcomes of Patients Admitted to a Medical Intermediate Care Unit/C. Ohri, J. Kunal, M.D. Hashmi, C.M. Chan, Washington, DC, p.A6844**
- P1192 Non-Critically Ill Patients in a Tertiary Care MICU: A Quantitative and Qualitative Analysis/J.M. Aliotta, K. Dix, J. Ferguson, A. Edwards, N.S. Ward, Providence, RI, p.A6845**
- P1193 Measurement of Practice Pattern Variation in the Provision of Intensive Care: A Systematic Review/R. Simmons-Beck, N. Bosch, A.J. Walkey, Boston, MA, p.A6846**
- P1194 Effect of Conversion from Open to Closed Medical Intensive Care Unit in a Large Teaching Hospital/D.J. De La Zerda, I. Gutierrez, E.C. Santillana, R.A. Calderon Candelario, S. Farasat, Miami, FL, p.A6847**

THEMATIC POSTER SESSION

D44 CRITICAL CARE: THE ROOM WHERE IT HAPPENS - HOW WE MANAGE CRITICAL CARE IN AND OUT OF THE ICU

9:15 a.m. - 3:30 p.m. **SAN DIEGO CONVENTION CENTER**

Area K (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: J.E. Sevransky, MD, Atlanta, GA
S. Ahmed, MBBS, Albuquerque, NM

- P1195 Comparison of Pediatric Patients Managed in the Pediatric Intensive Care Unit and Other Intensive Care Units/W.-R. Bae, B.J. Kim, K. Kim, H.J. Lee, E.A. Yang, H.S. Kim, Y.H. Chun, J.-S. Yoon, H.H. Kim, J. Kim, Seoul, Korea, Republic of, p.A6848**
- P1196 Chronic Critical Illness: Improving Efficiency of Care Using Time-Driven Activity-Based Costing Methodology/M. Shah, A. Mohan, D.R. Nelson, M.S. Hassenpflug, Boston, MA, p.A6849**
- P1197 ICU Cost and Mortality Outcomes by Decade of Life/K. Dave, S. Dhar, E. Cassity, A. Kelly, P.E. Morris, Lexington, KY, p.A6850**
- P1198 Arterial Lines in Septic Shock-Necessary Evil?/A. Madhavan, P. Charilaou, G. Pablo, G.M. Teo, S. Chauhan, New Brunswick, NJ, p.A6851**

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- P1199** **Impact of Peripheral Pressors and Midodrine in the ICU/K.** Chapla, W. Bringghold, Madison, WI, p.A6852
- P1200** **Development of an Intensivist Led, Multidisciplinary, and Integrated Service for Vascular Access/S.A. Zarbiv, A. Manasia, P. Maddireddy, S. Griffiths, R. Freeman, J. Albano, M. Bamajboor, C. Valcorza, N. Kirtoh, G. Lee, E. Hannon, V. LoPachin, R. Kohli-Seth, New York, NY, p.A6853**
- P1201** **Implementation of an ICU Protocol for Peripheral Administration of Vasopressors/N. Patel, R. Scatena, A.M. Ahasic, Norwalk, CT, p.A6854**
- P1202** **PICC use in Sepsis and Septic Shock Patients Admitted to the Intensive Care Unit/B. Alvarez Concejo, H.A. Raza, B. Nokes, R. Cartin-Ceba, Dallas, TX, p.A6855**
- P1203** **Comparison of Moral Distress and Burnout Among Residents in Specialty Programs/P.M. Dodek, K. Lee, D. Louie, D. King, S. Sajjadi, M. Bardi, K. Dutkiewicz, J.M. Roberts, E. Fellner, R. Monagas, B. Chow, L. Sadrehashemi, T. Compton, N. So, M. MacKenzie, L. Jiao, L. Reid, S.P. Jeanette, T. Teoh, B. Szeto, L. Rota, B. Kuzeljevic, Vancouver, Canada, p.A6856**
- P1204** **Quality Improvement Project Assessing Multidisciplinary Team Satisfaction Before and After Utilization of a Communication Tool/M.K. Ellis, A.B. Mathew, Milwaukee, WI, p.A6857**
- P1205** **“ICU HIT’ Me with Your Best Shot”: A Single-Centered Experience for Improving Quality Intensive Care Unit Handoffs from Inter-Hospital Transfers (ICU-HIT Project)/W. Karkowsky, V.K. Holden, K.S. Robinett, Baltimore, MD, p.A6858**
- P1211** **Dysphagia to Respiratory Failure in 5 Hours: Presentation of a Rare Variant of Guillain-Barré Syndrome/E. Matayeva, T. Henson, A. Alaverdian, J. Iqbal, J. Akella, East Meadow, NY, p.A6863**
- P1212** **Neurological Recovery After Autoimmune Encephalitis and Titrated Anti-N-Methyl-D-Aspartate-Receptor Antibody Levels: A Case Report/L. Amado-Rodríguez, E. Ocampos-Martínez, R. Fernández, M. Sánchez-Pérez, S. Suárez-Fernández, L. Velasco, A. García-Rodríguez, Oviedo, Spain, p.A6864**
- P1213** **A Case of Anti-NMDA Encephalitis in the ICU/K. Tsui, B. Ramgopal, K. Pollard, P. Aguilar, St. Louis, MO, p.A6865**
- P1214** **Worth a Second Look: Successful Treatment of Persistent Anti-NMDA-r Encephalitis/N. Wheeler, R.W. Weller, D. Golovyan, R. Patel, Indianapolis, IN, p.A6866**
- P1215** **Cefepime-Induced Non-Convulsive Status Epilepticus: A Rare and Treatable Delirium/M. Naddour, M. Kalani, M. Balaan, Pittsburgh, PA, p.A6867**
- P1216** **Neurocomplications in Pregnancy: Wernicke'S Encephalopathy, Enteroviral Meningitis, and Acute Toxoplasmosis/C. Bardita, J. Barney, Birmingham, AL, p.A6868**
- P1217** **Overcoming Mount Fuji- A Sign of Pneumocephalus/B. Kim, J. Salonia, S. Kurtz, New York, NY, p.A6869**

Facilitators: A.C. Arroliga, MD, Temple, TX
C.M. Goodson, MD, Baltimore, MD

- P1218** **Colon Adenocarcinoma with Leptomeningeal Carcinomatosis Mimicking Subdural Empyema/B.J. Akhavan, G. Sanchez Pettito, M.J. Kwak, T. Sison, J. Goodman, M. Bhattacharjee, Houston, TX, p.A6870**
- P1219** **Life Threatening Case of Brain Swelling: Pachymeningitis/J. Rathod, V.R. Patel, Milwaukee, WI, p.A6871**
- P1220** **Irreversible Cranial Nerve Palsies After Resolution of Pneumonia: Clue to Missed Meningitis/L. Yadav, K. Kailasam, W. Nichols, Kalamazoo, MI, p.A6872**
- P1221** **Clipper Disease/A. Adial, A. Iftikhar, S. Beri, P. Upadhyaya, S. Gosai, Flushing, NY, p.A6873**
- P1222** **Moyamoya Disguised as Multiple Sclerosis Exacerbation/S. McClelland, D. Nodurft, P. Gurram, E. Kuo, M. Gokden, M. Joshi, Little Rock, AR, p.A6874**
- P1223** **Uncal Herniation with Full Neurological Recovery/J. Stoll, J. Xu, L. Hou, W. Khan, New Brunswick, NJ, p.A6875**
- P1224** **Turning a Blind Eye: Acute Vision Loss from an Unexpected Cause/M. Hashmi, S.N. Mahmood, V. Madhwani, Washington, DC, p.A6876**
- P1225** **A Rare Case of Guillain-Barre Syndrome Without Identifiable Trigger in Polycythemia Vera Patient/P.T. Taweeseedt, A. Gupta, M. Bachan, Z. Khan, Bronx, NY, p.A6877**
- P1226** **Transient Acquired Hypoventilation Syndrome Secondary to Uncal Herniation Successfully Treated with Bilevel Non-Invasive Positive Pressure Ventilation/J. Xu, L. Hou, J. Stoll, W. Khan, New Brunswick, NJ, p.A6878**

THEMATIC POSTER SESSION

D45 CRITICAL CARE CASE REPORTS: I (DON'T) WANT TO BE SEDATED - NEUROCRITICAL CARE, SEDATION, AND DELIRIUM

9:15 a.m. - 3:30 p.m. **SAN DIEGO CONVENTION CENTER**

Area K (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: M.R. Baldwin, MD, MS, New York, NY
S. Nalamalapu, MD, Baltimore, MD

- P1207** **Propofol Infusion Syndrome and HMG Co-A Lyase Deficiency: A Case Report/S. Sangli, A. Nei, D. Kelm, B. Lanpher, R.A. Oeckler, Rochester, MN, p.A6859**
- P1208** **Propofol Induced Dystonia: A Rare Drug Reaction/M. Reddy, A. Miller, A. Scalzo, S. Osmond, C. Krausz, St. Louis, MO, p.A6860**
- P1209** **Cephalic Tetanus in an Elderly Woman: A Case Report/F.L. Penaranda, R.A.S. Reodica, R.M. Llorin, Taguig, Philippines, p.A6861**
- P1210** **Acute Stroke in Adult Varicella Infection/A. Tandon, V. Tandon, P. Grover, Farmington, CT, p.A6862**

- P1227 Rapid Onset of Propofol Infusion Syndrome in a Super Morbidly Obese Patient/A.** Agarwal, R.A. Greene, B.S. Shea, Providence, RI, p.A6879
- P1228 Functional Outcomes Post-Thrombectomy In Elderly Stroke Patients/L.** O'Keefe, A. Gautam, R. Bhardwaj, M. Afshani, P. Grover, Farmington, CT, p.A6880
- P1229 An Off-Label Use of Dexmedetomidine in Treatment of Dysautonomic Crisis in Familial Dysautonomia (Riley-Day Syndrome)/A.** Subedi, I.A. Lalani, S.M. Weiner, Long Branch, NJ, p.A6881
- Facilitator:** T.D. Girard, MD, MSci, Pittsburgh, PA
- P1230 A Case of Pneumococcal Endocarditis and Meningitis Complicated with Infective Intracranial Aneurysm/K.** Rathi, M.U.S. Hamdani, S.-W. Luu, A. Khan, Gainesville, FL, p.A6882
- P1231 An Unusual Cardiac Cause of Stroke/C.** Jacob, A. Al-Khateeb, S. Sivsamy, P. Patel, Kalamazoo, MI, p.A6883
- P1232 Feel the Squeeze: Cerebral Vasospasm in High-Grade Lymphoma/C.A.** Willner, P.D. Bozyk, M. Rizk, Royal Oak, MI, p.A6884
- P1233 Polymorphic Ventricular Tachycardia in the Setting of Acute Subdural Hematoma and a Normal QT Interval/M.** Dogra, M. Abdelghany, K. Wagle, H. Dharia, Z. Bhatti, R. Carhart, Syracuse, NY, p.A6885
- P1234 Mural Thrombus in the Non-Aneurysmal Non-Atherosclerotic Aortic Arch: An Unusual Source of Massive Fatal Cerebral Arterial Embolism/M.** Moizuddin, T.K. Jabeen, M. Azam, M.S. Khaleel, Louisville, KY, p.A6886
- P1235 Leptomeningeal Metastatic Melanoma/M.** Abdelkader, V. Singh, York, PA, p.A6887
- P1236 A Leaky Situation: Gadolinium Contrast Induced Neurotoxicity from Intrathecal Contrast/D.** Sese, T. Blaha, R. Khurana, A. Wachsmann, F. Al-ali, T. Murray, A.R. Cucci, Akron, OH, p.A6888
- P1237 A Prolonged Course of Refractory Nonconvulsive Status Epilepticus After Cefepime Treatment: A Case Report/P.T.** Taweeseed, I. Ndebbio, M. Bachan, Z. Khan, Bronx, NY, p.A6889
- P1238 The Perils of Lorazepam Infusions for Refractory Alcohol Withdrawal/D.** Westerhausen, G. Gilroy, T. Pierce, Indianapolis, IN, p.A6890
- P1239 Effectiveness of Treating Prolonged Mechanical Ventilation Related Anxiety with Atypical Antipsychotics/L.H.** Varner, I. Khaki Najafabadi, D. Larson, J.T. Elder, L. Patterson, Suwanee, GA, p.A6891
- P1240 Immediate Reversal of Neuromuscular Blockade in a Patient with Super-Morbid Obesity Using Sugammadex/L.** Lombardi-Karl, E. Vail, M. Patel, New York, NY, p.A6892
- P1241 Posterior Reversible Encephalopathy Syndrome (PRES) in a Patient with Lupus Nephritis/J.D.** Patel, P. Yampikulsakul, P. Tunsupon, Gainesville, FL, p.A6893

THEMATIC POSTER SESSION

D46 CRITICAL CARE CASE REPORTS: TOXICOLOGY AND POISONINGS

9:15 a.m. - 3:30 p.m.

SAN DIEGO CONVENTION CENTER

Area K (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion

12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: M. de Wit, MD, Richmond, VA
F. Moazed, MD, San Francisco, CA

- P1243 Intravenous Lipid Emulsion for Cardiac Arrest and Refractory Shock Caused by Intentional Propranolol Overdose: A Human Case Report/J.** Amayo, K. Horton, J.D. Butler, Atlanta, GA, p.A6894
- P1244 Opium Poppy Seed Tea: A Lesser Known but Deadly Cocktail/N.** Poponea, M.T. Kashlan, J. Vollstaedt, Pontiac, MI, p.A6895
- P1245 Breaking Ricin/Y.** Wakwaya, B. Graney, Aurora, CO, p.A6896
- P1246 Finding the Silver Lining: A Puzzling Case of Shock Complicated by Argyria/J.** Riggs, E. Nisimov, M. Mirant-Borde, B. Oppenheimer, New York, NY, p.A6897
- P1247 A Rare Case of Theophylline Toxicity Due to Influenza A Infection in an Adult with Asthma/Z.** Khan, U. Darr, M.S. Khan, K. Srour, T. Javid, Toledo, OH, p.A6898
- P1248 Hyperosmolarity and Lactic Acidosis Due to Propylene Glycol Toxicity Induced by Intravenous Trimethoprim/Sulfamethoxazole Therapy/H.** Shah, D. Datta, Farmington, CT, p.A6899
- P1249 Dragon, Caught: Acute-Onset Toxic Leukoencephalopathy After Inhaled Heroin Overdose/N.** Achamallah, Y. Matusov, J.C. Fried, Santa Barbara, CA, p.A6900
- P1250 An Unusual Constellation of Copper Deficiency: Myelopathy and Leukopenia/D.** Vera-Vazquez, Grand Rapids, MI, p.A6901
- P1251 Diquat Toxicity: Multi-Organ Failure from Herbicide Ingestion/E.** Rayyan, S. Savajiyani, S. Uppalapu, Phoenix, AZ, p.A6902
- P1252 Methotrexate Toxicity: Skin in the Game/S.** Noronha, D.R. Brown, Rochester, MN, p.A6903
- Facilitators:** C.J. Van Hook, MD, Longmont, CO
C. Dahn, MD, Bronx, NY
- P1253 Down but Not Out: Severe Amitriptyline Overdose for Extended Duration Due to Genetic Polymorphism/D.** Gekhman, G. Marmolejos, N. Agarwal, Philadelphia, PA, p.A6904
- P1254 Organophosphate Toxicity Secondary to Malathion Use in a Patient with Delusional Parasitosis/C.J.** Van Hook, B. Warner, A. Taylor, M. Beer, J. Gould, Longmont, CO, p.A6905

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- P1255 Life Threatening Neurologic and Cardiac Toxicity Due to Cesium Chloride Used for the Holistic Treatment/V.R. Patel, J. Rathod, Milwaukee, WI, p.A6906**
- P1256 Venlafaxine-Induced Hypertensive Emergency/Y. Mogilevskaya, S. Patel, B.A. Mina, New York, NY, p.A6907**
- P1257 Loperamide Induced Cardiotoxicity/B. McNeely, A. Kasniunas, P. Jagtap, D. Sanghavi, Springfield, IL, p.A6908**
- P1258 Acute Respiratory Distress Syndrome Due To Ado Transtuzumab Emtancine/K. Yashi, J.P.S. Virk, I.G. Amzuta, Syracuse, NY, p.A6909**
- P1259 Non Cardiogenic Pulmonary Edema Due to Chronic BC Powder Use/T. Warmoth, H. Edriss, Lubbock, TX, p.A6910**
- P1260 Certain Death in Uncertain Time: A Fatal Case of Paraquat Poisoning/M. Moizuddin, A. Enjetti, S. Waghchoure, J. Krieg, Columbia, SC, p.A6911**
- P1261 Amantadine Toxicity: Uncovering a Rare Cause of Severe Encephalopathy/K. Albrekton, A. Mandviwala, C. Donatelli, D. Soliman, J. Lackamp, C.V. Teba, Cleveland, OH, p.A6912**
- P1262 Febrile Neutropenia in a Cocaine User: A Case of Levamisole Induced Agranulocytosis/M.S. Khan, Z. Khan, F.M. Khateeb, A. Moustafa, M. Taleb, Y. Yoon, Toledo, OH, p.A6913**
- Facilitators:** J.M. Shapiro, MD, New York, NY
R. Mehta, MD, Maywood, IL
- P1263 Metabolic Encephalopathy in a Sickle Cell Patient Taking Deferasirox/A. Bommakanti, J. McKell, Cleveland, OH, p.A6914**
- P1264 Paraquat Poisoning, Case and Review of Literature/T.M. Arab, M.R. Malekzadegan, L. Curiel, O. Al Rramady, M. Babury, Jamaica, NY, p.A6915**
- P1265 Fulminant Hepatic Failure After Single Infusion of a Cephalosporin: A Fatal Prophylaxis/M. Moizuddin, M.M. Nayeem, S. Waghchoure, R. Gripaldo, Columbia, SC, p.A6916**
- P1266 Demonstration of Colchicine Clearance by Continuous Venovenous Hemofiltration (CVVH) in Severe Toxicity/O. Rahman, J. Jacobi, H. Peters, J. Mowry, M. Sohail, Indianapolis, IN, p.A6917**
- P1267 Daptomycin Induced Rhabdomyolysis: A Rare Complication in Critical Care Patients/X. Gao, M. Bachan, Z. Khan, R.E. Siegel, Bronx, NY, p.A6918**
- P1268 Lipid Emulsion Therapy and High Dose Insulin in Management of Calcium Channel Blocker Toxicity/N. Mesiha, M. Gughani, S. Tieku, Trenton, NJ, p.A6919**
- P1269 Development of the Serotonin Syndrome in a Dialysis Patient: A Case Report and Literature Review/S. Congrete, B. Jaber, P. LaCamera, Boston, MA, p.A6920**
- P1270 Not the Typical Pneumonia; an Unusual Case of Rasburicase Induced Methomoglobinemia/M. Younis, S.M. Eikermann, M. Hamarshi, Kansas City, MO, p.A6921**
- P1271 A Case of Massive Acetaminophen Toxicity Needing Emergent Hemodialysis/I. Melgarejo, G. Devendra, Honolulu, HI, p.A6922**
- P1272 High Dose Insulin for Severe Heart Failure Due to Beta-Blocker Overdose/A.S. Calzadilla, M. Mirsaedi, Miami, FL, p.A6923**
- Facilitators:** L. Burry, PhD, Toronto, Canada
S.W. Robison, MD, Birmingham, AL
- P1273 Cardiomyopathy Associated to Anabolic-Androgenic Steroid (AAS) Abuse/O. Garner, M. Yakoby, A. Ramirez-Berlioz, A. Iardino, C.W. Spellman, Odessa, TX, p.A6924**
- P1274 Methadone Induced Near Fatal Cardiotoxicity Leading to Cardiac Arrest and Tako-Tsubo Cardiomyopathy/P. Soni, V. Namana, N. Aggarwal, A.K. Rai, Y. Kupfer, Brooklyn, NY, p.A6925**
- P1275 Methanol Induced ST Elevation and Brain Death/E. Chow, A. Khosla, L. Berman, Norwalk, CT, p.A6926**
- P1276 Trimethoprim-Sulfamethoxazole Induced Non-Anaphylactic Circulatory Shock/P. Liu, G.P. Ranches, J.A. Gold, Portland, OR, p.A6927**
- P1277 Rapid Near-Fatal Piperacillin/Tazobactm-Induced Thrombocytopenia/R. Masroujeh, B. Bonder, A. Mandviwala, A. Haj Abdulkader, Cleveland, OH, p.A6928**
- P1278 Agitated Delirium in an Intravenous Drug User: Don't Jump to Conclusions/A. Abdelrahman, M. Borden, M.A. Ghamloush, Boston, MA, p.A6929**
- P1279 Allopurinol Induced Stevens Johnson Syndrome/S.S. Gupta, R.K.S. Patti, H. Desoky, Y. Kupfer, Brooklyn, NY, p.A6930**
- P1280 An Steven Johnson Patient with Pulmonary and Cardiac Involvement/W. Rodriguez, A. Candelario, L. Gonzalez, O.J. Cantres, San Juan, PR, p.A6931**
- P1281 Metformin-Induced Lactic Acidosis in a Patient with End-Stage Renal Disease/M. Alipour, A. Mogla, N. Mesiha, L.N. Gerolemou, Brooklyn, NY, p.A6932**
- P1282 Hepatorenal Syndrome Secondary to Mushroom Poisoning/V.R. Thakkar, D. Harrington, A. Iftikhar, P. Trivedi, A. Adial, J.M. Mann, Flushing, NY, p.A6933**
- Facilitators:** D. Krutsinger, MD, Philadelphia, PA
A. Martinez, MD, Baltimore, MD
- P1283 Severe Hypomagnesemia Associated with Tipifarnib/S. Basyal, M. Bachan, Z. Khan, A. Nugent, D. Acharya, New York, NY, p.A6934**
- P1284 Non-Cocaine Illicit Drug Use Associated with Splenic Rupture/T. Kukkadapu, S. Aribindi, M. Lazaga, T. Dillard, J. Keshavamurthy, Augusta, GA, p.A6935**
- P1285 ST Elevation Myocardial Infarction Due to Carbon Monoxide Toxicity/G. Eisinger, C. Kaide, J.E. Stasek, Columbus, OH, p.A6936**
- P1286 The Perplexing Case of Desquamative Skin Lesions in a Patient Initially Presenting with Volume Overload/K. Poosti, C. Do, M. Elsehety, K. Bermudez, P. Vijnani, K. Boka, Houston, TX, p.A6937**
- P1287 Tagrisso Induced Lung Injury in Non-Small Cell Lung Cancer/A. Iftikhar, A. Adial, M.A. Cheema, H. Singh, P. Trivedi, Flushing, NY, p.A6938**
- P1288 Nivolumab-Induced Third Degree Atrioventricular Block in a Patient with Stage IV Squamous Cell Lung Carcinoma/H. Mezughi, H. Bukamur, E. Kareem, E. Alkhanan, I. Shahoub, Y.R. Shweihat, Huntington, WV, p.A6939**
- P1289 Stevens-Johnson Syndrome: Early Intervention and Interdisciplinary Management in the Intensive Care Unit/N. Nguyen, J. Barrientos, T. Su, G. Barmaimon, A. Rothman, E. Bang, New York, NY, p.A6940**

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

P1290 **A Case of Ziprasidone-Induced Hypersensitivity Pneumonitis: A Previously Unreported Side Effect of an Atypical Antipsychotic/S.** Ashraf, W. Graham, H. Hayreh, Los Angeles, CA, p.A6941

THEMATIC POSTER SESSION

D47 TUBERCULOSIS: CASE REPORTS

9:15 a.m. - 3:30 p.m. **SAN DIEGO CONVENTION CENTER**

Area A (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: C. Yoon, MD, MPH, MSCR, San Francisco, CA

P1 **Rasmussen's Aneurysm: A Forgotten Etiology of Exsanguinating Hemoptysis/K.** Scatliffe, S. Quintiliani, L. Mwamuka, M. Mody, A. Arjuna, H. Seethamraju, P. Patel, Newark, NJ, p.A6942

P2 **Hemoptysis 52 Years Following Plombage Thoracoplasty for Mycobacterium Tuberculosis/V.** Esmero, J. Mehrotra, P. Shah, A.J. Gamino, Chicago, IL, p.A6943

P3 **Tuberculous Tracheobronchial Stricture Treated Successfully with Balloon Dilatation/A.** Wee, A. Verma, J. Venkatachalam, Singapore, Singapore, p.A6944

P4 **Endobronchial Tuberculosis Presenting as Chronic Middle Lobe Atelectasis/P.** Agarwal, S. Jagpal, A.T. Scardella, New Brunswick, NJ, p.A6945

P5 **Pseudotumoral Bronchopulmonary Tuberculosis in an Immunocompetent Young Adult/C.F.E.F.** Koudessi, F.B.R. Mbaye, N.O. Toure Badiane, Dakar, Senegal, p.A6946

P6 **Simultaneous Diagnosis of Active Pulmonary Tuberculosis and B-Cell Non-Hodgkin's Lymphoma with Pleural Involvement/D.P.** Katzman, M.F. Sloane, New York, NY, p.A6947

P7 **Bilateral Chylothorax Secondary to Tuberculosis in a Pregnant Patient: A Case Report/F.M.** da Costa, L.P. Vasconcelos, E.L.C. Lau Rodriguez, E.A.D. Costa, M.T. Cerezoli, Sao Paulo, Brazil, p.A6948

P8 **A Unilateral Pleural Effusion in a Pregnant Woman from Ethiopia/J.** Kim, P. Jackson, Portland, OR, p.A6949

Facilitator: G.W. Eather, MD, Brisbane, Australia

P9 **Diagnostic Dilemma: A Newly Diagnosed Testicular Mass in a Young Male with Known Pulmonary TB/S.** Pourshahid, G. Abrahamian, K. Singh, M. Korotun, R.A. Lopez, Jamaica, NY, p.A6950

P10 **Systemic Tuberculosis in a Patient on Anti-TNF Therapy/P.** Trivedi, A. Magh, A. Adial, Flushing, NY, p.A6951

P11 **Cannonball Pulmonary Nodules: Necrotizing Sarcoid Granulomatosis or Mycobacterium Tuberculosis?/A.** Londono, L. Miyakawa, J. Filopei, New York, NY, p.A6952

P12 **Time Is TB! A Case of CNS Tuberculosis Presenting with Ring Enhancing Lesions/O.** Sinokrot, S. Nair, K. Hena, D. Pradhan, New York, NY, p.A6953

P13 **Miliary Tuberculosis Complicated by Meningitis and Intracranial Tuberculomas in Pregnancy/S.** Tseng, C.R. Dick, J. Seroy, Phoenix, AZ, p.A6954

P14 **Slowly but Surely: A Case of Positive Cerebrospinal Fluid Culture in Tuberculous Meningitis/A.** Mohammed, D. Saul, R. Gueret, Chicago, IL, p.A6955

P15 **Successful Non-Surgical Treatment of Extensive Pott's Disease/C.J.** Van Hook, A. Taylor, B. Warner, C. Cool, S. Talusani, E.J. McManus, A. Nanney, Longmont, CO, p.A6956

Facilitator: K.P. Fennelly, MD, MPH, Bethesda, MD

P16 **Clinical and Public Health Implications and Challenges of XDR-TB Management/N.** Lapinel, N. Subhani, M. Lacassagne, J. Ali, New Orleans, LA, p.A6957

P17 **Transmission of Acquired Rifampin Resistant Tuberculosis Among Three Sisters in Texas/N.** Keaton, A. Vasquez, San Antonio, TX, p.A6958

P18 **BCGitis in a Child with Primary Immunodeficiency, Chronic Granulomatous Disease: A Case Report/C.L.** Grizales, V. Rojas, J.M. Sanchez, L. Fernandez, L.F. Sua Villegas, C.S. Leib, Cali, Colombia, p.A6959

P19 **Isoniazid Induced Fever/C.-C.** Hsu, Y.-T. Huang, S.-E. Tseng, Y.-N. Shih, X. Zhu, Taipei, Taiwan, p.A6960

P20 **Anti-Tuberculosis Treatment Induced Hyperacute Hepatic Encephalopathy in a Young Boy with Tuberculous Pleural Effusion/M.** Mishra, S. Kumar, Rishikesh, India, p.A6961

P21 **Acute Respiratory Failure and Sepsis Due to Multidrug-Resistant Tuberculosis (MDR-TB) in a Pregnant Midwife/C.** Colunche, B. Angeles, M. Maguiña, J. Yachachin, W. Chavez, J. Diaz, R. Accinelli, E. Valdivia, K. Tafur, E. Morello, R. Chancafe, J. Cok, N. Lovaton, O. Gayoso, Lima, Peru, p.A6962

P22 **Endobronchial Mass, 1 Year After Successful Bilateral Lung Transplant/M.** Azar, C. Zhang, D. Roe, C. Hage, Indianapolis, IN, p.A6963

THEMATIC POSTER SESSION

D48 LUNG DEVELOPMENT AND BPD

9:15 a.m. - 3:30 p.m. **SAN DIEGO CONVENTION CENTER**

Area G (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: L.C. Eldredge, MD, PhD, Seattle, WA

P801 **Role of Rac1 in Alveolar Epithelial Cells in Apoptotic Cell Removal During Lung Development/A.** Kadl, A. Desmett, P. Jayaguru, S. Tundup, Charlottesville, VA, p.A6965

- P802** **The Role of Mesenchymal BMP Signaling Pathway in the Lung Development**/Y. Luo, W. Shi, H. Chen, Los Angeles, CA, p.A6966
- P803** **Neonatal Hyperoxia Perturbs Gene Expression in Murine PDGFR-Alpha-Expressing Pulmonary Interstitial Fibroblasts**/S. Dautel, J. Snowball, J.A. Whitsett, A.-K.T. Perl, S.K. Ahlfeld, Seattle, WA, p.A6967
- P804** **Increased Adherence of Immature Type I Alveolar Epithelial Cells to Extracellular Matrix Proteins Is Partially Inhibited by sRAGE**/E. Noh, H.J. Rozycki, Richmond, VA, p.A6968
- P805** **Reduction In MiR-133a/b Expression in Lungs During Hyperoxia Leads to the Development of Pulmonary Hypertension in Neonatal Mice**/T. Chen, Chicago, IL, p.A6969
- P806** **Role of Alternative Splicing in a Murine Model of Neonatal Hyperoxic Lung Injury and Sex-Biased Differences: Implications for Bronchopulmonary Dysplasia**/K. Lingappan, J. Dong, C. Coarfa, Houston, TX, p.A6970
- P807** **Loss of IL-6 Preserves Surfactant Protein Expression and Enables Lung Growth in Newborn Mice Exposed to Prolonged Hyperoxia**/D. Hirani, K. Dinger, B. Darvishan, J. Mohr, C. Vohlen, F. Klein, M. Odenthal, J. Dötsch, M.A. Alejandre Alcazar, Cologne, Germany, p.A6971
- P808** **Gender Specific Response of the Neonatal Lung to Postnatal Injury**/P.S. Oak, M. Koschlig, T. Pritzke, K. Foerster, P. Ahnert, A. Windhorst, T. Reicherzer, H. Ehrhardt, A. Hilgendorff, Munich, Germany, p.A6972
- Facilitator:** D. Al Alam, PhD, MS, Los Angeles, CA
- P809** **Dynamic Regulation of Angiogenic Signaling and Matrix Remodeling in Rat Lungs After Intrauterine Growth Restriction with Catch-Up Growth**/C. Kuiper, K. Dinger, C. Klautd, D.V.B. Hirani, C. Vohlen, E. Lopez Garcia, S. v. Koningsbruggen-Rietschel, J. Dötsch, M.A. Alejandre Alcazar, Cologne, Germany, p.A6973
- P810** **Intratracheal Mesenchymal Stromal Cells-Derived Extracellular Vesicles Significantly Improve Morphological and Biochemical Parameters in an Animal Model of Bronchopulmonary Dysplasia**/P. Zaramella, A. Porzionato, A. Dedja, C. Franzin, D. Guidolin, V. Macchi, R. De Caro, M. Jurga, E. Baraldi, M. Muraca, Padova, Italy, p.A6974
- P811** **Extracellular Vesicles from Bone Marrow Derived Mesenchymal Stromal Cells Induces Angiogenesis in Huvec Through Akt Dependent Enos Signaling**/C. Chetty, G. Swanson, G. Nelson, R.K. Braun, V. Balasubramaniam, Madison, WI, p.A6975
- P812** **A Novel Role for Transforming Growth Factor Beta-Induced (TGFB1) Protein in Promoting Nuclear Factor Kappa-B Mediated Pulmonary Angiogenesis in the Early Alveolar Lung**/M. Liu, S.P. Rao, C. Husted, S. Fu, G. Umbach, C.M. Alvira, Stanford, CA, p.A6976
- P813** **Gestational Intermittent Hypoxia (GIH) Impairs Uterine Artery Function in Pregnant Mice**/M. Badran, S. Golbidi, N. Ayas, I. Laher, Vancouver, Canada, p.A6977
- P814** **The Impact of Gestational Intermittent Hypoxia (GIH) on Endothelial Function of Adult Male Mice Offspring**/M. Badran, S. Golbidi, N. Ayas, I. Laher, Vancouver, Canada, p.A6978
- P815** **Maternal Radiation Exposure: Does It Alter the Long-Term Development of the Pup's Respiratory System**/J. McEvoy, D. Jones, L. Stoa, A.M. Hooker, D.R. Boreham, D.-L. Dixon, J.Y. Wilson, Bedford Park, Australia, p.A6979
- P816** **Host Inflammatory Response to Nasal CPAP in a Rhesus Macaque Model of Respiratory Immaturity**/K. Lund, C.T. McEvoy, M. Davies, K.D. MacDonald, R. Schelonka, R.S. Tepper, E. Spindel, Portland, OR, p.A6980
- Facilitator:** J. Sucre, MD, Nashville, TN
- P817** **Association Between Serum Neurotrophin Levels at Birth and Neurodevelopmental Outcomes at Two Years of Age in the NICU Population**/I.A. Sammour, V. Munjapara, M. Alejandro-Rodriguez, S.L. Simpson, C. LoPiccolo, S. Karnati, S. Worley, F. Rezaee, J. Peterson, G. Piedimonte, Cleveland, OH, p.A6981
- P818** **Serum Neurotrophin Levels at Birth Are Associated with Respiratory Illness in the First Three Years of Life**/I.A. Sammour, V. Munjapara, M. Alejandro-Rodriguez, S.L. Simpson, M.J. Allen, W.L. Spencer, S. Worley, A.S. Tang, F. Rezaee, G. Piedimonte, Cleveland, OH, p.A6982
- P819** **Quantitative MRI Measurements to Detect Pulmonary Hypertension in Bronchopulmonary Dysplasia**/K. Förster, B. Ertl-Wagner, S. Sass, S. Stoecklein, F. Schoeppe, O. Dietrich, A. Pomschar, A. Schulze, C. Huebener, F. Theis, H. Ehrhardt, A. Flemmer, A. Hilgendorff, München, Germany, p.A6983
- P820** **The Natural Course of Hypercarbia Resolution in Premature Infants with Chronic Lung Disease**/L. Rhein, L. Grover, H. White, T. Leahey, N. Marsden, L. Owens, B. Krinsky, J. Levin, Worcester, MA, p.A6984
- P821** **Patterns of Hypercarbia in Preterm Infants**/L. Rhein, M. Clarke, H. White, K. Grindlay, L. Grover, Worcester, MA, p.A6985
- P822** **Characterization of Patients with Bronchopulmonary Dysplasia (BPD) in a University Hospital in Latin America between July 2015 and July 2017**/C.L. Grizales, I.E. Padilla, L. Fernandez, J.M. Sanchez, M. Jaramillo, C.S. Leib, Cali, Colombia, p.A6986
- P823** **Perinatal Nicotine Exposure Along with Early Life Influenza A, 2009 Pandemic H1N1 (Swine Flu) Infection, Leads to Lung Dysfunction in Adulthood**/R. McAllister, E. Torres-Gonzalez, J. Ritzenthaler, G.W. Hoyle, J. Roman, Louisville, KY, p.A6987
- P824** **Mice Deficient in Mesenchymal Gaq/11 Signalling Have Airspace Enlargement and Increased Alveolar Wall Thickness Consistent with Defective Alveolarisation**/A. Goodwin, A. Habgood, A.L. Tatler, N.C. Henderson, S. Offermanns, A.E. John, R.G. Jenkins, Nottingham, United Kingdom, p.A7791
- P825** **Prenatal Smoke Exposure Dysregulates Lung Epithelial Cell Differentiation - Role for the AREG/EGFR Axis**/K. Lkhagvadorj, Z. Zeng, J. Song, M. Reinders-Luingers, W. Kooistra, S. Krauss-Etschmann, J. Cao, M. Hylkema, Groningen, Netherlands, p.A7792

THEMATIC POSTER SESSION

D49 SURFING SAFARI: CASE REPORTS IN PULMONARY VASCULAR MEDICINE II

9:15 a.m. - 3:30 p.m. SAN DIEGO CONVENTION CENTER
Area E (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
 12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: E.R. Swenson, MD, Seattle, WA

- P429 Reversible Pulmonary Hypertension Associated with Uncontrolled Asthma/I.** Oriaku, Z. Safdar, G. Noureddine, Houston, TX, p.A6988
- P430 Seeing the Lungs Through Translucent Skin/S.B.** Church, M. Viseroi, K.M. Stern, Orange, CA, p.A6989
- P431 Uncommon Success with a Common AV Canal/G.** Brayman, M. Eggert, J.M. Sill, Norfolk, VA, p.A6990
- P432 Extracorporeal Membrane Oxygenation, an Effective Therapy for Pulmonary Venous Occlusive Disease and Pulmonary Capillary Hemangiomatosis/S.D.** Bali, Orlando, FL, p.A6991
- P433 An Unusual Manifestation of Hyperthyroidism/P.** Sharma, N. Chandrasekaran, Pittsburgh, PA, p.A6992
- P434 Secondary Hemoptysis to the Arteriovenous Malformation: Anomalous Origin of the Right Pulmonary Artery with Birth of the Aorta, Clinical Case Presentation and Literature Review/J.M.** De La Torre, H. Rodriguez-Bautista, Tlalpan, Mexico, p.A6993
- P435 Onset of Hereditary Pulmonary Arterial Hypertension Provoked by High Altitude/K.M.** Moffitt, J.C. Robinson, Portland, OR, p.A6994
- P436 Right Side Aortic Arch with Aberrant Left Subclavian Artery/M.** Rudrappa, L. Kokatnur, Shreveport, LA, p.A6995
- P437 Congenital Dyserythropoietic Anemia Type II and Chronic Thromboembolic Pulmonary Hypertension/S.** Miyashita, K. Bhatia, T. Maeda, J.A. Kileci, N. Li, H.D. Poor, D. Steiger, New York, NY, p.A6996

Facilitator: S.C. Mathai, MD, MHS, Baltimore, MD

- P438 Giant Pulmonary Artery Aneurysms in a Patient with Pulmonary Arterial Hypertension/J.P.** Sy-Go, N. Ariyoshi, J.R. Go, C. Fiack, Honolulu, HI, p.A6997
- P439 Which Shunt Is the Culprit? A Case of Hepatopulmonary Syndrome/C.** Prohaska, A. Shah, C.J. King, Aurora, CO, p.A6998
- P440 Hereditary Hemorrhagic Telangiectasia and a Recurrent Brain Abscess/M.E.** Rosenthal, S.V. Cherian, R.M. Estrada-Y-Martin, Houston, TX, p.A6999
- P441 Cardiac Tamponade: As a Manifestation of Pulmonary Venous Occlusive Disease (PVOD)/M.** Rives-Sanchez, N. AlQsous, A. Quintos, A. Niroula, A. Salehbeiki, S. Sharma, Philadelphia, PA, p.A7000

- P442 A Rare Cause of Severe Pulmonary Hypertension: Unilateral Pulmonary Artery Agenesis Presenting in an Elderly Female/B.** Graney, K.A. McPherson, T.M. Bull, Aurora, CO, p.A7001
- P443 A Fatal Case of Pulmonary Artery Dissection as a Result of Longstanding Pulmonary Hypertension/L.** DiChiacchio, A. Weichold, K. Rajagopal, K.M. Jones, Baltimore, MD, p.A7002
- P444 A Case of Idiopathic Pulmonary Vein Thrombosis and Peripheral Embolization/C.** Morton, I. Haimi, New Haven, CT, p.A7003
- P445 A CTEPH Mimic: In Situ Clot in Severe Pulmonary Hypertension/A.** Rose, N.H. Kim, La Jolla, CA, p.A7004

Facilitator: T.M. Kolb, MD, PhD, Baltimore, MD

- P446 Successful Catheter Embolization of a Pulmonary Arteriovenous Malformation in a Patient with Hereditary Pulmonary Arterial Hypertension Due to BMPR2 Mutation/J.** D'Amico, J. Pollak, T. Ryan, W.H. Fares, J.A. Wirth, Portland, ME, p.A7005
- P447 High-Altitude Pulmonary Hypertension: A Case of Reversal with Descent/B.A.** Jalil, K. El-Kersh, Louisville, KY, p.A7006
- P448 Hemoptysis from Complex Systemic to Pulmonary Arteriovenous Malformation After Previous Mycobacterium Tuberculosis Infection/B.** Hay, N. Sood, Columbus, OH, p.A7007
- P449 ECMO as a Bridge to Medical Therapy in a Patient with Decompensated Pulmonary Arterial Hypertension/D.L.** Mabe, O.A. Shlobin, S.D. Nathan, A.W. Brown, S. Aryal, C.S. King, Bethesda, MD, p.A7008
- P450 Is Venous Thromboembolism a Risk Factor for Pulmonary Hypertension in Fibrosing Mediastinitis?/M.** Teixeira, A.S. Niven, Rochester, MN, p.A7009
- P451 Pulmonary Capillary Hemangiomatosis with Clinical Improvement on Antiangiogenic Treatment with Doxycycline/H.** Li, S. Kooragayalu, M. Sekosan, R. Lenhardt, Chicago, IL, p.A7010
- P452 A Partial Eclipse of the Heart: A Tale of an Unnecessary Computed Tomography Angiogram (CTA)/N.** Cassell, B.J. McKelvy, Houston, TX, p.A7011
- P453 So It's Not a Pulmonary Embolism? A Rare Case of Cardiac Rosai-Dorfman Disease/M.** Darnell, C. Vahdatpour, L.M. Catalano, Philadelphia, PA, p.A7012

Facilitator: K.A. Fagan, MD, Mobile, AL

- P454 Pulmonary Capillary Hemangiomatosis: A Rare Cause of Pulmonary Hypertension/S.** Palasamudram Shekar, K. Patel, J. Dolan, P. Bejarano, S. Gillenwater, S. Aleyas, Weston, FL, p.A7013
- P455 Pulmonary Arterial Hypertension Presenting as an AIDS Defining Illness/M.D.** Bernens, G. Brayman, M. Hooper, Norfolk, VA, p.A7014
- P456 High Output Heart Failure Associated with Pulmonary AVM-Induced Massive Hemoptysis/B.** Li, J.M. Radbel, New Brunswick, NJ, p.A7015
- P457 A High Pressure Situation: Pulmonary Arterial Hypertension and a Large Pericardial Effusion/M.** Zhang, M. Petersile, N. Ruopp, H.W. Farber, Boston, MA, p.A7016

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- P458 Silicosis-Associated Fibrosing Mediastinitis a Rare Cause of Pulmonary Hypertension**/Y.T. Debella, I. Mira-Avendano, C. Rojas, A. Khoo, M. Kwon, Jacksonville, FL, p.A7017
- P459 Successful Outpatient Transition from Intravenous Treprostinil to Oral Selexipag**/L.M. Kimmig, R. Bag, Chicago, IL, p.A7018
- P460 Severe Pulmonary Artery Hypertension in Pregnancy**/S. Khanal, P. Ghimire, S. Sitaula, J. Sexton, Syracuse, NY, p.A7019
- P461 Significance of Pericardial Effusion in Pulmonary Arterial Hypertension**/A. Vaughn, Y. Segon, A. Rusk, Milwaukee, WI, p.A7020

THEMATIC POSTER SESSION

D50 CLOT ON THE ROCKS: CASE REPORTS OF PE AND CTEPH

9:15 a.m. - 3:30 p.m.

SAN DIEGO CONVENTION CENTER

Area E (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: P. Forfia, MD, Philadelphia, PA

- P463 The Cement that Broke the Camel's Back: A Unique Case of Cement Pulmonary Embolism**/M. Abidali, M. Chopra, R. GarciaOrr, Phoenix, AZ, p.A7021
- P464 Non Thrombotic Pulmonary Embolism Due to Polidocanol Sclerotherapy**/B. Akkok, E. Yazar, Kahramanmaraş, Turkey, p.A7022
- P465 Large Pulmonary Arteriovenous Malformation: Reversible Cause of Hypoxemia**/M. Naddour, M. Hewston, M. Balaan, Pittsburgh, PA, p.A7023
- P466 Tacrolimus and Mycophenolate Mofetil Induced Pulmonary Hypertension in a Kidney Transplant Patient**/S. Rygielski, M. Al-Sarie, T. Said Ahmed, D.-A. Hernandez, Toledo, OH, p.A7024
- P467 Pulmonary Embolism and Diverticular Bleeding: A Missed Diagnosis and Clinical Dilemma**/A. Chowdhury, F. Berenyi, B. Fernandes, Sydney, Australia, p.A7025
- P468 Between a Clot and a Hard Place: Half-Dose TPA in a Post-Operative Patient with a Massive PE**/J. Keen, N. Al Nasrallah, W.G. Carlos, Indianapolis, IN, p.A7026
- P469 Severe Pulmonary Artery Hypertension in the Setting of Isolated Unilaterally Absent Pulmonary Artery**/P. Sharedalal, N. Shah, N. Parikh, Philadelphia, PA, p.A7027
- P470 Rescue Catheter-Directed Thrombolytic Therapy for Massive Pulmonary Embolism After Failed Initial Systemic Thrombolytic Therapy: A Rare Second Chance at Life**/M. Moizuddin, S. Waghchoure, T. Schnell, C.C. Odigwe, A. Gupta, Columbia, SC, p.A7028
- P471 Broken Bones and Pulmonary Stones- A Rare Case of Pulmonary Embolism**/S. Kothari, A. Milas, M. Sunbuli, Oak Lawn, IL, p.A7029

Facilitator: Y.K. Sung, MD, Palo Alto, CA

- P472 Successful Management of Hemodynamically Compromised Acute Pulmonary Embolism with Percutaneous Mechanical Thrombectomy**/S. Prueksaritanond, G. Ogunbayo, J. Gurley, Lexington, KY, p.A7030
- P473 Unusual Presentation of Rare Cervical Mass (Angiolipoma)**/S. Mariappan, S. Subramaniam, Tirunelveli, India, p.A7031
- P474 A Case of a Massive Pulmonary Artery Aneurysm**/A. Al-Aghil, W.J. Chang, R.J. Schilz, Cleveland, OH, p.A7032
- P475 A Right Atrial Mass Presenting with a Split S1 Secondary to a Hypercoagulable State**/H. Smith, J. Forbes, D. Grinnan, Richmond, VA, p.A7033
- P476 Submassive PE: Pulling the TPA Trigger**/K. Chiapaikeo-Poco, I. El Hussein, D. Fischler, New Brunswick, NJ, p.A7034
- P477 Hiding in Plain Sight: The Saddle Pulmonary Embolism**/W. Li, M. Gruca, B.R. Madhira, Syracuse, NY, p.A7035
- P478 Embolization of DVT Following Compression Venous Doppler Ultrasound**/M. Walker, I. Dalal, W. Khan, New Brunswick, NJ, p.A7036
- P479 Acute Massive PE Treated with Low Dose Systemic Thrombolytic Infusion**/I. Barbash, J. Chiarchiaro, F. Shah, W. Joseph, M.D. Weiss, Pittsburgh, PA, p.A7037
- P480 Gone in 4 Days!**/V. Shah, H.M. Belete, P. Yousef, B.A. Mina, New York, NY, p.A7038

Facilitator: V.J. Test, MD, Durham, NC

- P481 Repair with Caution: Diffuse Alveolar Hemorrhage Associated with Mitral Valve Repair**/N. Victor, J. Hettenbaugh, J.D. Dickinson, Omaha, NE, p.A7039
- P482 Successful Treatment of Refractory Massive Pulmonary Embolism with Repeated Administration of Systemic Thrombolysis: A Case Series**/A. Poor, H. Poor, New York, NY, p.A7040
- P483 Inferior Venacava Thrombosis: An Under-Recognized Entity**/S. Joshi, O.A. Chaudhary, D. Savici, D. Manta, Syracuse, NY, p.A7041
- P484 Obstructive Pulmonary Hypertension Caused by Fibrosing Mediastinitis Successfully Treated with Riociguat**/B.V. Martinez, D.R. Fraidenburg, Chicago, IL, p.A7042
- P485 Chronic Thromboembolic Pulmonary Hypertension: The Difficulty in Definitive Diagnosis**/A. Gibbs, L. Lin, Portland, OR, p.A7043
- P486 Weighing the Risks - Evaluation and Treatment for PE in the Super-Obese**/R. Hilton, M. Baskind, B. Hehn, Philadelphia, PA, p.A7044
- P487 Acute Reversible Pulmonary Hypertension: A Rare and Dangerous Complication of Cocaine Use**/T. Kukkadapu, T. Singh, J. Keshavamurthy, S. Taylor, G. Sharma, Augusta, GA, p.A7045
- P488 A Case Report of Surviving Pulmonary Arterial Hypertension in Pregnancy**/M. Botros, C. Daniels, Columbus, OH, p.A7046
- P489 Unexpected Cause of Acute Severe Headache in a Patient on Chronic Rivaroxaban for Chronic Thromboembolic Pulmonary Hypertension**/M.M. Khan, J.M. Elwing, Cincinnati, OH, p.A7047

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

Facilitator: T.M. Bull, MD, Aurora, CO

- P490 Hemoptysis 38 Years After Radiation Therapy for Hodgkin'S Lymphoma: A Rare but Serious Complication/A. Minami, M. Mowafy, S. Al-Adwan, T. Minami, Pawtucket, RI, p.A7048**
- P491 Long-Term Treatment of Pulmonary Arterial Hypertension with Treprostinil in Patient with Eisenmenger and Down Syndromes/Z. Gasior, A. Sikora-Puz, K. Banska-Kisiel, Katowice, Poland, p.A7049**
- P492 A Rare Case of Extremely Large Pulmonary Artery Aneurysm/A. Al Akshar, E. Costanzo, Neptune, NJ, p.A7050**
- P493 PEA Arrest Due to Massive Pulmonary Embolism (PE) with Ensuing Consumptive Coagulopathy: Human Physiology Gone Wrong!/R. Mocerino, T.M. McGarry, V. Kaul, Queens, NY, p.A7051**
- P494 Thrombus in Transit on Transthoracic Echocardiogram with a McConnell Sign/M.F. Khalid, F. Khattak, P. Sankhyan, S. Gaddam, T. Forrest, Johnson City, TN, p.A7052**
- P495 Management of Thrombus-in-Transit in a Young Man with Sickle Cell Disease/M. Zhang, N. Bosch, E.S. Klings, Boston, MA, p.A7053**
- P496 Where Do Broken Catheters Go? A Case of Right Ventricular Embolization/E. Josan, M.F. Khalid, S. Bhogal, S.I. Zaidi, Johnson City, TN, p.A7054**
- P497 Systemic Artery to Pulmonary Artery Fistula Misdiagnosed as Pulmonary Embolism/A. Siddiqui, S. Sahay, J. Gibbs, Houston, TX, p.A7055**

THEMATIC POSTER SESSION

D51 PHYSIOLOGY AND PHYSICAL ACTIVITY IN PULMONARY REHABILITATION

9:15 a.m. - 3:30 p.m. SAN DIEGO CONVENTION CENTER
Area F (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: X. Soler, MD, PhD, San Diego, CA

- P539 Ventilatory and Circulatory Power: Characterization in Patients with Chronic Obstructive Pulmonary Disease (COPD)/X.P. Bocca Ruiz, C. Xavier, Buenos Aires, Argentina, p.A7056**
- P540 Criterion Validity of Hand-Held Dynamometry to Assess Quadriceps Strength in Patients with Lung Disease/C. Burtin, J. De Brandt, M.A. Spruit, Diepenbeek, Belgium, p.A7057**
- P541 Comparison of Calculated and Measured Peak Oxygen Uptake in COPD/M. Tornatore, R.J. Perez, D. Datta, R. Wu, Farmington, CT, p.A7058**
- P542 Age Related Changes in Cardiopulmonary Exercise Test and Exercise Echocardiography of the Pulmonary Circulation in Adolescents/F. Kevin, Y. Motoji, V. Faoro, R. Naeije, Brussels, Belgium, p.A7059**

P543 Relationship Between Oxygen Pulse and COPD Severity/X.P. Bocca Ruiz, C. Xavier, G. Ernst, A. Salvado, Buenos Aires, Argentina, p.A7060

P544 Oxitone 1000: A First FDA Cleared Wrist-Sensor Pulse Oximeter for Continuous Patient Monitoring/A. Guber, G. Epstein Shochet, S. Kohn-Bouzagloul, D. Shitrit, Kfar Saba, Israel, p.A7061

P545 Reentry High Altitude Pulmonary Edema After Chest Trauma/C. Ebert-Santos, Frisco, CO, p.A7062

Facilitator: L. Vanfleteren, MD, PhD, Horn, Netherlands

P546 Eccentric Cycling: A Potential Training Modality in Chronic Disease. A Feasibility Study in Healthy Males/T. Ward, M.R. Lindley, C.E. Bolton, P. Greenhaff, R. Evans, M. Steiner, Loughborough, United Kingdom, p.A7063

P547 Effect of a Respiratory Muscle Training Protocol on Nitrite and Nitrate Levels in Exhaled Breath Condensate/D. Vento, P.E.G. Ferreira, L.A.D. Amaral, A.C.D.C. Ferreira, A.J. Rodrigues, Ribeirao Preto, Brazil, p.A7064

P548 Breathing Patterns Associated with Pursed Lips Breathing - Impact on CO2 Elimination: A Single Breath VCO2 Bench Model/B.L. Tiep, M. Barnett, Monrovia, CA, p.A7065

P549 Depression and Anxiety Are Associated with COPD Patients' Lower Confidence for Increasing Physical Activity but Not with Their Motivation/E.L. Estrada, K. Silva, E. Medina, S. Desai, V.S. Fan, H.Q. Nguyen, Pasadena, CA, p.A7066

P550 Task-Oriented, Self-Reported Physical Activity Correlates with Cross Sectional and Longitudinal Objective Daily Step Count in COPD/E.S. Wan, A. Kantorowski, D. Homsy, R. Kadri, C.R. Richardson, D. Mori, M. Moy, Boston, MA, p.A7067

P551 'Let's Start the Conversation?' - The Perspectives of Health Care Professionals on Physical Activity Prescription for People with COPD/A. Lahham, C. McDonald, A. Burge, A.E. Holland, Melbourne, Australia, p.A7068

P552 Interventions for Promoting Physical Activity in People with Chronic Obstructive Pulmonary Disease (COPD): A Cochrane Systematic Review/A. Burge, N. Cox, M. Abramson, Holland, A.E. Melbourne, Australia, p.A7069

Facilitator: H. Demeyer, PT, MSc, Leuven, Belgium

P553 Daily Physical Activity Is Not Associated with Bone Mineral Density and Body Composition in a Cohort of Veterans with COPD/M. Polak, R.L. Goldstein, A. Kantorowski, E. Garshick, A.A. Lazzari, M.L. Moy, Boston, MA, p.A7070

P554 Daily Physical Activity Among Patients with Chronic Respiratory Diseases/E. Miura, Y. Igarashi, R. Arakawa, E. Nikkuni, D. Kobayashi, M. Tabata, S. Ohkouchi, T. Irokawa, H. Ogawa, H. Kurosawa, Sendai, Japan, p.A7071

P555 Wearables to Coach Physical Activity in Patients with COPD: Validity and Patient's Experience/A. Blondeel, M. Loeckx, F. Rodrigues, W. Janssens, T. Troosters, H. Demeyer, Leuven, Belgium, p.A7072

- P556** **Out-Clinic Pulmonary Rehabilitation on the Basis of Pedometer Intervention to Ameliorate Daily Physical Activity and QOL in Patients with Stable COPD/Y. Sano, R. Matsuoka, Y. Sato, S. Kimura, S. Mihara, H. Kurosawa, Tokyo, Japan, p.A7073**
- P557** **The Trajectory of Physical Activity Following Outpatient Pulmonary Rehabilitation/P. Chandrika, C.L. Rochester, L. Nici, L. Trow, E. Swart, T. Tucker, R.L. ZuWallack, Hartford, CT, p.A7074**
- P558** **Do Plasma Levels of Biomarkers Reflect Muscle Injury in Patients Admitted to the Floors in Acute Care Hospitals?/B.H. Reynolds, E. Martin, A. Williams, B. Akpa, J. Ferris, R.E. Heidel, S. Baveja, R. Dhand, Knoxville, TN, p.A7075**

THEMATIC POSTER SESSION

D52 DECONSTRUCTING TUMORS AND MALIGNANCIES

9:15 a.m. - 3:30 p.m.

SAN DIEGO CONVENTION CENTER

Area D (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: A.A. Zeki, MD, Davis, CA

- P255** **Ambient PM2.5 Exposure Promotes Angiogenesis and Inflammation of Lung Cancer Mediated by Macrophage/R. Li, R. Zhou*, J. Zhang*, Changsha, China, p.A7076**
- P256** **The Accuracy of Microrna-210 in Diagnosing Lung Cancer: A Systematic Review and Meta-Analysis/Y. Huqin, Z. Tong, Beijing, China, p.A7077**
- P257** **Exosome RNA-Seq Analysis to Isolate Lung Cancer Specific Pseudogenes for Liquid Biopsy/X. Liu, R. Kiefl, R.M. Huber, Munich, Germany, p.A7078**
- P258** **Nasal Gene Expression for the Diagnostic Evaluation of Indeterminate Pulmonary Nodules Within the DECAMP Consortium/J. Zhang, E. Billatos, E. Moses, G. Liu, K.A. Steiling, C. Stevenson, M. Lorenzi, J. Sands, T. Sullivan, C. Lamb, B.J. McKee, P. Hesketh, K.R. Christ, M. Lenburg, A. Spira, Boston, MA, p.A7079**
- P259** **An Alteration of CXCR3 Isoforms Regulates the Metastatic Characteristics of Lung Cancer Cells/Y. Wang, N. Ma, H. Li, J. Shi, Y. Jia, J. Xue, X. Liu, J. Yang, Yinchuan, China, p.A7080**
- P260** **Single Cell RNA Sequencing Reveals Bronchial Cell Types that Contribute to Smoking and Lung Cancer Associated Gene Expression Differences/G.E. Duclous, X. Shi, J.D. Campbell, Y. Gesthalter, P. Autissier, Y.M. Dumas, R. Terrano, G. Liu, M. Lenburg, A. Spira, J. Beane, Boston, MA, p.A7081**
- P261** **Targeted DNA Methylation and Inactivation of Endogenous Genes Using CAS9-DNMT3a Fusion Protein; An Update/S.D. Spivack, M. Shi, A. Yan, Y. Peter, M. Levy, W. Han, Bronx, NY, p.A7082**
- P262** **Whole Genome Sequencing of Monozygotic Twins Discordant for Lung Fibrosarcoma Reveals SETD8 as a Tumor Participator That Promotes Faithful DNA Replication/M. Li, H. Liao, C. Zhu, Y. Wu, Y. Wu, X. Geng, Z.-H. Chen, H. Shen, S. Ying, W. Li, Hangzhou, China, p.A7083**
- P263** **Fibronectin Eda Is Essential for Bleomycin-Induced Augmentation of Pulmonary Metastasis in Aging Mice/J. Green well, E. Torres-Gonzalez, J. Ritzenthaler, J. Roman, Louisville, KY, p.A7084**
- P264** **Research of the Expression and Mechanism of CARD9 in NSCLC/H. Zhu, Y. Tan, H. Ge, Shanghai, China, p.A7085**
- P265** **Interactions Between Cystic Fibrosis Transmembrane Conductance Regulator and Wnt/b-Catenin Signaling Alter Lung Cancer Stem Cell Properties/H. Li, N. Ma, Y. Wang, J. Yang, Y. Jia, J. Xue, X. Liu, J. Shi, Yinchuan, China, p.A7086**
- P266** **Genome-Wide RNA-Seq Analyses of O-Glycan Glycosyltransferases for Molecular Prognostic Markers in Non-Small Cell Lung Cancer/S.-Y. Lin, Y.-W. Chen, T.-Y. Yang, Y.-C. Wu, G.A. Oswita, H.-H. Lu, C.-J. Yu, H.-C. Tsai, New Tapei City, Taiwan, p.A7087**
- P267** **Detecting EGFR Mutations from Plasma cfDNA in Lung Adenocarcinoma Patients/M.-S. Hung, J.-H. Lung, Y.-C. Lin, Y.-H. Fang, Y.-H. Tsai, Puzi City, Taiwan, p.A7088**
- Facilitator:** J.L. Koff, MD, New Haven, CT
- P268** **Association of Serum Epidermal Growth Factor Receptor (EGFR) Expression with Treatment Response and Survival in Patients with Advanced Adenocarcinoma Lung/A. Mohan, M. Masroor, A. Ansari, A. Saxena, K. Luthra, D. Jain, R.M. Pandey, R. Kumar, G.C. Khilnani, New Delhi, India, p.A7089**
- P269** **Involvement of Insulin-Like Growth Factor-1 in Receptor Activator of Nuclear Factor Kappa-B Ligand-Targeted Therapy in Mouse Model of Lung Cancer Bone Metastasis/H. Goto, T. Yamago, A. Saijo, H. Ogino, M. Tobiume, K. Otsuka, H. Kozai, H. Yoneda, H. Nokihara, Y. Nishioka, Tokushima, Japan, p.A7090**
- P270** **Genomic Underpinnings of Tumor Behavior in Early Lung Adenocarcinoma/J. Qian, S. Zhao, Y. Zou, S.J. Rahman, T. Stricker, H. Chen, C.A. Powell, A.C. Borczuk, P.P. Massion, Nashville, TN, p.A7091**
- P271** **Administration of Vesicle-Encapsulated Suppressor of Cytokine Signaling 3 Inhibits Lung Epithelial Cell Transformation and Tumor Cell Function/J. Speth, L.R.K. Penke, J. Bazzill, D.A. Arenberg, J.J. Moon, V.G. Keshamouni, V.N. Lama, M. Peters-Golden, Ann Arbor, MI, p.A7092**
- P272** **Bronchial Premalignant Lesions Have Distinct Molecular Subtypes Associated with Future Histologic Progression/J. Beane, S. Mazzilli, A.M. Tassinari, J.D. Campbell, C. Moy, M. Schaffer, C. Perdomo, D. Jenkins, M.B. Pine, G. Liu, S. Zhang, H. Liu, J. Vick, W.E. Johnson, S. Platero, C.S. Stevenson, M.E. Lenburg, M. Reid, S.S. Dhillon, A. Spira, Boston, MA, p.A7093**
- P273** **Fucosyltransferase 4 Enables Cancer Metastasis Via Enhancing TGFBR-Mediated Epithelial-to-Mesenchymal Transition and Is Associated with Poor Prognosis in Non-Small Cell Lung Cancer/H.-H. Lu, Y.-H. Juan, Y.-W. Chen, S.-Y. Lin, H.-H. Hou, R.R. Weng, Z.-C. Hung, Y.-J. Huang, T.-Y. Yang, W. Yi-Chieh, G.A. Oswita, J.-Y. Shih, H.-C. Tsai, C.-J. Yu, Taipei, Taiwan, p.A7094**

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- P274** **Vascular Endothelial Growth Factor Knockdown by Intratracheal Administration of Small-Interfering RNA Dry Powder Inhibits Tumor Growth in a Mouse Lung Metastasis Model/K.** Miwata, Y. Horimasu, T. Masuda, S. Miyamoto, T. Nakashima, H. Iwamoto, K. Fujitaka, H. Hamada, N. Hattori, Hiroshima, Japan, p.A7095
- P275** **High Expression of Integrin Alpha 11 Is Associated with Tumor Progression and Postoperative Recurrence/T.** Ando, H. Kage, K. Maemura, N. Hiyama, T. Sakatani, Y. Amano, K. Watanabe, J. Nakajima, T. Nagase, D. Takai, Tokyo, Japan, p.A7096
- P276** **MiRNA-3670 and miR-8078 Induce the Apoptosis Mediated by SERPINB5 in Lung Cancers/T.** Lee, J. Rye, E.J. Im, J. Park, S.I. Yoon, H.-O. Park, Daejeon, Korea, Republic of, p.A7097
- P277** **Hypoxic Effect of H1975 Lung Adenocarcinoma Cells on Sodium Transport in Human Alveolar Epithelium/E.** Ermis Kaya, M. Meister, A. Warth, H. Mairbaur, Heidelberg, Germany, p.A7098
- P278** **Indolamine-2,3-Dioxygenase in Myeloid-Derived Suppressor Cells Alters Mitochondrial Dynamics and Mediates Metabolic Reprogramming in the Tumor Microenvironment of Lung Cancer/J.** Deshane, K.P. Hough, Y. Wang, S. Tousif, C. Schafer, J. Strenkowski, S. Ponnazhagan, D. Chandrashekar, S. Varambally, V.J. Thannickal, B. Chacko, V. Darley-Usmar, Birmingham, AL, p.A7099
- P279** **Frequency of the Promoter Polymorphism MMP2 -1306 CT in Mestizo Ecuadorian Population: Implications in Lung Cancer Development/A.** Aguirre, Quito, Ecuador, p.A7100
- P280** **The Receptor for Advanced Glycation End Products Enhances Tumor Metastasis to the Lung/E.** Beck, T. Huecksteadt, L. Hubbard, T. Wuren, K.A. Sanders, J.R. Hoidal, Salt Lake City, UT, p.A7101
- Facilitator:** A.A. Balekian, MD, MS, Los Angeles, CA
- P281** **Pulmonary Ewing Sarcoma: A Cytogenetic and Molecular Approach/A.** Canas, C. Montoya, L. Rey, I. Madariaga, A. Herreño, A. Ramirez, D. Troncoso, O. Moreno, A.P. Rojas, Bogota, Colombia, p.A7102
- P282** **Characterization and Pharmacological Intervention of Tumor-Microenvironmental Factors and Cancer Cell Growth in Co-Cultures of Fresh Human Lung Tissue and Patient-Derived, Disseminated Cancer Cells/S.** Konzok, S. Dehmel, C. Werno, P. Braubach, G. Warnecke, P. Zardo, D. Jonigk, B. Polzer, K. Weidele, C. Klein, A. Braun, K. Sewald, Hannover, Germany, p.A7103
- P283** **PD-L1 as a Notential Therapeutic Target for Patients with Advanced or Refractory-to-Rapamycin Pulmonary Lymphangioliomyomatosis (LAM)/V.P.** Krymskaya, Philadelphia, PA, p.A7104
- P284** **Targeted Serum Proteomic Analysis Identifies Novel Biomarkers in LAM/A.M.** Lamattina, A.M. Taveira-DaSilva, H.J. Goldberg, S. Bagwe, Y. Cui, I.O. Rosas, J. Moss, E.P. Henske, S.Y. El-Chemaly, Boston, MA, p.A7105
- P285** **IGF2 as a Potential Novel Therapeutic Target for Rapamycin-Insensitive LAM Patients/K.** Obratsova, S. Hur, R. Rue, J.F. Evans, M. Bartolomei, V.P. Krymskaya, Philadelphia, PA, p.A7106
- P286** **Molecular and Cellular Mechanisms of Pulmonary Langerhans Cell Histiocytosis/H.** Liu, A. Osterburg, J.L. Flury, F.X. McCormack, M.T. Borchers, Cincinnati, OH, p.A7107
- P287** **Src Activation Is Critical for KRAS-Dependent Regulation of Human Airway Basal Cell Differentiation into Secretory and Ciliated Cells/F.** Ogawa, M.S. Walters, R.G. Crystal, New York, NY, p.A7108
- P288** **Translationally Controlled Tumour Protein: A Novel Therapeutic Target for Lymphangioliomyomatosis?/M.** Ho, M.S.H. Ho, D.J. Stewart, Ottawa, Canada, p.A7109
- P289** **Genetic Features of Metastatic Tsc2-Null Cells: Relevance to Pulmonary LAM/K.** Obratsova, R. Rue, E.N. Atochina-Vasserman, C.J. Guo, A. Gow, V.P. Krymskaya, Philadelphia, PA, p.A7110
- P290** **Tuberous Sclerosis and Lymphangioliomyomatosis Are Neurocristopathies/U.J.** Unachukwu, T. Shiomi, J. Sonett, D. Woode, V. Anguiano, M.P. Goldklang, C. Damoci, K. Chada, J.M. D'Armiento, New York, NY, p.A7111
- P291** **Primary Lung Cancer Cell Culture from Samples of Transthoracic Needle Biopsy/M.J.** Fernández Sánchez, A.P. Rojas, A. Cañas, A. Herreño, J.A. Mejía, O.M. Moreno, L. Rey, F.J. Bustos, M. Montecino, Bogotá, Colombia, p.A7793
- P292** **Study on the Molecular Mechanism of RBM5 Reverse the Acquired Resistance to EGFR-TKI/J.** Zhang, Y. Xu, Z. Su, J. Li, Q. Wang, L. Zhang, ChangChun, China, p.A7794
- P293** **PP2A Functions as a Tumor Suppressor in Lung Adenocarcinoma/J.** Zhang, L. Zhang, J. Li, Z. Su, Y. Xu, X. Lv, Changchun District, China, p.A7795

THEMATIC POSTER SESSION

D53 OFF THE BEATEN PATH: NEW APPROACHES TO COPD PATHOGENESIS

9:15 a.m. - 3:30 p.m. **SAN DIEGO CONVENTION CENTER**

Area L (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: E.R. Neptune, MD, Baltimore, MD

P1344 **ATP Binding Cassette (ABC) Transporter Expression in Human Airway Epithelial Cells: A Meta-Analysis of Gene Expression from Bronchial Brushings/J.A.** Hirota, A. Tamminga, J.A. Aguiar, B. Lobb, A. Dvorkin-Gheva, A.C. Doxey, Hamilton, Canada, p.A7112

P1345 **Alpha-1 Antitrypsin Antisense Oligonucleotide Modulates Protease-Antiprotease Imbalance Without Further Aggravating Smoke-Induced Lung Injury/R.** Xiao, K. Stearns, T. Zelonica, M.P. Goldklang, K. Blomenkamp, J. Teckman, J.M. D'Armiento, New York, NY, p.A7113

P1346 **Effect of Vitamin K Antagonists on Ratio Between Vitamin K Status and Rate of Elastinolysis/B.** de Brouwer, J.M.W. van den Ouweland, R. Janssen, Nijmegen, Netherlands, p.A7114

- P1347 Altered Phenotype of Human Lung Mesenchymal Stem Cells in Patients with COPD and IPF/T.** Cruz, A. Lopez Giraldo, G. Noel, S. Casas-Recasens, J. Sellares, Y. Peng, J. Sembrat, N. Cardenes, D. Alvarez, A. Agusti, M. Rojas, R. Faner, Pittsburgh, PA, p.A7115
- P1348 HIV Tat Protein and TGF- β Suppresses CFTR Biogenesis and Activity by Microrna Mediated Gene Silencing/R.K. Dutta, S. Chinnapaiyan, M. Nair, H.J. Unwalla, Miami, FL, p.A7116**
- P1349 Anti-Inflammatory Effects of Long-Acting Beta Agonists on Bronchial Epithelium/N.** Yang, G.K. Singhera, M.P. Pieper, D.R. Dorscheid, D.D. Sin, Vancouver, Canada, p.A7117
- P1350 Decreased SIRT-1 Impairs HIF-1 α Nuclear Translocation in Response to Hypoxia: A Potential Mechanism of Emphysema/M.** To, N. Honda, A. Hitani, I. Kano, K. Ito, K. Haruki, Saitama, Japan, p.A7118
- P1351 FPRs Inhibition Halts Chronic Lung Inflammation and Disease Progression that Follow Smoking Cessation in a Preclinical Model of COPD/G.** DeCunto, B. Bartalesi, E. Cavarra, E. Balzano, G. Lungarella, M. Lucattelli, Siena, Italy, p.A7119
- P1352 Chronic Obstructive Pulmonary Disease Biomarker Research Using the Word Embedding/D.H.** Moon, J. Park, S.S. Han, J. Heo, Y. Hong, Chuncheon-si, Korea, Republic of, p.A7120
- Facilitator:** S.V. Raju, BPharm, PhD, Birmingham, AL
- P1353 Shared Inflammatory Cell Canonical Pathways Activated in Elastase and Cigarette Smoke Induced Mouse Emphysema/COPD Models Identified by Gene Expression Profiling/J.E.** Phillips, X. Zhang, J. Johnston, Thousand Oaks, CA, p.A7121
- P1354 The -352 AT Polymorphism in the Gene that Encodes Interleukin 8 (IL-8) Causes Greater Susceptibility to Developing Chronic Obstructive Pulmonary Disease/V.** Guevara-Velázquez, S. Jodra, M.A. Hernández, J. Ramos, J.M. González, J. Vallejo, R. Usategui, R. González, M. Barrueco, Salamanca, Spain, p.A7122
- P1355 SERPINE1 Variant rs1050955 Is Associated with Plasminogen Activator Inhibitor-1 Levels in a Chronic Obstructive Pulmonary Disease Population/K.A.** Pratte, S.M. Lutz, G.L. Kinney, K.A. Young, M.H. Cho, E.K. Silverman, J.D. Crapo, R.P. Bowler, J.E. Hokanson, Aurora, CO, p.A7123
- P1356 The Organic Cation Transporter Novel 1 (OCTN1) May Be a New Factor in the Development of COPD/C.** Ehrhardt, C.G. Clerkin, S. Nickel, A. Faiz, M.A. Selo, W. Timens, N.H.T. Hacken, M. van den Berge, I.H. Heijink, J.M. Keane, Dublin, Ireland, p.A7124
- P1357 Proteasomal Degradation of Histone Protein Arginine Methyltransferases (PRMT6) Mediated by F-Box Protein FBXW17 Promote Cigarette Smoke Extract Induced Epithelial Cell Death/X.** He, T. Li, L. Chen, H. Zeng, Y. Chen, Changsha, China, p.A7125
- P1358 The Effect of Lung T Regulatory Cell Depletion on Airway Physiology in Elastase Treated Mice/A.** Dabo, W. Ezegbunam, I. Garcia-Arcos, P. Geraghty, R. Foronjy, Brooklyn, NY, p.A7126
- P1359 A Comprehensive Repository of AATD Patient-Specific Induced Pluripotent Stem Cells with Detailed Clinical Phenotyping for Translational Research/A.A.** Wilson, J.E. Kaserman, K.J. Hurley, M. Dodge, M. Higgins, E. Meninno, J.C. Jean, M.F. James, G. Mostoslavsky, D.N. Kotton, Boston, MA, p.A7127
- P1360 A Novel Assay Targeting a Cathepsin G Generated Elastin Neo-Epitope and Its Utility in Chronic Obstructive Pulmonary Disease/N.S.** Gudmann, J.M.B. Sand, A. Danielsen, C. Diefenbach, T. Manon-Jensen, M. Karsdal, D.J. Leeming, Herlev, Denmark, p.A7128
- P1361 Recombinant Alpha-1-Antitrypsin (AAT) ZZ Mutant Among Other Mutants Activity Against Different Serine Proteinase/S.** Kim, Seoul, Korea, Republic of, p.A7129
- Facilitator:** D.L. DeMeo, MD, Boston, MA
- P1362 Proteomic Profiling of Serum Exosomes to Identify Novel Biomarkers for COPD/T.** Koba, Y. Takeda, T. Shiromizu, R. Narumi, Y. Hayama, T. Takimoto, M. Kuroyama, T. Matsuki, H. Kida, T. Tomonaga, A. Kumanogoh, Suita, Japan, p.A7130
- P1363 Lectin Complement Pathway Activation in COPD and Alpha-1 Antitrypsin (A1AT) Deficiency/A.** Mikosz, C.B. Strange, S. Janciauskiene, J. Stolk, P. Braubach, D.D. Jonigk, R. Sandhaus, I. Petrache, K.A. Serban, Denver, CO, p.A7131
- P1364 Inhibition of Calpain Attenuates Airway and Pulmonary Vascular Remodeling in COPD/J.** Zhu, W. Han, Y. Su, Yichang, China, p.A7132
- P1365 Gene Expression Modules and Functionally Enriched Pathways Associated with Fat-Free Mass Index and Weight-Loss in COPD/I.** Arora, J. Morrow, E. Rutten, S. Rennard, R. Casaburi, E. Regan, P. Castaldi, H. Criag Palmer, E.F.M. Wouters, G. Washko, R.P. Bowler, E.K. Silverman, M.-L.N. McDonald, Birmingham, AL, p.A7133
- P1366 Meta-Analysis and Functional Validation of Genes Altered by Corticosteroid Treatment Using a CRISPR-Cas9 Knockout Model/A.** Faiz, M. Wisman, P.S. Hiemstra, W. Timens, P. Woodruff, G.H. Koppelman, S. Christenson, M. Van Den Berge, I.H. Heijink, Groningen, Netherlands, p.A7134
- P1367 Potential Platelet Phospholipid Fatty Acid Biomarkers in Chronic Obstructive Pulmonary Disease and Asthma. A Comparison with Lung Cancer Patients/M.C.** Rodriguez, P. Sanchez, J. Sanchez, Salamanca, Spain, p.A7135
- P1368 Enhanced Nitrosative Stress in the Airways of Patients with Asthma-Chronic Obstructive Pulmonary Disease Overlap/Y.** Kyogoku, H. Sugiura, T. Numakura, T. Ichikawa, M. Yamada, A. Koarai, R. Tanaka, S. Ito, T. Akaike, M. Ichinose, Sendai, Japan, p.A7136
- P1369 Biological Role of FAM13A in Lipopolysaccharide-Induced Inflammatory Response/A.** Tam, M. Obeidat, T.-L. Hackett, D.R. Dorscheid, G.K. Singhera, P.D. Pare, J.C. Hogg, D.C. Nickle, D.D. Sin, Vancouver, Canada, p.A7137

Facilitator: R.F. Foronjy, MD, Brooklyn, NY

- P1370 Exogenous Shh Protein Protects Bone Marrow-Derived Endothelial Progenitor Cells from Decreased Proliferation Induced by Cigarette Smoke Extract/Y. Zhao, A. Zhou, P. Chen, Changsha, Hunan Province, China, p.A7138**
- P1371 Cigarette Smoke Exposure Induces PP2A Translocation in Lung Pulmonary Microvascular Endothelial Cells/W.I. Ezeibunam, R. Foronjy, P. Geraghty, A. Dabo, I. Garcia-Arcos, R. Wadgaonkar, S. Gadhvi, A. Wyman, Brooklyn, NY, p.A7139**
- P1372 Cigarette Smoking Induced Elevated CXCL5/ENA-78 Levels in Bronchoalveolar Lavage Fluid and Plasma of Patients with Chronic Obstructive Pulmonary Disease/J. Chen, T. Wang, L. Dai, F. Wen, Chengdu, China, p.A7140**
- P1373 Hypercapnia Suppresses Protein Anabolism in Skeletal Muscle Via AMPK-Driven Downregulation of Ribosomal Biogenesis/A.A. Jaitovich, T. Korponay, J. Balnis, T. Nguyen, H. Singer, Albany, NY, p.A7141**
- P1374 Azithromycin Restores Cigarette Smoke-Induced HDAC2 Decrease in THP-1 Cells/C. Tan, Y. Wu, L. Xuan, R. Zhao, Q. Hou, H. Wang, Beijing, China, p.A7142**
- P1375 Aberrant Scavenger Receptor Response to Bacterial Phagocytosis in COPD Macrophages/K. Belchamber, P.J. Barnes, L. Donnelly, London, United Kingdom, p.A7143**
- P1376 Cigarette Smoke Condensate Induces the Glycolysis and Pentose Phosphate Pathways in Normal Airway Epithelial Cells/X. Ji, Atlanta, GA, p.A7144**
- P1377 Specific Sphingosine Kinase 1 Inhibitor, SK1-I Attenuates Neutrophil Elastase Induced Airway Inflammation and Goblet Cell Hyperplasia in Mice/T. Akaba, K. Takeyama, S. Ashino, E. Tagaya, M. Kondo, J. Tamaoki, Tokyo, Japan, p.A7145**

Facilitator: A. Srivastava, PhD, Tucson, AZ

- P1378 Interaction Between Exposures to Electronic Cigarette Vapors and Cigarette Smoke: Impacts on Pulmonary Leukocyte Populations and Lung Functions/A. Lechasseur, C.-A. Huppé, J. Routhier, M. Talbot, M. Hamel-Auger, S. Aubin, M.-J. Beaulieu, M.-E. Paré, D. Marsolais, M.C. Morissette, Quebec, Canada, p.A7146**
- P1379 The Changes in Proliferation and Differentiation Potentials of Alveolar Type 2 Cells in Cigarette-Smoke Induced Emphysema in Mice/A. Tsutsumi, M. Ozaki, K. Sakurai, H. Irie, N. Kameyama, S. Chubachi, A.E. Hegab, T. Betsuyaku, Tokyo, Japan, p.A7147**
- P1380 The Altered Abundance of Hydrogen Voltage-Gated Channel 1 (HVCN1) in Neutrophils of Alpha-One Antitrypsin Deficient Patients/P. Hawkins, T. McEnery, A.N. Franciosi, M. White, O.J. McElvaney, N. Lacey, E.P. Reeves, N.G. McElvaney, Dublin, Ireland, p.A7148**
- P1381 Loss of Secretory IgA Causes Pathologic Activation of Adaptive Immunity in a Murine Model of COPD/B.W. Richmond, H. Fuseini, G. Vasiukov, S. Novitskiy, R.-H. Du, D.C. Newcomb, E. Meermeier, M. Hariff, L.B. Ware, T.S. Blackwell, V.V. Polosukhin, Nashville, TN, p.A7149**

- P1382 Peroxisome Proliferator-Activated Receptor γ -Mediated Regulation of Glutathione Peroxidase 3 in COPD/A. Banno, A. Reddy, S. Lakshmi, S. Kim, R.C. Reddy, Pittsburgh, PA, p.A7150**
- P1383 Pharmacological Inhibition of Poly ADP-Ribose Polymerase Ameliorates Elastase Induced Inflammation and Emphysema in Mice/A.S. Naura, V. Dharwal, Chandigarh, India, p.A7151**
- P1384 Whole Exome Sequencing Analysis in Severe Chronic Obstructive Pulmonary Disease/D. Qiao, A. Ameli, A. Sharma, N. Laird, H. Chen, D. Prokopenko, M.M. Parker, A. Kho, T.H. Beaty, J.D. Crapo, K. Barnes, D. Nickerson, M. Bamshad, C.P. Hersh, J. Morrow, B.D. Hobbs, D.A. Lomas, Y. Liu, M. Spitz, A. Agusti, B.J. Make, P.M. Calverley, C.F. Donner, E. Wouters, J. Vestbo, P.D. Pare, R.D. Levy, S.I. Rennard, R. Tal-Singer, C. Lange, E.K. Silverman, M.H. Cho, Boston, MA, p.A7152**
- P1385 The 1392 A>G Polymorphism in the Gene of the Nicotinic Receptor Subunit Alpha 5 (CHRNA5) and Susceptibility to Developing Chronic Obstructive Pulmonary Disease/S. Jodra, V. Guevara-Velázquez, M.A. Hernández, J. Ramos, R. Cordovilla, J. Vallejo, E. Bueno, R. González, M. Barrueco, Salamanca, Spain, p.A7153**
- P1386 Role for Cela1 in Postnatal Lung Remodeling and AAT-Deficient Emphysema/B.M. Varisco, R. Joshi, A. Heinz, Q. Fan, S. Guo, B. Monia, C. Schmelzer, A. Weiss, M. Batie, H. Parameswaran, Cincinnati, OH, p.A7154**

Facilitator: N. Miyahara, MD, PhD, Okayama, Japan

- P1387 Increased Free Desmosine May Be an Early Indicator of Pulmonary Emphysema/J. Cantor, A. Ochoa, S. Ma, X. Liu, Y.Y. Lin, G. Turino, Queens, NY, p.A7155**
- P1388 Targeting Sphingosine-1-Phosphate (S1P) Lyase to Reduce Lung Injury Following Cigarette Smoke Exposure/E. Beatman, K.C. Ni, K. Koike, E.V. Berdyshev, I.A. Bronova, K.S. Schweitzer, I. Petrache, Denver, CO, p.A7156**
- P1389 Lung-Epithelium Damage, Platelet Activation and Initiation of the Wound Healing Cascade in COPD: Assessment of Von Willebrand Activation and Formation Predicts Acute Exacerbations and Mortality/L. Langholm, S. Ronnow, J.M.B. Sand, M.A. Karsdal, R. Tal-Singer, B. Miller, J. Vestbo, D.J. Leeming, T. Manon-Jensen, Herlev, Denmark, p.A7157**
- P1390 Muscarinic Receptor Stimulation Enhances Pathophysiological Phenotypes in Murine Model of COPD/Y. Hamakawa, A. Sato, N. Tanabe, K. Uemasu, K. Hasegawa, T. Mizutani, S. Sato, S. Muro, T. Hirai, Kyoto, Japan, p.A7158**
- P1391 Derivation of a Bronchial Airway Gene Expression Signature Associated with FEV1 Decline/E.J. Becker, A. Faiz, M. van den Berge, W. Timens, P.S. Hiemstra, G. Liu, X. Zhang, Y.O. Alekseyev, G.T. O'Connor, S. Lam, A. Spira, M.E. Lenburg, K.A. Steiling, Boston, MA, p.A7159**
- P1392 Protective Functions of Siglec-E and Siglec-9 and Expression of Their Ligands in Mouse Airway Inflammation and Lung Emphysema/Z. Chen, F. Zhang, H. Tang, R.N. Porell, R.L. Schnaar, T. Kumagai, M. Tiemeyer, B.S. Bochner, L. Zhou, C. Fang, T. Zheng, Z. Zhu, New Haven, CT, p.A7160**

- P1393 Proteomic Profiling Identifies Novel Circulating Markers Associated with Lung Function/D.** Ngo, S. Jacobson, C. Flexeder, H. Petersen, M. Keyes, M. Herzig, A. Manichaikul, E. Oelsner, R.E. Gerszten, C. Gieger, K. Kechris, A.P. Comellas, J.E. John, R.G. Barr, D. Couper, Y. Tesfaigzi, H. Schulz, R.P. Bowler, Boston, MA, p.A7796
- P1394 Histone 3.3 as a Biomarker for COPD Exacerbation/C.A.** Barrero, C. Fecchio, G. Rizzatello, V.O. Olusajo, M.C. Rico, O. Perez-Leal, G.J. Criner, S. Merali, Philadelphia, PA, p.A7797
- P1395 Role of MiR-126 on Lung Endothelial Signaling During CS Exposure/D.** Cao, K. Schweitzer, M.J. Justice, I. Petrache, Denver, CO, p.A7798

THEMATIC POSTER SESSION

D54 INTERPLAY OF DIVERSE CELLULAR AND MOLECULAR PATHWAYS IN ASTHMA AND AIRWAY DISEASE

9:15 a.m. - 3:30 p.m.

SAN DIEGO CONVENTION CENTER

Area L (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: N.M. Weathington, MD, PhD, Pittsburgh, PA

- P1397 DNA Methylation as a Driver of the Neonatal CD4+ T Cell Response to Pneumonia/B.D.** Singer, K. Helmin, S.-Y. Chen, K. Anekalla, R. Ndeh, J. Collaco, F. D'Alessio, S. McGrath-Morrow, Chicago, IL, p.A7161
- P1398 REV-ERB Alpha Augments House Dust Mite Induced Allergic Asthma Via Regulation of Thymic Stromal Lymphopoietin (TSLP)/I.K.** Sundar, M.T. Sellix, S.N. Georas, I. Rahman, Rochester, NY, p.A7162
- P1399 Targeting Sphingosine Kinase 2 to Reverse Airway Smooth Muscle Thickening in Asthma/D.** Marsolais, P. Blais Lecours, Quebec, Canada, p.A7163
- P1400 The Receptor for Advanced Glycation Endproducts Is a Critical Mediator of Type 2 Cytokine Signaling in Mice and Primary Human Cultures/T.N.** Perkins, R.E. Dutz, T.D. Oury, Pittsburgh, PA, p.A7164
- P1401 A Splicing Variant in Gasdermin B (GSDMB) Inhibits Epithelial Cell Pyroptosis and Protects Against Asthma/R.A.M.** Panganiban, M. Sun, A. Dahlin, H.-R. Park, M. Kan, B.E. Himes, J. Mitchel, C. Iribarren, E. Jorgenson, S.H. Randell, E. Israel, K.G. Tantisira, S.A. Shore, J.-A. Park, S.T. Weiss, W. Ann Chen, Q. Lu, Boston, MA, p.A7165
- P1402 The Influence of PDE4D5 on Epac Expression in Asthmatic Airway Smooth Muscle/R.** Alsaffar, M. Gari, J. Rivera-Lopez, A.J. Gardner, Worcester, MA, p.A7166
- P1403 The Role of Asthma Risk Genotypes on Bronchial Epithelial Expression of IL33 and ST2 Following Asthma Relevant Stimulation/M.A.** Portelli, S. Johnson, D. Shaw, C. Brightling, I. Sayers, Nottingham, United Kingdom, p.A7167
- P1404 TNF-Related Weak Inducer of Apoptosis (TWEAK) Is a Predicted Mediator of Fibroblast Activation in Response to Eosinophil-Degranulation and Promotes Myofibroblast Differentiation/N.K.** Sandbo, S. Esnault, A. Tubbs, J. Aoki, Y.A. Bochkov, N.N. Jarjour, J. Leet, K. Bernau, Madison, WI, p.A7168
- P1405 Oxidative Damage Abolishes the Ability of SP-D to Block Eosinophil Extracellular DNA Trap Release During Exacerbation of Allergic Airway Inflammation/S.** Yousefi, S.K. Sharma, C.H. Flayer, D. Stojkov, M.Q. Ge, N. Germic, S. Aeschlimann, E. Larson, C.J. Koziol-White, H.-U. Simon, A. Haczku, Bern, Switzerland, p.A7169
- Facilitator:** X. Sun, PhD, San Diego, CA
- P1406 Predictors of Human Rhinovirus (HRV) Induced Asthma Disease: Clinical, Cellular and Biomarker Predictors at Baseline and Change Post Infection in the Human Challenge Model/A.** Mann, M.A. Ghebre, C.T. Poll, J. Efthimiou, London, United Kingdom, p.A7170
- P1407 Effect of Steroids and Long-Acting-Beta Agonist on IL-17F Induced IL-6 and IL-8 Expression/M.** Nakajima, M. Kawaguchi, M. Matsuyama, K. Yoshida, K. Ota, J. Fujita, S. Matsukura, S.-K. Huang, Y. Morishima, Y. Ishii, H. Satoh, T. Sakamoto, N. Hizawa, Tsukuba, Japan, p.A7171
- P1408 The Indacaterol-Regulated Transcriptome in Human Airway Epithelial Cells Implicates Complex Gene Expression Changes in the Mechanism of Action of β_2 -Adrenoceptor Agonists/D.** Yan, O. Hamed, T. Joshi, M. Mostafa, K.C. Jamieson, R. Newton, M. Giembycz, Calgary, Canada, p.A7172
- P1409 Mapping Spatial Distributions of cAMP Signals in Human Airway Smooth Muscle Cells/T.C.** Rich, N. Annamdevula, A. Britain, A. Westbrook, D.A. Deshpande, R.B. Penn, S.J. Leavesley, Mobile, AL, p.A7173
- P1410 The Effect of Corticosteroids and Long-Acting β_2 Agonists on Airway Epithelial Barrier Dysfunction Induced by Cigarette Smoke and Incense Smoke/M.** Tatsuta, Y. Ishii, K. Kan-o, K. Matsumoto, A. Enokizu, A. Fujita, K. Tamura, S. Fukuyama, Y. Nakanishi, Fukuoka, Japan, p.A7174
- P1411 In Vitro Effects of Glucagon-Like Peptide 1 on Human Bronchial Epithelial and Smooth Muscle Cells/D.-V.** Nguyen, G.R. Reddy, A.L. Linderholm, Y.K. Xiang, N.J. Kenyon, Sacramento, CA, p.A7175
- P1412 Effects of Commonly Used Asthma Medications on Virally-Induced Epithelial Barrier Dysfunction: Budesonide Restores Barrier Integrity/C.** Rimmer, S. Hetelekides, J. Veazey, T. Smyth, S.N. Georas, T. Chapman, Rochester, NY, p.A7176
- P1413 Interleukin 17a Induces Corticosteroid Insensitivity in Bronchial Epithelial Cells from Severe Neutrophilic Asthmatic Patients/N.** Dauletbaev, R. Hamed, A.L. Panariti, J.G. Martin, C. Fugere, R. Olivenstein, L.C. Lands, Montreal, Canada, p.A7177

Facilitator: S. Cassel, MD, West Hollywood, CA

- P1414** **The Role of Beta-Catenin/CREB Binding Protein (CBP) - Dependent Signalling in Airway Epithelial Barrier Function and CCL20 Release/V.N.S. Kuchibhotla, D.A. Knight, M.C. Nawijn, I.H. Heijink, Groningen, Netherlands, p.A7178**
- P1415** **Inter-Individual Differences in Airway Epithelial Cell Responses to IL-13, a Key Cytokine in Type 2-High Asthma/K.D. Koh, L.R. Bonser, W.L. Eckalbar, J.L. Pollack, L.T. Zlock, N.R. Bhakta, W.E. Finkbeiner, P.G. Woodruff, D.J. Erle, San Francisco, CA, p.A7179**
- P1416** **Effects of Steroids in Cultured Human Type-2 Cytokine Producing Cells/J. Luo, S. Go, L. Stöger, C. Hardman, M. Salimi, R. Shrimanker, G. Hynes, O. Wang, G. Ogg, I.D. Pavord, L. Xue, Oxford, United Kingdom, p.A7180**
- P1417** **Mapping Human Airway Smooth Muscle Cell Transcriptional and Epigenetic Responses to Asthma-Promoting Cytokines Reveals Enrichments for Asthma-Associated SNPs/E. Thompson, Q. Dang, B. Mitchell-Handley, K. Rajendran, S. Ram-Mohan, J. Solway, R. Krishnan, C. Ober, Chicago, IL, p.A7181**
- P1418** **Transcriptional and Epigenetic Regulation of Pathogenic CD8+ T Cells in Asthma/M. Schedel, Y. Jia, L. Harmacek, S. Leach, S. Michel, K. Takeda, F. Ning, A. Joetham, B.P. O'Connor, E.W. Gelfand, Denver, CO, p.A7182**
- P1419** **Variants of NFE2L2 Associated with Susceptibility to Asthma/M. Zhang, J.-Q. He, Chengdu, China, p.A7183**
- P1420** **The Genomic Response To Corticosteroids In Airway Smooth Muscle/W. Eckalbar, S. Oh, A.C. Mak, M. White, M.A. Seibold, E.G. Burchard, N. Ahituv, San Francisco, CA, p.A7184**
- P1421** **Establishing a Primary Epithelial Cell Model to Investigate the Role of MicroRNAs in IL-13-Mediated Mucus Regulation Using Non-Lentiviral Delivery of CRISPR/Cas9/S. Siddiqui, L.R. Bonser, O. Le Tonqueze, T.L. Roth, K.D. Koh, W. Zhao, L. Zlock, A. Marson, W.E. Finkbeiner, P.G. Woodruff, D.J. Erle, San Francisco, CA, p.A7185**

Facilitator: S.V. Raju, BPharm, PhD, Birmingham, AL

- P1422** **Defect in Translational Control Leads to Hyperresponsive Bronchial Epithelial Cells in Asthma Patients/A. Ravi, S. Chowdhury, A. Dijkhuis, P.J. Sterk, R. Lutter, Amsterdam, Netherlands, p.A7186**
- P1423** **Efficacy of Mucolytic Treatment in Decreasing Airway Resistance and Increasing Mucus Clearance in a Mouse Model of Allergic Asthma/L. Morgan, D. Raclawska, C.M. Evans, Aurora, CO, p.A7187**
- P1424** **NLR4 Gene Variants Are Associated with mRNA Expression Levels in Children Having an Asthma Exacerbation/L. Harris, L. Coleman, K. Khoo, J. Bizzantino, K.M. Franks, F. Prastanti, S. Oo, C. McCrae, L. Oberg, M.L. Borland, R.A. Maciewicz, P.N. Le Souef, I.A. Laing, Perth, Australia, p.A7188**
- P1425** **Intrinsic Inflammatory and Innate Immune Gene Profiling in Pediatric Asthmatic Airway Epithelium/S. Naime, J.H. Jackson, G. Perez, G.R. Nino, D.K. Pillai, Washington, DC, p.A7189**

- P1426** **Adipocyte-Derived Exosomes Modulate Expression of Genes in TGF- β Pathway Differently in Asthmatic Compared to Normal Fibroblasts/K. Authelet, B. Harmon, S. Epstein, M. Goldberg, S. Ghose, C. Hoptay, M. Barberio, E. Nadler, J.L. Ingram, R.J. Freishtat, Washington, DC, p.A7190**
- P1427** **Secreted Galectin-7 Induced Bronchial Epithelial Cell MtDNA Damage and Apoptosis/J. Tian, Y.S. Zhao, M. Song, Beijing, China, p.A7191**
- P1428** **The Proteome of Airway Epithelial Mucus and Apical Secretions is Altered by IL-13 Stimulation and Results in Changes to Ciliary Beat Dynamics/J.L. Everman, L. Ringel, M. Chioccioli, R. Powell, C. Cruickshank-Quinn, C. Rios, N. Jackson, L. Feriani, M. Armstrong, J. Gomez, X. Zhang, H.W. Chu, P. Cicuta, N. Reisdorph, M.A. Seibold, Denver, CO, p.A7192**
- P1429** **Adipose-Tissue Secretome Induces Bronchial Smooth Muscle Cell Proliferation Via an IL-6/FoxO1 Dependent Mechanism in Offspring of Obese Mice/K. Dinger, J. Mohr, V. Jentgen, D.V.B. Hirani, C. Vohlen, S.S. Pullamsetti, J. Dötsch, M. Odenthal, M.A. Alejandro Alcazar, Cologne, Germany, p.A7193**

Facilitator: N.K. Sandbo, MD, Madison, WI

- P1430** **Deficiency of TNF α Impairs Alveolar and Bronchial Development but Does Not Attenuate Asthma-Like Disease in Offspring of Obese Dams/K. Dinger, R. Schwind, V. Jentgen, J. Mohr, D.V.B. Hirani, C. Vohlen, J. Dötsch, M. Odenthal, S. van Koningsbruggen-Rietschel, M.A. Alejandro Alcazar, Cologne, Germany, p.A7194**
- P1431** **Eicosapentaenoic Acid Potentiates the Effects of Bone Marrow-Derived Mesenchymal Stromal Cell Therapy in Experimental Allergic Asthma/S. Abreu, M. Pacheco, D. Xisto, A.L. Silva, J.Z. Kitoko, T.B. de Oliveira, N. Amorim, V. Martins, C. Gonçalves-de-Albuquerque, H.C. Faria-Neto, P.C. Olsen, M. Morales, D.J. Weiss, B.L. Diaz, P.R.M. Rocco, Rio de Janeiro, Brazil, p.A7195**
- P1432** **Urinary Metabolomics-Based Sub-Phenotyping of the Large-Scale Multi-Omics U-BIOPRED Asthma Cohort Identified Tryptophan Dysregulation Associated with Asthma Severity/C. Wheelock, S. Naz, S. Reinke, H. Olsson, A. Lundqvist, R. Chaleckis, J. Kolmert, J. Schofield, P. Skipp, J. Bigler, M. Loza, F. Baribaud, P. Bakke, M. Caruso, P. Chanez, S.J. Fowler, I. Horvath, N. Krug, P. Montuschi, M. Sanak, T. Sandstrom, D. Shaw, B.U. Dahlen, K.F. Chung, R. Djukanovic, F. Singer, A. Sousa, A. Bansal, P.J. Sterk, S.-E. Dahlen, Stockholm, Sweden, p.A7196**
- P1433** **IL-6 Trans-Signaling Defines a New Asthma Phenotype Associated with Frequent Exacerbations, Increased Airway Inflammation and Impaired Epithelial Integrity/H. Olsson, Z. Jevnikar, J. Ostling, E. Ax, K. Thorn, L. Oberg, M. Van Geest, O. Vaarala, A. Singhania, A. James, S. Wilson, T.S.C. Hinks, P.H. Howarth, Mölndal, Sweden, p.A7197**
- P1434** **Nasal Cytokine Patterns in Patients with Asthma/T. Bahmer, H. Watz, F. Pedersen, A.-M. Kirsten, B. Waschki, E. Von Mutius, G. Hansen, M.V. Kopp, K.F. Rabe, O. Fuchs, M. Weckmann, I.R. Koenig, D. Thiele, A. Chaker, C.A. Jackwerth, C.B. Schmidt-Weber, U.M. Zissler, Grosshansdorf, Germany, p.A7198**

P1435 Novel Proteins Secreted by the Airway Epithelium with IL-13 Stimulation Function as Blood Biomarkers of Type 2-High Asthma in Children/J.L. Everman, L. Ringel, R. Powell, C. Cruickshank-Quinn, C. Rios, C. Eng, N. Jackson, M. Armstrong, J. Gomez, C. Michel, X. Zhang, V.I. Medina, S. Oh, J. Rodriguez-Santana, H.W. Chu, E.G. Burchard, N. Reisdorph, M.A. Seibold, Denver, CO, p.A7199

P1436 Investigation of Dipeptidyl-Peptidase IV Function in Airway Epithelial Type 2 Inflammation/A.M. Stoner, S. Sajuthi, J.L. Everman, C. Rios, M.T. Montgomery, C. Eng, E.G. Burchard, M.A. Seibold, Denver, CO, p.A7200

P1437 Impact of CDHR3 Asthma-Linked Genotype on Differentiation of Primary Airway Epithelial Cells In Vitro/S. Basnet, Madison, WI, p.A7201

Facilitator: K. Takahashi, MD, Saga City, Japan

P1438 Photorelaxation of Distal Airway Smooth Muscle/P.D. Yim, A. Wu, J. Perez, C.W. Emala, Englewood Cliffs, NJ, p.A7202

P1439 S-Nitrosoglutathione Reductase Inhibitor Blockade of Rhinovirus A16 Replication by Targeting ICAM-1/Z. Yang, Y.A. Bochkov, D.R. Voelker, M.W. Foster, L.G. Que, Durham, NC, p.A7203

P1440 Modulation of the Notch Pathway in Adult Mouse Airways by Antisense Oligonucleotides/M. Carrer, J.R. Crosby, K.E. Shannon, S.S. Damle, S.G. Kuntz, B.P. Monia, C.E. Hart, T.R. Grossman, Carlsbad, CA, p.A7204

P1441 Gene Enrichment Evaluation of Glucocorticoid Pathways for a Role in Hyperglycemia/L. Brenner, L. Chen, J. Mercader, J. Florez, Boston, MA, p.A7205

P1442 Bile Acids Alter the Contractile Responses of Distal Airways to Bronchoconstrictors/A. Urso, F. D'Ovidio, C.W. Emala, N.W. Bunnett, J.F. Perez-Zoghbi, New York, NY, p.A7206

P1443 Understanding the Asthma and COPD Overlap (ACO): Comparison of Asthma-ACO and COPD-ACO Cohorts/K. Sun, J. Riley, S. Pavlidis, P.-P. Hekking, P.J. Sterk, I.M. Adcock, K.F. Chung, Y. Guo, London, United Kingdom, p.A7207

P1444 Pyroptosis Is a Novel Mechanism of IL-33 Release from Airway Epithelial Cells/O. Bernard, M.E. Lachowicz-Scroggins, L. Sharp, E.D. Gordon, San Francisco, CA, p.A7799

P1445 Eosinophil Degranulation Products Drive a Pro-Inflammatory Fibroblast Phenotype/K. Bernau, J.P. Leet, S. Esnault, A.L. Noll, M.D. Evans, N.N. Jarjour, N.K. Sandbo, Madison, WI, p.A7800

Facilitator: D.W. Kaczka, MD, PhD, Iowa City, IA

P1292 High-Resolution Hyperpolarized Xenon-129 Lung Imaging in Free-Breathing Mice/L. Loza, M. Pourfathi, S. Kadlecsek, H. Hamedani, K. Ruppert, S. Siddiqui, F. Amzajerdian, I. Duncan, R.R. Rizi, Philadelphia, PA, p.A7208

P1293 Comparison of Indicator-Based Electrical Impedance Tomography with Positron Emission Tomography for Measurements of Relative Lung Perfusion in Pigs/A. Braune, M. Kircher, T. Bluth, T. Kiss, C. Bozsak, R. Huhle, M. Scharffenberg, M. Herzog, J. Roegner, L. Vivona, M. Millone, O. Doessel, M. Andreeff, T. Koch, J. Kotzerke, B. Stender, M. Gama de Abreu, Dresden, Germany, p.A7209

P1294 Feasibility of Electric Impedance Tomography Based Peep-Titration in Non-Obese Patients During Anesthesia/S. Schulz, P. Simon, G. Hempel, F. Girrbaach, M. Lange, A. Beda, J.-U. Stolzenburg, H. Wrigge, Leipzig, Germany, p.A7210

P1295 Assessing Acute Lung Injury Using Hyperpolarized Xenon-129 MRI/K. Ruppert, H. Hamedani, A. Faraz, L. Loza, Y. Xin, I.F. Duncan, H. Profka, S. Siddiqui, M. Pourfathi, S. Kadlecsek, R.R. Rizi, Philadelphia, PA, p.A7211

P1296 Rapid Shallow Breathing Index and Its Components in Predicting Extubation Outcomes/F. Kukhon, A. Chahin, F.D. McCool, Pawtucket, RI, p.A7212

P1297 Multiple Transients of Local Gas Redistribution During Spontaneous Breathing Are Influenced by Ventilatory Settings/G. Perchiazzi, M. Pellegrini, G. Hedenstierna, A. Roneus, A.S. Larsson, Uppsala, Sweden, p.A7213

P1298 Effects of Individualized PEEP-Adjustment in Non-Obese Patients Undergoing Laparoscopic Prostatectomy/S. Schulz, P. Simon, G. Hempel, F. Girrbaach, M. Lange, A. Beda, J.-U. Stolzenburg, H. Wrigge, Leipzig, Germany, p.A7214

P1299 Comparison of the Three Systems of a High-Flow Nasal Cannula in Health Volunteers/M. Okuda, N. Tanaka, Hirakata, Japan, p.A7215

P1300 Intraoperative Variable Ventilation Does Not Improve Postoperative Pulmonary Function in Patients Undergoing Open Abdominal Surgery/M. Scharffenberg, P.M. Spieth, A. Guldner, C. Uhlig, T. Bluth, T. Kiss, C. Conrad, K. Bischlager, A. Braune, R. Huhle, A. Insorsi, F. Tarantino, L. Ball, M.J. Schultz, N. Abolmaali, T. Koch, P. Pelosi, M. Gama de Abreu, Dresden, Germany, p.A7216

P1301 Safety and Efficacy of High Flow Nasal Cannula Oxygen Therapy in Acute Hypercapnic Respiratory Failure: A Pilot Study/J. Stoeber, T. Mathews, C. Nguyen, A. Thakkar, V. Santibanez, N. Garg, D. Pan, M. Collazo, J.P. Mathew, E. Eden, New York, NY, p.A7217

P1302 Patients with Sickle Cell Disease Taking Angiotensin Converting Enzyme Inhibitors or Angiotensin II Receptor Blockers Have Lower Readmission Rates for Acute Chest Syndrome/N. Wamkphah, G.A. Salzman, A. Shrestha, S. Simon, S. Sahil, St. Louis, MO, p.A7218

P1303 Longitudinal Changes in Pulmonary Function in Sickle Cell Disease/M.F. Farooq, N.K. Burki, U. Nasir, Farmington, CT, p.A7219

THEMATIC POSTER SESSION

D55 ACUTE LUNG INJURY AND MECHANICAL VENTILATION: MODELS AND MECHANISM

9:15 a.m. - 3:30 p.m. SAN DIEGO CONVENTION CENTER

Area K (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

Facilitator: L.K. Rogers, PhD, Columbus, OH

- P1304** **The Hsp90 Inhibitor, AUY-922 Reduces Pulmonary Fibrosis and Airway Dysfunction in Mice Exposed to HCl/J.D. Catravas, N. Barabutis, C. Dimitropoulou, Norfolk, VA, p.A7220**
- P1305** **Intravascular Delivery of Purified Human Focal Adhesion Kinase Protects Against Infection-Induced Acute Lung Injury/S.K. Quadri, S. Das, M.N. Islam, G.A. Gusarova, M. Wei, S. Bhattacharya, J. Bhattacharya, New York, NY, p.A7221**
- P1306** **Delivery Matters: A Biochemical Analysis of the Effects of Nebulized Plasminogen Activators on Smoke Induced Acute Lung Injury in Sheep/G. Florova, K. Koenig, K. Sarva, P. Enkhbaatar, S. Fukuda, C. Nelson, M.R. Wolfson, T.H. Shaffer, R.O. Williams, III, S. Hengasawas Surasarang, S. Sahakijijarn, S. Idell, A. Komissarov, Tyler, TX, p.A7222**
- P1307** **Improvement of Surfactant Activity by Hypothermia in Asphyxiated Neonates with or Without Meconium Aspiration Syndrome/C. Autilio, M. Echaide, D. De Luca, J. Perez-Gil, Madrid, Spain, p.A7223**
- P1308** **Airway Mucosal Injury Due to Trauma from Closed Suction Catheter System in Mechanically Ventilated Patients: Findings on Autopsy/S. Durrett, K. Kelly, V. Maddipati, Greenville, NC, p.A7224**
- P1309** **Acinar Vessels Are More Compressible than the Vessels that Supply Them/R.L. Conhaim, K.E. Watson, G.S. Segal, Middleton, WI, p.A7225**
- P1310** **A Novel Therapy to Reverse Fentanyl's Respiratory Side Effects Without Affecting Common Opioid Pain Therapy by Using Calabadiol/T. Thevathasan, M.R. Gill, O. Akeju, S. Ganapati, F.T. Scheffenbichler, S.L. Murkli, M.I. Rudolph, J.D. Boghosian, D. Diaz, P. Rostin, L. Isaacs, J. Cotten, M. Eikermann, Boston, MA, p.A7226**

Facilitator: B.J. Smith, PhD, Aurora, CO

- P1311** **Mitochondrial DNA Variation Regulates Susceptibility to Hyperoxic Lung Injury/J. Kandasamy, G. Rezonzew, S. Ballinger, N. Ambalavanan, Birmingham, AL, p.A7801**
- P1312** **Time-Varying Regional Aeration and Strain in the Acutely Injured Lung Assessed with 4-D CT Image Registration/J. Herrmann, W. Shao, J.M. Reinhardt, E.A. Hoffman, G.E. Christensen, D.W. Kaczka, Iowa City, IA, p.A7227**
- P1313** **Whole-Body Imaging of Hyperpolarized ¹²⁹Xe Distribution and Uptake in a Rat Model/H. Hamedani, S. Kadlecsek, K. Ruppert, Y. Xin, F. Amzajerdian, M. Cereda, M. Pourfathi, S. Siddiqui, L. Loza, S. Chatterjee, R.R. Rizi, Philadelphia, PA, p.A7228**
- P1314** **Quantitative Imaging of Regional Lung Stretch Using Hyperpolarized Xenon MRI/Y. Xin, M. Cereda, H. Hamedani, F. Amzajerdian, S. Siddiqui, M. Pourfathi, I. Duncan, L. Loza, S. Na, R. Baron, A. Roberts, J. Ehrich, H. Profka, K. Ruppert, S. Kadlecsek, R.R. Rizi, Philadelphia, PA, p.A7229**
- P1315** **Calcium Oscillations in Human Pulmonary Artery Smooth Muscle Cells: Developing a Hierarchical Clustering Method for Analysis and the Effects of IL-1b/D.S. Tabari, K.G. Griffis, E.H. Kim, M. Sheppard, S. Alamro, A. Garfinkel, H.D. Jones, Los Angeles, CA, p.A7230**

- P1316** **Revisiting Atelectasis on 100% O₂ in Lung Units with Low Ventilation/Perfusion Ratios/J.P. Butler, A. Malhotra, S.H. Loring, Boston, MA, p.A7231**
- P1317** **Respiratory Mechanics and Extubation Outcomes in Mechanically Ventilated Patients: A Descriptive Analysis/F. Kukhon, A. Chahin, F.D. McCool, Pawtucket, RI, p.A7232**
- P1318** **Chest Wall Elastance During Passive Mechanical Ventilation: An Alternative Hypothesis/G. Hedenstierna, S. Lundin, A. Pesenti, D. Chiumello, A.S. Larsson, O. Stenqvist, Uppsala, Sweden, p.A7233**
- P1319** **Changes in Pulmonary Gas Transport As A Function Of PEEP/K. Ruppert, H. Hamedani, F. Amzajerdian, L. Loza, Y. Xin, I.F. Duncan, H. Profka, S. Siddiqui, M. Pourfathi, S. Kadlecsek, R.R. Rizi, Philadelphia, PA, p.A7234**
- P1320** **Individualized PEEP-Adjustment in Obese and Non-Obese Patients Undergoing Laparoscopic Abdominal Surgery/P. Simon, S. Schulz, G. Hempel, C. Nestsler, F. Girrbach, S. Hammermüller, M. Lange, A. Beda, A.W. Reske, H. Wrigge, Leipzig, Germany, p.A7235**
- P1321** **Pneumonitis Profiles Following Anti-PD-1 Versus Anti-PD-L1 Immune Checkpoint Inhibitor Therapies in Non-Small Cell Lung Cancer: A Single Center Analysis/V.R. Shannon, Houston, TX, p.A7236**

THEMATIC POSTER SESSION

D56 WHAT'S NEW IN LUNG INFECTION: BACTERIAL, VIRAL, AND FUNGAL

9:15 a.m. - 3:30 p.m.

SAN DIEGO CONVENTION CENTER

Area A (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: E.T. Osei, PhD, Vancouver, Canada

- P24** **The State of Lipid Metabolism in Exacerbation of Chronic Simple Bronchitis, Induced by Reactivation of Chronic Cytomegalovirus Infection in Pregnant Women/I.N. Gorikov, L.G. Nakhamchen, V.P. Kolosov, N.A. Ishutina, I.A. Andrievskaya, Blagoveshchensk, Russian Federation, p.A7237**
- P25** **Cardiorespiratory Alterations in an Ovine Neonatal Model of Bacterial Infection/S. Nault, A. Levasseur, C. Nadeau, N. Samson, P. Pladys, J.-P. Praud, Sherbrooke, Canada, p.A7238**
- P26** **Key Role for TLR2 in Bacterial Activation of Airway Sensory Nerves/M.A. Wortley, J.J. Adcock, E.D. Dubuis, S.J. Bonvini, M.A. Birrell, M.G. Belvisi, London, United Kingdom, p.A7239**
- P27** **Airway Surface Liquid Antimicrobial Activity Follows a Seasonal Pattern/L.G. Vargas Buonfiglio, O.G. Vanegas Calderon, A.K. Gerke, P. Polgreen, J. Zabner, A.P. Comellas, Iowa City, IA, p.A7240**

- P28 HIV infection and Smoking: Functional PET Imaging to Determine Early Pulmonary Perfusion Changes in Individuals Susceptible to COPD/P.** Kohli, T. Winkler, M. Kone, V.J. Kelly, K. Hibbert, C. Bjorn, J.L. Cho, D. Kwon, B.D. Medoff, R.S. Harris, Boston, MA, p.A7241
- Facilitator:** K. Yatera, MD, Kitakyushu, Japan
- P29 IRF-7 Modulates RIG-I and Antiviral Responses Through Direct Regulation of Interferon Induction During Influenza Infection in Human Airway Epithelia/W.** Wu, W. Zhang, L. Tian, J.P. Metcalf, Oklahoma City, OK, p.A7242
- P30 Empyema Necessitans in the Modern Era: Systematic Review/D.S.** Kumar, D. Han, B. Quon, Vancouver, Canada, p.A7243
- P31 The State of Immune Protection During Exacerbation of Chronic Simple Bronchitis, Caused by the Reactivation of Chronic Cytomegalovirus Infection in Women in the Second Trimester of Pregnancy/I.N.** Gorikov, V.P. Kolosov, L.G. Nakhamchen, N.A. Ishutina, I.A. Andrievskaya, Blagoveshchensk, Russian Federation, p.A7244
- P32 Mucoobstructive Lung Disease in the Era of Antiretroviral Therapy - A One-Two Blow of Tobacco Smoke Exposure and HIV Infection/H.S.** Chand, R. Vazquez Guillamet, S.P. Singh, S.S. Hussain, K. Rudolph, C.M. Royer, N.C. Mishra, E.G. Barrett, S.E. Callen, M. Nair, S. Buch, M.L. Sopori, Miami, FL, p.A7245
- P33 The Analyses of Immunoglobulin Crystal Formation at Lung in Crystal Storing Histiosytosis and Crystalglobulinemia Syndrome/N.** Kokuho, Y. Terasaki, K. Yusuke, S. Kunugi, M. Terasaki, Y. Takada, A. Gemma, A. Shimizu, Tokyo, Japan, p.A7246

THEMATIC POSTER SESSION

D57 LUNG TRANSPLANT: CELLULAR AND PHYSIOLOGICAL INVESTIGATIONS

9:15 a.m. - 3:30 p.m. **SAN DIEGO CONVENTION CENTER**

Area B (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: T.-L. Hackett, PhD, Vancouver, Canada

- P77 Optimization of Bronchoalveolar Lavage Fluid for Analysis of the Lung Microbiome in Lung Transplant Patients/J.** Prescod, L. Levy, P. Schneeberger, S.C. Juvet, T. Martinu, B. Coburn, Toronto, Canada, p.A7247
- P78 Evaluation of Hyperpolarized Helium-3 Imaging in Transplant Patients with BOS and RAS/S.** Callahan, L. Flors, K. Qing, N. Tustison, M. Salerno, J. Mata, M.M. Weder, S. Kilbourne, H. Mannem, T. Altes, J. Mugler, E. de Lange, Y.M. Shim, Charlottesville, VA, p.A7248

- P79 Neural Respiratory Drive in Lung Transplant Recipients with or Without Chronic Lung Allograft Dysfunction/M.** Patout, G. Kaltsakas, G. Arbane, N.M. Shah, S. Soresi, N. Hart, P. Marino, A. Simon, M. Carbin, A. Reed, E. Lhuillier, P.B. Murphy, London, United Kingdom, p.A7249
- P80 Impact of a Mitochondria-Targeted DNA Repair Glycosylase on Pulmonary Vascular Endothelial Barrier Function in a Rodent Model of Lung Donation After Circulatory Determination of Death/Y.** Tan, V. Pastukh, O. Gorodnya, J. Simmons, M. Gillespie, Mobile, AL, p.A7250
- P81 Biopsy and Imaging Findings Do Not Parallel Spirometry in Chronic Allograft Dysfunction (CLAD)/S.** Coronel, S. Allam, N. Teekappanavar, S. Ganesh, E. Wafaa, B. Garon, A.G. Wilcox, J.M. Liebler, R.G. Barbers, T.J. Floreth, A. Baydur, Los Angeles, CA, p.A7251
- P82 Explorative Analysis of the Post Lung Transplant Microbiome/S.** Verleden, C. Spence, G. Einarsson, E. Johnston, A. Lee, B. Vanaudenaerde, G.M. Verleden, S.J. Elborn, D. Gilpin, R. Vos, M. Tunney, Leuven, Belgium, p.A7252
- P83 Effect of Bilateral Lung Transplantation on Excessive Dynamic Airway Collapse/J.** Singh, D. Sese, C.J. Lehr, B.M. Pichurko, A.C. Mehta, Cleveland, OH, p.A7253
- P84 Neutrophilic Inflammation Main Culprit for Small Airway Disease Post Lung Transplant?/S.** Verleden, J.E. McDonough, L. De Sadeleer, A. Van Herck, K. Heist, V.N. Lama, G.M. Verleden, J. Verschakelen, R. Vos, B. Vanaudenaerde, C.J. Galban, Leuven, Belgium, p.A7254
- P85 Repairing Tracheal Injuries with Pleural Sealant: A Preliminary Report/B.** Mohammad, A. Riveron, Z. Phillips, N. Gasek, I. Sharma, H. Wanczyk, T. Jensen, C.M. Finck, D.J. Weiss, Burlington, VT, p.A7255

THEMATIC POSTER SESSION

D58 AIRWAYS HYPERRESPONSIVENESS: NOVEL MECHANISMS AND TARGETS

9:15 a.m. - 3:30 p.m. **SAN DIEGO CONVENTION CENTER**

Area B (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: W. Zhang, MD, PhD, Indianapolis, IN

- P87 Contribution of Calcium-Sensing Receptor to Intracellular Calcium Regulation in Human Fetal Airway Smooth Muscle Cells/A.M.** Roesler, K. Cummings, L.J. Manlove, J. Ravix, M.A. Thompson, C.M. Pabelick, R.J. Martin, P. MacFarlane, Y.S. Prakash, Rochester, MN, p.A7256
- P88 Calcium Regulation in Pediatric Airway Smooth Muscle Cells/A.** Glancova, M. Thompson, Y.S. Prakash, P. MacFarlane, C.M. Pabelick, Hradec Kralove, Czech Republic, p.A7257

- P89 Androgen Receptor Signaling and Intracellular Calcium Regulation in Human Airway Smooth Muscle Cells/R.** Katragadda, N.A. Borkar, M.A. Thompson, C.M. Pabelick, Y.S. Prakash, S. Venkatachalem, Fargo, ND, p.A7258
- P90 Differential Estrogen Receptor Signaling Regulates Store Operated Calcium Entry in Human Airway Smooth Muscle/R.S.R. Kalidhindi, N.S. Ambhore, M. Thompson, C.M. Pabelick, Y.S. Prakash, S. Venkatachalem, Fargo, ND, p.A7259**
- P91 Alpha- and Beta-Parvin Isoforms Regulate Phenotype Switching in Canine Airway Smooth Muscle/Y. Huang, S.J. Gunst, Indianapolis, IN, p.A7260**
- P92 Arrestins Differentially Regulate OGR1 Signaling in Airway Smooth Muscle Cells/T. Pera, E. Tompkins, D.A. Deshpande, A.P. Nayak, R.B. Penn, Philadelphia, PA, p.A7261**
- P93 Unraveling the Signaling Pathways Involved with the Pro-Inflammatory Features of Oxidized Phosphatidylcholine in Airway Smooth Muscle/C. Pascoe, M. Ragheb, G.L. Stelmack, A. Jha, J. Kindrachuk, A.J. Halayko, Winnipeg, Canada, p.A7262**
- P94 Airway Smooth Muscle Function Is Altered in Obesity to Enhance Airway Responsiveness to Carbachol/S. Orfanos, A. Schwab, K. Kalemba, B. Deeney, G. Cao, W. Jester, F. Wondisford, R.A. Panettieri, J. Jude, New Brunswick, NJ, p.A7263**
- Facilitator:** B. Lan, PhD, Boston, MA
- P95 The Role of Protein Arginine N-Methyltransferase 1 (PRMT1) in Inflammatory Gene Expression of Airway Smooth Muscle Cells in Asthma/K.A. Kaczmarek, R.L. Clifford, J. Patel, D. Shaw, J. Dowden, A.J. Knox, Nottingham, United Kingdom, p.A7264**
- P96 Targeted Gene Therapy to Deplete Airway Smooth Muscle/S.** Ram-Mohan, C. Da Silva, S. Yao, Y. Bai, B. Wojcik, X. Ai, C. Ferran, R. Krishnan, Boston, MA, p.A7265
- P97 Role of KISS1/GPR54 Signaling in PDGF Induced Human Airway Smooth Muscle Remodeling/R.S.R. Kalidhindi, N.S. Ambhore, M. Thompson, C.M. Pabelick, Y.S. Prakash, S. Venkatachalem, Fargo, ND, p.A7266**
- P98 Autophagy Is Selectively Activated and Correlated with Airway Remodeling in Asthma/K. McAlinden, B. Oliver, M. Haghi, P. Sharma, Sydney, Australia, p.A7267**
- P99 Investigating the Role of the G-proteins G_q and G₁₁ in Smooth Muscle Cell Contraction-Induced Remodelling in Asthma/R.J. Middlewick, D. Shaw, A.L. Tatler, R.G. Jenkins, Nottingham, United Kingdom, p.A7268**
- P100 Modulation of Airway Smooth Muscle Phenotype Through Physical Contact with CD4+ T-Cells/J.H. Jang, S. Farahnak, R. Sharan, A. Wang, J.G. Martin, Montreal, Canada, p.A7269**
- P101 Free Fatty Acid Receptors 1 and 4 Mediate Desensitisation-Resistant Bronchodilation and Are Expressed in Asthmatic Airways/J.E. Bourke, R. Angeles, C. Donovan, S. Royce, M. Lam, Clayton, Australia, p.A7270**
- Facilitator:** T.M. Murphy, MD, Durham, NC
- P102 Inhibition of Viral Infection-Induced Inflammatory Responses by Targeting the CLOCK Regulator Casein Kinase 1 Delta/Epsilon/M. Li, S.Y. Langenbach, C. Keenan, Y.C. Xia, T. Harris, A. Stewart, Melbourne, Australia, p.A7271**

- P103 Airway Hyper-Responsiveness Is Regulated by the Circadian Clock Through Rev-erb α /H. Durrington, N. Begley, K. Krakowiak, R. Maidstone, A. Loudon, D. Ray, Manchester, United Kingdom, p.A7272**
- P104 Cardiovascular Consequences of Spontaneous Cough Are Greater than the Purely Mechanical Action of Coughing in Chronic Idiopathic Cough/R.J. Dockry, C.L. Gibbard, R.A. Mahood, P.P. Turner, D. Corfield, J.A. Smith, Manchester, United Kingdom, p.A7273**
- P105 Investigation into the Mechanisms Driving Hypo-Osmotic Stress-Triggered Activation of Airway Sensory Nerves/J. Ma, S.J. Bonvini, E. Dubuis, J.J. Adcock, M.A. Wortley, M.A. Birrell, M.G. Belvisi, London, United Kingdom, p.A7274**
- P106 Hyperoxia-Induced Cellular Senescence in Developing Airway Smooth Muscle/P. Parikh, R.D. Britt, L.J. Manlove, A.M. Roesler, S.A. Wicher, T. Green, M. Thompson, N. LeBrasseur, C.M. Pabelick, Y.S. Prakash, Rochester, MN, p.A7275**
- P107 Rhinovirus (RV) C15, but Not A16, Induces Airway Hyperresponsiveness in Human Small Airways and Airway Smooth Muscle (HASM) Through Modulation of Calcium and Actin Dynamics/C. Koziol-White, V. Parikh, C. Corbi, R. Patel, D. Marchione, Y.A. Bochkov, S.B. Liggett, B. Garcia, J.E. Gern, R.A. Panettieri, New Brunswick, NJ, p.A7276**
- P108 Fetal Growth Restriction Causes Functional and Structural Abnormalities of the Airway Wall in Adult Mouse Offspring/K.C.W. Wang, D. Kowlessur, P.B. Noble, Crawley, Australia, p.A7277**
- P109 Airway Closing Index in Children During Exercise Bronchoprovocation/D.A. Krich, S. Krishnan, A.J. Dozor, Valhalla, NY, p.A7278**

THEMATIC POSTER SESSION

D59 CASE REPORTS IN SLEEP DISORDERS

9:15 a.m. - 3:30 p.m.

SAN DIEGO CONVENTION CENTER

Area F (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: H.-L. Tan, MBBS, London, United Kingdom

- P560 Not-So-Sleepless-Nights: An Adolescent with Paradoxical Insomnia/S.L. Simon, R.T. Mohon, Aurora, CO, p.A7279**
- P561 Electroconvulsive Therapy Does Not Damage the Inspire Upper Airway Stimulation System for Obstructive Sleep Apnea: A Case Report/E.M. Valladares, T.C. Hammond, O. Sever, C.M. Figueroa, E.J. Kezirian, Los Angeles, CA, p.A7280**
- P562 "Doc, Can You Order a Sleeping Pill?"/J. Bishara, W. Kareem, E. Valladares, Z. Borok, T.C. Hammond, Los Angeles, CA, p.A7281**

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

P563 Narcolepsy with Central Adrenal Insufficiency, GH Excess and Increased IGFBP3/P. Gummalla, E.R. Concepcion, H. Lee, S. Perez-Colon, T.W. Ch'ng, A.E. Esquibies, Brooklyn, NY, p.A7282

Facilitator: M.A. Tamae Kakazu, MD, Grand Rapids, MI

P564 Hypoglossal Nerve Stimulator Dysfunction Following Cardioversion/D.S. Imanirad, K. Calero, Tampa, FL, p.A7283

P565 The Immediate Effect of Weight Loss on CPAP Pressures Required to Control OSA in a Patient with Morbid Obesity and OSA/E. Perger, C. Philippe, I. Arnulf, S. Redolfi, Paris, France, p.A7284

P566 Inhalers in a Patient with Obstructive Sleep Apnea: A Double-Edged Sword/M. Kwon, V. Arunthari, A.S. Lee, M. Mansukhani, B. Colaco, Jacksonville, FL, p.A7285

Facilitator: P.E. Brockmann, MD, Santiago, Chile

P567 Delayed Sleep-Wake Phase Disorder and a New College Roommate/H. Baig, B. Colaco, Jacksonville, FL, p.A7286

P568 Blue Rubber Bleb Nevus Syndrome: A Rare Cause of Obstructive Sleep Apnea/F.-A. Vézina, Sherbrooke, Canada, p.A7287

P569 Abrupt Onset of Early Morning Parasomnias in an Adult with Untreated Obstructive Sleep Apnea: Sometimes It Is a Zebra/O. Sever, D. Maehara, E. Valladares, T.C. Hammond, Los Angeles, CA, p.A7288

THEMATIC POSTER SESSION

D60 SLEEP PATTERNS IN DIVERSE POPULATIONS

9:15 a.m. - 3:30 p.m. SAN DIEGO CONVENTION CENTER

Area F (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: M. Grandner, PhD, Tucson, AZ
S. Chowdhuri, MD, MS, Detroit, MI

P571 Sleep Duration and Measures of Obesity in a Biracial Cohort: The Bogalusa Heart Study/R.P. Ogilvie, L. Bazzano, J. Gustat, E. Harville, S.R. Patel, Pittsburgh, PA, p.A7289

P572 Periodic Breathing Persists in Healthy High Altitude Sojourners Over Time/C.M. Zhang, J.-D. Ju, L.M. Lopez, F. Sgambati, Z.G. Zhang, R. Arias, L.V. Pham, A.R. Schwartz, R.A. Accinelli, Lima, Peru, p.A7290

P573 Sleep Quality, Life Purpose, and Health Related Quality of Life Among HIV Positive Adults: Results from a Cross-Sectional Survey in Nigeria/O. Awopeju, M. Oninla, O. Adewole, G.E. Erhabor, Ile-Ife, Nigeria, p.A7291

P574 Hypersomnia in Cancer Patients Based on Multiple Sleep Latency Testing/N. Cassell, D.D. Balachandran, L. Bashoura, S.A. Faiz, Houston, TX, p.A7292

P575 Evaluation of Sleep Hygiene Among Medical Students in Saudi Medical College: An Exploratory Study/J.S. Alqahtani, R. Al-Harbi, B. Bathnain, F. Al-Ghamdi, S. AlRabeeah, Dammam, Saudi Arabia, p.A7293

P576 Study of Sleep Habits and Patterns Across Various Age Groups: An Exploratory Study from Developing Country/N. Bhatta, V. Kattel, N. Bhatta, Dharan, Nepal, p.A7294

P577 Marked Variations in Nocturnal Oxygenation Profiles Over Time in Healthy Acute High Altitude Sojourners/J.-D. Ju, C.M. Zhang, L.M. Lopez, F.P. Sgambati, Z. Zhang, R. Arias, L.V. Pham, A.R. Schwartz, R.A. Accinelli, Lima, Peru, p.A7295

P578 The Effect of Baclofen on Sleep in a Model of Transient Insomnia/S. Raad, K.R. Jones, M. Wilkerson, W.C. Orr, Oklahoma City, OK, p.A7802

THEMATIC POSTER SESSION

D61 IMAGING, INTERVENTIONS, AND INTERVENTIONAL PULMONOLOGY: THE THREE "I's" OF THORACIC ONCOLOGY

9:15 a.m. - 3:30 p.m.

SAN DIEGO CONVENTION CENTER

Area D (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: J. Akulian, MD, MPH, Chapel Hill, NC

P295 Early Diagnosis of Pulmonary Nodules: The Potential Effect of Observed Lymph Nodes on Performance of a Proteomic Biomarker/S.C. Springmeyer, A. Porter, P. Kearney, Seattle, WA, p.A7296

P296 Comparison of Sample Adequacy and Diagnostic Yield of the 19 G and the 22 G EBUS-TBNA Needles/U. Chaddha, R. Ronaghi, W. Elatre, M.E. Sibug Saber, C.-F. Chang, R. Mahdavi, Los Angeles, CA, p.A7297

P297 Diagnostic Yield of Endobronchial Ultrasound in the Diagnosis of Lymphoproliferative Syndromes/M. Lopez, R. Cordovilla, J. Cascon, M. Rodriguez, V. Guevara, S. Jodra, J.M. González, M. Barrueco, Madrid, Spain, p.A7298

P298 Diagnostic Utility of EBUS-TBNA for Evaluating Mediastinal Adenopathy in Patients with Extrathoracic Malignancy and Prognostic Implication of Granulomatous Inflammation/M. Lane, Q.M. Fasihuddin, C. Ohri, J.S. Wang Memoli, Washington, DC, p.A7299

- P299** **Characteristics of Computed Tomography-Guided Bronchoscopy in Diagnosis of Small Peripheral Pulmonary Lesions/M.** Yamanaka, M. Yasuo, Y. Kitaguchi, N. Kobayashi, K. Tateishi, K. Urushihata, A. Ushiki, H. Yamamoto, M. Hanaoka, Matsumoto, Japan, p.A7300
- P300** **Developing and Troubleshooting a Protocol for Peri-Operative Localization of Difficult to Visualize/Palpate Nodules During Minimally Invasive Thoracic Surgery/D.** Chambers, C. Colosimo, A.R. Belanger, A.C. Burks, J. Long, B. Haithcock, R. Petrov, L. Dunham, J. Akulian, Chapel Hill, NC, p.A7301
- P301** **Optimization of Endobronchial Ultrasound Guided Needle Biopsies Using 19G Needle: Go Bigger/I.** Berim, A. Colanta, N. Jagan, C. Landeen, A. King, S. Aurit, F. Alghoula, A. Nayfeh, Omaha, NE, p.A7302
- P302** **The Yield of EBUS-TBNA Compared to EBUS-Guided Cautey-Assisted Forceps Biopsies: A Retrospective Analysis/A.S.** Ray, T.E. Murphy, K.L.B. Araujo, I.B. Oliva, M.A. Pisani, K.T. Bramley, E.M. DeBiasi, J.T. Puchalski, New Haven, CT, p.A7303
- P303** **Integrating Radiological Imaging Informatics into a Multi-Site Investigation of Lung Cancer Overdiagnosis/S.** Antic, H. Mahany, T. Osterman, F. Maldonado, V.S. Nair, M.B. Schabath, R. Gillies, P.P. Massion, B. Landman, Nashville, TN, p.A7304
- Facilitator:** M.H. Tukey, MD, MS, Providence, RI
- P304** **Repeated Dose of Thrombolytics in Malignant Nondraining Tunneled Pleural Catheters: A Single Center Experience/V.** Secasanu, R. Cloyes, H. Shah, S. Islam, Columbus, OH, p.A7305
- P305** **First In-Patient Use of a New Flexible Trans-Bronchial Needle Device for Sampling of Peripheral Lung Lesions/R.L.** Myers, C.A. Hergott, P.R. MacEachern, B. Shieh, M. Fortin, A. Delage, T. Shaipanich, E.-L. Beaudoin, S. Lam, M. Bonifazi, S. Gasparini, A. Tremblay, Vancouver, Canada, p.A7306
- P306** **Effects of Tobacco Use on Moderate Sedation Administration for Flexible Bronchoscopy/A.C.** Smith, C.R. Bellinger, Winston-Salem, NC, p.A7307
- P307** **Imaging Lung Cancer Using Hyperpolarized MRI Technology: A Preliminary Study/M.** Pourfathi, S. Kadlecsek, D.C. Lim, J. Kim, L. Loza, I. Duncan, K. Ruppert, S. Chatterjee, J. Conejo-Garcia, R.R. Rizzi, Philadelphia, PA, p.A7308
- P308** **Evaluation of Intrapleural Chemotherapy with Cisplatin in Patients with Malignant Pleural Effusion/A.** Abedini, A. Kiani, K. Taghavi, F. Razavi, M. Esmaeilzadeh, M. Pourabdollah, A. Khosravi, S. Seifi, S.R. Seyedi, Tehran, Iran, Islamic Republic of, p.A7309
- P309** **Optimizing the Approach to Patients with Pleural Effusion and Radiologic Findings Suspect for Cancer/B.** Alzghoul, A.A. Innabi, S. Subramany, B. Boye, K. Chatterjee, V.S.R. Koppurapu, T. Bartter, N.K. Meena, Little Rock, AR, p.A7310
- P310** **The eXcelon Transbronchial Aspiration Needle: Assessing Safety and Diagnostic Yield for Use with Radial Ultrasound-Guided Peripheral Lung Lesion Sampling/P.H.** Hanneman, K.J. Diab, Indianapolis, IN, p.A7311
- P311** **Bronchoscopic Interventions for Malignant Central Airway Obstruction: A Prospective Clinical Profile and Outcome Assessment in a Tertiary Centre of North India/A.** Mohan, P. Shreshta, K. Madan, V. Hadda, R. Guleria, G. Khilnani, R.M. Pandey, New Delhi, India, p.A7312
- P312** **Efficacy of Thoracoscopic Talc Poudrage Pleurodesis (TTP) in a District General Hospital/W.** Marshall, V. Yioe, M.E. Babores, A. Hufton, T. Nagarajan, S. Iyer, Macclesfield, United Kingdom, p.A7313
- Facilitator:** C. Argento, MD, Chicago, IL
- P313** **Does Surgery Has a Role on Stage III Malignant Pleural ? Mesothelioma ?/J.** Kelly-Garcia, E.M. Garcia-Bazan, D. Zamora-Lemus, E. Lazcano-Hernandez, H.K. Mandujano-Khoyal, Mexico City, Mexico, p.A7314
- P314** **Safety and Efficacy of a New Fully Covered Self-Expandable Metallic Airway Stent/V.K.** Holden, D. Alape, A.C. Chee, M.S. Parikh, T. Leclair, A. Majid, Boston, MA, p.A7315
- P315** **Feasibility and Safety of Obtaining Mediastinal and Hilar Lymph Node Core Biopsy Using Three Point 22 Gauge (G) Endoscopic Ultrasound (EUS) Needle/A.** Irvani, S. Ansari, C. Reddy, Salt Lake City, UT, p.A7316
- P316** **Sample Capability of 25G EBUS-TBNA Needles When Sampling Different Density Tissues/S.** Parthiban, A. Sczaniecka, H.X. Gonzalez, Redmond, WA, p.A7317
- P317** **Use of a Novel Flexible 21G Peripheral TBNA Needle for Sampling in the Lung Periphery/R.** Krukltis, A. Sczaniecka, H.X. Gonzalez, Allentown, PA, p.A7318
- P318** **Pre-Clinical Evaluations of 25G EBUS-TBNA Needles with and Without Side Ports/S.** Parthiban, A. Tremblay, D. Dillard, H.X. Gonzalez, Redmond, WA, p.A7319
- P319** **Molecular Genetic Analysis of Navigational Bronchoscopy in the Diagnosis of Non-Small Cell Lung Cancer/R.** Poon, C.R. Bellinger, Winston-Salem, NC, p.A7320
- P320** **First Combined Use of a Novel Flexible 21G Peripheral TBNA Needle and Ultrathin Bronchoscope in Patients with Peripheral Lung Lesions/A.** Sczaniecka, R.F. Casal, A.C. Chen, H.X. Gonzalez, Redmond, WA, p.A7321
- P321** **Thoracoscopic Laser Metastasectomy: The Republic of Ireland's Initial Experience/J.** Mc Loughlin, K. O' Sullivan, R. Brown, D. Eaton, Dublin, Ireland, p.A7322
- Facilitator:** Y.B. Gesthalter, MD, Boston, MA
- P322** **Endobronchial Ultrasound-Guided Transvascular Needle Aspiration (EBUS-TVNA), Ten Years of Experience and Success/M.M.** Rachid, E. Mekhaieel, Oak Lawn, IL, p.A7323
- P323** **Radiological-Pathological Correlation in Invasive Mucinous Adenocarcinoma/Y.** Mitsui, A. Kikuyama, H. Fushimi, K. Ueno, M. Suzuki, J. Uchida, Y. Shirai, K. Matsumoto, K. Kuno, T. Yanase, Y. Funakoshi, H. Takabatake, K. Shimazu, Y. Tanio, Osaka, Japan, p.A7324
- P324** **Is There Utility in Processing Bronchial Brush-Tip Washings for Cytologic Diagnosis?/J.** Angotti, P. Branca, L. Duncan, Knoxville, TN, p.A7325

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- P325 Negative Predictive Value of Endobronchial Ultrasound Guided Needle Aspiration of Mediastinal and Hilar Lymph Nodes/M.** Frohlich, H. Wang, C. Robitaille, L. Sakr, Montreal, Canada, p.A7326
- P326 Electromagnetic Navigation Paired with Cone-Beam CT Guidance for Diagnosis of Difficult Peripheral Lung Lesions: A Prospective Pilot Trial/C.A. Aravena Leon, L.S.H. Lam, T.R. Gildea, Santiago, Chile, p.A7327**
- P327 Blood Patch Impact on Pneumothorax Risk During Electromagnetic Navigation Bronchoscopy/I. Berim, C. Landeen, N. Jagan, A. King, S.J. Aurit, A. Nayfeh, F. Alghoula, Omaha, NE, p.A7328**
- P328 Performance of a Novel Electrosurgical Device for Cutting and Coagulation of Central Airway Obstructions/A.K. Mahajan, K.A. Herdina, K.A. Howk, D. Andres, A. Majid, Falls Church, VA, p.A7329**
- P329 Efficacy and Safety of Virtual Bronchoscopy Navigation with Fused Fluoroscopy to Obtain Pathological Tissue in Patients with Solitary Pulmonary Nodules/J. Ramzy, J.M. Travaline, P. Rali, M. Basile, J. Thomas, G.J. Criner, Philadelphia, PA, p.A7330**
- P338 Clinical Impact of Pulmonary Tuberculosis on the EGFR Mutational Status and Clinical Outcome in Patients with Lung Adenocarcinoma/M.H. Kang, J.-H. Yoo, B. Chang, M.J. Park, J.M. Lee, S.H. Lee, S.S. Paik, I.K. Hwang, Seoul, Korea, Republic of, p.A7338**

Facilitator: L.M. Kamman, MD, St. Paul, MN

- P339 The Efficacy and Safety of Ceritinib in the Treatment of ALK+ NSCLC: A Systematic Review and Meta-Analysis/P. Luo, J. Fan, Z. Xia, X. Zhang, Y. Chen, R. Qian, S. Liu, D. You, J. Zhang, Guangzhou, China, p.A7339**
- P340 Effect of Wait time to Treatment on Survival in Lung Cancer/E.D. Penz, M. Rana, L. Wu, D. Goodridge, C.A. Hergott, Y. Tyan, N. Osgood, T. Sherin, B. Manns, Saskatoon, Canada, p.A7340**
- P341 Lung Cancer in the Inuit Region of Nunavik, Québec: Descriptive Epidemiology of Patients Diagnosed Between 2005 and 2016/J.B. Zhang, A. Zerbo, M. Boucher, S. Camillieri-Broët, H. Wang, A. Benedetti, J.D. Spicer, S. Owen, A.V. Gonzalez, N. Boulanger, N. Ezer, M. Grey, J. Agulnik, C. Pepe, F. Ahmad Khan, Montreal, Canada, p.A7341**

- P342 The Higher Prevalence of Epidermal Growth Factor Receptor Mutation in the Male Patients of Lung Adenocarcinoma in Makassar, Indonesia/A. Santoso, S. Munwarrah, Makassar, Indonesia, p.A7342**

- P343 Multiple Tumorlets in the Setting of Pulmonary Carcinoid, What Is the Appropriate Management?/F.G. Wilder, J. Lin, L. Li, D. Upadhyay, Fresno, CA, p.A7343**

- P344 PD-L1 Expression in a Population with Non-Small Cell Lung Cancer in a Reference Healthcare Center in Latin-America/L. Fernandez, V. Zuñiga, J.F. Henao, L.F. Sua Villegas, Cali, Colombia, p.A7344**

- P345 Analysis of the Pathological Distribution of Lung Cancer and Survival Trends in Lincolnshire Over a 2 Year Period/M.N. Okoye, Boston, United Kingdom, p.A7345**

- P346 Characterization of the Population with Non-Small Cell Lung Cancer in a Reference Healthcare Center in Latin-America/L. Fernandez, V. Zuñiga, J.F. Henao, L.F. Sua Villegas, Cali, Colombia, p.A7346**

Facilitator: M.K. Gould, MD, MS, Pasadena, CA

- P347 A CT-Based Case Series of Newly Diagnosed Bronchopulmonary Leukemic Infiltrates in Patients with Chronic Lymphocytic Leukemia/A. Agrawal, A. Weber, A. Hilewitz, S.J. Koenig, S. Khanijo, New Hyde Park, NY, p.A7347**

- P348 Diffuse Idiopathic Pulmonary Neuroendocrine Cell Hyperplasia (DIPNECH): What Is It and What Should You Know?/A. Schertz, K.C. Alonso, A.B. Chatterjee, Winston-Salem, NC, p.A7348**

- P349 Evaluation of Pulmonary Function at 24-Months Post-Lobectomy Among Lung Cancer Patients with Stage I Non-Small Cell Lung Cancer/D. Albano, T.V. Bilfinger, M.K. Perwaiz, B. Nemesure, Holbrook, NY, p.A7349**

- P350 Clinical Outcomes of Alectinib for the Treatment of Non-Small Cell Lung Cancer Patients: A Systematic Review and Meta-Analysis/P. Luo, Z. Xia, J. Fan, S. Liu, J. Ye, X. Xu, T. Fong, J. Zhang, Guangzhou, China, p.A7350**

THEMATIC POSTER SESSION

D62 TYPES, GENOTYPES, AND PHENOTYPES: THE THREE “T’S” OF THORACIC ONCOLOGY

9:15 a.m. - 3:30 p.m.

SAN DIEGO CONVENTION CENTER

Area D (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: H.C. Cain, MD, MS, New Haven, CT

- P331 Prognostic Value of Systemic Immune Inflammation Index in Advanced Non Small Cell Lung Cancer/L. Dan, Y. Xia, Y. He, L. Weimin, Chengdu, China, p.A7331**
- P332 Curative Stereotactic Body Radiotherapy Is Safe and Effective in Early Stage Non-Small Cell Lung Cancer: A Single-Center Retrospective Review of a Cohort of Veterans/A. Srikrishnan, M.M. Fuster, P.R. Montgrain, San Diego, CA, p.A7332**
- P333 C-Reactive Protein to Albumin Ratio as a Prognostic Factors in Lung Cancer/J. Jin, D. Liu, Y. Zhou, Chengdu, China, p.A7333**
- P334 Correlations of Tumor Stage and Serum Tumor Markers with Age in Nonsmoking Females with Lung Adenocarcinoma/Y. Gan, P. Zhou, W. Li, Chengdu, China, p.A7334**
- P335 Stratifying Somatic EGFR Mutation Profiles for Detection of Drug Resistant Mutations in NSCLC/M. Sachdeva, M. Bilello, M.W. Peterson, D. Upadhyay, Fresno, CA, p.A7335**
- P336 The Role of Serum and Tissue YKL-40 in Lung Cancer/D. Wang, X. Tong, H. Fan, Chengdu, China, p.A7336**
- P337 Treatment Initiation, Tolerance and Survival in Elderly Patients with Stage IV Non-Small Cell Lung Cancer (NSCLC)/G. Helfrich, R.G.P. Gijtenbeek, B.J.W. Venmans, A. Ten Brinke, K. De Jong, W.H. van Geffen, Leeuwarden, Netherlands, p.A7337**

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- P351** **Evaluation of 8th TNM Staging System in a Retrospective Cohort of Patients with Early Stage Non-Small Cell Lung Cancer Who Received Adjuvant Chemotherapy/A.** Ozcan, D. Koksak, O.S. Kosan, S. Sarinc Ulasli, H. Bayiz, Y. Agackiran, G. Findik, Ankara, Turkey, p.A7351
- P352** **Primary Pulmonary Carcinoid as a Potential Marker for Second Primary Malignancy/K.C.** Alonso, A.B. Chatterjee, Winston-Salem, NC, p.A7352
- P353** **Molecular Testing of Lung Cancer/A.** Trabolsi, E. Rodriguez, Miami Beach, FL, p.A7353
- P354** **Is Advanced Age a Prognostic Factor for Adjuvant Chemotherapy in Completely Resected Non-Small-Cell Lung Cancer (NSCLC)?/O.** Batum, C. Anar, Y. Ozdogan, S. Ermin, U. Yilmaz, Izmir, Turkey, p.A7354

THEMATIC POSTER SESSION

D63 DETECTION AND DIAGNOSIS: THE TWO “D’s” OF THORACIC ONCOLOGY

9:15 a.m. - 3:30 p.m. **SAN DIEGO CONVENTION CENTER**

Area D (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: P.R. Montgrain, MD, San Diego, CA

- P356** **Reduction of Plasma Engulfment and Cell Motility Protein 3 Post-Surgery Indicates Specificity in the Detection of Non-Small Cell Lung Cancer/K.** Almodovar, G. Choi, V. Ifeacho, M. Sachdeva, D. Upadhyay, Fresno, CA, p.A7355
- P357** **Imaging Characteristics of Thymic Hyperplasia as Compared to Benign Thymic Tissue in Patients with Myasthenia Gravis/A.** Mitchell, A. Yen, E. Weihe, P. Thistlethwaite, S. Brouha, La Jolla, CA, p.A7356
- P358** **Fast Capture: A Tool for the Early Detection of Thoracic Cancer/J.M.A.** Lopez, A. Miotto, P.A.A. Honda, D.C.A. Dias, J.H. Rivaben, R.H. Roja, T.B. Hasegawa, M.C. Braz, M. Botter, Sao Paulo, Brazil, p.A7357
- P359** **Lung Cancer Screening with Low-Dose CT in Brazil: Results of the Initial CT in the Setting of Clinical Practice at a Public Hospital/F.M.** Svartman, M.M.R. Leite, A.P.G. Sartori, R.S. Gutierrez, R.U. Brito, C.T.M. Oliveira, C.F. Andrade, Porto Alegre, Brazil, p.A7358
- P360** **Outcomes of Incidental Mediastinal Lymphadenopathy Seen in Baseline Low Dose Screening CT Scans/R.S.** Chatterjee, C.R. Lamb, M.M. Zambon, S.M. Regis, Cambridge, MA, p.A7359
- P361** **Performance Characteristics of CYFRA 21.1 Measurements by Compensated Backscattering Interferometry for the Early Detection of Lung Cancer/M.** Kammer, A.K. Kussrow, M. Hoeksema, D.J. Bornhop, P.P. Massion, Nashville, TN, p.A7360



ATS 2018
Where today's science meets tomorrow's care™
International Conference
San Diego, CA
Wednesday Mid-day, May 23

BEHAVIORAL • CLINICAL

WORKSHOP

CME Credits Available: 1.5

WS7 DELIVERING PULMONARY REHABILITATION ACROSS THE SPECTRUM OF CARE FROM HOSPITAL TO COMMUNITY

R **Registration Fee: \$75 (includes box lunch)**
Attendance is limited. Pre-registration is required.

Assemblies on Pulmonary Rehabilitation; Clinical Problems; Nursing

11:45 a.m. - 1:15 p.m. **SAN DIEGO CONVENTION CENTER**

Room 9 (Upper Level)

Target Audience

Clinicians involved with mobilization, discharge planning, and rehabilitation of patients of patients with respiratory conditions in locations ranging from the ICU to home

Objectives

At the conclusion of this session, the participant will be able to:

- describe examples of delivery of rehabilitation in different locations and in different systems;
- offer examples of system strategies and resources to offer to your patient;
- increase awareness of rehabilitative services available to pulmonary patients among health care providers throughout the continuum of care.

There is an increasing body of literature identifying improvements in outcomes such as length of stay, functional status and reduction in re admissions with the use of rehabilitation programs when they are carefully and appropriately implemented in a variety of settings ranging from the ICU to outpatient rehabilitation programs. This session provides a view of how to apply these studies in a range of health care systems and locations.

Chairing: E.P. Riesenfeld, MD, Cooperstown, NY
R.H. Crouch, DPT, MS, PT, Buies Creek, NC

11:45 **Pulmonary Rehabilitation**
R.H. Crouch, DPT, MS, PT, Buies Creek, NC

- 12:00 Pittsburgh Readmission Efforts**
B.W. Carlin, MD, Sewickley, PA
- 12:10 Multiple Resources in a Rural Health Care Network**
E.P. Riesenfeld, MD, Cooperstown, NY
- 12:20 Outpatient Resources Including VNA and PT and Finances**
K. Hyden, MSN, MEd, APN-BC, ACHPN, Denver, CO
- 12:35 Inpatient Rehabilitation**
R.S. Novitch, MD, White Plains, NY
- 12:45 Early Rehabilitation in the ICU**
C.T. Hough, MD, MSc, Seattle, WA

CLINICAL

WORKSHOP

CME Credits Available: 1.5

WS8 SHOULD THIS STUDY CHANGE MY PRACTICE? SKILLS FOR ADEPT APPRAISAL OF CRITICAL CARE LITERATURE

R Registration Fee: \$75 (includes box lunch)
Attendance is limited. Pre-registration is required.

Assemblies on Critical Care; Behavioral Science and Health Services Research

11:45 a.m. - 1:15 p.m. SAN DIEGO CONVENTION CENTER

Room 10 (Upper Level)

Target Audience

Critical care practitioners and trainees who wish to improve their ability to assess and apply clinical studies and non-intensivist clinicians as the principles are broadly applicable

Objectives

At the conclusion of this session, the participant will be able to:

- understand features of observational studies, clinical trials, and meta-analyses that impact the quality of evidence;
- systematically evaluate clinical studies using validated tools;
- navigate challenges in applying clinical to an individual patient.

The goal of the session is to enhance the ability of critical care practitioners to systematically examine and apply clinical studies. Lectures will address core concepts in critical appraisal of observational studies, clinical trials, and meta-analyses. Guided by an expert panel, participants will use validated and publicly available frameworks to analyze two pre-read critical care publications. The session will conclude with a synopsis of the learning objectives and discussion of challenges encountered when applying research findings to individual patients.

Chairing: E.A. Vail, MD, San Antonio, TX
L.K. Vande Vusse, MD, MSc, Seattle, WA
R.S. Wiener, MD, MPH, Boston, MA

11:45 Principles of Appraising Clinical Research
E.A. Vail, MD, MSc, San Antonio, TX

11:55 Common Challenges with Clinical Trials and Meta-Analyses
D.C. Scales, MD, PhD, Toronto, Canada

12:15 Common Challenges in Interpreting Observational Studies
A.J. Walkey, MD, MSc, Boston, MA

12:35 Practice with Literature Appraisal Tools
M.J. Lanspa, MD, MSCR, Salt Lake City, UT
A.J. Walkey, MD, MSc, Boston, MA
R.S. Wiener, MD, MPH, Boston, MA
H.B. Gershengorn, MD, Miami, FL
C. R. Cooke, MD, Univ of Michigan, Ann Arbor, MI

1:05 To the Bedside: Pitfalls in Applying Clinical Research to Our Patients
C.Summers, BSc(Hons), BM, PhD, MRCP, Cambridge, United Kingdom

CLINICAL

ADULT CLINICAL CORE CURRICULUM

CME Credits Available: 1.5

MOC Points Available: 1.5

CC5 PULMONARY CLINICAL CORE CURRICULUM I

11:45 a.m. - 1:15 p.m.

SAN DIEGO CONVENTION CENTER

Room 15 A-B (Mezzanine Level)

Target Audience

Practicing internists and subspecialists in Pulmonary, Critical Care, and Sleep medicine who work in a clinical setting and are currently engaged in maintenance of certification

Objectives

At the conclusion of this session, the participant will be able to:

- remain current with medical knowledge relevant to their practice in pulmonary, critical care, and sleep medicine;
- evaluate their understanding of key skills and content areas in pulmonary, critical care and sleep medicine, as well as receive feedback on their comprehension of a result of a pre-test/post-test comparison;
- support clinicians who are engaged in maintenance of certification activities by providing updates on subjects included in recertification requirements.

The ATS Clinical Core Curriculum Symposia focus on a 3-year content cycle of key medical content in the areas of Pulmonary, Critical Care, and Sleep Medicine. The topics are also aligned with corresponding MOC Medical Knowledge modules. This symposium is intended to assist clinicians with staying current with the growth of information relevant to their medical practice, as well as provide an opportunity to evaluate individual knowledge and skills while earning MOC Medical Knowledge points.

Chairing: J.L. Cho, MD, Denver, CO

11:45 Manifestations and Diagnosis of Connective Tissue Disease-Associated Interstitial Lung Disease
J. Solomon, MD, Denver, CO

12:15 Diagnosis and Management of Interstitial Lung Disease-Associated Pulmonary Hypertension
K.A. Smith, MD, Philadelphia, PA

12:45 Inherited Diffuse Parenchymal Lung Diseases
J.J. Swigris, DO, MS, Denver, CO

CENTERS FOR DISEASE CONTROL AND PREVENTION

L21 PREVENTING HALF A MILLION ASTHMA-RELATED EMERGENCY DEPARTMENT VISITS AND HOSPITALIZATION IN CHILDREN

12:15 p.m. - 1:15 p.m. Room 14 A-B (Mezzanine Level)
SAN DIEGO CONVENTION CENTER

Target Audience

Those serving pediatric populations; those who work across multiple sectors, such as health care, schools or public health; those who work with multidisciplinary asthma programs

Objectives

At the conclusion of this session, the participant will be able to:

- learn more about evidence based interventions in children with asthma;
- understand the relationship between public health and health care to help reduce the burden of asthma;
- learn about a major initiative at the CDC.

CDC's National Asthma Control Program started a new initiative focused on reducing the number of hospitalizations and emergency room visits among children with asthma called CCARE (Controlling Childhood Asthma Reducing Emergencies). Our goal is to reduce emergency department and hospitalization visits for children by half a million in five years. We plan to do this by promoting public health and health care collaboration and asthma self-management education (AS-ME), extinguishing second hand smoke, home visits with AS-ME, guidelines-based medical management and asthma-friendly policies. We plan to promote interventions across sectors, and linkages between programs and clinicians.

Chairing: P.L. Garbe, DVM, Atlanta, GA

- 12:15 **CCARE 101**
K. Sircar, PhD, MPH, Chamblee, GA
- 12:30 **Perspective on State Public Health Asthma Program**
C. Bailey, PhD, Atlanta, GA
- 12:45 **Linkages: An Opportunity to Improve Asthma Care**
S.F. Beavers, MD, Chamblee, GA

DEPARTMENT OF VETERANS AFFAIRS

L22 VETERANS HEALTH STUDIES AND PROGRAMS IN PULMONARY DEPLOYMENT HEALTH

12:15 p.m. - 1:15 p.m. SAN DIEGO CONVENTION CENTER
Room 1 A-B (Upper Level)

Target Audience

Pulmonary providers; those needing instruction in areas of medicine outside of their primary specialty; new and established investigators

Objectives

At the conclusion of this session, the participant will be able to:

- learn new findings about military deployment-related exposures that is the focus of VA and DoD research programs;

- learn about VA and DoD research program and projects and research opportunities regarding Veterans pulmonary health;
- apply new knowledge regarding deployment health to the practice of pulmonary medicine.

There are over 2.5 million US Veterans with deployments to Iraq, Afghanistan, Kuwait, and other Southwest Asian countries. Those with land-based deployments were exposed to high levels of particulate matter from dust storms, burn pit smoke (i.e., smoke from solid waste combustion at US bases), and unregulated industrial and vehicular sources. This session will outline the pulmonary health conditions and exposures that are being assessed by Department of Defense (DoD) and VA funded investigators. The session will provide insight into resources and programs available to stimulate additional research in respiratory hazards and deployment health.

Chairing: E. Garshick, MD, West Roxbury, MA
J.K. Brown, MD, San Francisco, CA

- 12:15 **Overview of Deployment Health Research**
E. Garshick, MD, West Roxbury, MA
- 12:20 **Assessment of Respiratory Hazards in Deployed Military Personnel**
C. Baird, MD, MPH, Gunpowder, MD
- 12:31 **Clinical findings in Veterans and the VA Airborne Hazards and Open Burn Pit Registry**
M.J. Falvo, PhD, East Orange, NJ
- 12:42 **Deployment-Related Lung Diseases and Noninvasive Markers of Effects on Small Airways**
S.D. Krefft, MD, MPH, Denver, CO
- 12:53 **Va and DoD-Based Veteran and Military Epidemiology Programs**
R. Rull, PhD, San Diego, CA
- 1:04 **VA Merit Review, Cooperative Studies, Million Veteran Program, and Deployment Health**
K. Myrie, PhD, Washington, DC

NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH

L23 UPDATE ON WORK-RELATED AIRWAYS DISEASE

12:15 p.m. - 1:15 p.m. SAN DIEGO CONVENTION CENTER
Room 7 A-B (Upper Level)

Target Audience

Those with an interest in preventing, caring for, or doing research to address work-related airways disease

Objectives

At the conclusion of this session, the participant will be able to:

- recognize relationships between work exposures and asthma and the implications of work-related asthma for severity of disease;
- recognize and follow up on histories of occupational exposures potentially associated with work-related small airways disease.

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

This session will provide an update on a range of current topics in work-related airways disease. These will include an update on the national burden of work-related asthma as indicated by NIOSH surveillance, emerging issues in work-related small airways diseases such as obliterative bronchiolitis, and the role of forced oscillation testing in providing diagnostic information about small airways disease beyond that provided by standard assessment using spirometry.

Chairing: D.N. Weissman, MD, Morgantown, WV

12:15 Burden of Work-Related Airways Disease: Findings From National Surveillance

J. Mazurek, MD, PhD, Morgantown, WV

12:35 Emerging Issues in Small Airways Disease

K.J. Cummings, MD, MPH, Morgantown, WV

12:55 Use of Forced Oscillation Testing (FOT) for Investigating Small Airways Disease

K.I. Berger, MD, New York, NY

NATIONAL INSTITUTE OF ENVIRONMENTAL HEALTH SCIENCES, NIH

L24 NIEHS-NANOTECHNOLOGY HEALTH IMPLICATIONS RESEARCH CONSORTIUM

12:15 p.m. - 1:15 p.m. SAN DIEGO CONVENTION CENTER

Room 3 (Upper Level)

Target Audience

Basic and clinical researchers, physicians, pulmonologists, community and public health specialists

Objectives

At the conclusion of this session, the participant will be able to:

- gain fundamental understanding on the interaction of nanomaterials with biological materials;
- understand health effects of engineered nanomaterials due to unintentional exposures;
- learn about potential pulmonary toxicity of fiber-like nanomaterials and related pathology.

The expanding field of Nanotechnology industry is leading to rapid growth in the use of engineered nanomaterials (ENMs) in thousands of consumer products. With subtle variation in physicochemical properties a near infinite number of ENMs can be generated. The widespread use of ENMs in consumer products is a concern for potential unintended exposure to ENMs. The overarching goals of the Nanotechnology Health Implications Research (NHIR) consortium are to gain fundamental understanding on the molecular and pathological pathways involved in the toxicity of ENM-biological interactions for a library of ENMs representing high production, use in consumer products, including emerging two and three dimensional ENMs containing new transitional metals and whose toxicology is unknown. This session will highlight the goals, objectives and ongoing efforts by the NHIR consortium and opportunities for collaboration among materials science and toxicology research community in addressing this important public health issue.

Chairing: S.S. Nadadur, PhD, Durham, NC
K.E. Pinkerton, PhD, Davis, CA

12:15 NHIR Consortium
S.S. Nadadur, PhD, Durham, NC

12:22 Multiple pathways of exposure to Nanoparticles
K.E. Pinkerton, PhD, Davis, CA

12:38 Biological Response Profiles of Engineered Nanomaterials after Perinatal Inhalation Exposure
Speaker To Be Announced

12:54 Optical Methods for Studying Label Free Nanomaterial Uptake and Toxicology
Speaker To Be Announced

1:10 General Discussion

U.S. FOOD AND DRUG ADMINISTRATION (FDA)

L25 GENERIC DRUG DEVELOPMENT FOR RESPIRATORY PRODUCTS: U.S. FOOD AND DRUG ADMINISTRATION UPDATE

12:15 p.m. - 1:15 p.m. SAN DIEGO CONVENTION CENTER

Room 16 A-B (Mezzanine Level)

Target Audience

Clinicians in practice, researchers, pharmaceutical industry representatives, international drug regulators

Objectives

At the conclusion of this session, the participant will be able to:

- recognize key aspects of the generic drug regulatory approval process, and how the Office of Generic Drugs (OGD) evaluates bioequivalence for complex inhaled generic drug products, using a weight of evidence approach;
- describe product specific recommendations and guidances for generic drug products recently posted by the Office of Generic Drugs (OGD), with a focus on how these can inform complex orally inhaled and nasal generic drug development;
- articulate how emerging technologies and innovative approaches are being utilized for FDA-funded research, FDA guidance development, and regulatory decision making.

This session will describe respiratory product development of generic drugs within the US, focusing on paths forward to bring safe and effective generic respiratory products to the American public. A general overview will summarize the generic drug approval process, focusing on the weight of evidence approach to bioequivalence used. Discussion of recent posted regulatory guidance and product approvals will provide the audience a greater understanding of the generic approval process, and how the use of emerging technologies and outcomes of research projects contribute to scientific understanding for these complex orally inhaled and nasal drug products to inform regulatory actions will be explained.

Chairing: K.A. Witzmann, MD, Silver Spring, MD

12:15 Introduction
K.A. Witzmann, MD, Silver Spring, MD

12:18 Overview of FDA Generic Inhaled Drug Approval Process
M. Luke, MD, PhD, Silver Spring, MD

12:35 Emerging Concepts and New Technologies for Bioequivalence of Orally Inhaled and Nasal Drug Products

K.A. Witzmann, MD, Silver Spring, MD

12:52 Update for Generic Orally Inhaled and Nasal Drug Products

B. Newman, PhD, Silver Spring, MD

1:09 Questions and Answers

K.A. Witzmann, MD, Silver Spring, MD

DIVISION OF LUNG DISEASES/NHLBI, NIH**L26 ASTHMANET: CURRENT CLINICAL TRIAL RESULTS****12:15 p.m. - 1:15 p.m.****SAN DIEGO CONVENTION CENTER****Room 33 A-C (Upper Level)****Target Audience**

Clinicians managing asthma

Objectives

At the conclusion of this session, the participant will be able to:

- understand approaches to manage African American patients with asthma;
- learn and understand the relevance of sputum eosinophilia;
- understand the differences in outcomes in African American children and adults with asthma.

Investigators from NHLBI's multi-site clinical trial network to address asthma management in children and adults will present the results of their recently completed clinical trials. The clinical trials to be presented will include alternative approaches to asthma treatment in specific populations of both children and adults. One of the clinical trials to be discussed will address the approach to asthma management in individuals who self-identify as African American: Best African American Response to Asthma Drugs (BARD). The other clinical trial presented will address asthma management based on one phenotype, Steroids in Eosinophil Negative Asthma (SIENA).

Chairing: W.W. Busse, MD, Madison, WI

M.M. Freemer, MD, MPH, Bethesda, MD

12:15 Best African American Response to Asthma Drugs (BARD)

M. Wechsler, MD, Denver, CO

12:45 Steroids in Eosinophil Negative Asthma (SIENA)

S.C. Lazarus, MD, San Francisco, CA

1:05 Questions and Answers/Discussion**DIVISION OF LUNG DISEASES/NHLBI, NIH****L27 LESSONS LEARNED FROM NHLBI SPONSORED INHALED PROGRAM: HIV AND AGING****12:15 p.m. - 1:15 p.m.****SAN DIEGO CONVENTION CENTER****Room 30 A-B (Upper Level)****Target Audience**

Providers of lung health, medical fellows in training, graduate, post-doctoral

fellows and established scientists in basic research on lung biology, HIV pathogenesis, and infection disease

Objectives

At the conclusion of this session, the participant will be able to:

- better understand the mechanisms of HIV related lung diseases in the HAART era;
- improve the understanding of the accelerated aging process in the HIV lung;
- learn new findings about the role of the virome, immunosenescence and oxidative stress in the aging lung in the context of HIV infection.

Effective antiretroviral therapy has significantly reduced infectious complications in HIV infection by limiting the loss of immune function and promoting immune reconstitution. However, the decline in infectious complications have been offset by an increased frequency of pulmonary and vascular diseases associated with chronic inflammation. Interestingly, the types of complications seen in HIV infected subjects today mirror those seen in an older non-HIV infected population, leading to the suggestion that HIV infection is a model for premature aging. This session will explore similarities and differences in lung disease found in HIV infected subjects and non-HIV infected aging populations. Potential similar pathogenic mechanisms leading to chronic inflammation will be discussed, including alterations in host immunity resulting in T cell immunosenescence, changes in the lung microbial composition (with a focus on viral changes), and excess oxidative stress. This work suggests a role for studying HIV infection as a potential model for chronic lung diseases found in the normal aging population.

Chairing: J.F. McDyer, MD, Pittsburgh, PA

E. Caler, PhD, Bethesda, MD

12:15 The Lung Virome, Inflammation, and Lung Complications in HIV Infection

H.L. Twigg, MD, Indianapolis, IN

12:27 Immunosenescence in the HIV Lung and the Aging Lung

A.P. Fontenot, MD, Aurora, CO

12:39 Oxidative Stress in the HIV Lung and Aging Lung

J. Roman, MD, Louisville, KY

12:51 Does the Lung in HIV Infection Structurally or at the Cellular Level Look and Behave Like An "Old" Lung?

R.G. Crystal, MD, New York, NY

1:03 Comparison of Epidemiology of Lung Disease in HIV Infection and Aging Population

J. Atkinson, MD, St. Louis, MO

DIVISION OF LUNG DISEASES/NHLBI, NIH**L28 LONGITUDINAL STABILITY OF SEVERE ASTHMA PHENOTYPES AND ENDOTYPES FROM THE NHLBI SEVERE ASTHMA RESEARCH PROGRAM****12:15 p.m. - 1:15 p.m.****SAN DIEGO CONVENTION CENTER****Room 29 A-D (Upper Level)****Target Audience**

Providers of lung health, especially providers who manage patients with asthma; investigators interested in mechanisms of disease in asthma

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

Objectives

At the conclusion of this session, the participant will be able to:

- learn new findings about clinical and molecular phenotypes of severe asthma;
- more appropriately refer to approaches being taken by NHLBI to improve understanding of severe asthma and accelerate progress toward new treatments;
- improve understanding of how the clinical features of severe asthma varies in children and adults.

In this session, on work in progress in the NHLBI sponsored severe asthma research program, there are four presentations planned to provide the learner with a cutting edge, data driven understanding of the clinical features of pediatric and adult severe asthma. Each presentation will cover the context, rationale and recent progress in addressing clinically relevant questions in severe asthma pathobiology, diagnosis and management, including baseline cross-sectional data on recruited healthy and asthmatic subjects, risk factors for asthma exacerbations, and, importantly, the change in pathophysiologic features of disease and phenotypes over time and their association with clinical outcome.

Chairing: S.E. Wenzel, MD, Pittsburgh, PA
T. Croxton, MD, PhD, Bethesda, MD

- 12:15 Adult 3 Year Longitudinal Follow-up**
Nizar N. Jarjour, MD, Univ of Wisconsin Hosps, Madison, WI
- 12:30 Pediatric 3 Year Longitudinal Follow-up**
B.M. Gaston, MD, Cleveland, OH
- 12:45 SARP Through the Years**
S.E. Wenzel, MD, Pittsburgh, PA
- 1:00 Group Discussion**

DIVISION OF LUNG DISEASES/NHLBI, NIH

L29 NEW RESULTS FROM THE COPDGENE STUDY

12:15 p.m. - 1:15 p.m. SAN DIEGO CONVENTION CENTER

Room 32 A-B (Upper Level)

Target Audience

Researchers, medical trainees, those with an interest in COPD pathogenesis

Objectives

At the conclusion of this session, the participant will be able to:

- learn about imaging in the COPDGene study;
- understand and learn about subtypes identified by the COPDGene study;
- learn about longitudinal follow-up in the COPDGene study.

Chronic obstructive pulmonary disease (COPD), the third leading cause of death in the United States, is a heterologous syndrome. The COPDGene study has created the largest cohort of well-characterized current and former smokers for respiratory disease research. The primary goals of COPDGene are: 1) to identify new genetic loci that influence the development of COPD and COPD-related phenotypes and 2) to reclassify COPD into subtypes that can ultimately be used to develop effective therapies. In this session, presenters will discuss new results from the COPDGene study, including protein biomarkers, genetics, and transcriptomics. In addition, presenters will discuss new insights

that have developed from the COPDGene study into the diagnosis of prognosis of COPD patients.

Chairing: L. Postow, PhD, Bethesda, MD
J.D. Crapo, MD, Denver, CO
E.K. Silverman, MD, PhD, Boston, MA

- 12:15 Introduction: Translating COPDGene Results to Clinical Practice**
J.D. Crapo, MD, Denver, CO
- 12:23 Imaging Updates from COPDGene**
S.P. Bhatt, Birmingham, AL
- 12:36 Developing Biomarkers for COPD**
C.P. Hersh, MD, MPH, Boston, MA
- 12:49 Insights into COPD Diagnosis from COPDGene**
M.H. Cho, MPH, MD, Boston, MA
- 1:02 Insights into COPD Prognosis from COPDGene**
G. Kinney, MPH, PhD, Aurora, CO



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Wednesday Afternoon, May 23

CLINICAL

ADULT CLINICAL CORE CURRICULUM

CME Credits Available: 2
MOC Points Available: 1.5

CC6 PULMONARY CLINICAL CORE CURRICULUM II

1:30 p.m. - 3:30 p.m. **SAN DIEGO CONVENTION CENTER**
Room 15 A-B (Mezzanine Level)

Target Audience

Practicing internists, subspecialists, registered nurses and advanced practice nurses in pulmonary, critical care, and sleep medicine who work in a clinical setting and are currently engaged in maintenance of certification

Objectives

At the conclusion of this session, the participant will be able to:

- remain current with medical knowledge relevant to their practice in pulmonary, critical care, and sleep medicine;
- evaluate their understanding of key skills and content areas in pulmonary, critical care and sleep medicine, as well as receive feedback on their comprehension of a result of a pre-test/post-test comparison;
- support clinicians who are engaged in maintenance of certification activities by providing updates on subjects included in recertification requirements.

The ATS Clinical Core Curriculum Symposia focus on a 3-year content cycle of key medical content in the areas of Pulmonary, Critical Care, and Sleep Medicine. The topics are also aligned with corresponding MOC Medical Knowledge modules. This symposium is intended to assist clinicians with staying current with the growth of information relevant to their medical practice, as well as provide an opportunity to evaluate individual knowledge and skills while earning MOC Medical Knowledge points.

Chairing: G.W. Garrison, MD, Burlington, VT

1:30 Pulmonary Complications of Neuromuscular Disease
G.T. Bosslet, MD, MA, Indianapolis, IN

2:00 Lung Transplant for Interstitial Lung Disease: Allocation, Preparation, and Outcomes
D. Sayah, MD, PhD, Los Angeles, CA

2:30 Occupational and Environmental Lung Disease: Pneumoconioses and Inhaled Toxins
M.B. Rice, MD, MPH, Boston, MA

3:00 Drug-Induced Lung Disease: Chemotherapeutic and Non-Chemotherapeutic Agents
S. Montesi, MD, Boston, MA

BEHAVIORAL • CLINICAL • TRANSLATIONAL

CLINICAL TOPICS IN PULMONARY MEDICINE

CME Credits Available: 2

Nursing Contact Hours Available: 2.4

D82 INTERVENTIONAL APPROACHES TO THE TREATMENT OF OBSTRUCTIVE LUNG DISEASES

Assemblies on Clinical Problems; Critical Care; Nursing; Pulmonary Rehabilitation; Respiratory Structure and Function; Thoracic Oncology

1:30 p.m. - 3:30 p.m. **SAN DIEGO CONVENTION CENTER**

Ballroom 20 B-C (Upper Level)

Target Audience

All clinicians, physicians, registered nurses, advanced practice nurses, residents, fellows, therapists and researchers caring for patients with COPD

Objectives

At the conclusion of this session, the participant will be able to:

- recognize the types of bronchoscopic interventions now available to treat irreversible airways obstruction;
- discuss the need for a multidisciplinary approach to treat a patient with irreversible airways obstruction;
- describe the different levels of lung obstructive disorders- airways obstruction due to asthma vs chronic bronchitis or advanced emphysema and the role of the different techniques to alleviate the separate entities causing airways obstruction.

There have been major advances in diagnostic and therapeutic bronchoscopy over the past decade. New bronchoscopic techniques for the diagnosis and therapy of a range of lung disorders is now possible. One major evolving area of investigation is the treatment of patients with obstructive lung disorders. From asthma to emphysema, chronic bronchitis, central airways obstruction and dynamic large airway collapse selective bronchoscopic therapies to alleviate irreversible airflow obstruction is now possible. This session will review the new bronchoscopic approaches for these different entities.

Chairing: G.J. Criner, MD, Philadelphia, PA
F.J. Herth, MD, Heidelberg, Germany
D. Slebos, PhD, MD, Gromingen, Netherlands
P. Shah, MD, London, United Kingdom

1:30 Introduction to Obstructive Lung Diseases Amenable to Bronchoscopic Intervention
G.J. Criner, MD, Philadelphia, PA

1:45 Technical Aspects of Bronchoscopic Interventions to Treat Obstructive Lung Diseases
F.J. Herth, MD, Heidelberg, Germany

2:00 Bronchial Thermoplasty for Treatment of Severe Asthma
D. Gompelmann, MD, Heidelberg, Germany

- 2:15 Use of Cryotherapy in Chronic Bronchitis**
P. Shah, MD, London, United Kingdom
- 2:30 Targeted Lung Denervation in Irreversible Airways Obstruction**
D. Slebos, PhD, MD, Gromingen, Netherlands
- 2:45 Lung Reduction in Advanced Emphysema**
F.C. Sciruba, MD, Pittsburgh, PA
- 3:00 Dynamic Tracheobronchial Collapse**
K. Klooster, RN, Groningen, Netherlands
- 3:15 Central Airways Obstruction**
M. Weir, MBChB, Philadelphia, PA

CLINICAL • TRANSLATIONAL**CLINICAL TOPICS IN PULMONARY MEDICINE**

CME Credits Available: 2

D83 CLINICAL TRIAL DESIGN IN IPF**Assembly on Clinical Problems****1:30 p.m. - 3:30 p.m. SAN DIEGO CONVENTION CENTER****Ballroom 20 D (Upper Level)****Target Audience**

Clinicians, researchers, regulatory board members, industry

Objectives

At the conclusion of this session, the participant will be able to:

- gain an understanding and appreciation for the basic tenets of clinical trial design. They will be expected to learn what constitutes a valid endpoint and surrogate endpoint for clinical trials of IPF and how other endpoints may be validated;
- understand the potential ethical and logistical impact on performing clinical trials in IPF;
- incorporate the lessons learned into the design of innovative randomized controlled trials in the future to study IPF.

While the approval of pirfenidone and nintedanib represents an exciting advancement in the treatment of IPF, many questions remain including when to initiate therapy, which therapy to choose, how to define drug efficacy given side effect profiles, and how these drugs should be incorporated into trials evaluating new therapies. To answer these questions, careful attention to trial design will be crucial. We will discuss the utility of clinical meaningful and surrogate endpoints in clinical IPF trials, including patient reported outcomes, serum biomarkers, and imaging characteristics. The ethics and logistics of recruiting subjects for trials in the era of antifibrotic drugs will be addressed.

Chairing: M. Porteous, MD, MSCE, Philadelphia, PA
H.R. Collard, MD, San Francisco, CA
K. Anstrom, PhD, Durham, NC

1:30 Feels, Function, Survives: Are Clinically Meaningful Endpoints Feasible in IPF Clinical Trials?
L. Richeldi, MD, PhD, Rome, Italy

1:55 Surrogate Endpoints in IPF: Are They Ready for Prime Time?
Speaker To Be Announced

2:20 Future of Imaging in IPF for Inclusion and Outcome Assessment

M. Porteous, MD, MSCE, Philadelphia, PA

2:45 Novel IPF Trial Design in the Era of Anti-Fibrotic Therapy
K. Anstrom, PhD, Durham, NC

3:10 Improving Efficiencies in Clinical Trial Conduct
P.J. Smith, PhD, MD, Durham, NC

CLINICAL • TRANSLATIONAL**CRITICAL CARE TRACK**

CME Credits Available: 2

D84 CRITICAL ILLNESS AND THE AGING BRAIN: DEMENTIA AND DELIRIUM IN THE ICU**Assemblies on Critical Care; Nursing****1:30 p.m. - 3:30 p.m.****SAN DIEGO CONVENTION CENTER****Ballroom 20 A (Upper Level)****Target Audience**

Nurses, physicians, pharmacists, therapists, and social workers who provide care in the intensive care unit (ICU), inpatient providers caring for patients transferred from the ICU; clinical and translational scientists

Objectives

At the conclusion of this session, the participant will be able to:

- identify tools to screen for cognitive impairment/ dementia in patients with critical illness and to review common clinical problems among those with cognitive impairment/dementia who are admitted to the ICU and discuss their management;
- understand best practices to facilitate communication, screen for delirium, and mobilize those with cognitive impairment/dementia with critical illness;
- understand important interrelated epidemiological trends related to aging, cognitive impairment/dementia, and critical illness and implications for critical care providers, health systems, and society.

The number of persons with cognitive impairment/dementia will triple in the next 30 years. The bidirectional relationship between cognitive impairment and critical illness means a growing number of persons with cognitive impairment/dementia will be admitted to the ICU. Moreover, among the growing number of survivors, up to 75% will develop new or worsened cognitive impairment as the result of their critical illness. This session will use a diverse and interdisciplinary panel of speakers to explore the associations between cognitive impairment and critical illness and discuss the unique issues that patients with cognitive impairment/dementia who become critically ill face in the ICU.

Chairing: N.E. Brummel, MD, MSci, Nashville, TN
C.A. Austin, MD, Chapel Hill, NC
M. Kho, PT, PhD, Hamilton, Canada

1:30 How Critical Illness Changed My Brain: A Patient's Perspective
H. Felt, Northport, AL

1:50 Dementia on the (ICU) Doorstep
R.L. Owens, MD, La Jolla, CA

2:10 Clarifying the Confusion: Detecting Delirium During Dementia
A. Slooter, MD, PhD, Utrecht, Netherlands

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

2:30 Silence is Not Golden: Communicating with Cognitively Impaired Patients in the ICU

J. Tate, PhD, RN, Columbus, OH

2:50 This Is Your Brain on Exercise

S. Berney, PhD, PT, Heidelberg, Australia

3:10 Critical Illness Brain Injury: Pathways from Delirium to Dementia

N.E. Brummel, MD, MSCI, Nashville, TN

BASIC • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

D85 HYPOGLOSSAL MOTONEURONS IN OSA: HOW TO FIX THE BROKEN ENGINE

Assembly on Sleep and Respiratory Neurobiology; Drug Device Discovery and Development Committee

1:30 p.m. - 3:30 p.m.

SAN DIEGO CONVENTION CENTER

Room 7 A-B (Upper Level)

Target Audience

Health providers for sleep apnea patients those interested in developing novel therapies for sleep apnea

Objectives

At the conclusion of this session, the participant will be able to:

- describe the role of hypoglossal neurons in obstructive sleep apnea pathogenesis.
- identify novel pathways that can be targeted in sleep apnea.
- recognize the scientific and regulatory process of developing pharmacotherapies for OSA.

Obstructive sleep apnea (OSA) is recurrent obstruction of upper airway during sleep caused by a combination of anatomical and functional factors. Among these, lack of airway neuromuscular tone during sleep is a major factor. Continuous positive airway pressure (CPAP) is the first-line therapy for OSA, but is often poorly tolerated. Recently, we improved our understanding of upper airway muscle control during sleep, opening new horizons for sleep apnea therapeutics. This Major Symposium will review the state of the art knowledge about control of hypoglossal neurons in health and disease, as well as novel approaches to pharmacotherapy of OSA.

Chairing: L.F. Drager, MD, Sao Paulo, Brazil
G.S. Gilmartin, MD, Boston, MA
A. Jordan, PhD, Parkville, Australia

1:30 Hypoglossal Neurons and Control of Breathing

J. Feldman, PhD, Los Angeles, CA

1:55 Hypoglossal Motoneurons as a Drug Target in OSA

R.L. Horner, PhD, Toronto, Canada

2:20 Chemogenetic Modulation of Hypoglossal Motoneurons: Can DREADDs Treat OSA?

V.Y. Polotsky, MD, PhD, Baltimore, MD

2:45 Deep Phenotyping of the Upper Airway: What Is Wrong with the Motor?

D.A. Wellman, MD, PhD, Boston, MA

3:10 What Is the Next Step for Pharmacotherapy of OSA: Round Table

G.S. Gilmartin, MD, Boston, MA

BEHAVIORAL • CLINICAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

Nursing Contact Hours Available: 2.4

D86 INTERDISCIPLINARY TEAMS: OPTIMIZING CARE IN ADULT AND PEDIATRIC PULMONARY AND CRITICAL CARE

Assemblies on Behavioral Science and Health Services Research; Nursing; Pediatrics

1:30 p.m. - 3:30 p.m.

MARRIOTT MARQUIS SAN DIEGO MARINA

Room 14 A-B (Mezzanine Level)

Target Audience

Applicable to a broad span of attendees, including clinicians, registered nurses, advanced practice nurses, administrators, and researchers who utilize or are considering team-based care models for clinical care and research.

Objectives

At the conclusion of this session, the participant will be able to:

- discuss the evidence for team based care, including patient and provider outcomes;
- describe several team based care models which include medical professionals and non-professionals and their outcomes;
- compare and contrast structure, feasibility, and financing of team-based care models in order to be able to replicate and adapt these models for their institutions.

Interdisciplinary health care teams are increasingly used to deliver high-quality, high value care. This symposium will examine the evidence for team based care, including patient and provider outcomes. We will feature various care models of teams that incorporate professionals, non-professionals, patients or families to optimize care in adult and pediatric pulmonary and critical care across clinical and community settings. Examples include communication facilitators in critical care, integrated teams in pulmonary clinic, lay health workers in asthma care, and care coordinators outside the health care system. Each care model will share granular program components, including structure, feasibility, and financing, to allow attendees to replicate these models in their settings.

Chairing: A. Volerman, MD, Chicago, IL
N. Thakur, MD, MPH, San Francisco, CA
M.B. Happ, PhD, Columbus, OH

1:30 Introduction

A. Volerman, MD, Chicago, IL

1:33 The Evidence For Team-Based Care in Pulmonary And Critical Care Medicine

D.M. Donesky, PhD, ANP-BC, San Francisco, CA

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- 1:45 Incorporating Communication Facilitators in Critical Care**
J.R. Curtis, MD, MPH, Seattle, WA
- 2:00 Integrating Former Patients on the Team to Improve Outcomes for ICU Survivors**
K.J. Haines, PhD, PT, St Albans, Australia
- 2:15 Maximizing the Role of Respiratory Therapists to Deliver COPD Care in Clinic**
G. Atkins, BSc(Hons), MBChB, MRCP, Lebanon, NH
H. Pelchat, RT, Lebanon, NH
- 2:30 Utilizing Patient Advocates to Facilitate Adult Asthma Care in Real World Practice**
A.J. Apter, MA, MD, MSc, Philadelphia, PA
- 2:45 Expanding Care Coordination to Outside the Health Care System**
N. Thakur, MD, MPH, San Francisco, CA
- 3:00 Integrating Lay Health Workers for Pediatric Asthma in Community Settings**
A. Volerman, MD, Chicago, IL
- 3:15 Summary and Panel Discussion**
M.B. Happ, PhD, Columbus, OH

BASIC • TRANSLATIONAL**SCIENTIFIC SYMPOSIUM**

CME Credits Available: 2

D87 TO EACH ITS OWN: SINGLE CELL MRNA SEQUENCING IN LUNG DEVELOPMENT AND DISEASE

Assemblies on Respiratory Cell and Molecular Biology; Pediatrics; Thoracic Oncology

1:30 p.m. - 3:30 p.m. **MARRIOTT MARQUIS SAN DIEGO MARINA**
Pacific Ballroom 21 (North Tower, First Floor)**Target Audience**

Providers of lung health; those with clinical and research responsibilities; and those needing instruction in novel approaches to studying disease biomarkers

Objectives

At the conclusion of this session, the participant will be able to:

- learn new findings about the use of single-cell RNA-Seq to evaluate cellular heterogeneity in lung development and disease;
- understand the complexity of lung disease states such as cancer and fibrosis and how a diversity of affected cell types contribute to disease pathogenesis;
- develop an understanding of novel approaches that apply analysis of cellular complexity to the development of new treatments.

Speakers will represent a broad range of pulmonary investigation from development to cancer to fibrosis who are using the novel technique of single cell mRNA sequencing for discovery of cellular heterogeneity and novel pathways in lung biology. Major themes will include the use of advanced bioinformatic and big data approaches for understanding clusters and trends within single cell transcriptomic datasets; illustration of the unique advantages of single cell seq as

a discovery tool; and application of the technology to clinical samples with attention to diagnostic and therapeutic implications.

Chairing: M. Bhattacharya, MD, San Francisco, CA
L. Ikonou, PhD, Boston, MA

- 1:30 Epithelial Cell Heterogeneity in IPF**
Y. Xu, PhD, Cincinnati, OH
- 1:50 Specification of the Proximal-Distal Axis in Lung Epithelial Development**
D.B. Frank, MD, PhD, Philadelphia, PA
- 2:10 Single Cell Genomic and Transcriptomic Analysis of Lung Cancer**
A. Ramachandran, PhD, Boston, MA
- 2:30 Identifying Macrophages in Fibrotic Lung: Annotation of Single Cell mRNA Seq**
D. Aran, PhD, San Francisco, CA
- 2:50 Multiplexed Single Cell mRNA Detection in Lung by Proximity Ligation**
T. Desai, MD, MPH, Stanford, CA
- 3:10 Quantification of Somatic Mutations in Individual Cell Division Events by "Lineage Sequencing"**
Y. Brody, PhD, Cambridge, MA

BASIC • BEHAVIORAL • CLINICAL • TRANSLATIONAL**SCIENTIFIC SYMPOSIUM**

CME Credits Available: 2

D88 PERSONALIZED PREVENTION OF LUNG DISEASE

Assemblies on Environmental, Occupational and Population Health; Allergy, Immunology and Inflammation; Behavioral Science and Health Services Research; Clinical Problems; Pulmonary Infections and Tuberculosis; Pediatrics

1:30 p.m. - 3:30 p.m. **SAN DIEGO CONVENTION CENTER**
Room 3 (Upper Level)**Target Audience**

Clinicians, researchers, educators. Those interested in exposures and personalized interventions may be most drawn, but there is outstanding applicability to a broad span of conference attendees. Co-chairs and speakers reflect a range of assemblies.

Objectives

At the conclusion of this session, the participant will be able to:

- understand the framework and evidence for how a personalized approach can be brought to bear on prevention of lung disease;
- understand the clinical relevance and policy impacts of bringing a personalized perspective to prevention of lung disorders in the context of environmental exposures and genomics;
- apply the recent advances in clinical, in vivo, and in vitro models of personalized prevention for improved study design, better public health policies and interventions to improve respiratory health.

The prevailing focus within 'personalized medicine' emphasizes an individual's genes and therapy-focused biology that insufficiently incorporates the important role of environmental factors in lung disease etiology. Including these factors

allows for personalized health, a more preventive orientation. For example, a better understanding of the relationship between environmental exposure and the lung epigenome might lead to more efficient preventive measures. This symposium brings together experts who present data supporting a personalized approach to preventing lung disease.

Chairing: C. Carlsten, MD, MPH, Vancouver, Canada
E. Brigham, MD, MHS, Baltimore, MD
T.D. LeVan, PhD, Omaha, NE

1:30: Patient's Perspective

D. Matlach, DMin, Fountain Hills, AZ

1:35 What Does Personalized Prevention of Lung Disease Really Mean?

C. Carlsten, MD, MPH, Vancouver,

1:50 Targeting Early Origins of Chronic Lung Disease: A Personalized Approach

E. Melen, PhD, MD, Stockholm, Sweden

2:10 Personalizing Prevention of COPD

R.G. Barr, MD, DrPH, New York, NY

2:30 Biomarkers to Guide Personalized Prevention of Lung Disease

S. Guerra, MD, PhD, Tucson, AZ

2:50 Modifiable Factors That May Affect Susceptibility to Exposures: a Look at Diet and Obesity

N.N. Hansel, MD, MPH, Baltimore, MD

3:10 Epigenetic Plasticity and Primary Prevention of Lung Disease

D.L. DeMeo, MD, Boston, MA

CLINICAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

D89 LONG-TERM COMPLICATIONS AFTER RESPIRATORY INFECTIONS AND SEPSIS

Assemblies on Pulmonary Infections and Tuberculosis; Behavioral Science and Health Services Research; Clinical Problems; Critical Care

1:30 p.m. - 3:30 p.m. **MARRIOTT MARQUIS SAN DIEGO MARINA**

Grand Ballroom 8-9 (North Tower, Lobby Level)

Target Audience

Physicians who care for patients hospitalized with pneumonia (e.g., intensivists, pulmonologists, hospitalists, emergency medicine, infectious diseases), and those with research interests in respiratory infections

Objectives

At the conclusion of this session, the participant will be able to:

- describe the impact of respiratory infections on long-term mortality and morbidity;
- explain the relationship of respiratory infections and cardiovascular events;
- describe the potential biomarkers associated with increased long-term mortality and morbidity in patients with respiratory infections.

This session will have internationally recognized experts review and synthesize the current literature on long-term (1 year) outcomes, including mortality,

cardiac events, and lung function, for patients with respiratory infections including pneumonia and bronchiectasis, as well as sepsis. The lectures will focus on identifying those at risk for increased long term complications as well as potential treatments to avoid these complications.

Chairing: E.M. Mortensen, MD, MSc, Farmington, CT
N.C. Dean, MD, Murray, UT

1:30 Long-Term Outcomes After Pneumonia and Sepsis: It's Not Over Until It's Over!

E.M. Mortensen, MD, MSc, Farmington, CT

1:55 Cardiac Complications After Respiratory Infections

J.D. Chalmers, MD, PhD, Dundee, United Kingdom

2:15 Chronic Lung Disease After Respiratory Infections

C. Dela Cruz, MD, PhD, New Haven, CT

2:40 Complications of Bronchiectasis

M.L. Metersky, MD, Farmington, CT

3:00 Predictors of Long-Term Outcomes for Patients with Pneumonia and Sepsis

S. Yende, MD, Pittsburgh, PA

*This session and the International Conference are supported by an educational grant from **Insmed Incorporated**.*

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BEHAVIORAL • CLINICAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

D90 DIVERSITY ACROSS THE CRITICAL CARE SPECTRUM FROM PATIENTS TO CLINICIANS TO LEADERS: WHY IT MATTERS

Assemblies on Critical Care; Behavioral Science and Health Services Research; Pediatrics

1:30 p.m. - 3:30 p.m.

SAN DIEGO CONVENTION CENTER

Room 33 A-C (Upper Level)

Target Audience

Trainees, clinicians, academics, and health care leaders seeking to understand the benefits of a diverse critical care field and interested in practical solutions to improve diversity will benefit from attendance

Objectives

At the conclusion of this session, the participant will be able to:

- improve patient outcomes through strategies to reduce health care disparities;
- understand how workforce diversity can improve patient outcomes;
- develop practical strategies to improve workforce diversity.

Greater diversity has been shown to improve problem solving. Yet, gender and racial differences persist throughout the spectrum of critical care, from patients to clinicians. This session will start with talks on disparities in outcomes in critical illness and will introduce practical strategies to reduce disparities. We will subsequently demonstrate how diversity in leadership teams improves

outcomes through real world case studies. The session will then focus on pragmatic strategies to diversify the critical care workforce, research, and leadership committees, concluding with a panel discussion between the audience, speakers, and prominent leaders in critical care.

Chairing: T.S. Valley, MD, MSc, Ann Arbor, MI
H.B. Gershengorn, MD, Miami, FL
M. Hua, MD, MSci, New York, NY

- 1:30 Cross-Cultural Comparisons: Using International Critical Care Practices to Understand Differences in Patient Care**
S. Murthy, MD, Vancouver, Canada
- 1:46 Interventions to Reduce Disparities in Critical Care: Lessons from Payment and Delivery System Reform**
M. Chin, MD, MPH, Chicago, IL
- 2:04 Breaking the Mold: Diversifying the Emerging Critical Care Workforce**
M.B. Lane-Fall, MD, MSHP, Philadelphia, PA
- 2:20 Why It Matters: Strategies to Maintain a Pipeline of Diverse Intensivists**
B. Cryer, MD, Dallas, TX
- 2:38 An Evolving Workforce for the Evolving Needs of Critically Ill Children**
C.L. Riley, MD, MPP, MHS, Cincinnati, OH
- 2:54 Learning From the Past and Moving Towards the Future: Gender Parity in Academic Medicine**
S. Mehta, MD, Toronto, Canada
- 3:10 Panel Discussion**
H.B. Gershengorn, MD, Miami, FL

BASIC

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

D91 EPITHELIAL PROGENITOR CELLS: BIOLOGY, ROLE IN DISEASE, AND POTENTIAL THERAPEUTIC TARGETS

1:30 p.m. - 3:30 p.m. MARRIOTT MARQUIS SAN DIEGO MARINA
Grand Ballroom 5-6 (North Tower, Lobby Level)

Target Audience

Basic scientists and clinicians, student and postdoctoral trainees with an interest in functions of epithelial progenitor cells and their role in disease and potential therapeutic targets

Objectives

At the conclusion of this session, the participant will be able to:

- gain new findings about lung stem/progenitor cells;
- apply potential strategy to the therapy of lung diseases;

Speakers will cover recent discoveries related to identification and characterization of lung epithelial stem/progenitor cells in vivo and in vitro and their roles in development, adult lung homeostasis and injury/repair. Speakers will also discuss the lung stem/epithelial progenitor cell niche (i.e., support by other cell types such as fibroblasts), and therapeutic potential for disease treatment.

Chairing: Z. Borok, MD Los Angeles, CA
W. Cardoso, MD, PhD, New York, NY
A. Firth, PhD, Los Angeles, CA

- 1:30 Developmental and Therapeutic Potential of Sox9+ Mouse Lung Progenitors**
M. Nichane, PhD, Stanford, CA
- 1:50 Epithelial Stem/Progenitor Cells in the Adult Lung: Role in Alveolar Epithelial Cell Homeostasis and Injury/Repair**
M.A. O'Reilly, PhD, Rochester, NY
- 2:10 Region-Specific Crosstalk Between Airway Stem Cells and Adjacent Mesenchymal Cells**
C. Kim, PhD, Boston, MA
- 2:30 Targeting the Vascular and Perivascular Niches as a Regenerative Therapy for Lung Fibrosis**
B. Ding, PhD, New York, NY
- 2:50 Modeling Lung Development and Disease Using Human Pluripotent Stem Cells**
H. Snoeck, MD, PhD, New York, NY
- 3:10 Differentiation of Human Pluripotent Stem Cells into Functional Lung Alveolar Epithelial Cells: Potential Therapeutic Applications**
D.N. Kotton, MD, Boston, MA

MINI SYMPOSIUM

D92 GENETICS AND GENOMICS OF OBSTRUCTIVE LUNG DISEASE

1:30 p.m. - 3:30 p.m. SAN DIEGO CONVENTION CENTER
Room 6 A (Upper Level)

Chairing: C.P. Hersh, MD, MPH, Boston, MA
M.H. Cho, MPH, MD, Boston, MA

Oral Presentations

- 1:30 Bronchial Alveolar Lavage Gene Expression Discovers New Biological Mechanisms and Further Refines Phenotypes in Severe Asthma/B. Modena, N.M. Weathington, T.C. Whisenant, E.R. Bleecker, W.W. Busse, S.C. Erzurum, B.M. Gaston, N.N. Jarjour, D.A. Meyers, J. Milosevic, J.R. Tedrow, W. Wu, N. Kaminski, S.E. Wenzel, La Jolla, CA, p.A7361**
- 1:45 Distinguishing Molecular Phenotypes in Severe Asthma Using Genomic Signatures of the Airway Epithelial Inflammatory Response in the Severe Asthma Research Program/J. Nguyen, N.R. Bhakta, M.C. Peters, E.R. Bleecker, M. Castro, S.C. Erzurum, E. Israel, N.N. Jarjour, D. Mauger, S.E. Wenzel, J.V. Fahy, P. Woodruff, S. Christenson, San Francisco, CA, p.A7362**
- 2:00 Systems Immunology Identifies the Combined Activity of a Set of MicroRNAs in Shaping the Th2 Phenotype in Allergic Airway Inflammation/A. Kilic, M. Santolini, T. Nakano, M. Schiller, M. Teranishi, P. Gellert, Y. Ponomareva, S. Uchida, T. Braun, S.T. Weiss, A. Sharma, H. Renz, Boston, MA, p.A7363**

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- 2:15 A Morphometric “Hot Spot” for Terminal Bronchiolar Destruction in COPD/F.** Xu, D.M. Vasilescu, D. Kinose, N. Tanabe, S. Verleden, B. Vanaudenaerde, J.D. Cooper, M.E. Lenburg, A. Spira, R. Ng, J.C. Hogg, Vancouver, Canada, p.A7364
- 2:30 Identification of Inflammatory Gene Expression Patterns Associated with Viral Upper Respiratory Tract Infections (URI) that Cause Asthma Exacerbations/M.C.** Altman, D. Babineau, E. Whalen, M.A. Gill, B. Shao, A.H. Liu, B. Jepson, R.S. Gruchalla, G.T. O'Connor, J.A. Pongratic, C.M. Kercksmar, G. Khurana Hershey, E.M. Zoratti, C.C. Johnson, S. Teach, M. Kattan, L.B. Bacharier, A. Beigelman, S. Sigelman, P.J. Gergen, L.M. Wheatley, S. Presnell, A. Toggias, J.E. Gern, W.W. Busse, D.J. Jackson, Seattle, WA, p.A7365
- 2:45 Metabolites in Newborns Are Correlated with Immune-Response to Acute Respiratory Syncytial Virus Infection and Are Associated with Subsequent Recurrent Wheeze/K.N.** Turi, K.K. Ryckman, J. Shankar, L.J. Anderson, T. Gebretsadik, S.R. Das, B.M. Donovan, C.A. Stone, T.V. Hartert, Nashville, TN, p.A7366
- 3:00 Metabolite Quantitative Trait Loci Provide a Functional Link Between FADS2 and Lung Obstruction in Asthmatics/R.S.** Kelly, B.A. Raby, S.T. Weiss, J.A. Lasky-Su, Boston, MA, p.A7367
- 3:15 Integrative Genomic Analysis of Transcriptomic Endotypes Identifies Novel Asthma Genes/J.-H.** Chu, X. Yan, A. Liang, B. Hu, J.L. Gomez, G.L. Chupp, New Haven, CT, p.A7368

MINI SYMPOSIUM

D93 LUNG TRANSPLANT: CLINICAL RESEARCH

1:30 p.m. - 3:30 p.m. SAN DIEGO CONVENTION CENTER

Room 32 A-B (Upper Level)

Chairing: C.C. Kennedy, MD, Rochester, MN
A.R. Glanville, MD, MBBS, Sydney, Australia
M.M. Budev, DO, MPH, Cleveland, OH

Featured Speaker

1:30 **Featured Speaker/J.P.** Singer, MS, MD, San Francisco, CA

Oral Presentations

- 1:45 Lung Transplant Outcomes in Pulmonary Fibrosis Patients with Telomere-Related Gene Mutations/A.** Swaminathan, M.L. Neely, C.W. Frankel, F.L. Kelly, S. Petrovski, M.T. Durham, D.B. Goldstein, S.M. Palmer, J.L. Todd, Durham, NC, p.A7369
- 2:00 Effect of Acute Exacerbations of Idiopathic Pulmonary Fibrosis on Lung Transplant Outcomes/Y.** Dotan, A. Vaidy, K.V. Shenoy, F.C. Cordova, G.J. Criner, A.J. Mamary, Philadelphia, PA, p.A7370
- 2:15 Transient Populations of the Human Pulmonary Virome Are Not Associated with Acute Rejection After Lung Transplantation/A.** Mitchell, B. Mourad, L. Morgan, B. Oliver, A.R. Glanville, Sydney, Australia, p.A7371

- 2:30 Intrathoracic Adipose Gene Expression and Primary Graft Dysfunction After Lung Transplantation/M.R.** Anderson, E. Edwin, J.M. Diamond, J.P. Singer, T. Blue, M. Oyster, L. Kalman, M. Rushefski, W. Liu, S.M. Arcasoy, J. Sonett, F. D'Ovidio, M.D. Bacchetta, J.D. Newell Jr., E. Cantu, S.M. Palmer, J. Giles, A.W. Ferrante, J.D. Christie, D.J. Lederer, New York, NY, p.A7372
- 2:45 Polymyositis and Dermatomyositis in Lung Transplantation: The National U.S. Experience/G.** Dincheva, K. Rajalingam, J.W. Chen, M. Brzezinski, A.A. Venado Estrada, L.E. Leard, R.J. Shah, M.E. Kleinhenz, J.A. Golden, S.R. Hays, J.P. Singer, J. Kukreja, San Francisco, CA, p.A7373
- 3:00 Stable Lung Transplant Survival Benefit at High Values of the Lung Allocation Score/S.S.** Li, D. Tumin, W. Stewart, J.D. Tobias, D. Hayes, Columbus, OH, p.A7374
- 3:15 Bronchiolitis-Obliterans Syndrome-Free Survival Following Bilateral Versus Single Lung Transplantation - An Analysis of the International Society of Heart and Lung Transplantation (ISHLT) Registry/H.S.** Kulkarni, R.R. Hachem, D.E. Byers, C.A. Witt, E.P. Trulock, R.D. Yusen, St. Louis, MO, p.A7375

MINI SYMPOSIUM

D94 CRITICAL CARE: TRANSLATING PRACTICE TO OUTCOMES FOR OUR PATIENTS WITH ACUTE CRITICAL ILLNESS

1:30 p.m. - 3:30 p.m. SAN DIEGO CONVENTION CENTER

Room 29 A-D (Upper Level)

Chairing: G.L. Anesi, MD, MSCE, MBE, Philadelphia, PA
H.C. Prescott, MD, MSci, Ann Arbor, MI
M.S. Herridge, MD, Toronto, Canada

Oral Presentations

- 1:30 Variation in US Management Practices in Moderate-to-Severe ARDS: The Severe ARDS: Generating Evidence (SAGE) Study/P.K.** Park, N. Qadir, R.R. Bartz, M. Cooter, M.J. Lanspa, J.-T.T. Chen, V. Banner-Goodspeed, D. Gomaa, M.W. Sjoding, A. Duggal, A. Khanna, N. Hajizadeh, R. Kashyap, A. Khan, S.Y. Chang, J.E. Tonna, H.L. Anderson, III, J.M. Liebler, J.M. Mosier, I.K. Louh, P.E. Morris, A.A. Genthon, M.A. Tidswell, R.S. Stephens, D.J. Dries, A. Martinez, A. Tiwari, A.M. Esper, P.K. Guru, K. Schreyer, C.T.L. Hough, W. Bender, S. Hanna, T. Chen, J.M. Komisarow, M.N. Gong, Ann Arbor, MI, p.A7376
- 1:45 The Association of ICU Acuity with Adherence to Evidence-Based Practices Is Variable/K.** Vranas, J.Y. Scott, C.G. Slatore, O. Badawi, M.O. Harhay, D. Sullivan, M.P. Kerlin, Portland, OR, p.A7377
- 2:00 Endotracheal Intubation Versus Supraglottic Airway Insertion After Out-of-Hospital Cardiac Arrest: A Nationwide Population-Based Cohort Study/T.** Fukuda, N. Ohashi-Fukuda, Y. Kondo, K. Hayashida, H. Sekiguchi, I. Kukita, Okinawa, Japan, p.A7378
- 2:15 Association Between the Availability of Hospital-Based Palliative Care and Treatment Intensity for Critically Ill Patients/M.** Hua, X. Ma, R.S. Morrison, G. Li, H. Wunsch, New York, NY, p.A7379

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- 2:30 Health Insurance and Disparities in Mortality Among Older Survivors of Critical Illness/Y.F. Philpotts, X. Ma, M.R. Anderson, M. Hua, M.R. Baldwin, New York, NY, p.A7380**
- 2:45 Patient Outcomes After the Introduction of Statewide Nurse Staffing Regulations in the Intensive Care Unit/A. Law, J. Stevens, A.J. Walkey, Boston, MA, p.A7381**
- 3:00 Effects of Changes in the ICU Beds Supply on ICU Utilization in the United States/I. Barbash, D. Wallace, J. Kahn, Pittsburgh, PA, p.A7382**
- 3:15 Physician Resources and Job Satisfaction: A Survey of Canadian Critical Care Physicians/K. Burns, A. Fox-Robichaud, E. Lorens, C.M. Martin, Toronto, Canada, p.A7383**

MINI SYMPOSIUM

D95 MECHANISMS OF BRONCHOPULMONARY DYSPLASIA

1:30 p.m. - 3:30 p.m. SAN DIEGO CONVENTION CENTER
Room 6 B (Upper Level)

Chairing: R.M. Ryan, MD, Charleston, SC
J. Benjamin, MD, MPH, Nashville, TN

Oral Presentations

- 1:30 Neonatal Pulmonary MRI of Bronchopulmonary Dysplasia Predicts Short-Term Clinical Outcomes/N.S. Higano, D. Spielberg, R. Fleck, A. Schapiro, L. Walkup, A. Hahn, J. Tkach, P. Kingma, S. Merhar, S. Fain, J. Woods, Cincinnati, OH, p.A7384**
- 1:45 Monocyte/Macrophage Populations Evolve in Tracheal Samples from Patients at Risk for Bronchopulmonary Dysplasia/L.C. Eldredge, R.S. Creasy, S.E. Juul, D.E. Mayock, S.F. Ziegler, Seattle, WA, p.A7385**
- 2:00 Endothelial Specific Deletion of IKKb in the Early Alveolar Lung Impairs Alveolarization and VEGF-Mediated Angiogenesis/S. Rao, M. Liu, C.M. Alvira, Palo Alto, CA, p.A7386**
- 2:15 Maternal High Fat Diet Causes Decreased Alveolarization and Persistent Pulmonary Inflammation in the Offspring/L.K. Rogers, K. Heyob, S. Mieth, T.E. Tipple, Columbus, OH, p.A7387**
- 2:30 Neonatal CCR2 Knockout Mice Are Protected from Chronic LPS-Induced Pulmonary Inflammation and Hypoalveolarization/C. Fulton, T.X. Cui, A.P. Popova, Ann Arbor, MI, p.A7388**
- 2:45 Early Lipopolysaccharide Exposure Disrupts Alveolarization in Neonatal Mice: Implications for Postnatal Sepsis-Mediated Bronchopulmonary Dysplasia in Preterm Infants/B. Shivanna, R. Menon, A. Shrestha, Houston, TX, p.A7389**
- 3:00 Single Nucleotide Polymorphisms in Hedgehog Interacting Protein Gene Are Associated with Susceptibility of Bronchopulmonary Dysplasia and Patent Ductus Arteriosus in Preterm Infants/S. Amatya, M. Gordon, S. Rajbhandari, U. Paudel, L.A. Parton, Valhalla, NY, p.A7390**
- 3:15 Signature of Top Omic Profile in Bronchopulmonary Dysplasia (STOP BPD)/C.V. Lal, N. Olave, N. Ambalavanan, Birmingham, AL, p.A7391**

MINI SYMPOSIUM

D96 CRACKING THE CELLULAR CODE IN PULMONARY HYPERTENSION

1:30 p.m. - 3:30 p.m. SAN DIEGO CONVENTION CENTER
Room 30 A-B (Upper Level)

Chairing: S.S. Pullamsetti, PhD, Bad Nauheim, Germany
G. Kwapiszewska, PhD, Graz, Austria
C. Guignabert, PhD, Le Kremlin Bicetre, France

Oral Presentations

- 1:30 Cellular Origins of Neointima Formation and Artery Wall Remodeling in a Mouse Model of Pulmonary Hypertension/M. Kumar, A. Froistad, W. Zhang, M. Boehm, X. Tian, D. Hou, M. McGlynn, E.F. Spiekeroetter, K.C. Nadeau, Stanford, CA, p.A7392**
- 1:45 Pathogenic Variants in CRIPAK Are Associated with Endothelial Dysfunction and Small Vessel Loss in Pulmonary Arterial Hypertension/J. Tenorio, M. Orcholski, E. Shamskhov, K. Yuan, E. Granda, P. Arias, P. Lapunzina, V. De Jesus Perez, Madrid and Stanford, CA, p.A7393**
- 2:00 Endothelial and Smooth Muscle Cell Interaction Mediates Vascular Remodeling and Pulmonary Arterial Hypertension/Z. Dai, M.M. Zhu, Y. Peng, H. Jin, X. Zhang, Y. Zhao, Chicago, IL, p.A7394**
- 2:15 Upregulation of CHK1 in PAH-PASMCs Is Essential for Proliferation and Survival by Promoting DNA Repair Mechanisms/T. Peterlini, M.-C.C. Lampron, N. Samson, A. Bourgeois, S. Breuils-Bonnet, T. Bertero, S.Y. Chan, S. Provencher, O. Boucherat, S. Bonnet, Quebec, Canada, p.A7395**
- 2:30 Non-Canonical Vascular Smooth Muscle HIPPO-MST1/2 Signaling in Pulmonary Arterial Hypertension/A. Ray, T. Kudryashova, A. Rode, D. Goncharov, E.A. Goncharova, Pittsburgh, PA, p.A7396**
- 2:45 MMP-8 Deficiency Promotes Vascular Remodeling and Exacerbates Hypoxia-Induced Pulmonary Hypertension/P.B. Dieffenbach, C. Mallarino, A. Coronata, F. Polverino, S.H. Vitali, C.A. Owen, L.E. Fredenburgh, Boston, MA, p.A7397**
- 3:00 Therapeutic Effects of the Generated Antibodies Targeting Human Resistin in Pulmonary Hypertension/Q. Lin, C. Fan, J. Skinner, D. Bedja, K. Van Raemdonck, M. Nakahara, K. Kegan, R.A. Johns, Baltimore, MD, p.A7398**
- 3:15 ACTRIIA-Fc Rebalances BMP and Activin/TGF- β Signaling to Attenuate Experimental Pulmonary Hypertension/L.-M. Yung, P. Yang, G. Bocobo, T. Dinter, S. Pearsall, D. Sako, R. Kumar, P.B. Yu, Boston, MA, p.A7399**

MINI SYMPOSIUM

D97 IF YOU LOVE IT, LET IT GO: EXOSOMES AND SECRETOMES

1:30 p.m. - 3:30 p.m. **MARRIOTT MARQUIS SAN DIEGO MARINA**
Pacific Ballroom 22 (North Tower, First Floor)

Chairing: M. Sauler, MD, New Haven, CT
A. Sarkar, PhD, Columbus, OH
R.L. Damico, MD, PhD, Baltimore, MD

Oral Presentations

- 1:30 miR-24-3p: A Regulator of Cell Fate Following Cigarette Smoke Mediated DNA Damage In COPD/M.** Sauler, E. Finnemore, J.L. Gomez, N. Kaminski, P. Lee, New Haven, CT, p.A7400
- 1:45 Extracellular Vesicles in Bronchoalveolar Lavage Fluids from Fibrotic Mouse Lungs Affect Cellular Function in Pulmonary Fibrosis/O.** Burgy, A. Martin Medina, C. Mayr, M. Lehmann, J. Behr, H. Schiller, M. Koenigshoff, Denver, Aurora, CO, p.A7401
- 2:00 Mesenchymal Stem Cell Exosomes Ameliorate Experimental Idiopathic Pulmonary Fibrosis by Modulating Alveolar Macrophage Phenotype and Monocyte Recruitment/N.** Mansouri, G.R. Willis, A. Fernandez-Gonzalez, M. Reis, A. Mitsialis, S. Kourembanas, Boston, MA, p.A7402
- 2:15 Endothelial Progenitor Cell Exosomes Are Beneficial in Murine Sepsis Through Transfer of MiR-126/A.J.** Goodwin, Y. Zhou, P. Li, J.A. Cook, P.V. Halushka, H. Fan, Charleston, SC, p.A7403
- 2:30 HIV-Nef Protein Persists Inside Extracellular Vesicles in Lungs of Aviremic HIV+ Patients on ART and Induces Endothelial Cell Death Via Pro-Apoptotic miRNA Extracellular Vesicle Cargo/S.** Chelvanambi, N.K. Dhillon, S. Agarwal, N.V. Bogatcheva, H.L. Twigg, M. Clauss, Indianapolis, IN, p.A7404
- 2:45 Therapeutic Effects of Extracellular Vesicles Released from Bone Marrow, Adipose and Lung Tissue-Derived Mesenchymal Stem Cells in Experimental Sepsis/N.** Blanco, N. Machado, L. Castro, F.F. Cruz, J.D. Silva, P.L. Silva, P.R.M. Rocco, Rio de Janeiro, Brazil, p.A7405
- 3:00 Eicosapentaenoic Acid Enhances the Effects of Adipose-Derived Mesenchymal Stromal Cells in Experimental Sepsis/J.** Silva, L. Castro, J.Z. Kitoko, S. Trivelin, N. Amorim, M.M. Morales, S.A. Souza, V.L. Capelozzi, B.L. Diaz, P.R.M. Rocco, Rio de Janeiro, Brazil, p.A7406

Featured Speaker

- 3:15 Precision Medicine at the MIF Locus/R.** Bucala, MD, PhD, New Haven, CT

MINI SYMPOSIUM

D98 ASTHMA AND COPD: THE BEST OF RESPIRATORY STRUCTURE AND FUNCTION

1:30 p.m. - 3:30 p.m. **MARRIOTT MARQUIS SAN DIEGO MARINA**
Pacific Ballroom 18-19 (North Tower, First Floor)

Chairing: B. Camoretti-Mercado, PhD, Tampa, FL
E.K. Silverman, MD, PhD, Boston, MA
M.G. Belvisi, PhD, London, United Kingdom

Oral Presentations

- 1:30 Associations Between a Genetic Risk Score for COPD Susceptibility and Lung Function and Structure on Computed Tomography in a Multiethnic US Population-Based Sample: The MESA Lung Study/E.** Oelsner, J. Nguyen, A. Manichaikul, V.E. Ortega, B.M. Smith, E.A. Hoffman, X. Guo, K. Taylor, S.S. Rich, J.I. Rotter, R.G. Barr, New York, NY, p.A7407
- 1:45 The Novel Notch Ligand DNER Modulates IFN γ Levels in Recruited Macrophages by Enhancing Non-Canonical Notch During COPD Progression/C.** Ballester Lopez, T.M. Conlon, Z. Ertüz, O. Eickelberg, A.O. Yildirim, Munich, Germany, p.A7408
- 2:00 Profiling the Regulatory Landscape of Emphysema and Small Airways Disease in COPD: Combining microCT Imaged Tissue Pathology with Transcriptomics/S.** Booth, H.-K. Koo, J. Steinkamp, J. Kantrowitz, M. Castro, G. Zhou, M. Obeidat, D.M. Vasilescu, M.E. Lenburg, A. Spira, J.C. Hogg, T.-L. Hackett, Vancouver, Canada, p.A7409
- 2:15 Tiotropium/Olodaterol in the Prevention of Chronic Obstructive Pulmonary Disease Exacerbations: Results from the DYNAGITO Trial/P.M.** Calverley, K. Carter, L. Grönke, C. Hallmann, A.R. Anzueto, C. Jenkins, J.A. Wedzicha, K.F. Rabe, Liverpool, United Kingdom, p.A7410
- 2:30 Oestradiol Triggers Airway Sensory Nerve Activation Via The TRPM3 - P2X2/3 Ion Channel Axis/S.J.** Bonvini, M.A. Wortley, J.J. Adcock, E. Dubuis, J. Bolaji, S. D'Sa, J. Ma, M.A. Birrell, M.G. Belvisi, London, United Kingdom, p.A7411
- 2:45 Heterogeneity in the Rate and Severity of Exacerbations in Severe Eosinophilic Asthma: Insight from a Pooled Analysis of Two Large Clinical Trials/M.** Sadatsafavi, J.M. Fitzgerald, A. Safari, Vancouver, Canada, p.A7412
- 3:00 Regional Measures of Bronchodilator Response in Asthma on Hyperpolarized Gas MRI Are Associated with Air Trapping on CT/D.** Mummy, T. Lampkins, W. Zha, R.L. Sorkness, N.N. Jarjour, M. Schiebler, M. Evans, L.C. Denlinger, S.B. Fain, Madison, WI, p.A7413
- 3:15 Novel Oligonucleotide Therapy Alters the Lung Transcriptome in a House Dust Mite (HDM), Cyclic DiGMP Mouse Model of Severe, Corticosteroid-Resistant Asthma/W.T.** Gerthoffer, S.C. Ramelli, J. Bell, R. Barrington, J. Sparks, M. Matar, Reno, NV, p.A7414

MINI SYMPOSIUM

D99 CLINICALLY INFORMATIVE BIOMARKERS IN LUNG CANCER: A NEEDLE IN A HAYSTACK

1:30 p.m. - 3:30 p.m. SAN DIEGO CONVENTION CENTER

Room 1 A-B (Upper Level)

Chairing: R.L. Keith, MD, Denver, CO
T. Peikert, MD, Rochester, MN
P. Nana-Sinkam, MD, Richmond, VA

Oral Presentations

- 1:30 Validation of Plasma TIMP-1 to Identify Lung Cancer in Smokers/V.S. Nair, M. Beggs, H. Yu, L. Carbonell, S.X. Wang, A. Vachani, Stanford, CA, p.A7415**
- 1:45 Interstitial Lung Abnormalities as an Independent Risk Factor for Lung Cancer/S.-A. Whittaker, M.L. Padilla, G. Mhango, C.A. Powell, C. Henschke, D. Yankelevitz, M. Salvatore, J.P. de Torres, J.P. Wisnivesky, New York, NY, p.A7416**
- 2:00 Solid and Part-Solid Lung Nodule Classification Using Deep Learning on the National Lung Screening Trial Dataset/T. Kadir, C. Arteta, L. Pickup, P. Novotny, Z. Sandford, J. Brabec, D. Dufek, J. Kunst, J. Declerck, Oxford, United Kingdom, p.A7417**
- 2:15 Utilization of FDG-PET Imaging Based on Pretest Probability in Lung Nodule Management: A Useful Tool or a Fool's Errand?/B.W. Luna, N.T. Tanner, A. Walker, G.A. Silvestri, Charleston, SC, p.A7418**
- 2:30 Deep Convolutional Neural Networks Based Artificial Intelligence System for Pulmonary Nodule Detection and Diagnosis in United States and Chinese Dataset/D. Yang, C.A. Powell, C. Bai, J. Hu, S. Lu, W. Shi, N. Wang, P. Li, J. Wang, D. Gao, X. Zhong, Shanghai, China, p.A7419**
- 2:45 Positron Emission Tomography (PET) Tumor Penumbra Imaging Features Predict Outcome in Non-Small Cell Lung Cancer/S. Mattonen, G.A. Davidzon, S. Bakr, M. Vasanawala, G.S. Hornig, S. Napel, V.S. Nair, Stanford, CA, p.A7420**
- 3:00 Preliminary Results of the Diagnostic and Prognostic Biomarkers in the Rational Assessment of Mesothelioma (DIAPHRAGM) Study/S. Tsim, C. Kelly, L. Alexander, M. Evison, J. Holme, E.J. Cameron, A. Wright, S. Grundy, D. Grieve, A. Ionescu, D. Breen, E. Paramasivan, I. Psallidas, C. McCormick, F. Thomson, R. Ostroff, N. Maskell, K.G. Blyth, Glasgow, United Kingdom, p.A7421**

Featured Speaker

- 3:15 Biomarkers and Cancer Care: Moving from Development to Application/ P.J. Mazzone, MPH, MD, Cleveland, OH**

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

D101 MECHANISTIC AND TRANSLATIONAL STUDIES IN COPD

1:30 p.m. - 3:30 p.m. SAN DIEGO CONVENTION CENTER

Room 30 C-E (Upper Level)

Abstract Summaries 1:30-2:00
Viewing/Discussion 2:00-3:30

- Chairing:** R.M. Tighe, MD, Durham, NC
C.M. Freeman, PhD, Ann Arbor, MI
P. Kohli, MD, Boston, MA
- 601 Epigenetic Heterogeneity of p63+Krt5+ Distal Airway Stem Cells in Patients with COPD/W. Rao, K. Goller, S. Niroula, R. Mahalingam, S. Wang, J. Xie, M. Duleba, L. Haynes, M.L. Metersky, F. Mckee, W. Xian, Houston, TX, p.A7422**
- 602 The Circulating Neutrophil Proteome Is Altered in Alpha-1 Antitrypsin Deficiency and Is Modified by Intravenous Augmentation Therapy/T. McEnery, O. Coleman, P. Hawkins, M. White, N. Lacey, P. Meleady, E.P. Reeves, N.G. McElvaney, Dublin, Ireland, p.A7423**
- 603 Stereologic Localization of Interstitial Macrophage Subpopulations in Human Lung/P. Hume, S. Gibbings, A. McCubbrey, E.F. Redente, C.V. Jakubzick, P.M. Henson, W.J. Janssen, Denver, CO, p.A7424**
- 604 Modeling Acute Exacerbation of Chronic Obstructive Pulmonary Disease by Combining Cigarette Smoke Inhalation and H1N1 Infection in Mice/M. Ferrero, J. Torres, T.P. Teixeira Ferreira, A.C. Arantes, D.D.S. Coutinho, C. Couto Garcia, M.A. Martins, Rio de Janeiro, Brazil, p.A7425**
- 605 MicroRNA-155 Deficiency Protects Mice from Smoke-Induced Inflammation/E.G. De Smet, P. Mestdagh, F. Avila Cobos, E. Blomme, S. Provoost, T. Maes, G.F. Joos, G.G. Brusselle, K.R. Bracke, Ghent, Belgium, p.A7426**
- 606 Neutrophil Elastase and Proteinase 3 Activity in PiSZ Alpha-1 Antitrypsin Deficiency /P.R. Newby, R.A. Stockley, Birmingham, United Kingdom, p.A7427**
- 607 COPDCompEx: A Novel Composite Endpoint to Accelerate Early Clinical Development of New Agents for Treatment of COPD/C.A. Da Silva, T. Bengtsson, S. Peterson, N. Karlsson, M. Fageras, A. Jauhainen, Gothenburg, Sweden, p.A7428**
- 608 Effect of Roflumilast on the Serum Metabolome of COPD Patients/K.F. Rabe, G. Hanauer, A. Strigun, V. Alagappan, Grosshansdorf, Germany, p.A7429**
- 609 Machine Learning Prediction of 5-Year Progression of FEV1 in the COPDGene Study/A.R. El Boueiz, Y. Chang, M.H. Cho, D.L. DeMeo, J. Dy, E.K. Silverman, P. Castaldi, Boston, MA, p.A7430**
- 610 Impact of Mepolizumab on Daily Symptoms and Rate of Treated Exacerbations in Eosinophilic COPD/G.A. Fernandez Romero, N. Kazzaz, A.J. Criner, K. Rybicki, A. Rastogi, N. Marchetti, G.J. Criner, Philadelphia, PA, p.A7431**

- 611 Genomics and Response to Long-Term Oxygen Treatment in COPD: The LOTT Pharmacogenomics Ancillary Study/M. Seo, W. Qiu, W.C. Bailey, G.J. Criner, M.T. Dransfield, A.L. Fuhlbrigge, J.J. Reilly, M.B. Scholand, E.K. Silverman, C.P. Hersh, Boston, MA, p.A7432**
- 612 Gene Co-Expression Networks Analysis Reveals Novel Molecular Endotypes in Alpha-1 Antitrypsin Deficiency/J.-H. Chu, W. Zang, M. Vukmirovic, X. Yan, T. Adams, B. Hu, A. Mihaljinec, S.M. O'Neal, M.J. Becich, H. Hochheiser, K.F. Gibson, E.S. Chen, A.M. Morris, J.K. Leader, S.R. Wisniewski, Y. Zhang, F.C. Sciruba, R.G. Collman, R. Sandhaus, C.B. Strange, N. Kaminski, New Haven, CT, p.A7433**
- 613 Tensor Decomposition of RNA-Sequencing Data Across Three Tissues Identifies Potential COPD Genes and Networks/J. Morrow, R. Chase, M.J. Divo, C.A. Owen, P. Castaldi, D.L. DeMeo, E.K. Silverman, C.P. Hersh, Boston, MA, p.A7434**
- 614 Novel COPD Susceptibility Genes Identified Through Splice Quantitative Trait Loci in Blood Samples from COPD Gene/A. Saferali, M.M. Parker, J.H. Yun, R. Chase, B.D. Hobbs, H.M. Boezen, K. De Jong, E.K. Silverman, M.H. Cho, P. Castaldi, C.P. Hersh, Boston, MA, p.A7435**
- 615 Genetic Determinants of Diffusing Capacity of Carbon Monoxide: Genome-Wide Association Analyses and Meta-Analysis in Four Cohorts/P. Sakornsakolpat, P. Bakke, A. Gulsvik, B.J. Make, J.D. Crapo, M.H. Cho, E.K. Silverman, Boston, MA, p.A7436**
- 616 Smoke-Associated Microbiome Exposure Leads to Alteration of Inflammation that Impacts Emphysema Development/B. Wu, R. Xiao, L. Perez, B. Franca, A. Wang, J. Carpenito, C. Blazoski, E. Olsen, T. Zelonina, Y. Li, M.J. Blaser, J.M. D'Armiento, L.N. Segal, New York, NY, p.A7437**
- 617 A Novel Dual Role for MEK Inhibitors as Modulators of Inflammation and Host Defense Mechanisms with Potential Therapeutic Application in COPD/D. Cunoosamy, T.S. Cohen, L. Oberg, G. Skogberg, P.D. Smith, B. Bonn, O. Vaarala, N. Kurian, Gothenburg, Sweden, p.A7438**
- 618 Increased Endothelial Cell Damage and Decreased Endothelial Cell Repair Are Implicated in Emphysema Pathogenesis: SPIROMICS Immunophenotyping Sub-Study/C.M. Freeman, E.A. Hoffman, H. Alikaj, V.R. Stolberg, N.E. Alexis, E.R. Bleecker, R.P. Bowler, S. Christenson, A.P. Comellas, C.B. Cooper, D. Couper, C.M. Doerschuk, M.K. Han, N.N. Hansel, A.T. Hastie, R.J. Kaner, F.J. Martinez, D.A. Meyers, W.K. O'Neal, R. Paine, S.P. Peters, J.M. Wells, P. Woodruff, R.G. Barr, J.L. Curtis, Ann Arbor, MI, p.A7439**
- 619 Experimental Modeling of Infectious Exacerbations in a Cigarette Smoke-Induced Ferret Model of COPD/B. Hunt, D. Stanford, N. Kaza, S. Byzek, J. LaFontaine, S.M. Rowe, S.V. Raju, W.E. Swords, Birmingham, AL, p.A7440**
- 620 Airway Epithelial microRNAs Associated with Small Airway Dysfunction and Interleukin-17-Driven Inflammation in Chronic Obstructive Pulmonary Disease/S. Bolourchi, W.K. O'Neal, R.J. Kaner, C.M. Doerschuk, R.C. Boucher, G.J. Criner, D. Couper, R.P. Bowler, A.P. Comellas, M.T. Dransfield, J.A. Krishnan, I. Barjaktarevic, R. Paine, E.R. Bleecker, S.P. Peters, R.G. Barr, S.I. Rennard, S.M. Raman, N.N. Hansel, E.A. Hoffman, C.J. Galban, J.L. Curtis, C.M. Freeman, F.J. Martinez, M.K. Han, S. Christenson, P.G. Woodruff, N.R. Bhakta, San Francisco, CA, p.A7441**
- 621 Low Plasma Cathelicidin Levels Are Associated with Reduced Lung Function and Prior COPD Exacerbations: An Analysis of the SPIROMICS Cohort/R.M. Burkes, A.S. Ceppe, W.K. O'Neal, M.K. Han, J.L. Curtis, A.P. Comellas, G.J. Criner, J.A. Krishnan, S. Christenson, R.G. Barr, C.B. Cooper, I. Barjaktarevic, R. Paine, V.E. Ortega, R.A. Wise, N.N. Hansel, M.B. Drummond, Chapel Hill, NC, p.A7442**
- 622 Impaired Bioenergetic Profile of COPD Macrophages/E.M. Ryan, R. Budd, M.A. Bewley, P. Coelho, W. Rumsey, Y. Sanchez, J. McCafferty, G. Choudhury, D.H. Dockrell, S.R. Walmsley, M.K.B. Whyte, Edinburgh, United Kingdom, p.A7443**
- 623 Identification of COPD Phenotypes with Different Factors Related to Exacerbation Risk Using Sputum and Serum Autoantibody Profiles/Z. Liang, F. Long, F. Wang, Y. Yang, K. Deng, W. Gu, W. Jian, L. Zhou, J. Zheng, W. Wu, X. Chen, T. Peng, R. Chen, Guangzhou, China, p.A7444**
- 624 Peripheral Blood MicroRNA Differential Expression Analysis in Current and Former Smokers with and Without Chronic Obstructive Pulmonary Disease/B.D. Hobbs, M.M. Parker, J.H. Yun, R.P. Chase, P.J. Castaldi, K. Kechris, C.P. Hersh, Boston, MA, p.A7445**
- 625 Multiethnic Genome-Wide Association Meta-Analysis of Quantitative Computed Tomography Emphysema in Over 25,000 Individuals/B.D. Hobbs, P. Sakornsakolpat, A. Manichaikul, K.M. Burkart, X.-Q. Wang, L. Lahousse, M. de Bruijne, A. van der Lugt, G.G. Brusselle, G.T. O'Connor, J. Dupuis, F. Sun, G.R. Washko, R. Tal-Singer, H.O. Coxson, S.I. Rennard, R.G. Barr, S.S. Rich, E.K. Silverman, M.H. Cho, Boston, MA, p.A7446**

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

D102 IMPROVING IDENTIFICATION, ADHERENCE, AND OUTCOMES IN SLEEP DISORDERED BREATHING

1:30 p.m. - 3:30 p.m.

SAN DIEGO CONVENTION CENTER

Room 6 E (Upper Level)

Abstract Summaries

1:30-2:00

Viewing/Discussion

2:00-3:30

Chairing: S. Parthasarathy, MD, Tucson, AZ
G.W. Pien, MD, MS, Baltimore, MD
V. Krishnan, MD, MHS, Cleveland, OH

- 301 Use of STOP-Bang Questionnaire to Identify Patients at High Risk for Obstructive Sleep Apnea in the Context of Limited Resources/K.D. Duong, K.D. Bui, V.T. Le, Ho Chi Minh City, Viet Nam, p.A7447**
- 302 Utility of Cyclic Variation of Heart Rate Index as a Screening Tool for Sleep Disordered Breathing/S. Yatsu, T. Kasai, H. Matsumoto, S. Suda, J. Shitara, A. Murata, M. Shimizu, T. Kato, M. Hiki, H. Daida, Tokyo, Japan, p.A7448**
- 303 Classification of Obstructive Sleep Apnea Using Machine Learning/A. Pomprapa, W. Ahmed, M.S. Sayani, A. Stollenwerk, S. Kowalewski, S. Leonhardt, Aachen, Germany, p.A7449**
- 304 Telemedicine System for Optimizing CPAP Adherence in Japan: Multicenter Randomized Trial/K. Chin, K. Murase, K. Tanizawa, N. Takahashi, T. Tsuda, M. Ohi, T. Akahoshi, K. Narui, H. Nakamura, T. Ohdaira, H. Yoshimine, T. Tsuboi, Y. Yamashiro, S. Ando, T. Kasai, H. Kita, K. Tatsumi, N. Burioka, K. Tomii, Y. Kondo, T. Oga, T. Nakayama, T. Sakamaki, T. Kuroda, T. Hirai, Kyoto, Japan, p.A7450**
- 305 Novel Predictors of CPAP Adherence Among Patients with Acute Stroke/J. Siv, S.P. Khot, M.A. Ciol, H.M. Barnett, A.P. Davis, K. Allison, D.A. Crane, A. Bunnell, D. Li Lue, K. Rappisi, B.S. McCann, C. Bombardier, W.T. Longstreth, Jr, N.F. Watson, M.E. Billings, Seattle, WA, p.A7451**
- 306 An Analysis of Compliance with Positive Pressure Breathing Device in Patients with Obstructive Sleep Apnea Diagnosed in-Lab Vs at Home in an Inner City Hospital/B. Bajantri, K. Habbal, D. Lvovsky, Bronx, NY, p.A7452**
- 307 Effects of Adaptive Servo Ventilation Therapy on Paroxysmal Atrial Fibrillation and Ventricular Tachycardia in Heart Failure Patients Due to Ischemic Heart Disease/T. Nagasaka, T. Nagasaka, N. Takama, Maebashi, Japan, p.A7453**
- 308 Assessing the Effects of Intermittent Apnea on Respiratory Status Across a Broad Cohort of Surgical Patients in the Post-Operative Environment/J. Imsirovic, B. Cohen, H. Essber, M. Walters, D. Chelnick, L. Glosser, C. Hanline, A. Turan, Waltham, MA, p.A7454**
- 309 Change in Sleep Microarchitecture, Homeostasis and Vigilance with CPAP in Obstructive Sleep Apnea/A. Parekh, A.W. Varga, D.M. Rapoport, I.A. Ayappa, New York, NY, p.A7455**
- 310 Cognitive Function in a Sleep Clinic Cohort of Patients with Obstructive Sleep Apnea: Preliminary Data from the Canadian Sleep and Circadian Network/A.E. Beaudin, N.T. Ayas, R.P. Skomro, J.K. Raneri, N. Fox, M.W. Bowen, E.J. Lynch, J. Carrier, E.E. Smith, P.J. Hanly, Calgary, Canada, p.A7456**
- 311 Nightly Hypoxemia in the Elderly Inpatient Population and Its Link to Dementia - Further Study Group Results/S. Wlmer, S. Pramsohler, L. Rausch, N. Hasanagic, N.C. Netzer, Bad Aibling, Germany, p.A7457**
- 312 CPAP Treatment Can Improved Cognition and Memory Dysfunction in Obstructive Sleep Apnea Syndrome/E.-T. Chang, Hualien, Taiwan, p.A7458**
- 313 The Effect of Obstructive Sleep Apnea on Decision Making/K. Wong, S. Guo, A. Jain, W. Liu, R. Owens, La Jolla, CA, p.A7459**
- 314 Continuous Positive Airway Pressure (CPAP) Therapy for Obstructive Sleep Apnoea and Psychotropic Drug Use/A. Delbarre, F. Gagnadoux, B. Gohier, N. Pelletier-Fleury, Villejuif, France, p.A7460**
- 315 Effectiveness of Multimodal Remote Patient Monitoring at CPAP Initiation in Obstructive Sleep Apnea (OSA) with High Cardiovascular Risk: A Randomized Trial/J.L. Pepin, M. Sapene, M. Benmerad, S. Bailly, Y. Grillet, B. Stach, P. Richard, J.F. Muir, I. Jullian-Desayes, M. Joyeux-Faure, R. Tamisier, Grenoble, France, p.A7461**
- 316 Behavioral Treatment of Insomnia in Women Veterans with Comorbid Sleep Disordered Breathing Increases Sleep Quality and Reduces Sleepiness/J.L. Martin, M.S.S. Badr, S.K. McGowan, C.H. Fung, Y. Song, S. Jouldjian, M.R. Zeidler, M.N. Mitchell, C.A. Alessi, North Hills, CA, p.A7462**
- 317 Assessing Level of Satisfaction in Sleep Disordered Breathing Management in Italian Children/L.M. Nosetti, M.G. Paglietti, L.M. Brunetti, L. Masini, R. Cutrera, G. Broggi, G. Cilluffo, S. La Grutta, A.C. Niespolo, M.A. Agosti, Varese, Italy, p.A7463**
- 318 The Relationship Between Wait Times and Clinical Outcomes for Patients with Severe Sleep-Disordered Breathing/C.S. Thornton, M.J. Santana, E.D. Penz, W.W. Flemons, K.L. Fraser, P. Hanly, S.R. Pendharkar, Calgary, Canada, p.A7464**
- 319 Claims Analysis of Differences in Practice and Focus of Various Physician Specialties that Diagnose and Treat Obstructive Sleep Apnea in the United States/M. Ohayon, J. Profant, S. Gibson, C. Milesi, Palo Alto, CA, p.A7465**
- 320 Effective and Economic Evaluation of Screen for Obstructive Sleep Apnea Syndrome by Using Overnight Oximetry/W.-S. Chung, Y.-F. Chen, L.-W. Hang, Taichung City, Taiwan, p.A7466**

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

D103 TRANSPLANT AND ILD POTPOURRI

1:30 p.m. - 3:30 p.m.

SAN DIEGO CONVENTION CENTER

Room 6 D (Upper Level)

Abstract Summaries

1:30-2:00

Viewing/Discussion

2:00-3:30

Chairing: T.J. Doyle, MD, MPH, Boston, MA
S. Nathan, MD, Falls Church, VA

- 201 Rethinking the Epidemiology of Birt-Hogg-Dubé: A Genetics-Based Approach/H. Dong, G.R. Washko, D. Qiao, M.H. Cho, B.A. Raby, Boston, MA, p.A7467**
- 202 MMI-0100, a Novel MAPKAP Kinase II (MK2) Inhibitor, Delivered Via Inhalation, Displays an Excellent Safety and Tolerability Profile in Three Phase 1 Clinical Trials/A. Lubber, C. Peterson, A. Panitch, J.V.D. Wetering, E.V. Hoogdalem, G. Nicholson, B. Leaker, C. Lander, Morristown, NJ, p.A7468**

- 203 Pulmonary Involvement in Scleroderma Varies Based on ANA Titer/K. Warrior, E. Marrow, A.A. Ansari, K. Dennis-Aren, C. Mary, M.E. Hinchcliff, J.E. Dematte, S.M. Bhorade, Chicago, IL, p.A7469**
- 204 No Relevant Pharmacokinetic Interaction Between Nintedanib and Pirfenidone in Patients with Idiopathic Pulmonary Fibrosis (IPF): Results from a Drug-Drug Interaction Study/L. Richeldi, S. Fletcher, H. Adamali, N. Chaudhuri, S. Wiebe, S. Wind, K. Hohl, A. Baker, R. Schlenker-Herceg, S. Stowasser, T.M. Maher, Rome, Italy, p.A7470**
- 205 Application of the QRISK-2 Score Identifies an Increased Cardiovascular Risk in Patients with Idiopathic Pulmonary Fibrosis at Time of Diagnosis/E. Denny, B. Taylor, A. Aggarwal, K. Millward, C. Fiddler, H. Parfrey, M. Thillai, Cambridge, United Kingdom, p.A7471**
- 206 Prednisolone Really Increases the Frequency of Acute Exacerbation in IPF and IIPs with Possible UIP HRCT Pattern?/T. Arai, T. Kagawa, Y. Sasaki, R. Sugawara, C. Sugimoto, K. Tachibana, M. Kitaichi, M. Akira, S. Hayashi, Y. Inoue, Sakai, Osaka, Japan, p.A7472**
- 207 Multidisciplinary Team Dedicated to Suspected Heritable Pulmonary Fibrosis One Year Experience/R. Borie, C. Kannengiesser, L. Gouya, S. Amselem, O. Brugiere, D. Bouvry, J.M. Naccache, A.F. Clement, V. Cottin, P. Dieude, R. Epaud, P. Fannan, F. Sicre de Fontbrune, L. Stervinou Wemeau, N. Nathan, B. Crestani, Paris, France, p.A7473**
- 208 The Change of Fibrosis Area in Idiopathic Pulmonary Fibrosis After Treatment of Anti-Fibrotic Agents by Using Quantitative Computed Tomography Analysis/H. Kitamura, H. Nakagawa, R. Okuda, S. Ikeda, R. Ootoshi, T. Iwasawa, T. Ogura, Yokohama, Japan, p.A7474**
- 209 Possible UIP Pattern with Traction Bronchiectasis on HRCT: Prognostic Impact in IIP/J. Fukihara, Y. Kondoh, T. Kimura, K. Kataoka, T. Matsuda, T. Yokoyama, T. Furukawa, T. Johkoh, J. Fukuoka, K. Sakamoto, N. Hashimoto, Y. Hasegawa, K.K. Brown, Nagoya, Japan, p.A7475**
- 210 Prediction of IPF with the Early Changes in Quantitative Imaging Patterns Using High Resolution Computed Tomography Using a Single Center Interstitial Lung Disease Registry/G.H.J. Kim, Y. Shi, W. Hsu, L. Pourzand, M. Brown, J. Belperio, S. Weigt, J. Goldin, Los Angeles, CA, p.A7476**
- 211 Capturing Systemic Sclerosis-Associated Interstitial Lung Disease Onset: A Comparison of Common Definitions and an Advanced Statistical Model/M. Caron, K.J. Schwartzman, M. Hudson, M. Baron, R.J. Steele, Montreal, Canada, p.A7477**
- 212 Baseline Characteristics and Comorbidities in The Canadian Registry for Pulmonary Fibrosis/J. Fisher, S. Shapera, M. Algamdi, J. Morisset, K.A. Johannson, C.D. Fell, M.R.J. Kolb, H. Manganas, G.P. Cox, N. Khalil, A.J. Halayko, A.S. Gershon, T.M. To, N. Hambly, M. Sadatsafavi, P.G. Wilcox, C.J. Ryerson, Toronto, Canada, p.A7478**
- 213 Associations of Clinical Physiological Index from Pulmonary Function Tests with Quantitative Scores from HRCT Images Using Texture Features in Subjects with Idiopathic Pulmonary Fibrosis Compared to Scleroderma-Related Interstitial Lung Disease/K. Sorge, G.H. Kim, D.P. Tashkin, M. Brown, A. Sultan, L. Pourzand, J. Goldin, Los Angeles, CA, p.A7479**
- 214 Primary Sjögren's Syndrome-Associated Interstitial Lung Disease-A Descriptive Study/J. Marco, N. Gupta, Cincinnati, OH, p.A7480**
- 215 Gender Disparity Manifestations in Pulmonary Sarcoidosis/M.D. Schweitzer, O. Salamo, G. Urdaneta, P. Baghaei, R.A. Calderon Candelario, M.A. Campos, M. Mirsaedi, Fort Lauderdale, FL, p.A7481**
- 216 Self Reported Organ Involvement in Sarcoidosis: Results of a Multi-National Registry/R.P. Baughman, D.A. Culver, M.A. Judson, A.K. Gerke, L.A. Maier, G. Spitzer, Cincinnati, OH, p.A7482**
- 217 Analysis of Baseline Data from Two Multicenter Clinical Sarcoidosis Trials of the Foundation for Sarcoidosis Research Clinical Sarcoidosis Network/M.A. Judson, D.A. Culver, J.L. Beaumont, N.Y. Hamzeh, E.S. Chen, N. Sweiss, D. Valeyre, D. Victorson, R.P. Baughman, Albany, NY, p.A7483**
- 218 Incidence, Risk Factors, and Outcomes Among Patients with Venous Thromboembolic Events After Lung Transplantation in the Lung Allocation Score Era/R. Kanade, L. Smith, L. Mahan, S. Bollineni, J. Mullins, V. Kaza, M. Mohanka, M. Wait, F. Torres, A. Banga, Dallas, TX, p.A7484**
- 219 Incidence of Atrial Arrhythmia After Lung Transplantation with a Universal Prophylaxis Strategy/M. Sullivan, J. Lin, R. Bag, L. Potter, Chicago, IL, p.A7485**
- 220 Paravertebral Nerve Block for Pain Control Following Lung Transplantation/B. Ewarion, A.W. Brown, M. Libre, A. Cochrane, L. Marinak, O.A. Shlobin, S.D. Nathan, B. Gandhi, C. King, Washington, DC, p.A7486**
- 221 Use of HRCT to Characterize Significant Airway Stenosis Following Lung Transplantation/M. Kousha, P. Hota, C. Dass, F.C. Cordova, N. Shigemura, Y. Toyoda, G.J. Criner, Philadelphia, PA, p.A7487**
- 222 Body Mass Index at Listing May Impact Survival After Lung Transplantation/F.S.N. Soares, A. Vester, A.W. Brown, C.S. King, K. Ahmad, M. Fregoso, S. Aryal, S.D. Nathan, S.D. Barnett, O.A. Shlobin, Falls Church, VA, p.A7488**
- 223 Change in Frailty by Short Physical Performance Battery After Lung Transplantation/A. Venado, A. Soong, P. Shrestha, J.R. Greenland, R.J. Shah, S. Hays, L.E. Leard, J.A. Golden, J. Kukreja, K. Covinsky, P. Katz, P.D. Blanc, C. McChulloch, D.J. Lederer, M.R. Anderson, J.M. Diamond, J.D. Christie, J.P. Singer, San Francisco, CA, p.A7489**
- 224 Heparin-Induced Thrombocytopenia (HIT) in Lung Transplant Recipients: A Retrospective Review/B.L. Small, M.P. Gomes, X. Han, X. Wang, K. McCurry, A. Ataya, M.M. Budev, Cleveland, OH, p.A7490**

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

D104 PHENOTYPES AND THE MULTIPLE DIMENSIONS OF COPD

1:30 p.m. - 3:30 p.m.

SAN DIEGO CONVENTION CENTER

Room 28 C-E (Upper Level)

Abstract Summaries 1:30-2:00

Viewing/Discussion 2:00-3:30

Chairing: G.R. Washko, MD, Boston, MA
S.P. Bhatt, MD, Birmingham, AL
X. Soler, MD, PhD, San Diego, CA

501 Incremental Quantitative Emphysema on Low-Dose Screening Chest CT Is Associated with Lung Cancer Incidence and Mortality: An Analysis of the National Lung Screening Trial/W.W. Labaki, W. Wang, S. Murray, C.R. Hatt, L.A. Keith, C.J. Galban, B.D. Ross, F.J. Martinez, D.A. Arenberg, E.A. Kazerooni, M.K. Han, C.H. Martinez, Ann Arbor, MI, p.A7491

502 Lung Function Trajectory and Risk of Incident Chronic Lower Respiratory Diseases: The National Heart, Lung and Blood Institute Pooled Cohorts Study/P. Balte, P.A. Cassano, D. Couper, P.L. Enright, A.R. Folsom, D.R. Jacobs, R. Kalhan, R. Kronmal, L.R. Loehr, S. London, R.G. Barr, A.B. Newman, G.T. O Connor, J.E. Schwartz, L.J. Smith, W. White, S. Yende, E. Oelsner, New York, NY, p.A7492

503 Associations Between Longitudinal Lung Function and the Incidence of Heart Failure in the General Population: The NHLBI Pooled Cohorts Study/C. Eckhardt, P. Balte, M.J. Cuttica, P.A. Cassano, D. Couper, A. Folsom, D. Jacobs, R. Kalhan, R. Kronmal, L. Lange, R.G. Barr, L.R. Loehr, S. London, A. Navas Acien, A. Newman, G.T. O Connor, J. Schwartz, L.J. Smith, W. Wendy, F. Yeh, S. Yende, E. Oelsner, New York, NY, p.A7493

504 The Saint Georges Respiratory Questionnaire Chronic Bronchitis Definition Identifies More Subjects with Greater Risk of Disease Progression than the Classic Definition: A Longitudinal Analysis of COPDGene/V. Kim, J.-P. Charbonnier, S. Jeong, C. Martinez, M.K. Han, B.J. Make, J.D. Crapo, P.W. Jones, J.L. Curtis, E.K. Silverman, G.J. Criner, Philadelphia, PA, p.A7494

505 Challenging the Obesity Paradox: Effect of Extreme Obesity on COPD Mortality in Patients with Heightened Cardiovascular Risk/E. Brigham, J.A. Anderson, R.D. Brook, P.M. Calverley, B.R. Celli, N.J. Cowans, C. Crim, J.E. Diserens, F.J. Martinez, D.E. Newby, J. Yates, J. Vestbo, R. Wise, Baltimore, MD, p.A7495

506 The Role of Appendicular Skeletal Muscle Mass Index in the Relation of Vitamin D Deficiency to Sarcopenia in Chronic Obstructive Pulmonary Disease/D. Lee, K.C. Shin, J.H. Chung, K. Lee, H. Jin, Andong, Korea, Republic of, p.A7496

507 Frailty in Patients with Chronic Obstructive Pulmonary Disease and Risk of Acute Exacerbations/N. Yee, E.R. Locke, H.Q. Nguyen, V.S. Fan, Seattle, WA, p.A7497

508 Pulmonary Artery to Aorta (PA:A) Ratio Is Associated with All-Cause Mortality in COPDGene/J.M. Wells, S.P. Bhatt, W.W. Labaki, F.N. Rahaghi, R.P. Bowler, E.A. Regan, B.J. Make, J.D. Crapo, R. San Jose Estepar, A. Diaz, E.K. Silverman, M.K. Han, G.R. Washko, M.T. Dransfield, Birmingham, AL, p.A7498

509 Functional Small Airways Disease Assessed by Novel CT Disease Probability Measure Shows Significant Associations with Physiological Measures of Peripheral Airway Resistance and Obstruction/K. Ostridge, K. Gove, M. Kirby, S. Peterson, J. Sieren, C. McCrae, O. Vaarala, K.J. Staples, T.M. Wilkinson, Southampton, United Kingdom, p.A7499

510 A Deep Learning Approach to Separate Arteries and Veins in Non Contrast CT/P. Nardelli, F.N. Rahaghi, G.R. Washko, R. San Jose Estepar, Boston, MA, p.A7500

511 DLCO Is Associated with COPD Morbidity Beyond Spirometry and CT Evidence of Emphysema in COPDGene/M.C. McCormack, N.R. MacIntyre, R. Henderson, R.L. Jensen, G. Kinney, W.W. Stringer, C.P. Hersh, R.P. Bowler, R. Casaburi, M.K. Han, J. Porszasz, R.G. Barr, B.J. Make, R.A. Wise, Baltimore, MD, p.A7501

512 CT Imaging Determinants of Epicardial Ventricular Size in Smokers/F.N. Rahaghi, P. Nardelli, G. Vegas-Sanchez-Ferrer, S. Ash, A. Diaz, C.E. Come, J. Ross, W.W. Labaki, M.K. Han, G. Kinney, B.R. Celli, M.J. Cuttica, A. Agusti, J.M. Wells, S.P. Bhatt, R. Kalhan, J.E. Hokanson, M.T. Dransfield, G.R. Washko, R. San Jose Estepar, Boston, MA, p.A7502

513 Conducting Airways Malacia: A Novel Diagnosis Using Dynamic Airways Computed Tomography/B. Shaller, D.K. Duong, J. Shen, K. Chang, A.W. Sung, H.H. Guo, Stanford, CA, p.A7503

514 Low Bone Mineral Density and Fat-Free Mass Index in Current and Former Smokers with COPD/A. Wilson, A. Diaz, S. Lutz, R. Harmouche, R. San Jose Estepar, G. Kinney, J.E. Hokanson, S.I. Rennard, R. Casaburi, J.M. Bon, S.P. Bhatt, M.T. Dransfield, C.P. Hersh, G.R. Washko, E.A. Regan, M.-L.N. McDonald, Birmingham, AL, p.A7504

515 Acute Exacerbations of Chronic Obstructive Pulmonary Disease Are Associated with Incident Hip Fractures in Smokers/J.M. Bon, S.M. Nouraie, K.J. Smith, M.T. Dransfield, M.-L.N. McDonald, E.A. Hoffman, J.D. Newell, A.P. Comellas, P. Saha, R.P. Bowler, E.A. Regan, Pittsburgh, PA, p.A7505

516 Predicting and Modifying Factors of Bone Mineral Density Decline in COPD Patients/N. Kameyama, S. Chubachi, M. Sasaki, A. Tsutsumi, H. Irie, K. Sakurai, K. Sayama, H. Nakamura, K. Asano, T. Betsuyaku, Tokyo, Japan, p.A7506

517 Non-Traumatic Vertebral Fractures Among Chronic Obstructive Pulmonary Disease (COPD) Patients/G. Epstein Shochet, M. Koslow, D.A. King, D. Shitrit, Kfar Saba, Israel, p.A7507

518 The Association Between Blood Eosinophils Counts and Clinical Characteristics in Individuals with COPD: Preliminary Findings from the Population-Based CanCOLD Study/W.-C. Tan, T. Yau, J. Bourbeau, G. Nadeau, N. Barnes, S. Landis, J. Hogg, D. Sin, Vancouver, Canada, p.A7508

- 519 **Comparison of Acute Respiratory Events Between Patients with Bronchiectasis-COPD Overlap and Patients with COPD Alone/W.-S. Chung, Taichung City, Taiwan, p.A7509**
- 520 **Gastroesophageal Related Aspiration and Frequent COPD Exacerbations and Recurrent Pneumonia/R.C. Balkissoon, Denver, CO, p.A7510**
- 521 **The Other Explanation for Dyspnea: Repair of Giant Paraesophageal Hiatal Hernias Routinely Improves Dyspnea and Pulmonary Function Results/S.H. Kirtland, A. Wirsching, D. Low, Seattle, WA, p.A7511**
- 522 **Clinical Associations of Pulmonary Vasculature and Ventricular Size in Smokers/F.N. Rahaghi, P. Nardelli, G. Vegas-Sanchez-Ferrero, S. Ash, A. Diaz, C.E. Come, J. Ross, W.W. Labaki, M.K. Han, G. Kinney, B.R. Celli, M.J. Cuttica, A. Agusti, J.M. Wells, S.P. Bhatt, R. Kalhan, J.E. Hokanson, M.T. Dransfield, R. San Jose Estepar, G.R. Washko, Boston, MA, p.A7512**
- 523 **Chronic Obstructive Pulmonary Disease (COPD) and the Development of Atrial Fibrillation/L. Lahousse, M. Grymonprez, V. Vakaet, M. Kavousi, B. Stricker, M.A. Ikram, J. Heeringa, F. Oscar, G.G. Brusselle, Ghent, Belgium, p.A7513**
- 524 **A Novel Adjustment Approach for Co-Morbidities Improves Assessment of All-Cause Mortality Risk in COPD/G. Kinney, C. Wern, K. Young, K. Pratte, M. Ragland, A. Thwing, S. Lutz, J.E. Hokanson, Aurora, CO, p.A7514**
- 525 **Mortality in GOLD-Unclassified COPD/S.D. Kumbhare, C. Strange, Charleston, SC, p.A7515**
- 704 **Mechanical Ventilation Induces Renal Mitochondrial Injury that Is Detectable in the Urine/M. Hepokoski, Y. Li, P. Luna, A. Fazal, T. Mai, A. Moshensky, L.E. Crotty Alexander, P. Singh, San Diego, CA, p.A7519**
- 705 **Prevalence of Reverse Triggering Assessed by Electrical Activity of the Diaphragm in the First 48 Hours of Mechanical Ventilation/F. Damiani, D. Junhasavasdikul, M. Dres, T. Piraino, R. Mellado Artigas, L. Chen, I. Soliman, M. Rauseo, N. Rittayamai, D.L. Grieco, T. Pham, I.G. Telias, L. Melo, J.O. Friedrich, H. Every, P. Greco, O.M. Smith, G. Sandhu, J. GU, C.A. Sinderby, L.M.A. Heunks, L.J. Brochard, Santiago, Chile, p.A7520**
- 706 **Ventilator Dyssynchrony Is Associated with a Temporally Delayed Increase in Driving Pressure/P.D. Sottile, D. Albers, M. Moss, Aurora, CO, p.A7521**
- 707 **Predictors of Significant Patient-Ventilator Asynchrony During Invasive Mechanical Ventilation/M.L.D.A. Sousa, R.M. Nieceza, L.P. Isensee, F.K. Hayashi, L. Blanch, R.M. Kacmarek, J.C. Ferreira, Sao Paulo, Brazil, p.A7522**
- 708 **Pressure Support with Low Tidal Volume Minimizes Lung Injury Compared to Controlled Mechanical Ventilation in Experimental Mild Acute Respiratory Distress Syndrome/P.L. Silva, E.F. Pinto, R.S. Santos, M.A. Antunes, L.A. Maia, G.A. Padilha, J.A. Machado, A.C.F. Carvalho, V. Capelozzi, P. Pelosi, P.R.M. Rocco, Rio De Janeiro, Brazil, p.A7523**
- 709 **Progressive Increase in Tidal Volume Protected Against Lung Injury in Experimental Mild Acute Respiratory Distress Syndrome/N. Felix, C.D.S. Samary, F.F. Cruz, N.D.N. Rocha, M.V. Fernandes, J. Machado, R. Bose-Madureira, M. Gama de Abreu, P. Pelosi, P.L. Silva, J.J. Marini, P.R.M. Rocco, Rio de Janeiro, Brazil, p.A7524**

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

D105 CRITICAL CARE: VENTILATOR INDUCED LUNG INJURY AND ARDS - FROM MICE TO BIOMARKERS IN ARDS

1:30 p.m. - 3:30 p.m. SAN DIEGO CONVENTION CENTER

Room 31 A-C (Upper Level)

Abstract Summaries 1:30-2:00

Viewing/Discussion 2:00-3:30

Chairing: J.R. Beitler, MD, MPH, San Diego, CA
R.G. Brower, MD, Baltimore, MD
R.M. Baron, MD, Boston, MA

701 **Deflation Injury following Release of Sustained PEEP/B.H. Katira, D. Engelberts, R. Giesinger, C. Ackerley, T. Yoshida, D. Zabini, G. Otulakowski, M. Post, W.M. Kuebler, P. McNamara, K. Connelly, B.P. Kavanagh, Toronto, Canada, p.A7516**

702 **Alveolar Tidal Flooding - a New Mechanism of Ventilator-Induced Lung Injury?/A. Tabuchi, W.M. Kuebler, Berlin, Germany, p.A7517**

703 **Mechanical Ventilation Promotes the Spread of Tumor Cell from the Lungs/I. López-Alonso, C. López-Martínez, C. Huidobro, L. Amado-Rodríguez, J. Blázquez-Prieto, G.M. Albaiceta, Oviedo, Spain, p.A7518**

710 **Mechanical Power in the Setting of Positive End-Expiratory Pressure (PEEP) Titrated by Esophageal Pressure/G.A. Cortes Puentes, F. Cipulli, M. Quintel, J.J. Marini, L. Gattinoni, R. Oeckler, Rochester, MN, p.A7525**

711 **Spatial Distribution of Ventilator Induced Lung Injury at the μ m-Scale. An In-Vivo Synchrotron Phase-Contrast Microscopy Study in BALB/c Mice/G. Lovric, L. Broche, C.M. Schlepütz, L. Fardin, J.C. Schittny, A.S. Larsson, S. Bayat, Villigen, Switzerland, p.A7526**

712 **Zmpste24 Inhibition Ameliorates Ventilator-Induced Lung Injury by Promoting an Anti-Apoptotic, Senescent-Like Phenotype in Epithelial Cells/J. Blázquez-Prieto, C. Huidobro, I. Lopez-Alonso, L. Amado-Rodríguez, C. López-Martínez, G.M. Albaiceta, Oviedo, Spain, p.A7527**

713 **Metabolic and Gene Expression in Regions of Different Aeration After 24h of Mechanical Ventilation and Endotoxemia/G.C. Motta Ribeiro, S. Hashimoto, T. Winkler, R.M. Baron, G. Kira, L.F.S.C. Paula, A.D.J. Santos, C. Zeng, M.V. Melo, Boston, MA, p.A7528**

714 **Higher Plasma Cystatin C Is Associated with Mortality After ARDS/C.M. Hendrickson, M.G. Shlipak, M.A. Matthay, K. Liu, San Francisco, CA, p.A7529**

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- 715 Decreased Expression in Platelet-Activating Factor Acetylhydrolase (PAF-AH) Gene Is Associated with ARDS/P.** Tejera-Alvarez, R. Zhang, L. Su, D.C. Christiani, Boston, MA, p.A7530
- 716 Circulating Ace+ EMPs Are a Potential Marker for Evaluating Pulmonary Endothelial Injury During ARDS/Y.** Takei, M. Yamada, K. Saito, Y. Kameyama, H. Sugiura, T. Makiguchi, N. Fujino, H. Toyama, K. Saito, Y. Ejima, Y. Kawazoe, D. Kudo, S. Kushimoto, M. Yamauchi, M. Ichinose, Sendai, Japan, p.A7531
- 717 Effects of Antithrombin and Heparin for the Treatment of Acute Lung Injury in Rats/N.** Tantinyà, M. Camprubi-Rimblas, R. Guillamat-Prats, J. Bringué, M.N. Gómez, L. Blanch, A. Artigas, Sabadell, Spain, p.A7532
- 718 Genomics Analysis of Gene Expression Profiles Demonstrates a Distinct ARDS Signature/J.A.** Howrylak, V. Walter, E. Wasserman, M. Moll, T. Dolinay, L. Schultz, Z. Ma, A.M.K. Choi, R.M. Baron, N.J. Thomas, H.R. Wong, J.R. Broach, V.M. Chinchilli, Hershey, PA, p.A7533
- 719 Cleaved RAGE Is the Predominant Early-Evoked sRAGE Isoform and Confers Risk for Sepsis-Associated ARDS/T.K.** Jones, R. Feng, J.P. Reilly, E.D. Johansson, T.G. Dunn, T.R. Riley, C.A.G. Ittner, B.J. Anderson, M.G. Shashaty, J.D. Christie, N.J. Meyer, Philadelphia, PA, p.A7534
- 720 Transcriptional Regulation of NAMPT by Mechanical Stress and Inflammatory Factors in Human Lung Endothelium/X.** Sun, P. Awuah, M. Khawam, G. Reyad, A. Sun, J.G.N. Garcia, Tucson, AZ, p.A7535
- 721 Janus-Headed Nature of Succinate in Acute Lung Injury: Alveolar Type II Specific Deletion of Succinate Dehydrogenase A Is Protective in Acute Lung Injury/E.** Coit, N. Burns, R.M. Tuder, H. Eltzschig, C.U. Vohwinkel, Aurora, CO, p.A7536
- 722 Antagonism of the Lipoxin A4 Receptor Impairs the Resolution of Both Bacterial and Viral Lung Injury in Mice/J.E.** Gotts, X. Wu, R. Croze, K. Gronert, X. Fang, L. Chun, M.A. Matthay, San Francisco, CA, p.A7537
- 723 Knockdown of TFPI-Anchored Endothelial Cells Exacerbates LPS-Induced Acute Lung Injury Via NF- κ B Signaling Pathway/M.** Shi, ShangHai, China, p.A7538
- 724 PD-1 Inhibition Promotes Th1 Inflammation and Alters Lymphocyte Activation in Mice After LPS-Lung Injury/K.** Gibbs, L.D. Purcell, C. Liu, D.C. Files, Winston-Salem, NC, p.A7539
- 725 Sepsis Related Whole Blood MicroRNA Markers and Mediation in Acute Respiratory Distress Syndrome/L.** Su, Z. Zhu, P. Tejera, D.C. Christiani, Boston, MA, p.A7540

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

D106 CELLULAR AND MOLECULAR MECHANISMS OF ENVIRONMENTAL AND OCCUPATIONAL EXPOSURES

1:30 p.m. - 3:30 p.m.

SAN DIEGO CONVENTION CENTER

Room 5 A-B (Upper Level)

Abstract Summaries

1:30-2:00

Viewing/Discussion

2:00-3:30

Chairing: T.M. Nordgren, PhD, Riverside, CA
M.L. McCaskill, PhD, MPH, New Orleans, LA
J.A. Hirota, PhD, BSc, Vancouver, Canada

- 101 Acute Waterpipe Smoke Exposure Induces Differential Pulmonary Toxicity on Oxidative and Inflammatory Responses in Different Strains of Mice/N.** Khan, I.K. Sundar, I. Rahman, Rochester, NY, p.A7541
- 102 Cigarette Smoking Modulation of Alternatively Spliced Transcripts in the Small Airway Epithelium/J.** Salit, S.L. O'Beirne, H. Qadourah, J.G. Mezey, R.G. Crystal, New York, NY, p.A7542
- 103 Identification of a Novel IL-22+ T Cell Population that Is Sensitive to Wildfire Smoke Exposure/J.A.** Bassein, M.G. dela Pena-Ponce, C. Black, L.A. Miller, Davis, CA, p.A7544
- 104 Identification of Respiratory Health Effects and Cytotoxic Flavor Chemicals in Popular Electronic Cigarette Refill Fluids/M.** Hua, E. Omaiye, W. Luo, K.J. McWhirter, J.F. Pankow, P. Talbot, Riverside, CA, p.A7545
- 105 Gender Affects the Transcriptional Response to Particulate Matter in Alveolar Macrophages/A.** Meliton, K.A. Sun, Y. Li, J. Andrade, P.S. Woods, D. Wu, R.B. Hamanaka, G.M. Mutlu, Chicago, IL, p.A7546
- 106 The Effect of Pregnancy on the Respiratory Response to Pro-Inflammatory Insults/G.R.** Zosky, S. Thaver, E. Bennett, L. Foa, S. Richards, B. Lyons, Hobart, Australia, p.A7547
- 107 MTOR Suppresses Environmental Particle-Induced Inflammatory Response in Macrophages/Z.** Li, Y. Wu, S. Ying, W. Li, H. Shen, Z. Chen, Hangzhou, China, p.A7548
- 108 Transcriptomic Changes in the Nasal Epithelium Associated with Diesel Engine Exhaust Exposure/E.** Drizik, S. Corbett, R. Vermeulen, Y. Dai, W. Hu, D. Ren, H. Duan, Y. Niu, J. Xu, W. Fu, K. Meliefste, B. Zhou, J. Yang, M. Ye, X. Jia, T. Meng, P. Bin, Y. Zheng, D. Silverman, N. Rothman, A. Spira, Q. Lan, M.E. Lenburg, Boston, MA, p.A7549
- 109 Effects of Diesel Exhaust Particles on Ciliary Beat Frequency of Bronchial Cells of COPD Patients/H.** Bayram, D. Tasdemir, S. Ilhan, Istanbul, Turkey, p.A7550
- 110 Role of CD55 in Alveolar Macrophages in Chronic Beryllium Disease/L.** Li, J. Elliott, P. Mroz, M. Gillespie, N.Y. Hamzeh, A. Mayer, L.A. Maier, Denver, CO, p.A7551

- 111 **Participation of FIZZ1 in Mouse Model of Silicosis**/V. Martins, A.L. da Silva, P.R.M. Rocco, V. Capelozzi, Sao Paulo, Brazil, p.A7552
- 112 **Pulmonary Function Abnormalities and Lung Inflammation in Rabbits Following 28-Day Recovery from Acute Chlorine Exposure**/G.W. Hoyle, C. Schlueter, D.M. Humphrey, S. Musah, Louisville, KY, p.A7553
- 113 **A Single Cutaneous Exposure to Vesicant Arsenicals Causes Fibrotic Constrictive Bronchiolitis in Mice Lungs**/R. Surolija, F.J. Li, H. Li, Z. Wang, M.P. Kashyap, R.K. Shrivastava, H. Kim, A. Ahmad, A. Agarwal, M. Athar, V.B. Antony, Birmingham, AL, p.A7554
- 114 **Ozone Exposure Induces IL-17A Production in Group 2 Innate Lymphoid Cells in the Absence of Surfactant Protein-D**/C.H. Flayer, M.Q. Ge, E. Larson, S. Killingbeck, A. Haczku, Davis, CA, p.A7555
- 115 **CD163 Protects Against Ozone Increased Susceptibility to Bacterial Pneumonia**/K.M. Gowdy, S.W. Reece, K.L. Cuddapah, B. Kilburg-Basnyat, C. Psaltis, A. Hondros, T.J. McMahon, T. Zeczycki, R.M. Tighe, Greenville, NC, p.A7556
- 116 **Sex-Specific MicroRNA Expression in Ozone-Induced Lung Inflammation**/N. Fuentes Ortiz, A. Roy, N. Cabello, P. Silveyra, Hershey, PA, p.A7557
- 117 **Ozone Stimulates Basolateral Release of ATP from Normal and Asthmatic Primary Human Bronchial Epithelial Cells**/S.L. Tilley, Z.A. German, C.M. Jania, S.D. Budney, C. Van Heusden, E. Lazarowski, Chapel Hill, NC, p.A7558
- 118 **Ozone-Induced Airway Hyperresponsiveness Involves an ATP-P2X7-Mast Cell Pathway**/S.L. Tilley, Z.A. German, C.M. Jania, S.D. Budney, K.D. Chason, Chapel Hill, NC, p.A7559
- 119 **Alterations of Arginine Metabolism and Lung Function Following Acute Exposure of Mice to Concentrated Ambient Fine Particulate Matter and Ozone**/J. Scott, R. Chen, M.L. North, B. Urch, F.S. Silverman, H. Grasmann, C.-W. Chow, Toronto, Canada, p.A7560
- 120 **Dietary Fiber Alters Ozone Induced Airway Hyper Responsiveness in Obese Mice**/H. Tashiro, D.I. Kasahara, R.S. Osgood, Y. Cho, S.A. Shore, Boston, MA, p.A7561
- 121 **Progression, Persistence and Recall of Eosinophilic Rhinitis in Ozone-Exposed Rats**/J.R. Harkema, E.A. Eldridge, E. Teshome, R.P. Lewandowski, J.G. Wagner, East Lansing, MI, p.A7562
- 122 **Transcriptional Response to Particulate Matter Is Not Dependent on the Degree of Mitochondrial Reactive Oxygen Species Generation**/K. Sun, A.Y. Meliton, Y. Li, J. Andrade, P.S. Woods, D. Wu, R.B. Hamanaka, G.M. Mutlu, Chicago, IL, p.A7563
- 123 **ST2-Dependent Responses to Ozone Are Regulated by the Gut Microbiota**/D.I. Kasahara, Y. Cho, S.A. Shore, Boston, MA, p.A7564
- 124 **G Protein-Coupled Receptor 1 Deficiency Exacerbates Ozone-Induced Lung Injury and Lung Inflammation**/R.A. Johnston, C.J. Sinal, J.L. Rourke, C.L. Atkins, S.R. Siddiqui, W.T. Jackson, N.M. Husainat, I.U. Haque, Morgantown, WV, p.A7565

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

D107 HOST PATHOGEN INTERACTIONS

1:30 p.m. - 3:30 p.m.

MARRIOTT MARQUIS SAN DIEGO MARINA

Grand Ballroom 11-13 (North Tower, Lobby Level)

Abstract Summaries 1:30-2:00
Viewing/Discussion 2:00-3:30

Chairing: J.P. Mizgerd, ScD, Boston, MA
S.M. Yeligar, PhD, MS, Decatur, GA
S.J. Skerritt, MD, Seattle, WA

- 801 **Viral-Bacterial Discordance in Allergic Hosts**/A.E. Samarasinghe, K. LeMessurier, A. Iverson, M. Palipane, J. Rosch, Memphis, TN, p.A7566
- 802 **Aerosolized KL4 Surfactant for Mitigating Highly Pathogenic Avian (H5N1) Influenza -Induced Acute Lung Injury and Mortality**/R. Segal, W.S. Tyson, L.A. Weinstein, T.J. Gregory, Y. Li, Warrington, PA, p.A7567
- 803 **BPI-Fold Containing Family A Member 1 (BPIFA1) Regulates Mucosal Immunity and Airway Microbiota**/C.J. Britto-Leon, S. Khanal, B. Wu, Y. Li, L.N. Segal, New Haven, CT, p.A7568
- 804 **Defective Pulmonary Host Defense Against Klebsiella Pneumonia in 25-Hydroxycholesterol Knockout Mice**/P. Mancuso, L. Russo, C. Lumeng, Ann Arbor, MI, p.A7569
- 805 **Depletion of the Resident Alveolar Macrophage Pool Upon Influenza Virus Infection Is Death Ligand-Dependent and Contributes to Disease Severity**/C. Malainou, C. Peteranderl, W. Seeger, J.H. Lohmeyer, S. Herold, Giessen, Germany, p.A7570
- 806 **Intratracheal Phage Therapy Against Acinetobacter Baumanni Lung Infection in Mice**/S.-M. Wienhold, M.C. Brack, G. Nouailles, N.W. Suttrop, C. Seitz, A. Ross, H. Ziehr, C. Gurtner, O. Kershaw, K. Dietert, A.D. Gruber, M. Rohde, C. Rohde, M. Witznath, Berlin, Germany, p.A7571
- 807 **Alveolar Macrophage-Derived Microvesicles Protect Alveolar Epithelial Cells from Influenza Infection**/D. Schneider, A. Podsiad, C. Wilke, L.R.K. Penke, D. Lyons, B.B. Moore, M. Peters-Golden, Ann Arbor, MI, p.A7572
- 808 **Role of PD-1 Axis in Regulating Acute Anti-Influenza CD8 T Cell Response and Memory Formation**/K. Patel, M. Ali, S.F. Ngiow, E.J. Wherry, Philadelphia, PA, p.A7573
- 809 **Mutation of Pneumococcal Phosphodiesterase 2 Skews Macrophage Responses Toward Type I Interferon Expression**/A.K. Wooten, F.T. Coleman, E.I. Arafa, M.R. Jones, L.J. Quinton, S.I. Pelton, G. Bai, J.P. Mizgerd, Boston, MA, p.A7574
- 810 **Rat Model of Chronic Lung Infection Using Pseudomonas Strain RP73**/M.C. McElroy, J. Baily, W. Zajac, G. McLachlan, S. Wright, S. Madden, M. Whitmarsh, A. Young, S. Gandhi, Edinburgh, United Kingdom, p.A7575

811 **IL-36 Cytokines Are Required for Effective Host Defense Against Murine Legionella Pneumophila Pneumonia**/Y. Nanjo, M.W. Newstead, T. Aoyagi, X. Zeng, K. Takahashi, K. Tateda, T.J. Standiford, Ann Arbor, MI, p.A7576

812 **Effects of Oral Commensals on Airway Epithelial Cells**/E. Olsen, J. Weiner, B. Franca, L. Perez, B. Wu, Y. Li, L.N. Segal, J.-C.J. Tsay, New York, NY, p.A7577

813 **Pseudomonas Aeruginosa Quorum Sensing Molecule-Induced Mitochondrial Damage, Oxidative Stress and Epithelial Barrier Dysfunction Is Rescued by Overexpression and Pharmacologic Activation of Peroxisome Proliferator-Activated Receptor Gamma Coactivator 1-Alpha (PGC1-α)**/N.M. Maurice, B. Bedi, Z. Yuan, J.B. Goldberg, C.M. Hart, R.T. Sadikot, Atlanta, GA, p.A7578

814 **The Capacity of Pneumococcus to Stimulate Macrophage NF-κB Activity Dictates the Severity of Adult Pneumococcal Pneumonia**/S. Ideguchi, K. Yamamoto, S. Ide, T. Takazono, T. Saijo, Y. Imamura, T. Miyazaki, K. Yanagihara, Y. Fukuda, S. Nakamura, B. Chang, F.T. Coleman, J.P. Mizgerd, H. Mukae, Nagasaki, Japan, p.A7579

815 **Upper Airway TLR2 Immune Modulators Prime Broad Respiratory Immunity Against Rhinovirus and Influenza Infection and Inhibit Subsequent Lung Inflammation**/N.W. Bartlett, J. Girkin, C.Y. Wong, G. Deliyannis, W. Zeng, C. Demaison, D.C. Jackson, Newcastle, Australia, p.A7803

404 **Ranolazine and Right Ventricular Function in Patients with Pulmonary Hypertension**/Y. Han, P.R. Forfia, A. Vaidya, J.A. Mazurek, M.H. Park, G. Ramani, A.B. Waxman, Philadelphia, PA, p.A7583

405 **Bardoxolone Methyl Increased eGFR in Patients with Pulmonary Arterial Hypertension Associated with Connective Tissue Disease (The LARIAT Study)**/R.J. White, C. Meyer, M. Chin, J.P. Feldman, A. Goldsberry, J.W. McConnell, P.A. McCullough, M. O'Grady, V.F. Tapson, F. Torres, A.B. Waxman, R.J. Oudiz, Rochester, NY, p.A7584

406 **Association of NT-proBNP and Long-Term Outcome in Pulmonary Arterial Hypertension (PAH): Insights from the Phase III GRIPHON Study with Selexipag**/K.M. Chin, L.J. Rubin, R. Channick, L. Di Scala, S. Gaine, N. Galiè, H.A. Ghofrani, M.M. Hoeper, I.M. Lang, R. Preiss, G. Simonneau, O. Sitbon, V.V. McLaughlin, V.F. Tapson, Dallas, TX, p.A7585

407 **Real-World Dosing and Titration of Selexipag in Patients with Pulmonary Arterial Hypertension in the SPHERE Registry (SelexiPag: The Users Drug Registry): Interim Analysis**/M.M. Chakinala, N.H. Kim, K.M. Chin, H.W. Farber, K.B. Highland, A. Hemnes, C. Zhao, M. Keating, B. Hartline, V.V. McLaughlin, St. Louis, MO, p.A7586

408 **Early Initiation of Intravenous Prostanoid Therapy Is Associated with Improved Outcomes in Patients with PAH**/S. Bartolome, N. Sood, T.G. Shah, K. Styrvoky, F. Torres, K.M. Chin, Dallas, TX, p.A7587

409 **Combination Therapy Reduces Hospitalizations in Patients with Pulmonary Arterial Hypertension**/C.M. Blanchette, J.M. Noone, E. Zacherle, K. Gordon, P. Pozella, R. Howden, A. Nelsen, Charlotte, NC, p.A7588

410 **Never Too Old: Safety and Tolerability of Pulmonary Artery Vasodilator Therapies in Octogenarians and Nonagenarians**/D.F. Martin, B.A. Jalil, J.S.S. Smith, E. McDaniel, K. El-Kersh, Louisville, KY, p.A7589

411 **Intravenous Iron Substitution Improves Pulmonary Diffusion Capacity in Patients with Iron Deficiency and Pulmonary Hypertension**/D. Dumitrescu, T. Kramer, H. Hagmanns, F. Gerhardt, T. Viethen, S. Baldus, S. Rosenkranz, Cologne, Germany, p.A7590

412 **A Multicenter, Randomized, Double-Blind, Placebo-Controlled Study to Evaluate the Safety and Efficacy of Oral Treprostinil in Subjects with Pulmonary Hypertension in Heart Failure with Preserved Ejection Fraction-Design of Study TDE-HF-301**/M. Gombert-Maitland, R.P. Frantz, D. Yehle, C. Deng, S.J. Shah, Falls Church, VA, p.A7591

413 **Use of Vasodilator Therapy in WHO Group 3 Pulmonary Hypertension: A Single-Center Experience**/M.P. George, E. Kern, P. Zelarney, J.J. Swigris, A.L. Olson, J.K. Buckner, B. Fenster, Denver, CO, p.A7592

414 **Pulmonary Artery Endovascular Device to Improve Vascular Compliance in Pulmonary Hypertension**/I.M. Lang, K. Vollmers, C. Gerges, M. Pritzker, J. Gainor, J. Scandurra, E.K. Weir, I.M. Lang, Vienna, Austria, p.A7593

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

D108 GOOD VIBRATIONS: NOVEL TREATMENT APPROACHES IN PULMONARY HYPERTENSION

1:30 p.m. - 3:30 p.m. SAN DIEGO CONVENTION CENTER

Room 11 A-B (Upper Level)

Abstract Summaries	1:30-2:00
Viewing/Discussion	2:00-3:30

Chairing: R.T. Zamanian, MD, Stanford, CA
 F.P. Rischard, MD, Tucson, AZ
 D. Kiely, MD, Sheffield, United Kingdom

401 **Mortality in Pulmonary Arterial Hypertension Trials: A Comparison Between Meta-Analyses**/M. Palazzini, E. Gotti, F. Dardi, A. Rinaldi, E. Monti, A. Albin, E. Zuffa, D. Guarino, F. Pasca, A. Manes, N. Galiè, Bologna, Italy, p.A7580

402 **Ralinepag Plasma Levels Correlate with Improvements in Functional and Hemodynamic Parameters in Patients with Pulmonary Arterial Hypertension (PAH)**/H.W. Farber, N. Sood, I.R. Preston, E.L. Parsley, S.A. Turner, P. Klassen, V.F. Tapson, J.L. Vachieri, V.V. McLaughlin, R.J. Oudiz, Boston, MA, p.A7581

403 **Novel Analysis of Treprostinil Dose-Response Relationship Using Weight-Normalized Dosing**/G. Ramani, E. Shen, M. Broderick, A. Wasik, Y. Rao, Baltimore, MD, p.A7582

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- 415 **Exploring the Delivery of Palliative and End of Life Care in Patients with Pulmonary Arterial Hypertension; A U.K Based Qualitative Interview Study/S. Woolcock, D.W. Hamilton, P.A. Corris, C. Exley, Newcastle upon Tyne, United Kingdom, p.A7594**
- 416 **Transform-UK: A Phase 2 Trial of Tocilizumab in Pulmonary Arterial Hypertension/M. Toshner, A.C. Church, L. Harlow, G. Coghlan, S. Gibbs, D. Gor, J. Hernandez-Sanchez, D. Kiely, E. Knightbridge, J. Suntharalingam, M. Wilkins, J. Wort, S.P. Gaine, N.W. Morrell, P. Corris, Cambridge, United Kingdom, p.A7804**

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

D109 NEW PLAYERS IN LUNG INJURY AND REPAIR

1:30 p.m. - 3:30 p.m. MARRIOTT MARQUIS SAN DIEGO MARINA
Pacific Ballroom 15-17 (North Tower, First Floor)

Abstract Summaries 1:30-2:00
Viewing/Discussion 2:00-3:30

Chairing: W.J. Janssen, MD, Denver, CO

S. Herold, MD, PhD, Giessen, Germany

Y. Zhang, PhD, New Haven, CT

- 901 **Platelet and Airway Epithelium Bioenergetics Are Different in Obese Versus Lean Asthmatics/D.E. Winnica, C. Corey, L.G. Que, F. Holguin, S. Shiva, Aurora, CO, p.A7595**
- 902 **Dissecting the Role of Pulmonary Neuroendocrine Cells in Lung Immune Responses/X. Sun, P. Sui, San Diego, CA, p.A7596**
- 903 **Changes in Airway Platelet Population and Morphology in a Murine Model of Lung Fibrosis/R.D. Carrington, S.M. Jordan, K. Meecham, C.P. Page, S. Pitchford, Huntingdon, United Kingdom, p.A7597**
- 904 **Role of Mitochondrial DNA Damage in Aberrant Airway Remodeling and Repair Post Inhalation Lung Injury/S. Aggarwal, I. Ahmad, A. Lam, H. Paiste, M.N. Gillespie, S. Matalon, Birmingham, AL, p.A7598**
- 905 **The Role of Autophagy Proteins in Mesenchymal Stromal Cell Therapy During Oxidative Stress and Sepsis/S. Ghanta, M. Kwon, A.M.K. Choi, M.A. Perrella, Boston, MA, p.A7599**
- 906 **Functional Role of Pericytes in Lung Fibrosis/C. Hung, Y.-H. Chow, W.A. Altemeier, L.M. Schnapp, Seattle, WA, p.A7600**
- 907 **The Limit of Lung Ischemia in Mouse Lung Transplantation: 2 Hours at 0°C or 3 Hours at 37°C/X. Wang, Pittsburgh, PA, p.A7601**
- 908 **Adult Monocytes Protect Juvenile Mice from Influenza A Virus-Induced Lung Injury/B. Coates, M. Turner, Q. Satava, M. Ciesielski, Y. Chengyuan, K.M. Ridge, Chicago, IL, p.A7602**
- 909 **Nrf2 Promotes Recovery from Ischemia-Reperfusion Injury After Lung Transplantation/T. Togo, Y. Hoshikawa, M. Noda, H. Yabuki, M. Hideki, T. Watanabe, F. Junichi, Y. Okada, Sendai, Japan, p.A7603**
- 910 **Single-Cell RNA-seq Highlights Fibroblast Heterogeneity Among Models of Tissue Fibrosis/K.-H. Sun, T. Tsukui, Y. Chang, I. Driver, D. Sheppard, San Francisco, CA, p.A7604**
- 911 **TACC2 Protein Mediates Epithelial Cell Survival and Alveolar Integrity Against Cigarette Smoke Exposure/T. Nyunoya, X. Li, J. Jang, C. Zou, R. Mallampalli, Pittsburgh, PA, p.A7605**
- 912 **Dissecting the Molecular Effects of Cigarette Smoke on Proteasome Function/S. Meiners, I.E. Kammerl, A.M. Caniard, J. Merl-Pham, G. Ben-Nissan, A. Mossina, A. Geerlof, O. Eickelberg, S. Hauck, M. Sharon, Munich, Germany, p.A7606**
- 913 **Cigarette Smoke Increases Severity of Influenza A Viral Infection and Impairs Epithelial Antiviral Responses in a Mouse Model/P. Duffney, A. Nogales, T.H. Thatcher, L. Martinez-Sobrido, R.P. Phipps, P.J. Sime, Rochester, NY, p.A7607**
- 914 **Detection of Apoptosis in Smokers Using Functional Molecular Imaging/M.P. Goldklang, L. Fonseca, R. Yeh, G. Wagener, L.L. Johnson, J.M. D'Armiento, New York, NY, p.A7608**
- 915 **Cigarette Smoke Exposure Alters the Airway Epithelial Cell Fate by Modulating Mitochondrial Morphology and Bcl-2 Levels/H.S. Chand, S.S. Hussain, S. George, S.P. Singh, R.D. Jayant, M. Nair, M.L. Sopori, Miami, FL, p.A7609**
- 916 **Vitamin C Attenuates Endothelial Permeability Triggered by Cell-Free Hemoglobin/J.A. Bastarache, J.L. Kuck, C.M. Shaver, J.P. Fessel, S.I. Dikalov, J.M. May, L.B. Ware, Nashville, TN, p.A7610**
- 917 **Nanoparticles Targeted to Pulmonary Intravascular Leukocytes for the Early and Specific Detection of Acute Respiratory Distress Syndrome/J.S. Brenner, J.W. Myerson, P.N. Patel, P.M. Glassman, V.R. Muzykantov, Philadelphia, PA, p.A7611**
- 918 **Cystic Fibrosis Transmembrane Conductance Regulator Potentiation as a Therapeutic Strategy for Pulmonary Edema: A Proof-of-Concept Study in Pigs/X. Li, L.G. Vargas Buonfiglio, R. Adam, D.A. Stoltz, J. Zabner, A.P. Comellas, Iowa City, IA, p.A7612**
- 919 **Stromal Derived Factor-1 is Important for Mesenchymal Stromal Cell Function: Impact on Cell Response During Sepsis/M.-Y. Kwon, K. Tsoyi, S. Ghanta, X. Liu, M.A. Perrella, Boston, MA, p.A7613**
- 920 **Human Alveolar-Like Macrophages Derived from Embryonic Stem Cells for the Treatment and Prevention of Lung Disease/S. Bouch, M.L. Litvack, M. Post, Toronto, Canada, p.A7614**
- 921 **Nosocomial Lung Infection Induces a Pulmonogenic Prionopathy that Disrupts the Endothelial Barrier of the Brain/S.B. Voth, M. Lin, R. Balczon, C.M. Francis, T. Stevens, Mobile, AL, p.A7615**
- 922 **Lung Infection Elicits Endothelial Amyloids with Distinguishable Antimicrobial and Cytotoxic Properties/S.B. Voth, R. Balczon, C.M. Francis, J. Audia, T. Stevens, Mobile, AL, p.A7616**
- 923 **Single Cell RNA Sequencing Analysis of Hhip⁺ Murine Lung Reveals Cell Type Specific Changes Related to Inflammatory Pathways/J.H. Yun, C. Lee, L. Pinello, P. Castaldi, C.P. Hersh, X. Zhou, Boston, MA, p.A7617**

The information contained in this program is up to date as of April 16, 2018. For the most current session information, please visit the [online program itinerary](#).

- 924 **Defining the Transcriptional Landscape of Pericytes in Acute Lung Injury**/S. Holton, S.A. Gharib, A. Haick, L.M. Schnapp, C. Hung, W.A. Altemeier, Seattle, WA, p.A7618
- 925 **Genetic Variation in Surfactant Protein-A2 Differentially Mediates Responses to Ozone**/W. Pederson, M. Prasetyo, J.M. Cyphert, R.M. Tighe, L.G. Que, J.G. Ledford, Tucson, AZ, p.A7619

RAPID: RAPID ABSTRACT POSTER DISCUSSION SESSION

D110 EPITHELIAL FUNCTION IN HEALTH AND DISEASE

1:30 p.m. - 3:30 p.m. **MARRIOTT MARQUIS SAN DIEGO MARINA**

Pacific Ballroom 24-26 (North Tower, First Floor)

Abstract Summaries 1:30-2:00

Viewing/Discussion 2:00-3:30

Chairing: I.H. Heijink, PhD, Groningen, Netherlands
D.A. Knight, PhD, Callaghan, Australia
J.S. Debley, MD, Seattle, WA

- 1001 **Intragranular Mucin Packaging in Normal and Cystic Fibrosis Human Bronchial Epithelial Cells**/O. Ponomarchuk, S. Raquena, R. Fudala, I. Gryczynski, S. Dzyuba, Z. Gryczynski, E. Brochiero, R. Grygorczyk, Moscow, Russian Federation, p.A7620
- 1002 **Mucus Strands Initiate Ciliary Transport of Particles in Large Airways**/A.J. Fischer, C. Shanrock, A. Chaly, M. Abou Alaiwa, M. Welsh, Iowa City, IA, p.A7621
- 1003 **Tricellulin: A New Player in DEP-Induced Airway Epithelial Barrier Dysfunction**/T. Smyth, T. Chapman, J. Veazey, A.C. Elder, Z. Knowlden, S.N. Georas, Rochester, NY, p.A7622
- 1004 **Myofibroblast Differentiation Impairs Ability to Support Adult Distal Lung Epithelial Organoid Formation**/J.-P. Ng-Blichfeldt, V. Guryev, P.S. Hiemstra, J. Stolk, M. Koenigshoff, R. Gosens, Groningen, Netherlands, p.A7623
- 1005 **WNT5a/5b Signaling Represses Functional Responses in Lung Epithelial Progenitors**/X. Wu, E.M. Dijk, J.-P. Ng-Blichfeldt, S. Bos, L.E.M. Kistemaker, R. Gosens, Groningen, Netherlands, p.A7624
- 1006 **hCFTR (human Cystic Fibrosis Transmembrane Conductance Regulator) mRNA Delivered Using a Novel Biodegradable Nanovector to CFTR Knock-Out Rats Improves CFTR Expression and Chloride Transport Across the Nasal Epithelium In Vivo**/N. Kaza, L. Tang, R.-J. Shei, D. Stanford, L.W. Rasmussen, F. DeRosa, S. Karve, M. Heartlein, S.M. Rowe, Birmingham, AL, p.A7625
- 1007 **The E-Cigarette Flavoring Cinnamaldehyde Suppresses Mitochondrial Function and Transiently Impairs Cilia Beat Frequency in Human Bronchial Epithelial Cells**/P. Clapp, K. Lavrich, B. Reidel, C. van Heusden, M. Kesimer, E. Lazarowski, J. Carson, I. Jaspers, Chapel Hill, NC, p.A7626
- 1008 **Cell Jamming During In Situ Trachea Epithelial Regeneration**/S. Kwok, V. Vinarsky, J.-A. Park, J.J. Fredberg, J. Rajagopal, S.-H. Yun, Boston, MA, p.A7627
- 1009 **Isolation, Reactivation and Stimulation of Axonemes Extracted from Cultured Primary Human Airway Epithelial Cells**/M. Price, J.A. Pavlik, D.M. Katafiasz, K.L. Bailey, J.H. Sisson, Omaha, NE, p.A7628
- 1010 **Study on the Role and Mechanism of Aquaporin 3 in Pulmonary Infection Caused by Pseudomonas Aeruginosa**/M. Chang, Shanghai, China, p.A7629
- 1011 **Antisense Oligonucleotide Mediated Reduction of SPDEF Regulates Goblet Cell Formation in Multiple Murine Pulmonary Disease Models**/J.R. Crosby, C. Zhao, D. Bai, M. Zhang, B.P. Monia, S. Guo, Carlsbad, CA, p.A7630
- 1012 **Role of Acquired CFTR Dysfunction in Alcohol Impairment of Mucus Clearance**/L.W. Rasmussen, D. Stanford, J. LaFontaine, S.E. Phillips, K. Hyunki, K. Patel, L. Tang, C.M. Evans, S.M. Rowe, T. Schoeb, S. Bailey, W.E. Swords, E.L. Burnham, S.V. Raju, Birmingham, AL, p.A7631
- 1013 **Investigating the Role of Cell-Free DNA (cfDNA) Release from Airway Structural Cells in Asthma Pathogenesis**/S.M. Thompson, J. Patel, D. Shaw, M. Ilyas, A.J. Knox, R.L. Clifford, Nottingham, United Kingdom, p.A7632
- 1014 **Targeting Cellular Senescence Prevents Cigarette Smoke-Induced Pulmonary Emphysema**/T. Cottage, J. Kearley, A. Berlin, N. Peterson, J. Connor, R. Lemaire, Gaithersburg, MD, p.A7633
- 1015 **Lung Bioengineering and Direct Pulmonary Cell Therapy Using a Novel Airway Spray Device**/S. Skolasinski, M. Timm, C. Meyer, S. Zeeshan, A. Naqwi, A. Panoskaltis-Mortari, Minneapolis, MN, p.A7634
- 1016 **Utility of Perfluorochemical Liquids for miRNA Transfection into Human Alveolar Type II Cells**/M. Marcinkiewicz, S.T. Baker, J. Wu, Y. Tian, S. Bolla, C. Mandapati, F. Salton, M. Confalonieri, N. Marchetti, G.J. Criner, M.R. Wolfson, Philadelphia, PA, p.A7635
- 1017 **Regional Expression of Secretory Mucins MUC5AC and MUC5B in Normal Human Airways**/K. Okuda, G. Chen, T. Kato, M. Wolf, R. Gilmore, K. Burns, M. Chua, A. Livraghi-Butrico, C. Ehre, C.M. Doerschuk, S.H. Randell, H. Matsui, T. Nagase, W.K. O'Neal, R.C. Boucher, Chapel Hill, NC, p.A7636
- 1018 **Culture of Epithelial Cells on Unphysiological Stiff Plastic Perturbs Baseline and Glucocorticoid Induced Gene Expression**/Q.H. Chen, M. Li, Y. Wu, Y.C. Xia, S.Y. Langenbach, P.V.S. Lee, A. Stewart, Melbourne, Australia, p.A7637
- 1019 **Loss of Mitochondrial Calcium Buffering Underlies Acute Lung Injury**/M.N. Islam, G.A. Gusarova, S.R. Das, M. Wei, J. Bhattacharya, New York, NY, p.A7638
- 1020 **Surfactant Protein-D (SP-D) Modulates O₂-Induced Inflammatory Response in the Airway Via TNF α and Ceramide Signaling**/A. Haczku, M.Q. Ge, S.L. Vu, S. Chung, C.H. Flayer, T. Goldkorn, Davis, CA, p.A7639
- 1021 **Potential Autocrine and Paracrine Signalling in the Lung**/S. Devlin, S.C. Rowan, M. Pickering, K.D. Rochfort, P. McLoughlin, Dublin, Ireland, p.A7640

- 1022 Conditional Deletion of Nedd4-2 in Lung Epithelial Cells Causes Diffuse Parenchymal Lung Disease in Adult Mice/D.**
Leitz, J. Duerr, M. Szczygiel, D. Dvornikov, P. Konietzke, H. Kawabe, D. Rotin, M.O. Wielpuetz, M.F. Beers, U. Klingmüller, M.A. Mall, Heidelberg, Germany, p.A7641
- 1023 Oxidized Phosphatidylcholine Induces Mitochondrial and Endoplasmic Reticulum Stress in Airway Epithelial Cells/C.**
Pascoe, E. Turner-Brannen, N. Roy, A.J. Halayko, A.R. West, Winnipeg, Canada, p.A7642
- 1024 Senescent Lung Fibroblasts Reduce Alveolar Epithelial Cell Regeneration: Implications for Pulmonary Fibrosis/K.E.C.**
Blokland, D.W. Waters, M. Schuliga, C. Grainge, S.E. Mutsaers, C. Prele, G.P. Westall, J. Jaffar, J.K. Burgess, D.A. Knight, Callaghan, Australia, p.A7643
- 1025 Mutations in C11ORF70 Cause Primary Ciliary Dyskinesia with Randomization of Left-Right Body Asymmetry Due to Outer and Inner Dynein Arm Defects/H. Omeran, I.M. Höben, R. Hjeij, H. Olbrich, G.W. Dougherty, T. Menchen, I. Aprea, D. Frank, P. Pennekamp, B. Dworniczak, J. Wallmeier, J. Raidt, K.G. Nielsen, M.C. Philipsen, F. Santamaria, L. Venditto, I. Amirav, H. Mussaffi, F. Prenzel, K. Wu, M. Schmidts, N.T. Loges, Muenster, Germany, p.A7805**



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