

LIST OF POSTERS 2015
Biomedical Sciences and Health Disparities Symposium
April 15-17, 2015
John A. Burns School of Medicine

Key to Abbreviations

ANAT-Anatomy, Biochemistry and Physiology
 BDMC-Biostatistics and Data Management Core
 CCR-Center for Cardiovascular Research
 CMB-Cell and Molecular Biology
 DRB-Developmental and Reproductive Biology
 IBR-Institute for Biogenesis Research
 KCC-Kapiolani Community College
 LCC-Leeward Community College
 NHH-Native Hawaiian Health
 PH-Public Health Sciences
 QMC-Queen's Center for Biomedical Research
 TRMD-Tropical Medicine, Medical Microbiology and Pharmacology
 UHCC-University of Hawai'i Cancer Center
 WCC-Windward Community College

Presenters

Sponsor

Department

Faculty

Vaness Douet

Medicine/MRI/Queen's

Abstract: ERBB4 Polymorphism and Family History of Psychiatric Disorders on Typical Brain Development
 (Co-authors: Vanessa Douet, Linda Chang, Kristin Lee, Thomas Ernst)

Keith S. K. Fong

ANAT

Abstract: A Nonsense Mutation in the Tet1 Gene Affects the Craniofacial Expression of *Alx1*, *Dlx5* and *Msx* and is Associated with Midfacial Clefting and Cephalocele Formation in the *tuft* Mouse
 (Co-authors: Robert B. Hufnagel, Michael J. Corley, Geoffrey W. Yee, Alika K. Maunakea, Zubair M. Ahmed, Scott Lozanoff)

Andrew Grandinetti

PH

Abstract: Lipid Profiles in the Rural Community of North Kohala: the Kohala Health Study

Mary Guo

PH

Abstract: Non-English Languages and Use of Health Care Quality Information in the Maternal Delivery Decision
 (Co-authors: Jill Miyamura, Ann Chang, Tetine Sentell)

Pakieli Kaufusi

TRMD

Abstract: West Nile Virus Infection Initiates Disassembly of Golgi Apparatus
 (Co-authors: Alanna Tseng and Vivek R. Nerurkar)

PH

Minami Konishi

Abstract: Theory-based Educational Sessions to Promote Colorectal Cancer Prevention and Screening for Japanese Immigrant Groups in Hawai'i: A Pilot Study
 (Co-author: Jane O. Onoye)

Mukesh Kumar

TRMD

Abstract: Defining Cause-and-effect Relationships Between Virus Replication, Infiltration of Immune Cells, and Production of Inflammatory Mediators in Mouse Models of West Nile Virus-associated Neuroinflammation
(Co-author: Vivek Nerurkar)

Axel T. Lehrer

TRMD

Abstract: Development of a Recombinant Subunit Vaccine for Protection against Ebola Virus Disease
(Co-authors: M.M. Lieberman, T.S. Wong, L. Johns)

Miyazaki, Kyle

Pathology/QMC

Abstract: Metastatic Neoplasms to the Breast Diagnosed by Fine Needle Aspiration/Core Needle Biopsy: Clinicopathologic and Cytomorphologic Correlation
(Co-author: Pamela S. Tauchi-Nishi)

Ashley Rae Okada

Pathology/QMC

Abstract: Metastatic Lung Adenocarcinoma to the Kidney Diagnosed by Urine Cytology
(Co-Authors: Wichit Sae-Ow , Ricky Kaneshiro, Blake Lyon, Paul T. Morris, Christopher Lum, Pamela S. Tauchi-Nishi)

Deborah Matteus

School of Nursing

Abstract: Disparities in the Utilization of Dental Services for Pregnant Women in Hawai'i
(Co-authors: Maureen Shannon, Eunjung Lim, Krupa Gandhi)

Matthew Pitts

CMB

Abstract: Competition between the Brain and Testes for Selenium Utilization: Insights into Gender Differences in Selenium Metabolism and Risk of Neurodevelopmental Disease
(Co-authors: Penny M. Kremer, Ann C. Hashimoto, Daniel Torres, China N. Byrns, Christopher S. Williams, Marla J. Berry)

Ivo SahBandar

TRMD

Abstract: Monocyte Function Does Not Correlate with Insulin Resistance in HIV-Negative Individuals
(Co-authors: Brooks Mitchell, Mary Margaret Peterson, Omar Mbowe, Cecilia Shikuma, Lishomwa Ndhlovu)

Resident Physicians

Akika Ano

Todd Seto

Medicine/Cardiology

Abstract: Response of Acute Rheumatic Carditis to Anti-Inflammatory Therapy Versus Early Surgical Repair Documented by X-ray and Echocardiogram
(Co-authors: Anne Kemble, Masayuki Nogi, Todd Seto)

Abdulwahab Ewaz

Pamela Tauchi-Nishi

Pathology/QMC

Abstract: The Efficacy of Eus-guided Fine Needle Aspiration and Rapid On-site Evaluation in the Diagnosis of Gastric Lesions
(Co-authors: Renn Putora , Reid Sakamoto, Pamela Tauchi-Nishi)

Christopher Loo

Rong-Fu Wang

Surgery

Abstract: Melanoma Antigen-Embedded Mesoporous Silica Microparticles and Enhanced anti-tumor efficacy in a Pulmonary Metastasis Model: A Novel Strategy for Dendritic Cell-based Cancer Nanoimmunotherapy.

(Co-authors: Ismail Meraz, Ming-Jun Wang, Rita Serda, Herlen Wang, Mauro Ferrari and Rong-fu Wang.

Mobeen Rahman

Pamela Tauchi-Nishi

Pathology/ QMC

Abstract: Metastatic Neoplasms to the Thyroid Diagnosed by Fine Needle Aspiration/Core Needle Biopsy: A Clinicopathologic and Cytomorphologic Correlation

(Co-authors: Ashley Okada, Pamela Tauchi-Nishi)

Shasha Raymond

Pamela Tauchi-Nishi

Pathology/QMC

Abstract: Metastatic Genitourinary Cancers Diagnosed by Effusion Cytology: Clinicopathologic and Cytomorphologic Correlation

(Co-authors: Kaylene Au, Ryan Fu, Pamela Tauchi-Nishi)

Sithel Sar

Tyler Reese

Family Med/Tripler

Abstract: Atypical Presentation of Testicular Cancer

(Co-authors: Sheila M. Swain, Tyler Reese)

Ittikorn Spanuchart

Jason Dinh

Internal Medicine/QMC

Abstract: Influenza Type A-induced Rhabdomyolysis Causing Acute Renal Failure Requiring Renal Replacement Therapy

(Co-authors: Jennifer Katada, Bhisit Changcharoen)

Michelle Tsai

Tricia Wright

OB-GYN

Abstract: Oxidative Stress and Compensatory Anti-Inflammatory Mechanisms in the Placentas of Gravid Marijuana Smokers

(Co-author: Matthew Loichinger)

Fellow Physicians

Brita Aramaki

Daniel Fischberg

Geriatric Medicine

Abstract: A Bimonthly Interdisciplinary State-Wide Palliative Care Case Conference Promotes Education, Networking, and Emotional Support, The Queen's Medical Center Honolulu, HI, United States

(Co-authors: Elizabeth Freitas, Christina Bell, Kamal Masaki, Daniel Fischberg)

Autumn Broady

Janet Burlingame

OB/GYN

Abstract: Ascertainment of Cesarean Delivery Surgical Site Infection: A Comparison of Methods

(Co-authors: Chieko Kimata, Bruce Huegel, Marsha Durbin, Melinda Ashton, Janet Burlingame)

Autumn Broady

Gillian Bryant-Greenwood

OB/GYN

Abstract: Placental Visfatin/NAMPT and Sirtuin-1 Expression in Pre-eclampsia

(Co-authors: Matthew Loichinger, Gillian Bryant-Greenwood)

Shinji Ito

Kamal Masaki

Geriatric Medicine

Abstract: End-of-Life Preference Discussions Between Elderly Japanese-American Men and Their Families: The Honolulu-Asia Aging Study.

(Co-Authors: Lauren Okamoto, Christina Bell, Kaon Fong, Kamal Masaki)

Sung Eun Jang Aida Wen Geriatric Medicine
Abstract: The Practice Improvement in Education (PIE) Project: Patient Outcomes Related to Education on Depression in Nursing Homes
(Co-authors: Aida Wen, Christina Bell, Sebrina Parkins, Chris Stevens, Jan Shishido, Kamal Masaki)

Ahnate Lim Linda Chang Medicine
Abstract: Prenatal Tobacco Exposure and Gender on Subcortical Brain Volume Development in Young Children
(Co-authors: Linda Chang, Eric Cunningham, Dan Alicata, Christine Cloak, Thomas Ernst)

Kara Wong Ramsey Sheree Kuo Pediatrics
Abstract: Infant Body Composition in an Asian Pacific Islander Population, Kapiolani Medical Center for Women and Children
(Co-author: James Davis)

Kelly Yamasato Janet Burlingame OB/GYN
Abstract: Episiotomy: Who Does Them and Does it Help?
(Co-authors: Kimata C, Huegel B, Durbin M, Ashton M, Burlingame JM)

Naori Yamashiro Christina Bell/Kamal Masaki Geriatrics
Abstract: Diagnoses Associated With Death, Hospitalization and ER Visits: The Hospital at Home Program at the VA Pacific Islands Healthcare system
(Co-authors: Lavonda Nakamoto, Linda Jensen, Mary Lou Marks, Ashley Rivera, Wade Makizuru, Kim Schaper, Alyssa Mansfield, George Ross, Patricia Laurel)

MEDICAL STUDENTS

Nikki Castel F.D. Parsa Plastic Surgery
Abstract: Wave-plasty
(Co-author: Fereydoun Don Parsa)

Anna Flaherty F. D. Parsa Plastic Surgery
Abstract: Polyurethane-Coated Breast Implants Revisited: A 30-Year Follow-Up
(Co-authors: Nikki Castel, Taylor Soon-Sutton, Peter Deptula, Fereydoun Don Parsa)

Alexandra Galati Kazuma Nakagawa Medicine/QMC
Abstract: The Excess Cost of Inter-island Transfer of Intracerebral Hemorrhage Patients.
(Co-authors: Kazuma Nakagawa, Deborah Taira Juarez)

Jared Hara Peter Hoffman Medicine/CMB
Abstract: Cationic Liposomes Promote *In Vivo* Transfection, Innate Immunity Activation and Antigen-Specific CD8⁺ T Cell Activation Following Vaccination With Piggybac DNA Plasmids
(Co-authors: Pietro Bertino, FuKun Hoffmann, Aaron Rose, Stefan Moisyadi, Peter Hoffmann)

Trudy Hong Scott Lozanoff ANAT
Abstract: Presenting Mechanisms of Anatomical Variations Utilizing 3D Animations and the Aurasma Mobile APP
(Co-authors: Kaori Tamura, Georg C. Bezard, Beth K. Lozanoff, Steven Labrash, Scott Lozanoff)

Nahoko Ishikawa Pamela-Tauchi-Nishi Pathology/QMC
Abstract: The Number and Distribution of Eosinophils in the Human Gastrointestinal Tract: A Study of the Effect of Race and Environmental Factors
(Co-authors: Riruke Maruyama, T Matsushita, T Yuki, Y Kinoshita, Diane Chen, Pamela Tauchi-Nishi)

Shannon Kogachi Linda Chang Medicine
Abstract: Sex Differences in Impulsivity and Brain Morphometry in Methamphetamine Users
(Co-authors: Linda Chang, Daniel Alicata, Eric Cunningham, Thomas Ernst)

Erik Lau Kamal Masaki Medicine
Abstract: Parkinsonism Motor Findings in the UCSF HIV over 60 COHORT. Memory and Aging Center, Department of Neurology, University of California, San Francisco
(Co-authors: Pardis Esmaeili-Firidouni, Lauren Wendelken, Victor Valcour)

Matthew Loichinger Dean Towner OB/GYM
Abstract: Effects of Hemodialysis on Fetal Heart Rate Pattern: Is Inpatient Admission Necessary for Fetal Monitoring During Dialysis?

Diana Lu Francisco Conde Radiation Oncology/QMC
Abstract: Racial and Ethnic Parities in Outcomes After Breast Conservation Therapy in Native Hawaiians
(Co-authors: Stephanie T. Chu, Gordon S. Okimoto, Gene-Fu F. Liu, Scott D. Moon, Francisco Conde II)

Michael Ogata Todd Seto Medicine
Abstract: A Community-Based, Culturally Relevant Physical Activity and Nutrition Program to Reduce Native Hawaiian Cardiovascular Health Disparities: Youth Baseline Characteristics.
(Co-authors: May Vawer, Malia Young, Diane Paloma, Cynthia Damo, Daid Mena, Rick Rutiz, Mikala Minn, Todd Seto)

Dustyn Uchiyama Takashi Matsui Medicine/Anatomy
Abstract: Acidic Gel-induced Cardiomyocyte Cell Death: An *in vitro* Model for Studying Myocardial Scarring Along Myofibers in Acute Myocardial Infarction
(Co-authors: Naaiko Yorichika, Jason K Higa, Briana Shimada, Steven Labrash, Scott Lozanoff, Takashi Matsui)

Nash Witten Gregory Maskarinee NHH
Abstract: Social Justice in Health: Privilege

Jennifer Wong David Shimizu Pathology/OB/GYN
Abstract: DNA Mismatch Repair and Tumor Suppressor ARID 1A Protein Expression in Endometrial Intraepithelial Neoplasia
(Co-authors: Koah R. Vierkoetter, Keith Y. Terada, David M. Shimizu)

Chloe Yuan Yusuke Marikawa ANAT
Abstract: Teratogenicity Assessment of Common Excipients: Stem Cell-Based In Vitro Model Study
(Co-author: Yusuke Marikawa)

Post-Doctoral Fellows

Michelle de la Vega Michelle Matter UHCC
Abstract: *Pthr2 (Bit-1)* Mutation Causes Decreased Cell Survival and Congenital Muscle Myopathy
(Co-authors: Mayumi Jijiwa, Chanel Casamina, Dean J. Burkin, Angela M. Kaindl)

Se Hun Gu Richard Yanagihara Pediatrics/TRMD
Abstract: Prevalence and Phylogeny of Nova Hantavirus in the European Mole (*Talpa europaea*)
(Co-authors: Jean-Pierre Hugot, Janusz Hejduk, Janusz Markowski)

Chih-Yun Lai Saguna Verma TRMD/Pharmacology
Abstract: NLRC5 Protects Mice From West Nile Virus (WNV) Infection by Promoting Virus Clearance and Inducing Optimum Innate Immune Markers
(Co-author: Saguna Verma)

Estelle Martin Vivek Nerurkar TRMD
Abstract: Vector Competence of *Aedes albopictus* to Dengue Virus Type 1 on Oahu, Hawaii
(Co-authors: Shannon Bennett, Vivek R. Nerurkar, Korina Hernandez, Deon Canyon)

Anastasia Pavlidou Linda Chang Medicine/QMC
Abstract: The Effects of Pramipexole On Visual Attention And Working Memory In Healthy Subjects: An fMRI Study.
(Co-authors: Linda Chang, Andrew Stenger, Thomas Ernst)

Noemi Polgar Ben Fogelgren ANAT
Abstract: Sec10 and the Exocyst are Critical for Renal Epithelial Monolayer Homeostasis and Cilia Formation
(Co-authors: Amanda J. Le, Vanessa H. Lui, Ben Fogelgren)

Viola Pomozi Olivier Le Saux CMB
Abstract: Functional Rescue of Mutant ABCC6 Proteins by 4-phenylbutyrate
(Co-author: Christopher Brampton, Krisztina Fülöp, Ailea Apana, András Váradi, Olivier Le Saux)

Khalid Rehman John Pezzuto UH Hilo/Pharmaceutical Science
Abstract: Anticancer Characteristics of Selected Medicinal Plants from Pakistan
(Co-authors: Parimelazhagan Thangaraj, Tamara P. Kondratyuk, Farooq Hussain Munis, Hassan Javed Chaudhary, John M Pezzuto)

Ali Seyedali Marla Berry CMB
Abstract: The Molecular Mechanism Underlying Selenium Homeostasis Involves mRNA Decay Pathways
(Co-author: Marla Berry)

Tarra Swenson John Pezzuto UH Hilo/Pharmacy
Abstract: *In vitro* Evaluation of Cytotoxic Activity from *Psychotria nilgiriensis* Extracts.
(Co-authors: Parimelazhagan Thangaraj, Tamara P. Kondratyuk, John M Pezzuto)

Parimelazhagan Thangaraj John Pezzuto UH Hilo/Pharmaceutical Science
Abstract: Anticancer Potential of Extracts from *Psychotria nilgiriensis*

(Co-authors: Tamara P. Kondratyuk, End-Jung Park, Tarra Swenson, Sajeesh Thankarajan, Murugan Rajan, John M Pezzuto)

Allison L. Williams

Ralph Shohet

CCR

Abstract: HIF1 Regulation of SERCA2 Expression and Cardiac Contractility by miR-29c

(Co-authors: Chad Walton, Abigail Avelar, Ralph Shohet)

Research Associates

Tamara Andres

Linda Chang

MRI Program/QMC

Abstract: Attention Function And White Matter Integrity In Past And Current Methamphetamine Users

(Co-Authors: Kenichi Oishi, David Greenstein, Vanessa Douet, Caroline Jiang, Thomas Ernst, Linda Chang)

Yvonne Baumer

William Boisvert

CCR

Abstract: Targeting Inflamed Endothelium in Atherosclerosis With a Novel Drug Delivery System

(Co-Authors: McCurdy S., Yamazaki N., Boisvert WA)

Tracy Cheung

Pamela Tauchi-Nishi

Pathology

Abstract: The Impact of the New ACOG Cervical Cancer Screening Guidelines For Adolescents: A 10-Year Retrospective Analysis

(Co-authors: Sara Harris , Mark Hiraoka, Pamela Tauchi-Nishi)

Kelli Kaneta

Bruce Shiramizu

Pediatrics/TRMD

Abstract: Minimal Residual Disease Associated With Mitochondrial DNA in Childhood B-Cell Lymphoma

(Co-authors: Miki Ueoka, Christie Nakamura, Jason Kuroda, Melissa Agsalda-Garcia, Bruce Shiramizu)

Ka'ahukane Leite-Ah Yo

Alika K. Maunakea

NHH

Abstract: The Epigenetics on the Anti-Cancer Activity of Noni (Morinda Citrifolia)

(Co-authors: Kekaihala'i Avilez, Thomas Hemscheidt, Dana-lynn Ko'omoa Lange)

Eunjung Lim

Jill Miyamura/John Chen

BDMC

Abstract: Reference Intervals for Common Laboratory Tests in the United States: A Comparison among Asians, Blacks, Hispanics, and Whites

Linsey Long

Jane. M. Onoye

Psychiatry

Abstract: Self-report and Informant Predictors of Problems in Memory and Thinking in Elderly Parents of the HFSC

(Co-authors: Jane Onoye)

Taylor Loui

Amy Wassman

NHH

Abstract: Complementary and Alternative Medicine in the Lau Ola Clinic: Preliminary Survey Results

(Co-authors: Marjorie Mau, George Zhang, Lau Ola clinic)

Vanessa Lui

Ben Fogelgren

ANAT

Abstract: Cardiac Dysfunction in Newborn Mice with Bilateral Ureter Obstructions and Anuria

(Co-authors: Noemi Polgar, Amanda J. Lee, Kadee-Kalia Tamashiro, Josephine Andrea Napoli, Chad B. Walton and Ben Fogelgren)

Madhuri Namekar Axel T. Lehrer/ Vivek R. Nerurkar TRMD
Abstract: Development of Multiples Microsphere Immunoassay for Rapid Serological Detection of Ebola Virus Detection
(Co-authors: Axel T. Lehrer, James Davis, Vivek R. Nerurkar)

Ashley Okada Pamela S. Tauchi-Nishi Pathology/QMC
Abstract: Metastatic Lung Adenocarcinoma to the Kidney Diagnosed by Urine Cytology
(Co-Author: Wichit Sae-Ow , Ricky Kaneshiro, Blake Lyon, Paul T. Morris, Christopher Lum, Pamela S. Tauchi-Nishi)

Andrii Petrov V. Andy Stenger Medicine
Abstract: Accelerated 3D Spiral fMRI Using Low Rank Plus Sparse Reconstruction
(Co-authors: V. Andrew Stenger)

Ashlyn Tom Brenda Fernandez UH CC/Medicine
Abstract: The Family HPV Immunization Improvement (Hi2) Project: The Provider Perspective
(Co-authors: Halo Robinett, Lee Buenconsejo-Lum, Brenda Hernandez)

Kasai Yuhei Takashi Matsui ANAT
Abstract: Vitamin B1 Preserves Cardiac Function Against Ischemia-reperfusion Injury
(Co-authors: Yuki Yamada, Taku Ikegami, Yuka Kudo, Yoichiro Kusakari, Takashi Matsui and Susumu inamisawa)

GRADUATE STUDENTS

Naghum Alfulaij Robert Nichols CMB
Abstract: Neuroprotection by a N-Terminal Fragment of Beta Amyloid
(Co-authors: A Minezaki, J Cheng, G Yoshikawa, K Parsons, K Arora, JLM Lawrence, RA Nichols)

Deborrah Castillo Linda Chang MRI/QMC
Abstract: Association of Pain and Cortical and Subcortical Brain Volumes in Ambulatory HIV Seropositive Patients
(Co-authors: Linda Chang, Vanessa Douet, Eric Cunningham, Caroline Jiang, Thomas Ernst)

Glen Chew Lishomwa Ndhlovu TRMD
Abstract: Expansion of TIGIT Expressing CD8⁺ T Cells Persist in Virally-Suppressed HIV-1 Infection
(Co-authors: Tsuyoshi Fujita, Ravi Tandon, Jeffrey N. Martin, Steven Deeks, Lishomwa Ndhlovu)

Travers Ching Lana Garmine UHCC
Abstract: Pan-cancer Analysis Reveals a Panel of Clinically Relevant lincRNAs for Tumor Diagnosis and Prognosis
(Co-authors: Travers Ching, Sijia Huang, Xun Zhu, Karolina Peplowska, Yi Shen, Janos Molnar, Herbert Yu, Maarit Tiirikainen, Benjamin Fogelgren, Rong Fan, Lana X Garmire)

Christian Dye Alike Maunakea MBBE/NHH
Abstract: Investigating the Epigenetic Basis of Elevated Monocyte Inflammation in HIV-infected Adults at Risk for Cardiovascular Disease
(Co-authors: M Corley, A Lum-Jones, W Zhang, M Byron, C Shikuma, L Ndhlovu, A Maunakea)

Marlee Elston Johann Urschitz IBR/ANAT
Abstract: Placenta Specific Glucose Transporter 1 Modulation and Fetal Overgrowth
(Co-authors: Chad B. Walton, Ilko Stoychev, Stefan Moisyadi, Urschitz)

Kelly Forest Robert Nichols CMB
Abstract: Neuroprotection of the BETA Amyloid Core Sequence and Mutants
(Co-authors: N Alfulaij, JLM Lawrence, RA Nichols)

Gregory Fredericks Peter Hoffmann CMB
Abstract: Stable Expression and Function of the Inositol 1,4,5-triphosphate Receptor Requires
palmitoylation by a DHHC6/Selenoprotein K Complex
(Co-authors: FuKun W. Hoffmann, Aaron H. Rose, Hanna Osterheld, Franz M. Hess, Frederic Mercier,
Peter R. Hoffmann)

Kyoko Fujimoto V. Andrew Stenger Electrical Engineering
Abstract: A whole-brain Fast Spiral Imaging for MWF Map
(Co-authors: Michael Herbst, Weiran Deng, and V. Andrew Stenger)

Erin Fukaya Linda Chang Medicine/CAM
Abstract: Motor Development in Children Prenatally Exposed to Methamphetamine and Tobacco
(Co-authors: Jon Skranes, Gro Løhaugen, Thomas Ernst, Eric Cunningham, Ahnate Lim, Christine Cloak,
Caroline Jiang, Linda Chang)

Lauren Gardner Richard Allsopp MBBE/IBR
Abstract: The Role of HIF-1 α in the regulation of TERT expression in cancer cells
(Co-author: Philip M.C. Davy)

Megan Hagiwara Tetine Sentell PH
Abstract: Review of Literature Regarding Measuring Racial Discrimination in Hawaii's Micronesian
Community
(Co-author: Kiyomi Inada)

Sijia Huang Lana Garmire UHCC
Abstract: ??
(Co-authors: Nicole Chong, Nathan E Lewis, Wei Jia, Guoxiang Xie)

Felix Ikumola Michelle Matter UHCC
Abstract: Identification of Hawaiian Natural Products that Inhibit Vascular Permeability in Sepsis.
(Co-authors: Ram Neupane, Janina Weser, Pavlos Anastasiadis, Philip Williams, Michelle L. Matter)

Malina Ivey Michelle Tallquist CMB/CCR
Abstract: Maintenance of Cardiac Fibroblasts by PDGFR α Signaling
(Co-authors: Jill T. Kuwabara and Richard E. Moore)

Kelli Kaneta Bruce Shiramizu TRMD
Abstract: Minimal Residual Disease Associated With Mitochondrial DNA in Childhood B-cell Lymphoma
(Co-authors: Miki Ueoka, Christie Nakamura, Jason Kuroda, Melissa Agsalda-Garcia, Bruce Shiramizu)

Iris Kim Yusuke Marikawa ANAT/DRB
Abstract: The Teratogenic Effects of Anti-Diabetic Drugs: *In Vitro* Assays Using Embryoid Body Morphogenesis
(Co-author: Yusuke Marikawa)

Liana Kobayashi Joey Kohatsu Post-Baccalaureate Program
Abstract: Diabetic muscle infarction (DMI): An Uncommon Complication of Long-standing Diabetes
(Co-Authors: Joey Y. Kohatsu, Dominic Chow, Jeffrey Ward)

Jill Kuwabara Michelle Tallquist CMB/CCR
Abstract: Cardiac Fibroblasts are Essential During Pathological Stress
(Co-author: Michelle Tallquist)

Nelson Lazaga Vivek Nerurkar TRMD
Abstract: Infection, Cellular Tropism and Rearrangement of Archetype Polyomavirus JC (JCV)

Amanda Lee Ben Fogelgren ANAT
Abstract: A Transgenic Mouse Model for the Mechanism of Ureter Obstruction in Congenital Obstructive Nephropathy
(Co-authors: Noemi Polgar, Vanessa H. Lui, Kalia-Kadee Tamashiro, Josephine-Andrea Napoli, Joshua Lipschutz, Ben Fogelgren)

Kristen Lee Linda Chang Medicine
Abstract: Neural Correlates of Working Memory Training for Adult Polyglucosan Body Disease: A Case Report
(Co-authors: Thomas Ernst, Gro Løhaugen, Xin Zhang, Linda Chang)

Aileen Li Yusuke Marikawa ANAT
Abstract: In Vitro Model to Study the Teratogenic Effects of Valproic Acid: Axial Elongation of Mouse P19C5 Embryoid Body
(Co-author: Yusuke Marikawa)

Liangqun Lu Lana Garmire UHCC
Abstract: Time Series miRNA-mRNA Integrated Analysis Reveals Central miRNAs and Potential Targets in M1 Versus M2 Macrophage

Sara McCurdy William Boisvert CCR
Abstract: Impaired endosome/amphisome processing of LDL leads to cholesterol crystal formation in endothelial cells during hyperlipidemia
(Co-authors: Baumer Y., Weatherby-Carvalho T., and Boisvert WA)

Madhuri Namekur Vivek Nerurkar/Axel Lehrer TRMD
Abstract: Development of Multiplex Microsphere Immunoassay for Rapid Serological Detection of Ebola Virus Infection
(Co-authors: Axel T. Lehrer, James Davis, Vivek R. Nerurkar)

Hieu Nguyen W. Steven Ward ANAT/IBR
Abstract: Evidence That ORC4 Plays a Functional Role in Polar Body

Elizabeth Nguyen-Wu Marla Berry CMB
Abstract: Genetic Deletion of Selenoprotein M Alters Gender Specific Hippocampal Synaptic Plasticity
(Co-authors: Mariclaire Reeves, Mathew Pitts, Michael J Robles, Frederick P. Bellinger)

Ashley Ogawa-Wong Marla Berry CMB
Abstract: Selenium Metabolism in Mouse Pancreatic β -cells
(Co-authors: Ann C. Hashimoto, Marla J. Berry, Lucia A. Seale)

Anna Pickering Mariana Gerschenson CMB
Abstract: Mitochondrial Oxidative DNA Damage and Repair in Antiretroviral-treated Kidney Cells
(Co-authors: Daniel L. Libutti and Mariana Gerschenson)

Jourdan Posner Sandra Chang TRMD
Abstract: PRR Ligands Drive the Differentiation and Activation of B Cell Subsets Important to the Germinal Center Reaction

Michelle Quensell Tetine Sentell PH
Abstract: "I Need My Own Place for My Health to Get Better" - Patient Perspectives on the Role of Housing in Potentially Preventable Hospitalizations for Diabetes and Heart Failure
(Co-authors: Malia Young, Todd Seto, May Vawer, Deborah Juarez, Tetine Sentell)

Kelsey Roe Saguna Verma TRMD
Abstract: Flavivirus Infection Induces Triggering Receptor Expressed on Myeloid Cells 1 (TREM-1): Implication for a Role in Innate Immune Responses
(Co-authors: Beverly Orillo, Sébastien Gibot, and Saguna Verma)

Priscilla Seabourn Vivek Nerurkar TRMD
Abstract: Quest for Molecules That Enhance Archetype Polyomavirus JC Replication
(Co-authors: Nelson Lazaga, Vivek R. Nerurkar)

Briana Shimada Takashi Matsui CMB
Abstract: Discrepancy Between Systolic Function and Myocardial Injury Markers on *ex vivo* Ischemia/Reperfusion Injury Models in Cardiac Specific mTOR Knockout Mice
(Co-authors: Jason K. Higa, Naaiko Yorichika, Takashi Matsui)

Shayne Silva Yukiko Yamazaki ANAT
Abstract: Direct Effects of Primordial Follicle Activators & Suppressors on Oocyte Growth in Vitro

Naomi Tanizaki Linda Chang Medicine
Abstract: Polymorphisms in Kynurenine Pathway Genes and Psychopathology in HIV Populations,
(Co-Authors: Vanessa Douet, Adrian Franke, Xingnan Li, Caroline Jiang, Linda Chang)

Daniel Torres Frederick Bellinger CMB
Abstract: Dietary Selenium Deficiency Alters Dopamine Transmission and Response to Methamphetamine in the Mouse Nucleus Accumbens
(Co-authors: Stephanie M. Barayuga, Rachel H.L.H. Rueli, Nathan D. Schilaty, Jordan T. Yorgason, and Scott C. Steffensen)

Alanna Tseng Pakieli Kaufusi MBBE/TRMD
Abstract: West Nile Virus NS2B Recruits NS3 Helicase to Virus-Induced Replication Organelles to Initiate Viral RNA Synthesis
(Co-authors: Pakieli H. Kaufusi & Vivek R. Nerurkar)

Allison Williams Ralph Shohet CCR
Abstract: HIF1 Regulation of SERCA2 Expression and Cardiac Contractility by miR-29c
(Co-Authors: Chad B. Walton, Abigail Avelar, and Ralph V. Shohet)

Nalini Yadav Linda Connelly UH Hilo/Pharmaceutical Sciences
Abstract: Role of Vascular Endothelial Growth Factor from Adipocyte-Exposed Macrophages in Breast Cancer Metastasis
(Co-authors: Yuko Imaizumi, Arthur Barcikowski, Aaron Jacobs, Linda Connelly)

Jonathan Yap William Boisvert CMB/CCR
Abstract: The Role of Cold-Inducible RNA-Binding Protein in Atherosclerosis
(Co-authors: Whitney Regan, Sara McCurdy, Yvonne Baumer)

Han Ha Youn Wei-Kung Wang TRMD
Abstract: Human Codon-Optimization of DNA Vaccine Containing Precursor Membrane and Envelope Genes of Dengue Virus Results in Higher Level of Expression and Production of Virus-Like Particles
(Co-authors: Hui-Ling Chen, Yi-Chieh Wu, Wen-Yang Tsai, Wei-Kung Wang)

Xun Zhu Lana Garmire MBBE
Abstract: Application of Non-Negative Matrix Factorization Method to Single-cell RNA-Seq Analysis
(Co-authors: Travers Ching, Xinghua Pan, Sherman Weissman, Lana Garmire)

UNDERGRADUATES

Francine Amoa Deborah Juarez UH Hilo/Pharmaceutical Sciences
Abstract: A Qualitative Study of Behavior, Attitudes, and Experiences Regarding Electronic Cigarette Use Among University Students in Hawaii; University of Hawaii at Manoa and Hilo
(Co-authors: Deborah Taira Juarez, Alexander Guimaraes, James Masterson, James Davis)

Brandi Antonio Jonathan Awaya UH Hilo/Biology
Abstract: Characterization of a Novel Microbe in *Iotrochota protea* via Secondary Metabolite Production and Antimicrobial Activity
(Co-authors: Jonathan D. Awaya, Francis E. Sakai-Kawada, Hoang-Yen Nguyen)

Jennifer Au/Tanner Needham Leticia Colmenares WCC/Natural Sciences
Abstract: Chemical Extracted from *Zingiber zerumbet* Has Been Isolated and Identified as Zerumbone
(Co-authors: Colmenares)

Chantell Balaan Monika Ward ANAT/IBR
Abstract: The Effect of Maternal Obesity in the Context of Assisted Reproduction on Offspring Autism-like Behavior in a Mouse Model
(Co-authors: Michael Corley, Yasuhiro Yamauchi, Kaahukane Leite-ahyo, Alika Maunakea, Monika Ward)

Valerie Balken Lisa Kaluna UH Hilo/Pharmaceutical Sciences
Abstract: Evaluation Of Antibacterial Properties of Uhaloa (*Waltheria indica* L.) Root
(Co-author: Leng Chee Chang)

Anthony Banda Yukiko Yamazaki ANAT
Abstract: Full-Term Offspring Derived From Oocytes of Perimordial Follicles Activated Using Three Dimensional (3-D) Matrigel Culture System
(Co-authors: Rie Takeda , Yukiko Yamazaki)

Domenick Barbo Richard Yanagihara TRMD/MHIRT
Abstract: Arbovirus Surveillance in *Aedes aegypti* and *Aedes albopictus* Mosquitoes in Central Cameroon
(Co-authors: Elysée Nchoutpouen, Nanfack Minkeu Ferdinand, Esemu Livo)

Rina Carrilo/Jonna Amato-Ocampo Bradley Ashburn LCC/Math & Natural Sciences
Abstract: Synthesis and Antimicrobial Evaluation of a Series of Substituted Chalcone Derivatives
(Co-authors: Bradley Ashburn, Helmut Kae, Kabi Neupane, Professor Alyssa Haygood)

Alyssa Dixon Eric Umemoto Chaminade/Natural Sciences & Math
Abstract: Non-apoptotic loss of membrane asymmetry in activating mast cells

Michellei Fisher Vivek Nerurkar TRMD/MHIRT
Abstract: Detection of Quang Binh Virus and Kamiti River Virus From *different mosquito species* Collected in Chanthaburi Province, Thailand
(Co-authors: Patchara Sriwichai, Narin Thippornchai, James Kelly Pornsawan Leungwutiwong, Vivek Nerurkar)

Michellei Fisher Vivek Nerurkar TRMD
Abstract: Human Renal Proximal Tubule Epithelial (RPTE) Cells as a Model to Study Human Polyomavirus JC Pathogenesis
(Co-authors: Nelson Lazaga and Vivek R. Nerurkar)

Shaylyn Fujii Daniela Guendisch UH Hilo/Chemistry
Abstract: Bupropion Hybrids as New Central Nervous System Therapeutics
(Co-authors: Isabelle Tomassoli, Daniela Guendisch)

Ashley Fukuchi Leng Chee Chang UH Hilo/Pharmaceutical Sciences
Abstract: Evaluation of Antioxidant Activity of Fucose-containing Sulfated Polysaccharides (FCSPs) from Hawaiian Marine Algae
(Co-authors: Mayuramas Sang-Ngern, Nathan Sunada, Leng Chang)

Nicholas Glory Dick Teshima JABSOM/Medical Technology
Abstract: The Order of Blood Draw and Its Effect on Coagulation Screening Tests
(Co-authors: Jian Li, Sheila Diaz, Ashley Onishi, Porawat Ruamsap, Eunsil Seo, Jared Schmiede, Dick Y. Teshima)

Kendrick Go Bruce Shiramizu TRMD
Abstract: Detection of HIV DNA in Cerebrospinal Fluid of Patients with HIV-Associated Dementia

(Co-authors: Melissa Agsalda-Garcia, Jason Kuroda, Christie Nakamura, Bruce Shiramizu)

Miranda Gomez Denise Nelson-Hurwitz PH
Abstract: Lupus in Hawaii

Rachel Gristock Aaron Jacobs UH Hilo/Pharmaceutical Sciences
Abstract: Role of c-Myc Gene in HNE-induced Apoptotic Cell Death
(Co-authors: Aaron Jacobs, Christina Wales)

Kriszel Guiang Vivek Nerurkar TRMD/MHIRT
Abstract: Simultaneous Detection of Enteric Viruses Associated with Gastroenteritis by Multiplex Reverse Transcription Polymerase Chain Reaction Assay
(Co-authors: Diane Taylor, Apichai Tuanyok, James Kelley, Narin Thippornchai)

Brien Haun Alan Garcia CMB
Abstract: Molecular Characterization of Anti-Sheep Red Blood Cell Antibodies and the Generation of a Single Chain Fragment Variable antibody.
(Co-authors: Scott O'Farrell, Matthew Tuthill, John Berestecky)

Ben Hoyt/Andrew Zeitler/Jon Garcia Richard Allen Maui CC
Abstract: Analysis of the Proteome by Reverse Phase High Performance Liquid Chromatography
(Co-authors: Daniz Bicakci, Peter Fisher)

Yuko Imaizumi Linda Connelly UH Hilo/Pharmaceutical Sciences
Abstract: Use of Co-culture to Investigate the Role of Macrophages in Breast Cancer Metastasis
(Co-authors: Nalini Yadav, Kim Roseman, Ashleigh Renaud and Linda Connelly)

Brendan Ito/Erik Henze Yongli Chen HPU Natural/Computational Sciences
Abstract: The Nicotinic Acetylcholine Receptor and NMDA Receptor in Lung Cancer Cell Lines
(Co-author: Yongli Chen)

Gwooon Jung/Delia Breithaupt Sally Irwin Maui CC/Microbiology
Abstract: Effects of Some Common Food Preservatives on Four Commensal Members of The Human Gut Microbiome

Anthony Junker Claire Kendal-Wright Chaminade/Natural Science & Math
Abstract: Characterization of Telomerase and Telomere Genes in Human Amnion Cells Hold Potential for Unlocking Proliferative Profile

Kevin Kanekoa Jr Allison Beale WCC/Natural Sciences
Abstract: Isolation of IG-Y Antibodies from Green Turtle (*Chelonia mydas*) Follicles, National Wildlife Health Center, Honolulu Field Station
(Co-Authors: Allison Beale, Thierry Work)

Kyung Moo Kim Mukesh Kumar TRMD/Economics
Abstract: Biomarkers of Fever: Expression of Cytokines and C-Reactive Protein (CRP) Levels in Febrile Patients

(Co-authors: Olivia Achonduh, Rose Leke, Diane W. Taylor, and Vivek R. Nerurkar)

Uliana Kostareva

Allison Beale

WCC/Natural Sciences

Abstract: Testing of IG-Y Antibodies from Green Turtle (*Chelonia mydas*) Follicles for Fibropapillomatosis.
USGS National Wildlife Health Center, Honolulu Field Station.

(Co-authors: Allison Beale, Thierry Work)

Mark Lee

Jane M. Onoye

CMB/Mathematics/Psychiatry

Abstract: Ethnic Differences in Caregiving Expectation, Burden, Family Dynamics, and Healthcare

(Co-author: Jane Onoye)

Augustine Luc/Torey Oishi

John Berestecky

KCC/Math & Science

Abstract: Development of a Mouse Monoclonal Antibody and Novel Sandwich ELISA for Measuring
Selenoprotein K Expression

(Co-authors: Robert Norton, Alan Garcia, Peter Hoffmann)

Christina Martiney

S. Marahatta

Kaua'i CC/Science & Math

Abstract: Can Sunn Hemp be Used as a Model plant for Experimental Teaching and Learning?

Sara Mattus/Courtney Bednarczyk Kabi Neupane

LCC/Math & Science

Abstract: Effect of *in vitro* Fermentation of Hawaiian Feedstuffs on Intestinal Microbial Communities of
Pigs.

(Co-authors: Alyssa Haygood, Kabi Neupane, Rajesh Jha)

Carissa Nakao

Saguna Verma

TRMD/Food Service & Human Nutrition

Abstract: Characterization of the Expression Pattern of Triggering Receptor Expressed on Myeloid Cells
(TREM) Family Receptors Following West Nile Virus Infection

(Co-author: Kelsey Roe)

Matthew Nelson

Sandra Chang

MHIRT/Biology/TRMD

Abstract: Circulating T-follicular Helper Cell Response to *Plasmodium falciparum* Antigens in
Cameroonian Adults

(Co-authors: Jourdan Posner, Rose Leke, Diane W. Taylor, and Vivek R. Nerurkar)

Andrew Pham

Peter Hoffmann

CMB

Abstract: Effect of Ethnicity of Hawaii Ethnicity on Frequency of the rs9880056 SNP in the Selenoprotein
K Gene Region

(Co-authors: Antonia Mueller, Alexander Stokes, Joshua Astern, John Chen, Peter R. Hoffmann)

Teresa Porter

David Shimizu

Pathology/OB/GYN

Abstract: Clinicopathologic Outcomes of Women with Adenocarcinoma in Situ of the Cervix: A
Comparison of Management Strategies

(Co-authors: Koah R. Vierkoetter, Keith Y. Terada, David M. Shimizu)

Mailani Puli

Dana-Lynn Koomoa-Lange

UH Hilo/ Pharmaceutical Sciences

Abstract: Screening Native Hawaiian Plant Extracts for Anti-proliferative Effects on Neuroblastoma Cells

Shayne J. J. D. Rasay Diane Taylor TRMD
Abstract: Intrauterine Growth Restriction in Babies Born to Cameroonian HIV-Positive Women: Identification of Possible Mechanisms Responsible for Low Birth Weight
(Co-authors: Rose G.F. Leke, Yuosembom Emile Keming, Esemu Livo, Barriere Yetgang, John Tamo)

Sarah Raybin Leticia Colmenares WCC
Abstract: "Selenium Content in Fish" DOH State Laboratory (Gerald Pitz)
(Co-authors: Lisa String, Steve Bailey)

Ashleigh Renaud Linda Connelly UH Hilo/Pharmaceutical Sciences
Abstract: Osteoprotegerin Production in Breast Cancer Subtypes
(Michael Weichhaus, Stephanie Tsang Mui Chung, Kim Roseman, Yuko Imaizumi, Linda Connelly)

Brent Shigano Matthew Tuthill KCC/Math&Science
Abstract: Using Taq and Peb1A to Develop a Robust Protein Expression and Purification Platform
(Co-authors: Scott O'Farrell, Michael Martone and Thomas Premeaux)

Jody Shimabukuro/Lena Davidsson Lei Wang HPU
Abstract: A Section of Arc, an Activity-regulated Cytoskeleton-associated Protein, Which is Enriched in Neuronal Dendrites and Suspected to Play a Prevalent Role in Activity-dependent Plasticity of Dendrites, is Isolated and Purified
(Co-authors: David Horgen, Gideon Berger, Yongli Chen, Keith Nakamatsu, Christian Won and Katelyn Evans)

Dan Strange John Berestecky KCC/Math & Science
Abstract: A High-Throughput Approach to Characterizing Growth of *Campylobacter spp.*
(Co-author: Codi Wong)

Tarra Swenson John Pezzuto UH Hilo/Pharmaceutical Sciences
Abstract: *In vitro* Evaluation of Cytotoxic Activity from *Psychotria nilgiriensis* Extracts.
(Co-authors: Parimelazhagan Thangaraj, Tamara P. Kondratyuk, John M Pezzuto)

Abigail Sy Denise Nelson-Hurwitz PH/Psychiatry
Abstract: Underrepresented Ethnicities in the Medical Field: Struggles of Pinoys and Pinays in Their Pursuit Toward Medicine

Taylor Tashiro/Tyson Mendiola Kabi Neupane LCC/Math & Science
Abstract: Effects of Supplementing Multi-Enzymes and Probiotics on Gut Microbiota of Broiler Chicken Fed High and Low Fiber Diets
(Co-author: Amit K. Singh, Rajesh Jha)

Jasmine Tyson Wei-Kung Wang TRMD
Abstract: Expression of Dengue Virus-Like Particles as Vaccine Candidates
(Co-authors: Yi-Chieh Wu, Wen-Yang Tsai, Wei-Kung Wang)

Sheryl Vermudez Claire Kendal-Wright Chaminade/Natural Sciences & Math
Abstract: Human Fetal Amniotic Cells: Expression and Response to Basic Fibroblastic Growth Factor

(Co-authors: Eric S. Collier, Claire Kendal-Wright)

Ashley Vidad/Stephen Macapac Ho Leung Ng

UH Manoa

Abstract: Locating the Estradiol Binding Pocket for the G-protein Coupled Estrogen Receptor (GPER)

Christian Won/Keith Nakamatsu Lei Wang/Leticia Colmanares WCC/HPU

Abstract: The ARC (activity-regulated cytoskeleton-associated protein) is a Plasticity Protein That Plays a Critical Role in Learning and Memory-related Molecular Processes

Codi Wong

Matthew Tuthill

KCC-Math & Science

Abstract: Creating a Campus Bacterial DNA Sequence and Restriction Length Polymorphism Reference Library

(Co-author: Wang Lio)