



October 09 – 11, 2019

PROGRAM OF THE EUROPEAN MEETING ON MOLECULAR DIAGNOSTICS 2019

Grand Hotel Huis ter Duin, Noordwijk aan Zee
October 09 – 11, 2019

Wednesday October 09, 2019

08.30 - 10.00 *Company sponsored satellite symposium (Mediphos)*

10:00 – 10.30 Registration & coffee

10.30 Opening EMMD 2019
(All plenary sessions will take place in the Pické rooms 2&3)

10.30 – 11.55 Session 1:
MOLECULAR DIAGNOSTICS IN ONCOLOGY

Chair: Prof. Dr. Ernst Jan M. Speel & Prof. Albrecht Stenzinger

10.30 – 11.05 **KEYNOTE LECTURE: Molecular markers for immunotherapy and resistance**
Prof. Albrecht Stenzinger
Molekularpathologisches Zentrum | Pathologisches Institut Universitätsklinikum
Heidelberg, Germany

11.05 – 11.40 **KEYNOTE LECTURE: Liquid biopsies: State of the art of cfDNA technologies**
Dr. Daan van den Broek
Antoni van Leeuwenhoek Dutch Cancer Institute, Amsterdam, the Netherlands

11.40 – 11.55 **Idylla as primary screen for tumor mutations in non-small cell lungcancer**
Dr. Monique Oostra
Gelre Ziekenhuizen, Apeldoorn, The Netherlands

11.55 - 13.30 LUNCH & POSTERS
(lunch will be served in the exhibition & poster area, posters can be viewed during lunch)

13.30 – 14.50: Session 2:
MOLECULAR DIAGNOSTICS IN INFECTIOUS DISEASES (I)

Chair: Prof. Jacques Schrenzel & Ying Taur, MD, MPH

13.30 - 14.05 **KEYNOTE LECTURE: Intestinal Microbiota Dynamics with high risk cancer patients**
Ying Taur, MD, MPH
Memorial Sloan Kettering Cancer Center, New York USA

- 14.05 – 14.20 **Clinical use of 16S rRNA Ion Torrent Next-generation sequencing and bioinformatic pipeline**
Adj. Prof. Helena Enroth, A. Kokkonen, A. Tilevik, M. Fagerlind, A-K Pernestig, D. Tilevik
 School of Bioscience, University of Skövde and Unilabs, Sweden
- 14.20 – 14.35 **Genital microorganisms in pregnant women in pemba island**
Dr. Elena Ambrosiano, N.C.A. Juliana, S. Deb, S. Sazawal, S.A. Morré
 Institute for Public Health Genomics, Maastricht the Netherlands
- 14.35 – 14.50 **Metabarcoding-like approach for high throughput detection and identification of viral nucleic acids**
Alina Matsvay, D. Kiselev, A. Ayginin, E. Pimkina, A. Speranskaya, V. Dedkov, G. Shipulin, K. Khafizov
 FSBI “Center of Strategic Planning” of the Ministry of Health, Moscow Russian Federation
- 14.50 – 15.15 COFFEE BREAK & POSTERS**
(will be served in the exhibition & poster area, posters can be viewed)

15.15 – 16.50: Session 3:

MOLECULAR DIAGNOSTICS IN INFECTIOUS DISEASES (II)

Chair: Dr. Suzie Couglan & Dr. Willem Melchers

- 15.15 – 15.50 **KEYNOTE LECTURE: The force awakens: multidrug resistance in *Aspergillus fumigatus***
Dr. Willem Melchers
 Radboud University Medical Centre, Nijmegen the Netherlands
- 15.50 – 16.05 **Two new, fully integrated molecular systems for viral load analysis of blood-borne viruses: NeuMoDx (NeuMoDx and Qiagen) vs. Alinity m (Abbott)**
Stefan Boers, K. Mourik, J.C.P. Thijssen, E. Wessels, E.C.J. Claas
 Leiden University Medical Center, the Netherlands
- 16.05 – 16.20 **Next generation sequencing (NGS) of Hepatitis B virus with the Vela Sentosa HBV genotyping and resistance assay**
Dr. Robert Ehret, A. Moritz, M.J. Obermeier, St. Breuer
 MIB, Berlin Germany
- 16.20 – 16.35 **Evaluation of DNA extraction methods for the detection of Cytomegalovirus in dried blood spots**
Jasmine Coppens, D. Leenaerts, D. Ursi, H. Goossens, E. Padalko, V. Matheeussen
 UZA Hospital, Edegem Belgium
- 16.35 – 16.50 **Sequence typing of *Sarcoptes scabiei* from skin scrapings**
Dr. Anneke Bergmans, A.M.M. Wennekes, S.D. Pas, E.B. Fanoy, B.B. Wintermans
 Microvida, Roosendaal the Netherlands
- 16.50 - 18.30 WELCOME RECEPTION & POSTER VIEWING**
(will be served in the exhibition & poster area, posters can be viewed during the reception)
Welcome reception is sponsored by Hologic

Thursday October 10, 2019

07.15 – 08.45 *Company sponsored satellite symposium(UgenTec)*

08.30 – 09.00 Registration & coffee

09.00 – 10.35 Session 4:

MOLECULAR DIAGNOSTICS IN LABORATORY MEDICINE

Chair: Prof. Dr. Ron van Schaik

09.00 – 09.20 **KEYNOTE LECTURE: Current Developments in Clinical Chemistry: European perspective**

Prof. Dr. Ron van Schaik

Professor Pharmacogenetics Erasmus Mc Rotterdam, chair Committee Molecular Biology Diagnostics of the Dutch Clinical Chemistry Association (NVKC), the Netherlands

09.20 – 09.55 **KEYNOTE LECTURE: PGx “Must Test” Genotyping Recommendations: AMP Pharmacogenomics Working Group AMP Clinical Practice Committee**

Dr. Victoria Pratt

Indiana University School of Medicine, Dept of Medical and Molecular Genetics, USA

09.55 – 10.30 **Keynote lecture: CYP2D6 Genotyping: Beware of Hybrids**

Dr. Charity Nofziger

PharmGenetix Gmbh, Niederalm-Anif Austria

10.30 – 11.00 **COFFEE BREAK & POSTERS**

(will be served in the exhibition & poster area, posters can be viewed)

11.00 – 13.15 Session 5:

QUALITY MANAGEMENT IN MOLECULAR DIAGNOSTICS

Chair: Dr. Eric Claas & Dr. Simon Patton

11.00 – 11.35 **KEYNOTE LECTURE: Viral metagenomics in the clinical realm: lessons learned from a Swiss-wide ring trial**

Dr. Aitana Lebrand

SIB | Swiss Institute of Bioinformatics, Geneva Switzerland

11.35 – 12.10 **KEYNOTE LECTURE: How good is your Next Generation Sequencing? Lessons learned from EQA in Human Genetics.**

Dr. Simon Patton

European Molecular Genetics Quality Network (EMQN), c/o Manchester Centre for Genomic Medicine, United Kingdom

12.10 – 12.45 **KEYNOTE LECTURE: EQA requirements for Point of Care Testing**

Dr. Eric Claas

Leiden University Medical Center, Leiden, The Netherlands

12.45 – 13.00 **Molecular Diagnostic EQA Testing of Transplant-Associated Pathogens - Assessment of Laboratory Performance over ten years**

Elaine McCullogh, P. Wallace, H.G. Niesters

Quality Control for Molecular Diagnostics, Glasgow United Kingdom

13.00 – 13.15 **Emerging requirements for infectious disease IVD quality control material**

Pavel Zhelev, M.L. Luscher, A.A. Alagic, J. Li

Microbix Biosystems, Mississauga Canada

13.15 – 14.45 **LUNCH & POSTER SESSION***

** presenting author available for discussion at the poster*

14.45 – 16.20 Session 6:

MOLECULAR DIAGNOSTICS IN INFECTIOUS DISEASES (III)

Chair: Dr. Aitana Lebrand & Prof. Jacques Schrenzel

14.45 – 15.20 **KEYNOTE LECTURE: Clinical Metagenomics: Developments, applications, position, limitations**

Prof. Jacques Schrenzel

Bacteriology and Genomic Research Laboratories, Geneva University Hospitals, Switzerland

15.20 – 15.35 **Rapid Routine Viral Genotyping using Nanopore Sequencing**

Dr. Sander van Boheemen, F.B. Loenen, M. Oude Munnik, R. Molenkamp, M.P.G. Koopmans

Erasmus MC Rotterdam, the Netherlands

15.35 – 15.50 **Use of MALDI-TOF mass spectrometry for the genotyping of single-nucleotide polymorphisms within genes associated with hepatitis B virus infection**

Magda Rybicka PhD, A. Woziwodzka, A. Sznarkowska, P. Stalke, M. Dreczewski, K.P. Bielawski

Intercollegiate Faculty of Biotechnology UG&GUMed, Gdansk Poland

15.50 – 16.05 **Identification of highly pathogenic human polyomavirus strains using NGS**

Dr. Eeva Auvinen

Helsinki University Hospital, Virology and Immunology, Helsinki Finland

16.05 – 16.20 **NGS for the diagnosis of intraocular infections in limited-volume samples**

Jolanda de Groot-Mijnes, J. Ossewaarde-van Norel, W. Nijhuis, J.H. de Boer, A.M.J. Wensing, A.C. Schurch, R. Schuurman

UMCU Utrecht, the Netherlands

16.30 – 18:30 Poster viewing / satellite meetings / networking groups / leisure time

16.30 – 18.00 *Company sponsored satellite symposium (Cepheid)*

(For program see addendum on page 108)

18.30 – 22.00 EMMD CONFERENCE DINNER

Location: **Restaurant Bries** Noordwijk, Koningin Astrid Boulevard 102

Friday October 11, 2019

08.30 – 09.00 Registration & coffee

09.00 – 10.55 Session 7:

MOLECULAR DIAGNOSTICS IN OUTBREAK MANAGEMENT

Chair: Dr. Suzie Coughlan & Prof. Oliver Pybus

09.00 – 09.35 **KEYNOTE LECTURE: Investigating emerging epidemics in the era of real-time virus genomics**

Prof. Oliver Pybus

University of Oxford, Dept. of Zoology, United Kingdom

09.35 – 10.10 **KEYNOTE LECTURE: Hepatitis E virus: Opportunities for control of an emergent zoonotic pathogen?**

Dr. Suzie Coughlan

UCD National Virus Reference Laboratory/School of Public Health, Physiotherapy and Sports Science, Belfield, Dublin Ireland

10.10 – 10.25 **Neonatal outbreak of parechovirus 3: Which sample type is the best?**

Anne Vankeerberghen PhD, E. Govaere, A. Boel, K. Van Vaerenbergh, L. Cattoir, H. De Beenhouwer

OLVZ Aalst, Belgium

10.25 – 10.40 **A robust, sensitive PCR-based solution to verify scabies in outbreak situations**

Dr. Ulrike Zelck, R. Bialek, N. Warncke, U. Karsten

LADR GmbH Medizinisches Versorgungszentrum Dr. Kramer & Kollegen

10.40 – 10.55 **Pilot multicenter in-silico proficiency test of bacterial outbreak Whole-genome sequencing analyses performed in The Netherlands**

Jordy Coolen, J.M. Fonville, S. Matamoros, SIG consortium

Radboud UMC Nijmegen, the Netherlands

10.55 – 11.30 COFFEE BREAK & POSTERS

(will be served in the exhibition & poster area, posters can be viewed)

11.30 – 12.40 Session 8:

MOLECULAR DIAGNOSTICS IN PREVENTIVE MEDICINE

Chair: Prof. Dr. Ernst Jan M. Speel

11.30 – 12.05 **KEYNOTE LECTURE: Primary hrHPV screening in the Dutch cervical cancer screening program**

Prof. Dr. Ed Schuurin

UMCG, Groningen, The Netherlands, on behalf of the Dutch cervical cancer screening laboratories

12.05 – 12.40 **KEYNOTE LECTURE: Molecular Diagnostics of Cervical Cancer: Relevance of HPV and other biomarkers**

Dr. Renske Steenbergen

Amsterdam University Medical Centers, Amsterdam the Netherlands

12.40 – 13.45 **LUNCH & POSTERS**

(lunch will be served in the exhibition & poster area, posters can be viewed during lunch)

13.45 – 15.30 Session 9:

FUTURE MOLECULAR DIAGNOSTICS AND NEW DIAGNOSTIC TECHNOLOGIES

Chair: Dr. Adriaan van den Brule & Dr. Rob Schuurman

13.45 – 14.20 **KEYNOTE LECTURE: Impact of Bio-informatics on health care**

Prof. dr. Peter J. van der Spek

Erasmus Medical Centre, Rotterdam the Netherlands

14.20 – 14.55 **KEYNOTE LECTURE: Application and results of Breathomics**

Dr. Rianne de Vries

Breathbase, The Netherlands

14.55 – 15.30 **KEYNOTE LECTURE: Cure from HIV infection;The concept, successes and diagnostic challenges**

Laura Huyveneers

University Medical Center Utrecht, Utrecht, The Netherlands

15:30 CLOSURE OF THE MEETING AND FINAL REMARKS