Wednesday October 11, 2017

08:30 - 10:00 Company sponsored satellite symposium

10:00 – 10:30 Registration & coffee

10:30 Opening EMMD 2017
   (All plenary sessions will take place in the Pické rooms 2&3)

10.30 - 12.00 Session 1:
MOLECULAR DIAGNOSTICS IN ONCOLOGY: diagnostics and therapy monitoring

   Chairs: Prof. dr. Ernst Jan Speel and Dr. Adriaan van den Brule

10:30 – 11:15 Keynote lecture: Liquid Biopsy: Technologies and clinical applications
   Prof. dr. Klaus Pantel
   University Medical Center Hamburg-Eppendorf, Germany

11:15 – 12:00 Keynote lecture: HPV infection in head and neck cancer: biology, diagnosis and impact on prognosis and treatment
   Prof. dr. Ernst-Jan Speel
   Maastricht University Medical Centre, the Netherlands

12:00 – 13:15 LUNCH + POSTERS
   (lunch will be served in the exhibition & poster area, posters can be viewed during lunch)

13:15 - 15.00 Session 2:
MOLECULAR DIAGNOSTICS IN INFECTIOUS DISEASES I

   Chairs: Prof. dr. Jacques Schrenzel and Dr. R. Molenkamp

13:15 – 14:00 Keynote lecture: Clinical metagenomics: why does microbiota matter?
   Prof. dr. Jacques Schrenzel, MD
   Bacteriology and Genomic Research Laboratories, Geneva University Hospitals, Switzerland

14:00 – 14:15 Microbiome analysis in clinical diagnostics.
   Ruud Jansen, Stefan Boers, John Hays
   Streeklab Haarlem

14:15 – 14:30 Viability-PCR to explore the clinical impact of Chlamydia trachomatis PCR-positive results.
   Petra Wolffs, Kevin Janssen, Christian Hoebe, Mayk Lucchesi, Inge van Loo, Lisanne Eppings, Nicole Dukers-Muijrs
   Medical Microbiology, Maastricht University Medical Center
Wednesday October 11, 2017

14:30 – 14:45  **A real-time PCR for detection of mycobacteria in clinical samples in an era of changing epidemiology**

Arian de Jong, Anke Gebbinck, Danique Thijssen, Wouter Hoefsloot, Jakko van Ingen, Jodie Schildkraut
Medical Microbiology, Radboud UMC Nijmegen, the Netherlands

14:45 – 15:00  **High levels of Mycoplasma genitalium antibiotic resistance are observed in Australia**

Simon Bone, Litty Tan, Samantha Walker, Jenny Su, Catriona Bradshaw, Christopher Fairley, Suzanne Garland, Elisa Mokany, Sepehr Tabrizi
SpeeDx Ltd, London United Kingdom

15:00 - 15.30  **COFFEE BREAK + POSTERS**

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

15:30 – 17:15  **SESSION 3: MOLECULAR DIAGNOSTICS IN INFECTIOUS DISEASES II**

*Chairs: Dr. Gregory Storch and Dr. Rob Schuurman*

15:30 – 16:15  **Keynote lecture: Update on Viral Metagenomics**

Dr. Gregory Storch
Washington University School of Medicine, USA

16:15 – 16:30  **Viral Shedding Dynamics of Rhinovirus, Coronavirus and Respiratory Syncytial Virus in Adult Invasively Ventilated Critical Ill Patients**

Richard Molenkamp, Laura van der Erve, Frank van Someren Gréve, Sjoerd Rebers, Nicole Juffermans, Marcus Schultz, Menno de Jong
Medical Microbiology, AMC Amsterdam, the Netherlands

16:30 – 16:45  **Migrating an in house MERS-CoV real-time PCR to three “Sample to Result” systems: experiences on optimization and validation.**

Glynis Frans, Kurt Beuselinck, Bart Peeters, Marc Van Ranst, Veroniek Saegeman, Stefanie Desmet, Katrien Lagrou
UZ Leuven, Belgium

16:45 – 17:00  **Detecting 24 respiratory targets in one multiplex panel: a piece of cake.**

Karen Dierickx, Anne Vankeerberghen, Kristien Van Vaerenbergh, An Boel, Hans De Beenhouwer
OLV Hospital Aalst, Belgium

17:00 – 17:15  **Exploring Metagenomic Next-Generation Sequencing in Routine Diagnostics of Viral Respiratory Infections**

Dr. Sander van Boheemen
Medical Microbiology, LUMC Leiden, the Netherlands

17:15 - 18:45  **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 & UgenTec
Thursday October 12, 2017

07:15 - 08:45  Company sponsored satellite symposium

08:30 – 09:00  Registration & coffee

09:00 – 10:45  Session 4:  
HEALTH ECONOMICS

Chair:  Prof. Dr. J. Schrenzel

09:00 – 09:35  Keynote lecture:  Trends in Science, Technology, and Finance: What do they mean for the future of laboratory medicine?  
Prof. William Morice, MD, PhD  
Mayo Clinic School of Continuous Professional Development, USA

09:35 – 10:10  Keynote lecture:  Clinical utility and Cost-effectiveness of Molecular Diagnosis of Infectious Disease in a Belgian Laboratories Network Perspective  
Prof. Olivier Vandenberg, MD, PhD  
Department of Microbiology, LHub - ULB, Pôle Hospitalier Universitaire de Bruxelles, Belgium

10:10 – 10:45  Roundtable discussion:  
Prof. Jacques Schrenzel, MD., Prof. William Morice, Prof. Olivier Vandenberg, a.o.

10:45 – 11:15  COFFEE BREAK + POSTERS  
(Will be served in the exhibition & poster area, posters can be viewed during lunch)

11:15 – 12:45  Session 5:  
QUALITY MANAGEMENT IN MOLECULAR DIAGNOSTICS

Chair:  Dr. S. Coughlan

11:15 – 11:45  Keynote lecture:  The new EU Regulation on IVDs - where did it come from, and what can we expect?  
Prof. dr. David Barton  
Molecular Genetics Laboratory, Department of Clinical Genetics, Our Lady's Children's Hospital, Crumlin Dublin, Ireland

11:45 – 12:15  Keynote lecture:  Maintaining quality in molecular point of care testing for infectious diseases  
Prof. dr. Melissa B. Miller, PhD  
UNC School of Medicine, Chapel Hill, NC, USA

12:15 – 12:45  Keynote lecture:  Quality assurance of NGS  
Dr. David Bibby  
National Infection Service - Public Health England

12:45 – 14:00  LUNCH + POSTER SESSION*  
* presenting author available for discussion at the poster
Thursday October 12, 2017

14:00 – 16:00  Session 6:
MOLECULAR DIAGNOSTICS IN LABORATORY MEDICINE: HEMATO-ONCOLOGY AND PHARMACOGENETICS

Chairs:  Prof. R. van Schaik, Dr. L. Cnops

14:00 – 14:30  Keynote lecture: **Chances and pitfalls using NGS in diagnostics of myeloid leukemias**
Dr. Manja Meggendorfer
MLL Munich Leukemia Laboratory, Germany

14:30 – 15:00  Keynote lecture: **Inherited mutations predisposing to myelodysplastic syndromes (MDS) and familial acute myeloblastic leukemia (AML): should we include those genes in the somatic panels?**
Dr. Fréderic Lambert
C.H.U. de Liège, Belgium

15:00 – 15:30  Keynote lecture: **Pharmacogenetics of drug transporters**
Prof. Mikko Niemi
Professor Pharmacogenetics, Helsinki, Finland

15:30 – 16:00  Keynote lecture: **Molecular diagnostic applications within the field of Clinical Chemistry**
Prof. Dr. Ron van Schaik
Professor Pharmacogenetics Erasmus Mc Rotterdam, chair Committee Molecular Biology Diagnostics of the Dutch Clinical Chemistry Association (NVKC), the Netherlands

16:15  SATELLITE MEETINGS / WORKING GROUPS / LEISURE TIME

16:15 – 17:30  Company sponsored satellite symposium

19:00 – 22:00  CONFERENCE DINNER
Location: **Restaurant Bries** Noordwijk, Koningin Astrid Boulevard 102
Friday October 13, 2017

07:15 - 08:45  Company sponsored satellite symposium

08:30 – 09:00  Registration and coffee

09:00 – 10:30  Session 7: MOLECULAR DIAGNOSTICS IN OUTBREAK MANAGEMENT of infectious diseases
Chair: Prof. dr. P. Savelkoul

09:00 – 09:45  Keynote lecture: What is the value of molecular investigations in a management of hospital viral outbreaks?
Prof. dr. Heli Harvala
University College London Hospitals NHS Foundation Trust, London United Kingdom

09:45 – 10:15  Keynote lecture: Bacterial Whole Genome Sequence Analysis
Dr. Anita Schürch
UMCU Utrecht Medical Microbiology, the Netherlands

10:15 – 10:30  Poster pitches

10:30 - 11.00  COFFEE BREAK + POSTERS
(Will be served in the exhibition & poster area, posters can be viewed during lunch)

11:00 – 12:40  Session 8: NEW DEVELOPMENTS IN MOLECULAR DIAGNOSTICS
Chairs: Prof. Dr. Ernst-Jan Speel and Dr. Erik Sistermans

11:00 - 11:35  Keynote lecture: Non-invasive prenatal testing (NIPT)
Dr. Erik Sistermans
VU University Medical Center Amsterdam, the Netherlands

11:35 – 12:10  Keynote lecture: Molecular markers for cancer treatment decisions and resistance
Prof. Jochen Lennerz
Massachusetts General Hospital and Harvard Medical School, Boston USA

12:10 – 12:25  Faster antidepressant treatment success in depression therapy: RIDA®PRECISION ABCB1 real-time PCR assay for ABCB1 genotyping
Stefanie Rasche, Veronika Schweizer1, Christoph Noppen2, Angelika Ankelin2, Diana Martens
R-Biopharm AG, Darmstadt Germany

12:25 – 12:40  CeliaSCAN: a new multiplex real-time PCR Assay for the detection of strongly Celiac Disease-associated Human Leukocyte Antigens DQ2.5, DQ2.2, and DQ8
R. Heijmans, P Van Wunnik, M Reijm, J Van der Werf, HJ Bontkes, LC Smeets, SA Morré, JBA Crusius, AS Peña
TubaScan Ltd. Beverwijk, the Netherlands

12:40 – 13:45  LUNCH + POSTERS
(lunch will be served in the exhibition & poster area, posters can be viewed during lunch)
Friday October 13, 2017

13:45 – 15:45  Session 9:  
NEW DIAGNOSTIC TECHNOLOGIES

Chair:  Dr. Loes Segerink and Prof. Dr. Paul Savelkoul

13:45 – 14:20  Keynote lecture: Molecular characterization tumor Cells in blood to guide treatment of cancer patients  
Prof. dr. Leon Terstappen  
MIRA Research Institute for Biomedical Technology and Technical Medicine, University of Twente, The Netherlands

14:20 – 14:55  Keynote lecture: MRNA: A versatile molecule for vaccine development  
Dr. Mustafa Diken  
Biontech, Germany

14:55 – 15:10  Flow cytometric detection of specific genes in human lymphocytes  
N. Uno  
Laboratory Medicine, Nagasaki University Japan

15:10 – 15:25  Molecular tests to determine the functional activity of tumor-driving signal transduction pathways  
Eveline den Biezen - Timmermans, A van Brussel, D van Strijp, J Wrobel, A van de Stolpe, P van de Wiel  
Philips HealthWorks, Eindhoven the Netherlands

Ronald Burggrave, John Melki, Doug Millar, Damien Stark, Wendy Chen, Rich Smith  
Genetic Signatures, Darlinghurst Australia

15:40 – 15:45  CLOSURE OF THE MEETING AND FINAL REMARKS