

PROGRAM OF THE EUROPEAN MEETING ON MOLECULAR DIAGNOSTICS 2017

Grand Hotel Huis ter Duin, Noordwijk aan Zee
October 11 - 13, 2017

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-Muijers
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**
Arjan 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. Frédéric 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

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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

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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

15:25 – 15:40 **Rapid, Sensitive and Automated Detection of Pathogenic Targets with the Multiplexed EasyScreen™ 3base™ Assays.**

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**