



PROGRAM OF THE EUROPEAN MEETING ON MOLECULAR DIAGNOSTICS 2024

Grand Hotel Huis ter Duin, Noordwijk aan Zee
October 09 – 11, 2024

Wednesday October 09, 2024

09.30 – 10.30 Registration & coffee

10.30 **Opening EMMD 2024** (*Main Lecture Hall*)

10.35 – 12.15 Session 1:
MOLECULAR DIAGNOSTICS IN ONCOLOGY

Chair: Prof Ernst Jan Speel

10.35 – 11.05 **Technical developments within NGS; what's on the horizon**
Anna Lyander, PhD
Clinical Genomics Stockholm, Sweden

11.10 – 11.40 **Comprehensive genomic profiling in tumor diagnostics**
Guy Froyen, PhD
Jessa Hospital, Belgium

11.45 – 12.15 **Testing for homologous recombination deficiency and its impact for patients with cancer**
Prof Marjolijn Ligtenberg, PhD
Radboud UMC, The Netherlands

12.15 - 13.30 LUNCH & POSTERS AT THE EXHIBITION AREA

13.30 – 15.10 Session 2:
MOLECULAR DIAGNOSTICS IN INFECTIOUS DISEASES (I)

Chair: tba

13.30 – 14.00 **A pan-cancer analysis of the microbiome in metastatic cancer**
Joris van de Haar, PhD
The Netherlands Cancer Institute, The Netherlands

14.05 – 14.35 **Variation in (the) human microbiome and consequences for diseases and treatment**
Prof. Sarah Leeber, PhD
University of Antwerp, Belgium

14.40 – 15.10 **Infectious disease surveillance via wastewater**
Prof. G.J. (Gertjan) Medema, PhD
Delft University of Technology, The Netherlands



15.10 – 15.40 COFFEE BREAK & POSTERS AT THE EXHIBITION AREA

15.40 – 17.20 Session 3:

MOLECULAR DIAGNOSTICS FOR GUIDING DRUG THERAPY (PHARMACOGENETICSS)

Chair: Prof Ron van Schaik

15.40 – 16.10 **Pharmacogenetics: current state of the art in clinical use**

Prof Ron van Schaik, PhD

Erasmus MC, Rotterdam, The Netherlands TBA

16.15 – 16.45 **Optimum Design of PGx Programs – Lessons from the 100,000 Genomes project**

Prof Matt Brown (CSO), PhD

Genomics England

16.50 – 17.20 **Technical challenges in genotyping in Pharmacogenetics**

Andrea Gaedigk, PhD

Children's Mercy Research Institute and Director PharmVar – Kansas City, USA

17.20 - 18.50 WELCOME RECEPTION & POSTER VIEWING AT THE EXHIBITION AREA



Thursday October 10, 2024

07.15 – 08.45 *Company sponsored satellite symposium by Accuramed*

08.30 – 09.00 Registration & coffee

09.00 – 10.40 Session 4:
MOLECULAR DIAGNOSTICS IN Hemato-Oncology

Chair: Isidor Minovic, PhD

09.00 – 09.30 **Clonal hematopoiesis and risk for hematological malignancies**
Prof. Gerwin Huls, PhD
UMCG – Groningen – The Netherlands

09.35 – 10.05 **Use of circulating tumor DNA in the evaluation of Hodgkin's lymphoma**
Sven Borchmann, MD, PhD
Clinic I for Internal Medicine | University Hospital Köln - Germany

10.10 – 10.40 **Precision in CLL: Technical Insights and Clinical Impact of TP53 and IGHV in the Era of Targeted Therapy**
Jitka Malčíková, PhD
University Hospital Brno and CEITEC MU - Czech Republic

10.40 – 11.10 COFFEE BREAK & POSTERS AT THE EXHIBITION AREA

11.10 – 12.55 Session 5:
SPECIAL TOPIC: SEPSIS FROM DIFFERENT PERSPECTIVES: CLINIC, BIOLOGY AND MOLECULAR DIAGNOSTICS

Chair: tba

11.10 – 11.40 **Introduction to Sepsis**
Prof. Jacques Schrenzel, PhD
Geneva University Hospitals, Swiss

11.45 – 12.15 **Use of Biomarkers for Immunomodulatory Precision Medicine in Sepsis**
Erik Michels, MD, PhD
Center for Experimental and Molecular Medicine | Amsterdam – The Netherlands

12.20 – 12.35 **Phenotypic Antimicrobial Sensitivity Testing in under 4 hours**
Ryan Hull
Karolinska Institutet, Stockholm, Sweden (abstract 14)

12.40 – 12.55 **Ultra-rapid bacterial detection from neuropathology specimens using next-generation PCR and nanopore sequencing**
Eefje Schrauwen
Avans Hogeschool | Breda – The Netherlands (abstract 47)



12.55 – 14.25 LUNCH & POSTER SESSION AT THE EXHIBITION AREA

14.25 – 16.05 Session 6:
MOLECULAR DIAGNOSTICS IN PREVENTIVE MEDICINE

Chair: Jesper Bonde, PhD

14.25 – 14.55 **Fully molecular cervical cancer screening**
Anja Oštrbenk, PhD
Faculty of Medicine, University of Ljubljana - Slovenia

15.00 – 15.30 **Molecular screening for Colon Cancer**
Claus Lindbjerg Andersen, MSc., PhD.
Aarhus University Hospital - Skejby - Denmark

15.35 – 16.05 **Experiences & Perspectives of Molecular Testing in Newborn Screening in the Netherlands**
Auke Otten PhD.
National Institute of Public Health and the Environment, Bilthoven, The Netherlands

16.05 – 17.30 Poster viewing – Leisure or working groups

18.30 – 22.00 EMMD CONFERENCE DINNER



Friday October 11 2024

08.30 – 09.00 Registration & coffee

09.00 – 10.40 Session 7:
QUALITY MANAGEMENT AND SUSTAINABILITY

Chair: Richard Molenkamp, PhD

09.00 – 09.30 **Standardization of (Q)PCR and use of Ct values**
Jim Huggett BSc. PhD. FRCP (Edin)
National Measurement Laboratory – Middlesex – UK

09.35 – 10.05 **How to deal with unexpected clinical findings in NGS results; The NIPT example**
Sandra G. Heil, PhD
National Institute for Public Health and the Environment, Bilthoven, The Netherlands

10.10 – 10.40 **LEAF – helping to make labs sustainable**
Andrea Hodgetts, PhD
Sustainable Research Manager University College London

10.40 – 11.10 COFFEE BREAK & POSTERS AT THE EXHIBITION AREA

11.10 – 12.55 Session 8:
NGS BASED (META)GENOMICS

Chair: Prof Jacques Schrenzel

11.10 – 11.40 **Population genetics and disease**
Astrid Iversen, MD, PhD
University of Oxford – Oxford – United Kingdom

11.45 – 12.15 **cfDNA testing in febrile neutropenic patients**
Silke Grumaz, PhD
NGS diagnostics company Noscendo – Duisberg – Germany

12.20 – 12.35 **Gut metagenome is associated with outcome in cervical and endometrial cancer patients treated with pembrolizumab: Insights from the phase II PRIMMO trial**
Hannelore Hamerlinck
UZ Gent, Gent, Belgium (Abstract 71)

12.40 – 12.55 **Development and evaluation of a quantitative 16S rRNA gene nanopore sequencing protocol for routine clinical diagnostics**
Marco Ivens
Department of Medical Microbiology, Leiden University Medical Center – The Netherlands (Abstract 19)



12.55 – 14.10 LUNCH & POSTERS AT THE EXHIBITION AREA

**14.10 – 15.50 Session 9:
FUTURE DEVELOPMENTS AND NOVEL DIAGNOSTIC APPLICATIONS**

Chair: tba

14.10 – 14.40 CRISPR CAS diagnostics

Michael M. Kaminski, PhD

Berlin Institute for Medical Systems Biology (BIMSB) – Germany

14.45 – 15.15 Intra-operative methylation profiling in pediatric tumors

Bastiaan Top, PhD / Lennart Kester, PhD

Princess Maxima Center for Childhood Cancer – The Netherlands

15.20 – 15.50 Mapping the HIV intact reservoir: value of digital PCR and its role in HIV cure.

Linus Vandekerckhove, PhD

Universitair Ziekenhuis Gent - Belgium

15.50 – 16.00 CLOSURE OF THE MEETING AND FINAL REMARKS