



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 – 12.20 Session 1:
MOLECULAR DIAGNOSTICS IN ONCOLOGY

Chair: Tom van Wezel & Jesper Bonde

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**
Marjolijn Ligtenberg, PhD
Radboud UMC, The Netherlands

12.20 - 13.35 LUNCH & POSTERS AT THE EXHIBITION AREA

13.35 – 15.15 Session 2:
MOLECULAR DIAGNOSTICS IN INFECTIOUS DISEASES (I)

Chair: Richard Molenkamp & Jacques Schrenzel

13.35 – 14.05 **A pan-cancer analysis of the microbiome in metastatic cancer**
Joris van de Haar, PhD
The Netherlands Cancer Institute, The Netherlands

14.10 – 14.40 **Variation in (the) human microbiome and consequences for diseases and treatment**
Ilke de Boeck, PhD
University of Antwerp, Belgium

14.45 – 15.15 **Infectious disease surveillance via wastewater**
G.J. (Gertjan) Medema, PhD
Delft University of Technology, The Netherlands



15.20 – 15.50 COFFEE BREAK & POSTERS AT THE EXHIBITION AREA

15.50 – 17.35 Session 3:

MOLECULAR DIAGNOSTICS FOR GUIDING DRUG THERAPY (PHARMACOGENETICSS)

Chair: Ron van Schaik & Isidor Minovic

15.50 – 16.20 **Pharmacogenetics: current state of the art in clinical use**

Ron van Schaik, PhD

Erasmus MC, Rotterdam, The Netherlands TBA

16.25 – 16.55 **Optimum Design of PGx Programs – Lessons from the 100,000 Genomes project**

Matt Brown (CSO), PhD

Genomics England

17.00 – 17.30 **Technical challenges in genotyping in Pharmacogenetics**

Andrea Gaedigk, PhD

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

17.35 - 19.00 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 – 10.45 Session 4:
MOLECULAR DIAGNOSTICS IN Hemato-Oncology

Chair: Isidor Minovic & Ernst Jan Speel

09.00 – 09.30 **Evolutionary landscape of clonal hematopoiesis**

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

10.45 – 11.15 COFFEE BREAK & POSTERS AT THE EXHIBITION AREA

11.15 – 13.00 Session 5:
SPECIAL TOPIC: SEPSIS FROM DIFFERENT PERSPECTIVES: CLINIC, BIOLOGY AND MOLECULAR DIAGNOSTICS

Chair: Jacques Schrenzel & Linos Vandekerckhove

11.15 – 11.45 **Introduction to Sepsis**

Jacques Schrenzel, MD, PhD
Geneva University Hospitals, Swiss

11.50 – 12.20 **Use of Biomarkers for Immunomodulatory Precision Medicine in Sepsis**

Erik Michels, MD, PhD
Center for Experimental and Molecular Medicine | Amsterdam – The Netherlands

12.25 – 12.40 **Phenotypic Antimicrobial Sensitivity Testing in under 4 hours**

Ryan Hull, PhD
Karolinska Institutet, Stockholm, Sweden (abstract 14)

12.45 – 13.00 **Ultra-rapid bacterial detection from neuropathology specimens using next-generation PCR and nanopore sequencing**

Eefje Schrauwen, PhD
Avans Hogeschool | Breda – The Netherlands (abstract 47)



13.00 – 14.30 LUNCH & POSTER SESSION AT THE EXHIBITION AREA

14.30 – 16.10 Session 6:
MOLECULAR DIAGNOSTICS IN PREVENTIVE MEDICINE

Chair: Jesper Bonde & Ron van Schaik

14.30 – 15.00 **Fully molecular cervical cancer screening**
Anja Oštrbenk, PhD
Faculty of Medicine, University of Ljubljana - Slovenia

15.05 – 15.35 **Molecular screening for Colon Cancer**
Claus Lindbjerg Andersen, PhD
Aarhus University Hospital - Skejby - Denmark

15.40 – 16.10 **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

16.15 – 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 – 10.45 Session 7:
QUALITY MANAGEMENT AND SUSTAINABILITY

Chair: Richard Molenkamp & Linos Vanderkerckhove

09.00 – 09.30 **Ensuring accuracy in the development and application of nucleic acid amplification tests (NAATs) for diagnosis**

Jim Huggett BSc. PhD. FRCP (Edin)

National Measurement Laboratory – Middlesex – UK

09.35 – 10.05 **Prenatal screening by Noninvasive Prenatal Testing (NIPT) in the Netherlands: Quality monitoring and management of additional findings.**

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

10.45 – 11.15 COFFEE BREAK & POSTERS AT THE EXHIBITION AREA

11.15 – 13.00 Session 8:
NGS BASED (META)GENOMICS

Chair: Jacques Schrenzel & Richard Molenkamp

11.15 – 11.45 **Population genetics and disease - how the past shapes the present**

Astrid Iversen, MD, PhD

University of Oxford – Oxford – United Kingdom

11.50 – 12.20 **cfDNA testing in febrile neutropenic patients**

Silke Grumaz, PhD

NGS diagnostics company Noscendo – Duisberg – Germany

12.25 – 12.40 **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)

12.45 – 13.00 **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)



13.00 – 14.15 LUNCH & POSTERS AT THE EXHIBITION AREA

**14.15 – 16.00 Session 9:
FUTURE DEVELOPMENTS AND NOVEL DIAGNOSTIC APPLICATIONS**

Chair: Adriaan van den Brule & Rob Schuurman

14.15 – 14.45 **CRISPR CAS diagnostics**
Michael M. Kaminski, PhD
Berlin Institute for Medical Systems Biology (BIMSB) – Germany

14.50 – 15.20 **Intra-operative methylation profiling in pediatric tumors**
Bastiaan Top, PhD
Princess Maxima Center for Childhood Cancer – The Netherlands

15.25 – 15.55 **Mapping the HIV intact reservoir: value of digital PCR and its role in HIV cure.**
Linus Vandekerckhove, PhD
Universitair Ziekenhuis Gent - Belgium

16.00 – 16.15 CLOSURE OF THE MEETING AND FINAL REMARKS