

Molecular Diagnostics EUROPE

5-7 APRIL 2016 | SHERATON LISBOA HOTEL & SPA | LISBON, PORTUGAL

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FOURTH INTERNATIONAL
Molecular Diagnostics
EUROPE

5-7 APRIL 2016

SHERATON LISBOA HOTEL & SPA
LISBON, PORTUGAL

Cover

Conference-At-A-Glance

Advanced Diagnostics
for Infectious Disease

Point-of-Care Diagnostics

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Second Annual

Advanced Diagnostics for Infectious Disease

Latest Technologies and Impact on Clinical Outcome

Coverage Includes

- Antimicrobial Resistance Diagnostics
- Applying New Technologies to Clinical Care: What Is Needed to Make Them Useful Tools for the Microbiologist
- Molecular Diagnostics Testing of Infectious Disease
- Mass Spec
- Rapid and Early Detection



KEYNOTE PRESENTATION

Hurricane Watch: Use of Novel Technologies for Early Detection and Identification of Multi-Resistant Bacteria
Ulf B. Goebel, M.D., Ph.D., Director, IMH Charité University Medicine Berlin; Director, Microbiology Labor Berlin Charité-Vivantes GmbH

5-6 APRIL



Inaugural

Point-of-Care Diagnostics

Rapid Detection to Ensure Better Outcomes Globally

Coverage Includes

- Point-of-Care Testing Around the Globe
- Novel Technologies for POC Diagnostics
- Nucleic-Acid Based Testing at the Point-of-Care



KEYNOTE PRESENTATION

Impact of POCT Technology on Efficiency and Effectiveness of Clinical Processes

Wilfried von Eiff, Ph.D., Academic Director, Center for Health Care Management and Regulation, HHL, Leipzig Graduate School of Management

6-7 APRIL



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CONFERENCE AT-A-GLANCE

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	Monday, 4 April	Tuesday, 5 April	Wednesday, 6 April	Thursday, 7 April
AM				
PM		Advances in Prenatal Molecular Diagnostics		Reproductive Genetic Diagnostics
AM			Advanced Diagnostics for Infectious Disease	
PM				Point-of-Care Diagnostics
AM		Circulating Tumour Cells		
PM				Circulating Cell-Free DNA



About the Event

Novel molecular-based tools are rapidly entering the clinic and creating a new paradigm in healthcare. The **Fourth International Molecular Diagnostics Europe** event will return to Lisbon this spring and feature six tracks: *Prenatal Molecular Diagnostics*, *Reproductive Genetic Diagnostics*, *Circulating Tumour Cells*, *Circulating Cell-Free DNA*, *Advanced Diagnostics for Infectious Disease*, and *Point-of-Care Diagnostics*. As the prenatal diagnostics market has demonstrated, molecular diagnostics are being applied to the clinical setting for greater speed and accuracy of healthcare delivery, while paving the way for a new era in medicine.

HOTEL & TRAVEL INFORMATION

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Conference Hotel:

Sheraton Lisboa Hotel & Spa
Rua Latino Coelho, 1
1069-025 Lisbon, Portugal
Phone: (351)(21) 3120000

Reservations: Go to the travel page of www.MolecularDxEurope.com

Discounted Room Rate: €130 single/€150 double, includes breakfast
Discounted Room Rate Cut-off Date: 17 February 2016

Go to the travel page of
www.MolecularDxEurope.com
for additional info



Why Stay at the Sheraton Lisboa Hotel and Spa?

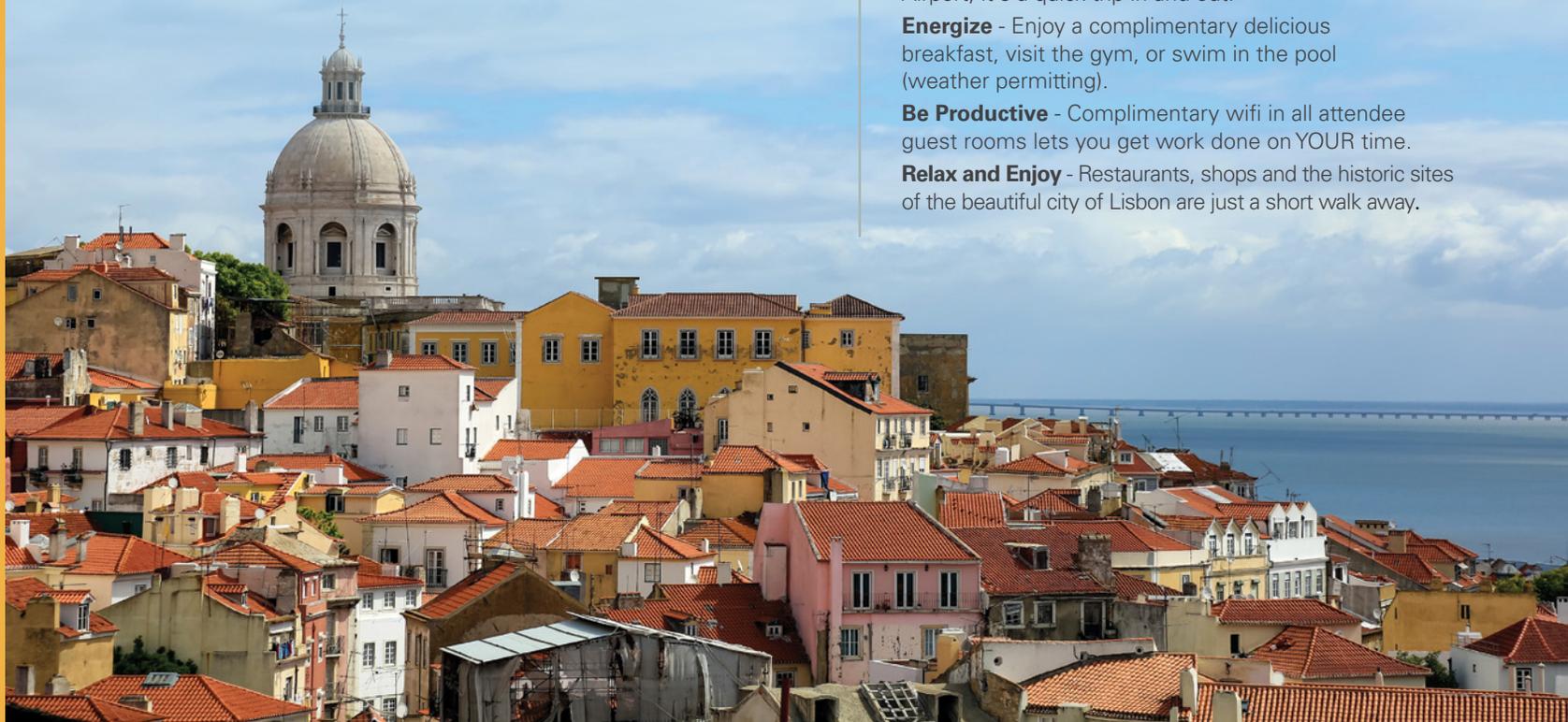
Be in the Heart of it All - The Sheraton Lisboa Hotel and Spa is located right in the heart of the city!

Get Here Quickly - Located just minutes from Lisbon Airport, it's a quick trip in and out.

Energize - Enjoy a complimentary delicious breakfast, visit the gym, or swim in the pool (weather permitting).

Be Productive - Complimentary wifi in all attendee guest rooms lets you get work done on YOUR time.

Relax and Enjoy - Restaurants, shops and the historic sites of the beautiful city of Lisbon are just a short walk away.



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CHI offers comprehensive sponsorship packages which include presentation opportunities, exhibit space, branding and networking with specific prospects. Sponsorship allows you to achieve your objectives before, during, and long after the event. Any sponsorship can be customized to meet your company's needs and budget. Signing on early will allow you to maximize exposure to qualified decision-makers.

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Sponsors will select their top prospects from the conference pre-registration list for an evening of networking at the hotel or at a choice local venue. CHI will extend invitations and deliver prospects, helping you to make the most out of this invaluable opportunity. Evening will be customized according to sponsor's objectives i.e.:

- Purely social
- Focus group
- Reception style
- Plated dinner with specific conversation focus

Exhibit

Exhibitors will enjoy facilitated networking opportunities with qualified delegates. Speak face-to-face with prospective clients and showcase your latest product, service, or solution.

One-on-One Meetings

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- Padfolios
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For sponsorship & exhibit information, please contact:

Ilana Quigley

Senior Business Development Manager

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Latest Technologies and Impact on Clinical Outcome

TUESDAY, 5 APRIL

ANTIMICROBIAL RESISTANCE DIAGNOSTICS

8:00 Registration and Morning Coffee

9:00 Chairperson's Remarks

Till T. Bachmann, Ph.D., Reader, Personalised Medicine in Infectious Disease; Deputy Head, Division of Infection and Pathway Medicine, College of Medicine and Veterinary Medicine, University of Edinburgh, United Kingdom

» **9:05 KEYNOTE PRESENTATION: HURRICANE WATCH:
USE OF NOVEL TECHNOLOGIES FOR EARLY DETECTION
AND IDENTIFICATION OF MULTI-RESISTANT BACTERIA**



Ulf B. Göbel, M.D., Ph.D., Director, IMH Charité University Medicine Berlin; Director, Microbiology Labor Berlin Charité-Vivantes GmbH, Germany

The rapid evolution of antimicrobial resistance and the alarming spread of multi-resistant bacteria represent a major challenge for health care systems worldwide. Early, rapid, accurate and cost-effective detection of phenotypic and/or genotypic resistance is therefore mandatory to prevent transmission and to initiate appropriate therapy. I am reviewing the latest developments and discussing pros and cons of their implementation from a large hospital laboratory's perspective.

9:35 Futuristic Antimicrobial Susceptibility Testing

Alex van Belkum, Ph.D., F(AAM), Corporate Vice President, Microbiology, bioMérieux, France

Antimicrobial susceptibility testing is a key technology in clinical microbiology. It helps identify drug resistance and directs patient treatment. Classical methods mostly rely on growth interruption. Many alternatives have been developed including several which utilize the detection and characterization of nucleic acid molecules. The presentation will review the current methodological state of affairs and will survey those molecular technologies which are considered candidates for ultimate replacement of the existing methods.

10:05 Sponsored Presentation (Opportunity Available)

10:35 Coffee Break in the Exhibit Hall with Poster Viewing

11:15 AMR DxC Competition and the Longitude Prize

Till T. Bachmann, Ph.D., Reader, Personalised Medicine in Infectious Disease; Deputy Head, Division of Infection and Pathway Medicine, College of Medicine and Veterinary Medicine, University of Edinburgh, United Kingdom

Worldwide efforts to develop rapid diagnostics to tackle antimicrobial resistance

are facing substantial technical and non-technical barriers to innovation. As a consequence, international challenge prizes were launched. The Longitude Prize will reward a competitor that can develop a transformative point-of-care diagnostic test that will conserve antibiotics for future generations and revolutionise the delivery of global healthcare. AMR DxC, the Antimicrobial Resistance Challenge competition, will address AMR Diagnostics from an interdisciplinary perspective of the next generation of researchers.

11:45 The Impact of Sequencing as a Routine Clinical Diagnostic for Resistant Organisms

Samuel Reed, President, US Office, DNA Electronics, United States

The treatment of millions of critically-ill patients, and the appropriate use of antibiotics, is still often hampered by the bottleneck of the day(s)-long turnaround time of culture. There remains a need for a broad, versatile diagnostic, which is far more rapid. This talk will outline some additional solutions being developed to provide rapid, sample-to-result sequencing and highly-multiplexed molecular diagnostics, sensitive enough to operate directly from whole blood or other specimens, and easy enough to be used in a routine clinical testing environment.

12:15 Sponsored Presentation (Opportunity Available)

12:45 Luncheon Presentation (Sponsorship Opportunity Available) or Enjoy Lunch on Your Own

13:15 Session Break

APPLYING NEW TECHNOLOGIES TO CLINICAL CARE: WHAT IS NEEDED TO MAKE THEM USEFUL TOOLS FOR THE MICROBIOLOGIST

14:15 Chairperson's Remarks

Matthew Cotten, Ph.D., Senior Staff Scientist, Virus Genomics, Wellcome Trust Sanger Institute, United Kingdom

14:20 Outbreak Sequencing of Ebola Virus: The Utility of Phylogenetics for Tracking Virus Transmission Chains

Matthew Cotten, Ph.D., Senior Staff Scientist, Virus Genomics, Wellcome Trust Sanger Institute, United Kingdom

West Africa has experienced the largest known outbreak of Ebola virus disease (EVD) in history. The ability to rapidly identify virus sources and chains of transmission is essential for ending the epidemic. We show that local Ebola virus genome sequencing, (in as little as 24 hours from clinical sample to genome) combined with epidemiological data and a comprehensive database of virus sequences across the outbreak provide powerful tools for identifying sources of new infections and for interrupting Ebola virus transmission.

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14:50 Virus Discovery in Diseases of Unknown Origin

Lia van der Hoek, Ph.D., Associate Professor, Laboratory of Experimental Virology, Medical Microbiology, Center for Infection and Immunity Amsterdam (CINIMA), Academic Medical Center (AMC), University of Amsterdam, The Netherlands
 Attributing the presence of a new virus to a disease can be a challenge since often the Koch's postulates cannot be fulfilled. Adding a selection for pathogenic viruses in next generation sequencing virus discovery via an antibody capture step enhances detection of those viruses to which a patient has developed an antibody response. This selection can justify further research to reveal the causative nature in disease.

15:20 From Months to Hours: Can Molecular TB Diagnostics Replace Phenotypic Tests?

Bouke de Jong, M.D., Ph.D., Head, Mycobacteriology Unit, Institute of Tropical Medicine, Belgium

Tuberculosis requires concurrent treatment with a minimum of three effective drugs. In the presence of drug resistance, the treatment duration increases from 6 months to 2 years, often with dismal outcome. Resistance testing can take up to 4 months. While molecular resistance tests have replaced the phenotypic gold standard for rifampicin, for other drugs the clinical relevance of discordant results remains unclear. Novel molecular tests need to resolve the interpretation for clinicians in order for these tests to impact on patient outcomes.

15:50 Refreshment Break in the Exhibit Hall with Poster Viewing

MOLECULAR DIAGNOSTICS TESTING OF INFECTIOUS DISEASE

16:25 Chairperson's Remarks

Matthew Cotten, Ph.D., Senior Staff Scientist, Virus Genomics, Wellcome Trust Sanger Institute, United Kingdom

16:30 Nanopore Sequencing for Microbial Diagnostics – The Perfect Fit?

Justin O'Grady, Ph.D., Lecturer in Medical Microbiology, Norwich Medical School, University of East Anglia, United Kingdom

We are developing unbiased metagenomic sequencing methods for diagnosing clinical syndromes such as sepsis and UTIs. The biggest challenges to successfully applying these approaches are (1) the presence of large amounts of host DNA and (2) turnaround-time to results. We are combining novel host depletion techniques with MinION sequencing to make this possible.

17:00 Resolving Molecular Diagnostics Need for Ebola, Advancing Point-of-Care Testing for the West

Sterghios Moschos, Ph.D., Reader and Associate Professor, Biomedical Sciences, University of Westminster, United Kingdom

The West African Ebola outbreak galvanized academics and biotech internationally to innovate solutions for mass point-of-need testing for category 4 biological agents. The international public-private EbolaCheck consortium has addressed this need by developing a 5-step, <30 min, portable system that can quantify Ebolavirus in as little as 5 ul of crude biofluids for under US\$12 per test. Engineered for West Africa, the technology is now expanding to address differential diagnosis need for future infectious disease outbreaks and beyond.

17:30 Smear-Negative, Culture Positive TB: Diagnosis Improvement by Xpert MTB/RIF Assay: Evidences and Bologna University Hospital Experiences in Tuberculosis Patients Diagnostics and Follow-up

Valentina Di Gregori, M.D., Medical Epidemiologist Doctor, UO Microbiology, Sant'Orsola Malpighi University Hospital, Italy

Evidences on new diagnostics are upcoming in tuberculosis molecular characterisation. Xpert can induce an advantage in smear negative culture positive recognition of cases during ordinary practice. Even though, on small samples, our experience can be reported to be implemented on further hospital environment in high contingency and low expenditure conditions.

18:00 Welcome Reception in the Exhibit Hall with Poster Viewing

19:00 Close of Day One

WEDNESDAY, 6 APRIL

MASS SPEC

8:00 Registration and Morning Coffee

8:40 Chairperson's Remarks

François Jean, Ph.D., Associate Professor and Scientific Director (FINDER), University of British Columbia, Canada

8:45 Mass Spectrometry-Based Clinical Proteomics for Detection and Absolute Quantitation of Viral Proteins: A Tale of Two Fever-Associated Viruses, Dengue Virus and Ebola Virus

François Jean, Ph.D., Associate Professor and Scientific Director (FINDER), University of British Columbia, Canada

Dr. Jean's presentation focuses on the immense potential of multiple reaction monitoring mass spectrometry (MRM-MS) in clinical proteomics with the vision of developing a universal diagnostic test for emerging and re-emerging human viruses. Dr. Jean will discuss the development and potential downstream applications of his novel MRM-MS assays for early diagnosis of dengue hemorrhagic fever and Ebola viral disease. Dr. Jean's research program is funded by the Canadian Networks of Centres of Excellence (IC-IMPACTS) and the British Columbia Proteomics Network.

9:15 Mass Spectrometry for Microbial Identification: A Revolution in Your Laboratory

Victoria Girard, Ph.D., Head, Identification, R&D Microbiology, bioMérieux, France
 Presentation of the principle of mass spectrometry, how the databases are built, what type of organisms can be identified and with which performance. Possibility of typing and other research activities using MALDI-TOF MS.

9:45 Sponsored Presentation (Opportunity Available)

10:15 Coffee Break in the Exhibit Hall with Poster Viewing

RAPID AND EARLY DETECTION

10:40 Chairperson's Remarks

François Jean, Ph.D., Associate Professor and Scientific Director (FINDER), University of British Columbia, Canada

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10:45 The Pre-Symptomatic Diagnosis of Sepsis in Elective Surgery Patients: Finding Biomarker Signatures in the Transcriptomic Milieu

Roman A. Lukaszewski, Ph.D., DSTL Fellow, CBR Division, Defence Science & Technology Lab, United Kingdom

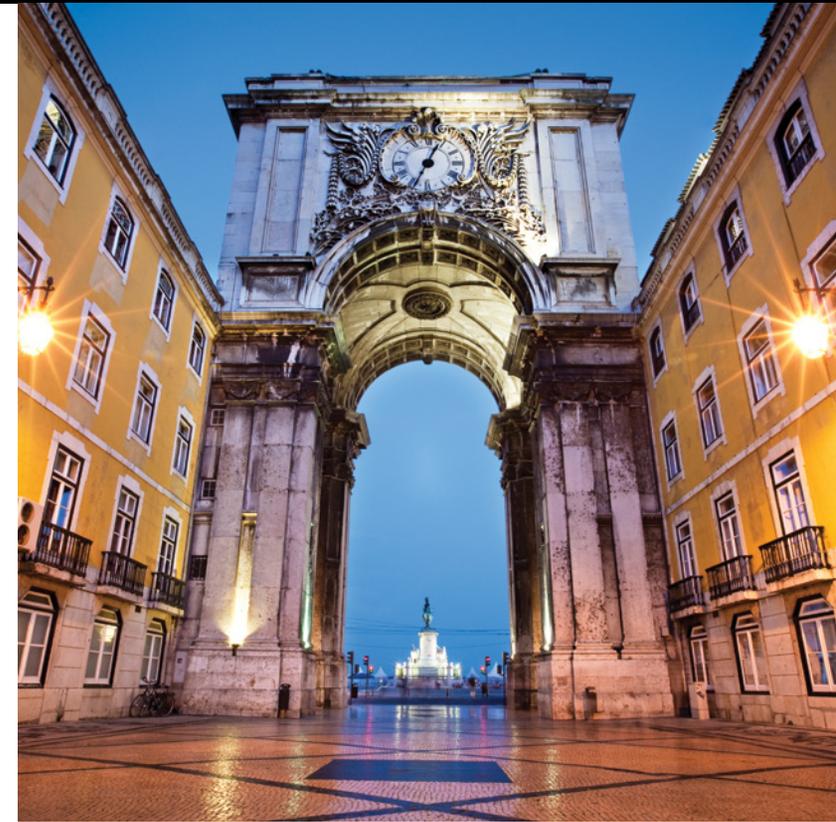
The early diagnosis of sepsis remains a challenge that, if overcome, will have considerable impact on patient management and outcome. In this study of the onset of sepsis in elective surgery patients, pre-symptomatic host biomarker signatures have been identified from patient blood samples that differentiate between those who go on to develop sepsis, SIRS or have an unremarkable recovery.

11:15 Twenty Minute Diagnosis of Infectious Diseases Using a Disposable Handheld Molecular Point-of-Care Test Device

James Mahony, Ph.D., Professor, Pathology & Molecular Medicine; Assistant Dean, Medical Sciences, McMaster University, Canada

Most point-of-care test (POCT) devices detect antigens or antibody; however, these assays are insensitive compared with nucleic acid detection methods. Therefore there is an urgent need for nucleic acid amplification-based POCT tests for the detection of infectious diseases. We describe here an instrument-free, hand-held, point-of-need test device that can detect viruses and bacteria on a swab providing an answer in 20 minutes.

11:45 Close of Conference



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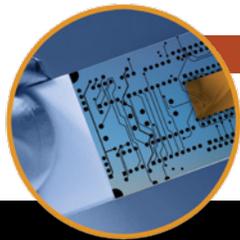
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Inaugural

Point-of-Care Diagnostics

6-7 April 2016

Rapid Detection to Ensure Better Outcomes Globally

WEDNESDAY, 6 APRIL

12:00 – 13:00 Registration

POINT-OF-CARE TESTING AROUND THE GLOBE

13:00 Chairperson's Opening Remarks

Gyorgy Abel, M.D., Ph.D., Director, Molecular Diagnostics, Immunology & Clinical Chemistry, Laboratory Medicine, Lahey Hospital & Medical Center, United States

» 13:05 KEYNOTE PRESENTATION: IMPACT OF POCT TECHNOLOGY ON EFFICIENCY AND EFFECTIVENESS OF CLINICAL PROCESSES



Wilfried von Eiff, Ph.D., Academic Director, Center for Health Care Management and Regulation, HHL, Leipzig Graduate School of Management, Germany

POCT technology enables us to leverage medical quality, patient outcome and economy of clinical processes. In two randomized single center trials the advantages of a POCT setting compared to a central lab test environment could be demonstrated. In an emergency department, POCT contributes to avoiding crowding effects and to reducing length-of-stay of patients suffering from non-specific thoracic pain. Furthermore, cost saving and efficiency effects were achieved using POCT for glucose monitoring onwards.

13:35 The Added Value POC Platforms for Pathogen Detection in Diagnostic Microbiology

Eric C.J. Claas, Ph.D., Associate Professor, Molecular Medical Microbiologist, Medical Microbiology, Leiden University Medical Center, The Netherlands

Over the last few decades nucleic acid amplification methods have revolutionized diagnostic microbiology. Initially, advanced laboratory skills were required for reliable implementation of these techniques but in recent years automated systems have become available for advanced processing of clinical samples. Different formats are available to accommodate specific laboratory requirements varying in the number of samples that can be processed, the number of pathogens that can be simultaneously detected, and time to result. An overview of the possibilities will be presented with a view on future diagnostic microbiology.

14:05 Point-of-Care Testing: A European Perspective

Anders Larsson, Ph.D., Professor, Medical Sciences, Uppsala University, Sweden

Over the past decades the availability and use of point-of-care testing (POCT) have steadily increased in Europe. Properly utilized, POCT has been shown to yield measurable improvements in patient care, workflow, and significant financial benefits in a number of different settings. It is important however that POCT is effectively integrated in the patient care including quality assurance systems and electronic handling of results.

14:35 Refreshment Break in the Exhibit Hall with Poster Viewing

NOVEL TECHNOLOGIES FOR POC DIAGNOSTICS

15:10 Chairperson's Remarks

Holger Becker, Ph.D., Founder & CSO, microfluidic ChipShop GmbH, Germany

15:15 Implementation of POCT Quality Standards to Optimize the Clinical Process Reliability

Peter B. Lippa, Ph.D., Head, Central Laboratory, Institute for Clinical Chemistry, Technische Universität München, Germany

A POCT coordinator in a hospital has a pivotal role for quality assurance. He oversees all POCT processes and ensures that all necessary regulatory issues are met, establishing both quality and competence of testing. Implementation of POCT into clinical practice means: Assessing analytical reliability, evaluating clinical significance and establishing a comprehensive quality management system. Only when analytical performance characteristics and clinical limits are known, the POCT process reliability can be optimised.

15:45 A Universal POC Platform for Molecular, Immunological and Clinical Diagnostics

Holger Becker, Ph.D., Founder & CSO, microfluidic ChipShop GmbH, Germany

We have developed a universal diagnostic system which, as a platform, can handle molecular, immunological and clinical chemistry tests on a single instrument platform in a low resource setting. One example of testing on this platform is the fully automated sample-in answer-out cartridge for a rapid detection of mycobacterium tuberculosis (TB). This platform will be used in the future as an open platform to allow users a fast-track to bring their own assays onto a microfluidic cartridge format.

16:15 Emerging Technologies in Point-of-Care Diagnostics for Resource-Limited Settings

Catharina Boehme, CEO, FIND (Foundation for Innovative New Diagnostics), Switzerland

Diagnosing infectious diseases at the point at which care is delivered has the potential to save many lives, especially where access to laboratories is poor. Whether caring for an individual patient or responding to a worldwide pandemic, establishment of a microbial cause is fundamental to quality care. Emerging technologies enable this with new speed, sensitivity, and simplicity of use. However, there are significant challenges to the development and clinical integration of the new generation of diagnostic tests.

16:45 Close of Day One

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THURSDAY, 7 APRIL

NUCLEIC-ACID BASED TESTING AT THE POINT-OF-CARE

8:00 Registration

8:30 Breakfast Presentation (*Sponsorship Opportunity Available*) or
Morning Coffee

9:00 Chairperson's Remarks

Till T. Bachmann, Ph.D., Reader, Personalised Medicine in Infectious Disease; Deputy Head, Division of Infection and Pathway Medicine, College of Medicine and Veterinary Medicine, University of Edinburgh, United Kingdom

9:05 A Handheld qPCR Device for Use in the Field

Jo-Ann Lee Stanton, Ph.D., Senior Research Fellow, Anatomy, University of Otago, New Zealand

Diagnosis of infectious disease at the initial point-of-care permits rapid infection containment, accurate diagnosis and the immediate implementation of appropriate treatment. qPCR is rapid, sensitive and accurate. We have invented a battery-powered, hand held qPCR device that can be used for point-of-care diagnostics. This talk will explore use of our handheld quantitative PCR device in non-laboratory environments.

9:35 Amplification Free Electrochemical Detection of Nucleic Acids for Rapid Antimicrobial Resistance Testing at Point-of-Care

Till T. Bachmann, Ph.D., Reader, Personalised Medicine in Infectious Disease; Deputy Head, Division of Infection and Pathway Medicine, College of Medicine and Veterinary Medicine, University of Edinburgh, United Kingdom

Rapid diagnostics is of utmost importance to quickly initiate the correct antibiotic therapy and avoid the use of inappropriate antibiotics. Direct, amplification free detection of nucleic acids offers the possibility to shorten the time to result and specific sample preparation requirements need to be considered when setting up such assays. We have demonstrated the direct detection of nucleic acid antimicrobial resistance biomarkers from genomic and plasmid DNA from MRSA and CPE respectively. We used electrochemical impedance spectroscopy and disposable electrodes and will discuss their integration in sample to answer tests.

10:05 Sponsored Presentation (*Opportunity Available*)

10:35 Coffee Break in the Exhibit Hall with Poster Viewing

11:15 Nucleic Acid-Based Diagnostics for Viral Lower Respiratory Tract Infections

Corné van den Kieboom, Ph.D., Postdoctoral Researcher, Laboratory of Pediatric Infectious Diseases, Radboud University Medical Center, The Netherlands

Respiratory syncytial virus is the most common cause of viral respiratory tract infections among hospitalized children. Symptoms range from common cold to severely compromised respiratory function. Accurate and fast diagnosis can substantially enhance the quality of care and lower the disease burden. Here utilization of nucleic acids offer tremendous possibilities, not only as target for detection or predicting the course of disease, but also as binding molecules for diagnostic devices.

11:45 A Rapid, Amplification-Free, and Sensitive Diagnostic Assay for Single-Step Multiplexed Fluorescence Detection of MicroRNA

Xue Qiu, Institut d'Electronique Fondamentale, Université Paris-Sud, France

I will present a fully homogeneous multiplexed microRNA FRET assay that combines careful biophotonic design with various RNA hybridization and ligation steps. The single-step and amplification-free assay provides a unique combination of performance parameters compared to state-of-the-art miRNA detection technologies. Precise quantification of miRNA-20a, -20b, and -21 with detection limits between 0.2 and 0.9 nM in 7.5 mL serum samples demonstrate the feasibility of both high throughput and point-of-care clinical diagnostics.

12:15 Sponsored Presentation (*Opportunity Available*)

12:45 Luncheon Presentation (*Sponsorship Opportunity Available*) or
Enjoy Lunch on Your Own

13:15 Session Break

14:15 Dessert Break in the Exhibit Hall with Poster Viewing

NOVEL TECHNOLOGIES FOR POC DIAGNOSTICS (Cont.)

14:55 Chairperson's Remarks

Holger Becker, Ph.D., Founder & CSO, microfluidic ChipShop GmbH, Germany

15:00 Lab-on-DVD: Advanced Cellular and Molecular Diagnostics at Resource Limited Settings

Aman Russom, Ph.D., Associate Professor and Head, Clinical Microfluidics Lab, Division of Proteomics and Nanobiotechnology, Science for Life Laboratory, KTH Royal Institute of Technology, Sweden

Microfluidics and the concept of lab-on-a-chip continue to gain traction as a successful emerging field that aims to integrate complex biochemical analyses into automated systems. One of the most promising applications for these microfluidic systems is in point-of-care biological analysis. Here, I will describe and discuss a low-cost "Lab-on-DVD" platform capable of integrating sample handling and detection for POC blood diagnostics.

15:30 Global Health Diagnostics Demands

Francis Moussy, Ph.D., Lead, AMPR Diagnostics Innovation, Essential Medicines and Health Products Department, World Health Organization (WHO), Switzerland

Low-cost and robust POC diagnostics that are suitable for remote health care centers in low- and middle-income countries are needed to facilitate surveillance and identification of etiological agents (and/or biological responses) and thus guide decisions for timely and appropriate treatment and reporting in places where almost no tools are available. One approach towards such diagnostic tools is to facilitate the development of multipurpose POC diagnostic devices.

16:00 The Digital Revolution on a Disc for Next-Generation Point-of-Care Diagnostics

Jens Ducreé, Ph.D., Biomedical Diagnostics Institute, National Centre of Sensor Research, School of Physical Sciences, Dublin City University, Ireland

This talk will review significant advances on comprehensive process integration, automation and parallelization of bioanalytical assays on a compact and widely autonomous microfluidic platform. Similar to modern microelectronics, this next-generation Lab-on-a-Disc platform allows complex logical flow control architectures generated by strategic repetition of elementary building blocks such as transistors.

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Several applications in point-of-care diagnostics such as immunoassay, general chemistry, nucleic acid testing and cell counting will be demonstrated.

16:30 Sponsored Presentation (*Opportunity Available*)

17:00 Refreshment Break

17:15 Centrifugal Microfluidic Platform (LabDisk) as a Multi-Purpose, Multi-Target Diagnostic Tool for Patient Management at the Point-of-Care

Konstantinos Mitsakakis, Ph.D., Product Manager, Hahn-Schickard; Alexander von Humboldt Fellow, IMTEK, University of Freiburg, Germany

The LabDisk is a CD-shaped microfluidic platform with all reagents integrated for on-site sample-to-answer diagnosis of single or multiple infectious diseases stemming from parasites, bacteria, viruses, or co-infections of theirs. By combining molecular diagnostics and protein biomarker detection, the LabDisk offers increased reliability in pathogen species identification. An overview of case-studies in infectious disease diagnostics will be presented, namely on neonatal sepsis, respiratory tract infections, antibiotic resistance, febrile tropical infections.

17:45 Integrated Sample-Prep and Immunoassay Array Platform for High-Sensitivity, Low-Complexity Multiplexed POC Diagnostics

John C. Carrano, Ph.D., President & CEO, Paratus Diagnostics LLC, United States

Detection of infectious pathogens is critical to proper patient care and management of outbreaks, yet many existing diagnostic tests fail to provide adequate sensitivity and simplicity for use in an out-patient setting. Our solution resolves the problems associated with long delays in test results processed at a central laboratory thereby informing clinical decision-making during the normal course of the patient visit to the clinic. In this talk we will present a solution for a high-sensitivity, low-complexity multiplexed POC diagnostic test that addresses and resolves each of these challenges through the application of our unique and differentiated technologies.

18:15 Close of Conference



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Advances in Prenatal Molecular Diagnostics	Reproductive Genetic Diagnostics
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