Target Audience
35 – 50 clinical microbiologists (medical, clinical, forensics including trainees), and other professionals working with mass-spectrometry for clinical microbiology applications.

Confirmed Faculty Members
Dirk Bumann, Basel, Switzerland
Ben Collins, Zurich, Switzerland
Antony Croatto, Lausanne, Switzerland
Adrian Egli, Basel, Switzerland
Victoria Girard, Lyon, France
Gilbert Greub, Lausanne, Switzerland
Hajo Grundmann, Freiburg, Germany
Gillet Ludovic, Zurich, Switzerland
Jacob Moran-Gilad, Beer-Sheva, Israel
Elisabeth Nagy, Szeged, Hungary
Michael Oebbe, Ararau, Switzerland
Claus Østergaard, Lillebaelt, Denmark
Renaud Pfirrmann, Marseille, France
Kristina Rizzardi, Solna, Sweden
Belén Rodríguez-Sánchez, Madrid, Spain
Kateleen Vanhecke, Gent, Belgium

Contact
Contact Person (Scientific Programme)
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Supporters
• bioMérieux
• Applied Maths
• Bruker

Scientific picture outside: Mass spectra profile of E. Coli

Course Objectives
The impact of mass-spectrometry-based identification has been profound on the daily workflow of modern clinical microbiology laboratories due to a significant reduction in time-to-identification of causing pathogens. Recently, the field is rapidly moving beyond identification towards antibiotic resistance testing, direct specimen exploration and typing. This course aims to boost the knowledge of mass-spectrometry by allowing attendees to join leading scientists in the field of MALDI-TOF mass-spectrometry applications in clinical microbiology. Most recent breakthroughs and current applications will be shown. Moreover, the course aims to create networks between clinical microbiologists, basic researchers and allied professions and build capacity facilitating the multiple applications in this multidisciplinary field across Europe.
Course Programme

Monday, 13 March 2017

08:00 – 09:00 Registration

Session 1
09:00 – 09:30 Welcome and introduction of the Study Groups. Adrian Egli, Gilbert Greub, Hajo Grundmann, Jacob Moran-Gilad
09:30 – 10:15 Overview and introduction to MALDI-TOF mass-spectrometry – identification and beyond. Adrian Egli
10:15 – 11:00 MALDI-TOF MS directly from positive blood culture – rapid identification protocols and impact on patients. Gilbert Greub
11:00 – 11:30 Coffee break

Session 2
11:30 – 12:15 MALDI-TOF MS to identify rare pathogenic bacteria in the routine diagnostics. To be confirmed
12:15 – 13:00 Identification of anaerobes using MALDI-TOF MS. Elisabeth Nagy
13:00 – 14:00 Lunch

Session 3
14:00 – 14:45 MALDI-TOF directly from urine samples as a tool to rapidly detect urinary tract infection. To be confirmed
14:45 – 15:30 Mycobacteria non-tuberculosis database – must have or nice to have? Belén Rodriguez-Sanchez
16:15 – 16:45 Coffee break

Session 4
16:45 – 17:00 Sponsored session on molecular diagnostics VITEK MS: identification of critical pathogens and beyond. Victoria Girard [BioMérieux]
17:15 – 17:45 Advanced analysis methods can improve the typing possibilities using MALDI-TOF. Katarzyna Vranckx [Applied Maths]

Tuesday, 14 March 2017

08:00 – 08:45 Registration

Session 5
08:45 – 09:30 MALDI-TOF-based subtyping as a tool for outbreak investigation – an overview. To be confirmed
09:30 – 10:15 MRA clonal complex subtyping using MALDI-TOF. Claus Oestergaard
10:15 – 11:00 Enterobacteriaceae subtyping using MALDI-TOF. Michael Oerle
11:00 – 11:30 Coffee break

Session 6
11:30 – 12:15 Clostidium difficile subtyping using MALDI-TOF MS. Kristina Rizzardi
12:15 – 13:00 Quality control and technical reproducibility using MALDI-TOF. Antonio Crevatto
13:00 – 14:00 Lunch

Session 7
14:00 – 14:45 Mass-spectrometry technologies – more than just MALDI-TOF MS. Gillet Ludovic
14:45 – 15:30 Protein detection using SWATH MS. Dirk Rumann
15:30 – 16:00 Coffee break

Session 8
16:00 – 16:45 Mycobacterium tuberculosis protein expression profiling using SWATH MS. Ben Collins
16:45 – 17:30 Bioinformatics to analysis – MS data in clinical microbiology. To be confirmed
19:00 – 22:00 Social programme and dinner

Wednesday, 15 March 2017

08:00 – 08:45 Registration

Session 10
08:45 – 09:30 Antibiotic resistance testing using MALDI-TOF – overview of methods and feasibility for the routine laboratory. To be confirmed
09:30 – 10:15 AMR with MALDI-TOF MS – what is in the pipeline? To be confirmed
10:15 – 10:45 Coffee break

Session 11
10:45 – 11:30 Educational quiz: presentation and discussion of MS challenges in clinical routine. Gilbert Greub
11:30 – 12:15 Areas of uncertainties by using MALDI-TOF and problems to solve. Adrian Egli
12:15 – 13:00 Open panel discussion: common initiatives, projects, protocols. Adrian Egli, Gilbert Greub, Hajo Grundmann, Jacob Moran-Gilad, Elisabeth Nagy
13:00 – 13:15 Concluding remarks & farewell. Adrian Egli, Gilbert Greub, Hajo Grundmann, Jacob Moran-Gilad

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Course Venue
University Hospital Basel
Petersgraben 4
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www.unispital-basel.ch

Registration Procedure
Register now online on the ESCMID website at www.escmid.org/education. Registration deadline is 3 February 2017.

Registration Fee
EUR 500 for ESCMID members (Full Membership/Young Scientist Membership)
EUR 750 for non-ESCMID members
The fee includes the course, tea and coffee during the course, lunch, dinner and the social event (including dinner). Travel and accommodation is not included.

Attendance Grants
ESCMID provides a number of attendance grants for ESCMID “young scientist members”. The grant covers the registration fee. Travel and accommodation is not included. Please apply via the ESCMID website at www.escmid.org/education before 4 January 2017. Applicants will be informed about their acceptance by 18 January 2017.

CME Accreditation
The organizers of the course will apply for European CME accreditation through EACCME.