Contact

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Target Audience
Up to 72 clinical microbiologists and other professionals working in diagnostics and interested in MALDI-TOF, genomics, automation, molecular diagnostics and others new innovative tools.

Faculty Members
Sebastien Arby, Lausanne, Switzerland
Claire Bertelli, Lausanne, Switzerland
Alix Coste, Epalinges, Switzerland
Antony Croxatto, Lausanne, Switzerland
Alexander Dalpke, Hesdell, Germany
Adrian Egi, Basel, Switzerland
Gilbert Greub, Lausanne, Switzerland
Philippe Hauser, Lausanne, Switzerland
Geneviève Hery Arnaud, Brest, France
Katia Jaton, Lausanne, Switzerland
Frédéric Lamoth, Lausanne, Switzerland
Colin Mackenzie, Düsseldorf, Germany
Surbhi Malhotra-Kumar, Antwerp, Belgium
Jacob Moran-Gilad, Beit Kama, Israel
Elisabeth Nagy, Szeged, Hungary
Immacule Nahimana, Lausanne, Switzerland
Orya Opota, Lausanne, Switzerland
Robin Patel, Rochester, MN, United States
Trestan Pillonel, Lausanne, Switzerland
Laurent Poirot, Fribourg, Switzerland
Guy Prod’hom, Lausanne, Switzerland
Mjukie Raymaekers, Hasselt, Belgium
Belen Rodriguez-Sanchez, Madrid, Spain
John Rossen, Groningen, Netherlands
Jacques Schrenzel, Geneva, Switzerland
Katja Seme, Ljubljana, Slovenia
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Course Coordinators
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Jacob Moran-Gilad, Beit Kama, Israel
John Rossen, Groningen, Netherlands

Course Objectives
To further improve patients care, it is crucial to continue to develop new tools providing faster results, with a broader diversity of pathogenic agents with very high sensitivity and specificity. To reach these goals, it is important to be aware of the new innovative methods that have recently been developed and to exchange knowledge and ideas on the future of diagnostic microbiology, including the emerging indications of metagenomics for non-infectious diseases such as obesity and asthma. This course thus aims to provide a unique platform to learn about the strengths and limitations of new diagnostic tools including MALDI-TOF, molecular diagnosis, genomics and metagenomics, as well as novel innovative techniques such as nanoplasmonic sensors and atomic force microscopy. The course also offers a unique opportunity for participants to gain practical experience during the twelve different practicals led by local microbiologists.

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Tuesday, 25 September 2018
09:00 Introduction. Gilbert Greub, Jacob Moran-Gilad, Katia Jaton
09:15 Molecular diagnosis. Marijke Raymaekers
09:45 Multiplex PCRs. Colin Mackenzie
10:15 Coffee break
11:00 Laboratory diagnosis of viral infections. Kotja Seme
11:30 Automated molecular testing of infectious diseases. Alexander Dolpke
12:00 The future of diagnostic microbiology. Gilbert Greub
12:30 Lunch
14:00 Practicals (parallel sessions)
17:45 End

Wednesday, 26 September 2018
09:15 Automation in bacteriology. Antony Croxatto
09:45 Etiological diagnosis of blood culture. Gilbert Greub
10:15 Coffee break
11:00 Mycobacteria: molecular diagnosis. Belén Rodríguez-Sánchez
11:30 Laboratory diagnosis of anaerobic infections. Elisabeth Nagy
12:00 Carbapenemases: how to detect them? Laurent Poiré
12:30 Lunch
14:00 Practicals (parallel sessions)
16:00 Social programme
17:30 End

Thursday, 27 September 2018
09:15 Genomics: clinical applications. Surbhi Malhotra-Kumar
09:45 Genomics: data analyses and quality controls. Claire Bertelli
10:15 Coffee break
11:00 Metagenomics for clinical microbiology. Jacques Schrenzel
11:30 Gut metagenomics: beyond clinical microbiology. Florian Tagini
12:00 Metagenomics application in patients with cystic fibrosis. Geneviève Hery Arnaud
12:30 Lunch
14:00 Practicals (parallel sessions)
17:45 End

Friday, 28 September 2018
09:15 MALDI-TOF Mass spectrometry. Robin Patel
09:45 MALDI-TOF and typing. Adrian Egli
10:15 Coffee break
11:00 AB susceptibility testing: new techniques including atomic force microscopy. Antony Croxatto
11:30 Diagnosis of infections due to respiratory tract viruses. Kate Templeton
12:00 Open panel discussion. Katia Jaton, Adrian Egli, Gilbert Greub, Jacob Moran-Gilad, Marijke Raymaekers, Kate Templeton
12:30 Lunch
14:00 Practicals (parallel sessions)
16:00 Final plenary lecture: molecular and genomic epidemiology. Jacob Moran-Gilad
16:30 Concluding remarks and farewell. Gilbert Greub, Jacob Moran-Gilad

Practicals
- Bacterial phenotypes and automation. Antony Croxatto
- Rapid tests. Onya Oputo
- MALDI-TOF: classical identification of bacteria and fungi. Frédéric Lamoth
- MALDI-TOF: application on blood culture. Alix Coate
- Etiological diagnosis of pneumonia. Florian Tagini
- Diagnosis of urinary tract infections. Immaculée Nahimana
- Parasitology. Guy PradTorn
- Morphological identification of fungi. Philippe Hauser
- How to sequence: fragment analyser and MiSeq. Sebastien Aley
- Molecular diagnosis. Katia Jaton
- Genomics analyses: virulence factors & typing. Trestan Pillonel
- 16SrRNA amplicons & shotgun metagenomics. Claire Bertelli

Course Venue
CHUV
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Auditoire Alexandre Yersin
1011 Lausanne, Switzerland

Registration Procedure
Register now online on the ESCMID website at www.escmid.org/education.

Registration deadline is 17 August 2018.

Registration Fee
EUR 600 for ESCMID members
(Full Membership/Young Scientist Membership)
EUR 750 for all others
The registration fee includes the course, coffee/tea breaks, lunches, dinner on Thursday evening and the social event. Travel and accommodation are 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 are not included. Please apply via the ESCMID website at www.escmid.org/education before 20 July 2018. Applicants will be informed about their acceptance by 3 August 2018.

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