ESCMID Postgraduate Education Course
3rd Course on Principles of Molecular Microbiological Diagnostics

Maastricht, Netherlands
17 – 19 January 2018

Contact

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Administrators

3rd Course on Principles of Molecular Microbiological Diagnostics

Target Audience
65 – 100 molecular microbiologists, clinical/medical microbiologists, technicians and head of departments.

Course Objectives
• Basic information on microbiological molecular diagnostics and set-up
• Advanced education (interactive workshops) on technical items [participants can discuss their own questions with experts]
• Advantages and pitfalls of specific techniques
• Setting up molecular diagnostic laboratory [low resource settings]
• Typing approaches for infection control
• New MDx techniques (NGS, automation, multiplex, mass spectrometry)
• Emerging fields in MDx (microbioma diagnostic applications, electronic nose expectations, etc.)
• Future perspectives of MDx in the clinical microbiological laboratory

Organizers
• ESCMID Study Group for Epidemiological Markers – ESGEM
• ESCMID Study Group for Genomic and Molecular Diagnostics – ESGMD

Course Coordinators
Paul Savelkoul, Maastricht, Netherlands
Course Programme

Wednesday, 17 January 2018

09:00 Registration
09:45 Welcome.
10:00 Real-time PCR.
10:30 Quantitation.
11:00 Pre-PCR processing.
11:30 Primer/probe design – do’s and don’ts.
12:00 Lunch break
13:30 Parallel interactive workshop 1: PCR – Basics/PCR for starters/case reports.
13:30 Parallel interactive workshop 2: PCR – Advanced/experienced PCR/case reports.
15:30 Nucleic acid extraction.
15:30 Parallel interactive workshop 3: Clinical aspects & interpretation of MDx results.
17:00 Short presentations about new developments by companies
17:00 Drinks and snacks

Thursday, 18 January 2018

09:00 Highlights of interactive workshops day 1.
09:30 Molecular typing for infection control.
10:00 Upscaling molecular diagnostics in an outbreak setting.
10:30 Molecular diagnostics in low resource settings.
11:00 Parallel interactive workshop 5: Typing, resistance and virulence.
11:00 Parallel interactive workshop 6: Setting up a lab from scratch.
12:30 Lunch break
14:00 Next-generation sequencing: Current methods (theory).
14:30 ISO-certification/quality control for molecular diagnostics.
15:00 Parallel workshop 7: CEIVD, regulations and guidelines.
15:00 Parallel workshop 8: Broad-range PCR – clinical interpretation of results.
16:30 Applications of NGS.
17:00 Near bedside MDx applications.
19:00 Social activity

Friday, 19 January 2018

09:00 Highlights of interactive workshops day 2.
09:30 Molecular detection of antimicrobial resistance.
10:00 MALDI-TOF-MS.
11:00 Parallel interactive workshop 9: Molecular diagnostics – when to use (commercial vs in-house).
11:00 Parallel interactive workshop 10: MALDI-TOF and its clinical applications.
12:30 Lean lab flow.
13:00 Future developments in molecular diagnostics.

Organization

Course Venue & Accommodation
Van der Valk Hotel
Nijverheidsweg 35
6237 AL Maastricht
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Registration Procedure
Register now online on the ESCMID website at www.escmid.org/education. Registration deadline is 1 December 2017.

Registration Fee
• EUR 500 for ESCMID members (Full Membership/Young Scientist Membership)
• EUR 600 for all others

The fee includes the course material, lunches, coffees, drinks and the social programme. 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 October 2017. Applicants will be informed about their acceptance by 3 November 2017.

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