Contact

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Target Audience
Up to 35 clinical microbiologists with an interest in antimicrobial susceptibility testing, surveillance and antibiotic therapy.

Faculty Members
Agnes Anders, Bochum, Germany
Petra Apfalter, Linz, Austria
Maiken Cavling Arendrup, Copenhagen, Denmark
Martina Cremanns, Bochum, Germany
Oskar Ekeland, Växjö, Sweden
Susanne Friedrich, Bochum, Germany
Sören Gatermann, Bochum, Germany
Christian Giske, Stockholm, Sweden
Anna Goer, Bochum, Germany
Gunnar Kahlmeter, Växjö, Sweden
Lenart Marlinghaus, Bochum, Germany
Luis Martinez-Martinez, Córdoba, Spain
Erika Matuschek, Växjö, Sweden
Johan W. Mouton, Nijmegen, Netherlands
Niels Pfenninger, Bochum, Germany
Mathias Pletz, Jena, Germany
Jennifer Schauer, Bochum, Germany
John Turnidge, Adelaide, Australia

Course Objectives
• Explain the process of EUCAST breakpoint definition
• Understand the rationale for EUCAST clinical breakpoints including the PK/PD approach and explain implementation of EUCAST breakpoints
• Perform antimicrobial susceptibility testing by dilution, diffusion and automatic techniques with a EUCAST perspective and explain differences from the CLSI approach
• Understand the application of EUCAST expert rules for antimicrobial susceptibility testing and their clinical implications
• Explain antimicrobial surveillance systems (public versus private) and benefits for establishment of antimicrobial guidelines and the design of antibiotic policies
• Understand the importance of epidemiological cut-off values (ECOFFs) and clinical breakpoints in antimicrobial resistance surveillance systems
• Understand how ECOFFs are determined

ESCMID Postgraduate Technical Workshop
Antimicrobial Susceptibility Testing and Surveillance: from Laboratory to Clinic. A EUCAST, ESGARS and EPASG Perspective
Bochum, Germany 25 – 28 September 2018
Course Programme

Tuesday, 25 September 2018
15:00 Arrival, registration
15:30 Welcome and presentation of the course. Christian Giske, Johan W. Mouton, Gunnar Kahlmeter, Sören Gatermann
15:40 EUCAST in Europe and beyond. Christian Giske
16:10 Wild-type MIC distributions and ECOFFs. Gunnar Kahlmeter
16:50 Setting breakpoints for EUCAST. Johan W. Mouton
17:30 Why EUCAST instead of CLSI? John Turnidge
17:50 Are EUCAST breakpoints valid for all patients? Johan W. Mouton
19:00 Welcome dinner

Wednesday, 26 September 2018
09:00 Quality assurance of susceptibility testing. Enika Matsuschek
09:40 Phenotypic detection of resistance mechanisms against β-lactams in Gram-negative microorganisms. Niels Pfennigwerth
10:20 Break
10:45 Antimicrobial susceptibility testing: manual methods. Enika Matsuschek
11:15 EUCAST rapid AST and AST by automated systems. Oskar Ekelund
11:45 The value of national and international surveillance systems in the epidemiology of antimicrobial resistance. Luis Martinez-Martinez
12:30 Lunch
13:30 Laboratory session. Niels Pfennigwerth, Susanne Friedrich, Lennart Marlinghaus, Anna Goer, Agnes Anders, Jennifer Schauer, Martina Creemann
• Microdilution
• Gradient tests
• Disk diffusion
• Automated systems
• Detection of resistance mechanisms

Thursday, 27 September 2018
09:00 EUCAST expert rules. Sören Gatermann
09:40 Genotypic methods for detection of resistance mechanisms. Niels Pfennigwerth
10:20 Break
10:45 Susceptibility testing of fungi. Maiken Cavling Arendrup
11:20 Clinical impact of susceptibility tests and resistance mechanisms. Matthias Pletz
12:00 Lunch
13:00 Laboratory session. Niels Pfennigwerth, Susanne Friedrich, Lennart Marlinghaus, Anna Goer, Agnes Anders, Jennifer Schauer, Martina Creemann
• Microdilution
• Gradient tests
• Disk diffusion
• Automated systems
• Detection of resistance mechanisms

Friday, 28 September 2018
09:00 Decision to switch to EUCAST: How to convince your country and how to reorganize your lab. Petra Apfalter
10:00 Break
10:30 Presentation and discussion of laboratory experiments conducted by the attendees
12:30 Closing and farewell lunch

Organization

Course Venue
Ruhr Universität
Universitätstrasse 150
Mensa, conference room TG 1
44801 Bochum, Germany

Registration Procedure
Register now online on the ESCMID website at www.escmid.org/education. Registration deadline is 17 August 2018.

Registration Fee
EUR 500 for ESCMID members (Full Membership/Young Scientist Membership)
EUR 800 for all others

The registration fee includes the educational material, lab material, handouts, lunches, coffee breaks and the welcome dinner. 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 6 July 2018. Applicants will be informed about their acceptance by 20 July 2018.

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