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

Faculty Members
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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

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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
15:40 Wild-type MIC distributions and ECOFFs.
Gunnar Kahlmeter
16:10 Setting breakpoints for EUCAST.
Johan W. Mouton
16:30 Why EUCAST instead of CLSI?
John Turnidge
16:50 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.
Enka Matuschek
10:00 Break
10:45 Antimicrobial susceptibility testing: manual methods.
Enka Matuschek
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 Cremanns
• Microdilution
• Gradient tests
• Disk diffusion
• Automated systems
• Detection of resistance mechanisms

Thursday, 27 September 2018

09:00 EUCAST expert rules.
Sören Gatermann
10:20 Break
10:45 Susceptibility testing of fungi.
Maiken Covling Arendrup
11:20 Clinical impact of susceptibility tests and resistance mechanisms.
Mathias Pletz
12:00 Lunch
13:00 Laboratory session.
Niels Pfennigwerth, Susanne Friedrich,
Lennart Marlinghaus, Anna Goer,
Agnes Anders, Jennifer Schauer,
Martina Cremanns
• 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 Appfalter
10:00 Break
10:30 Presentation and discussion of laboratory experiments conducted by the attendees
12:30 Closing and farewell lunch