Target Audience
Max. 35 clinical microbiologists with an interest in antimicrobial susceptibility testing, surveillance and antibiotic therapy. Representatives from National Antimicrobial Committees (NACs) will have priority over other applicants for participation in this course (a letter supporting the application from the President or Secretariat of the corresponding NAC will be necessary to demonstrate this representation).

Faculty Members
Agnes Anders, Bochum, Germany
Petra Apfalter, Linz, Austria
Derek Brown, Peterborough, United Kingdom
Rafael Canton, Madrid, Spain
Maiken Cavling Arendrup, Copenhagen, Denmark
Susanne Friedrich, Bochum, Germany
Sören Gatermann, Bochum, Germany
Christian Giske, Stockholm, Sweden
Martin Kaase, Bochum, Germany
Gunnar Kahlmeter, Växjö, Sweden
Anja Kaminiski, Bochum, Germany
Miriam Kortebewanger, Bochum, Germany
Michael Kresken, Rheinbach, Germany
Felix Lange, Bochum, Germany
Lennart Marinhuus, Bochum, Germany
Luis Martinez-Martinez, Santander, Spain
Erika Matuschek, Växjö, Sweden
Johan W. Mouton, Nijmegen, Netherlands
Niels Pfennigwerth, Bochum, Germany
Jesús Rodríguez-Baño, Seville, Spain
Marc Struelens, Stockholm, Sweden

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Scientific picture inside: ESBL synergy test
Picture outside: Aerial photograph of the University of Bochum, © RUB, Marquard

Contact

ESCMID Postgraduate Technical Workshop
Antimicrobial Susceptibility Testing and Surveillance: from Laboratory to Clinic. A EUCAST, ESGARS and EPASG Perspective
Bochum, Germany
20 – 23 September 2016

Organizers
• The European Committee on Antimicrobial Susceptibility Testing (EUCAST)
• ESCMID Study Group for Antimicrobial Resistance Surveillance (ESGARS)
• ESCMID PK/PD of Anti-Infectives Study Group (EPASG)

Course Coordinators
• Sören Gatermann, Bochum, Germany
• Christian Giske, Stockholm, Sweden
• Johan W. Mouton, Nijmegen, Netherlands

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
<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Event</th>
<th>Speaker(s)</th>
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</thead>
<tbody>
<tr>
<td>Tuesday, 20 Sept</td>
<td>15:00</td>
<td>Arrival/registration</td>
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<tr>
<td></td>
<td>15:30</td>
<td>Welcome and presentation of the course.</td>
<td>Christian Giske, Johan W. Mouton, Gunnar Kahlmeter &amp; Sören Gatermann</td>
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<tr>
<td></td>
<td>15:40</td>
<td>EUCAST in Europe and beyond.</td>
<td>Christian Giske</td>
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<td></td>
<td>16:10</td>
<td>Wild-type MIC distributions and ECOFFs.</td>
<td>Gunnar Kahlmeter</td>
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<td></td>
<td>16:50</td>
<td>Setting breakpoints for EUCAST.</td>
<td>Johan W. Mouton</td>
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<td></td>
<td>17:30</td>
<td>Why EUCAST instead of CLSI?</td>
<td>Derek Brown</td>
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<tr>
<td></td>
<td>17:50</td>
<td>Are EUCAST breakpoints valid for all patients?</td>
<td>Johan W. Mouton</td>
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<td>19:00</td>
<td>Welcome dinner</td>
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<tr>
<td>Wednesday, 21 Sep</td>
<td>09:00</td>
<td>Quality assurance of susceptibility testing</td>
<td>Derek Brown</td>
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<tr>
<td></td>
<td>09:40</td>
<td>Phenotypic detection of resistance mechanisms against beta-lactams in Gram-negative microorganisms.</td>
<td>Martin Kaeae</td>
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<td>10:20</td>
<td>Break</td>
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<tr>
<td></td>
<td>10:45</td>
<td>Antimicrobial susceptibility testing: manual methods.</td>
<td>Eniko Matuschei</td>
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<tr>
<td></td>
<td>11:15</td>
<td>Antimicrobial susceptibility testing: automatic systems.</td>
<td>Rafael Cantón</td>
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<tr>
<td></td>
<td>11:45</td>
<td>The value of national and international surveillance systems in the epidemiology of antimicrobial resistance.</td>
<td>Luis Martinez-Martinez</td>
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<td></td>
<td>12:30</td>
<td>Lunch</td>
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<td></td>
<td>18:00</td>
<td>End of the day</td>
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<tr>
<td>Thursday, 22 Sept</td>
<td>09:00</td>
<td>EUCAST expert rules.</td>
<td>Sören Gatermann</td>
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<tr>
<td></td>
<td>09:40</td>
<td>Genotypic methods for detection of resistance mechanisms.</td>
<td>Niels Pfennigwerth</td>
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<td>10:20</td>
<td>Break</td>
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<tr>
<td></td>
<td>10:45</td>
<td>Susceptibility testing of fungi.</td>
<td>Maiken Cavling Arenstrup</td>
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<tr>
<td></td>
<td>11:20</td>
<td>Is report as tested the appropriate strategy in the face of carbapenemases and ESBL?</td>
<td>Jesus Rodriguez-Baño</td>
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<td>12:30</td>
<td>Lunch</td>
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<td></td>
<td>13:30</td>
<td>Laboratory session (follow-up from Wednesday)</td>
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<td>18:00</td>
<td>End of the day</td>
<td></td>
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<tr>
<td>Friday, 23 Sept</td>
<td>09:00</td>
<td>Decision to switch to EUCAST: how to convince your country and how to reorganize your lab?</td>
<td>Petra Affalter</td>
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<td>10:00</td>
<td>Break</td>
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<td>10:30</td>
<td>How EUCAST guidance strengthens surveillance of antimicrobial resistance in the European Union: the ECDC perspective.</td>
<td>Marc Struelens</td>
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<tr>
<td></td>
<td>11:00</td>
<td>Presentation and discussion of laboratory experiments conducted by the attendees</td>
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<td></td>
<td>12:30</td>
<td>Closing and farewell lunch</td>
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</tbody>
</table>

**Course Venue**
Ruhr University Bochum
Mensa, conference room TG I
Universitätsstr. 150
44801 Bochum
Germany

**Organization**

**Course Venue**
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44801 Bochum
Germany

**Registration Procedure**
Register now online on the ESCMID website at www.escmid.org/education.
Registration deadline is 19 August 2016.

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

The fee includes educational material, lab material, handouts, lunch, 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 8 July 2016. Applicants will be informed about their acceptance by 22 July 2016.

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