



Target Audience

30 – 35 clinical microbiologists with an interest in antimicrobial susceptibility testing and surveillance. Representatives from National Antimicrobial Committees will have preference over other applicants for participation in this PGEC.

Faculty Members

Lecturers

- Derek Brown, Peterborough, UK
- Rafael Cantón, Madrid, ES
- Emmanuelle Cambau, Paris, FR
- Giuseppe Cornaglia, Verona, IT
- Christian Giske, Stockholm, SE
- Gunnar Kahlmeter, Vaxjo, SE
- Luis Martínez-Martínez, Santander, ES
- Johan W. Mouton, Nijmegen, NL
- Álvaro Pascual, Seville, ES
- Arne Rodloff, Leipzig, DE
- Gian Maria Rossolini, Siena, IT

Practical, Laboratory Sessions

- Maria-Isabel Morosini, Madrid, ES
- Erika Matuschek, Vaxjo, SE
- Carlos Ruiz de Alegría, Santander, ES
- Patricia Ruiz-Garbajosa, Madrid, ES

Contact

Contact Persons (educational programme):

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Administrative Secretariat

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Picture inside:

EUCAST disk diffusion test for routine antimicrobial susceptibility testing.
Picture courtesy of ESCMID.



ESCMID Postgraduate Education Course

Antimicrobial Susceptibility Testing and Surveillance: from Laboratory to Clinic

Organizers

This course is jointly organized by the European Committee on Antimicrobial Susceptibility Testing (EUCAST) and the ESCMID Study Group for Antimicrobial Resistance Surveillance (ESGARS).

Course Coordinators

EUCAST Derek Brown, Peterborough, UK
Rafael Cantón, Madrid, ES
Gunnar Kahlmeter, Vaxjo, SE

ESGARS Giuseppe Cornaglia, Verona, IT
Luis Martínez-Martínez, Santander, ES
Gian Maria Rossolini, Siena, IT

Course Objectives

- Explain the current process of EUCAST breakpoint definition, understand the rationale for EUCAST breakpoints 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
- Explain antimicrobial surveillance systems (public versus private) and benefits for establishment of antimicrobial guidelines and the design of antibiotic policies
- Understand the importance of breakpoints in antimicrobial resistance surveillance systems

Course Programme

Lectures

Monday, 27 September 2010, 15:00 – 18:15

- European (EUCAST) breakpoint setting and harmonization. Gunnar Kahlmeter
- Breakpoints. EUCAST or CLSI? Derek Brown
- Importance of PK/PD data in the process of setting breakpoints. Johan W. Mouton
- Anaerobes: breakpoints and surveillance. Arne Rodloff

Tuesday, 28 September 2010, 9:00 – 12:45

- Antimicrobial susceptibility testing: diffusion methods. Gunnar Kahlmeter
- Antimicrobial susceptibility testing: dilution methods. Luis Martínez-Martínez
- Quality assurance of susceptibility testing. Derek Brown
- Phenotypic methods for detection of resistance mechanisms. Christian Giske
- EUCAST expert rules. Christian Giske

Wednesday, 29 September 2010, 9:00 – 12:45

- Antimicrobial susceptibility testing: automatic systems. Rafael Cantón
- Emerging problems in susceptibility testing of Gram-negatives. Gian Maria Rossolini
- Emerging problems in susceptibility testing of Gram-positives. Rafael Cantón
- Surveillance of Gram-negatives with low-level resistance mechanisms. Álvaro Pascual
- Surveillance of Gram-positives with low-level resistance mechanisms. Emmanuelle Cambau

Thursday, 30 September 2010, 9:00 – 10:20

- Genotypic methods for detection of resistance. Luis Martínez-Martínez
- Surveillance – public versus private. Giuseppe Cornaglia

Practical, Laboratory Sessions

Tuesday and Wednesday 13:45 – 17:45;

Thursday 10:45 – 13:30

- International Standards Organization (ISO) microdilution and other dilution techniques
- Diffusion techniques (disk diffusion and gradient strips)
- Automated systems for antimicrobial susceptibility testing
- Tests for specific resistance mechanisms (ESBLs, AmpC, carbapenemases, hVISA, etc.)
- Epidemiological surveillance computer programmes
- Computer expert programmes

Organization

Course Venue

Microbiology Department, School of Pharmacy,
Complutense University, Madrid, Spain

Registration Procedure

The registration form can be found on the ESCMID website at www.escmid.org/education. Please return it to the course administrative secretariat by 15 July 2010.

Registration Fee

EUR 500 for ESCMID members
EUR 750 for all others.

The fee includes the laboratory materials and protocols, lunch at the university and social events.

Attendance Grants

ESCMID provides a number of attendance grants for young attendees (up to 40 years) covering the registration fee, but not travel or accommodation costs. Please apply via the ESCMID website at www.escmid.org/education before 15 July 2010. If there are more applicants than available grants, preference will be given to ESCMID members. Applicants will be informed about their acceptance by 31 July 2010.