



Target Audience

Up to 50 clinical microbiologists, infectious diseases specialists or other healthcare professionals involved in management of infections due to carbapenem- and colistin-resistant Gram-negatives, such as *Acinetobacter baumannii*, *Klebsiella pneumoniae* and *Pseudomonas aeruginosa*.

Faculty Members

Anastasia Antoniadou, Athens, Greece
Alexander W. Friedrich, Groningen, The Netherlands
Tommaso Giani, Siena, Italy
Paul Higgins, Cologne, Germany
Surbhi Malhotra-Kumar, Antwerp, Belgium
Luis Martínez-Martínez, Cordoba, Spain
Joseph Meletiadis, Athens, Greece
Jacob Moran-Gilad, Beer Sheva, Israel
Antonio Oliver, Palma, Spain
Angeliki Poulou, Serres, Greece
Spyros Pournaras, Athens, Greece
Laurent Poirel, Fribourg, Switzerland
Gian-Maria Rossolini, Florence, Italy
Harald Seifert, Cologne, Germany
Bhanu Sinha, Groningen, The Netherlands
Sophia Vourli, Athens, Greece

Contact

Contact Person (Scientific Programme)

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MANAGING INFECTIONS
PROMOTING SCIENCE

ESCMID Postgraduate
Education Course

Phenotypic and Molecular approaches for Detection and Control of Carbapenem- and Colistin- resistant Gram-negatives

Volos, Greece
23 – 24 May 2019



ESCMID Postgraduate
Education Course

Phenotypic and Molecular approaches for Detection and Control of Carbapenem- and Colistin- resistant Gram-negatives

Organizers

- ESCMID Study Group for Antimicrobial Resistance Surveillance – ESGARS
- ESCMID Study Group for Genomic and Molecular Diagnostics – ESGMD

Course Coordinators

- Surbhi Malhotra-Kumar, Antwerp, Belgium
- Jacob Moran-Gilad, Beer Sheva, Israel
- Spyros Pournaras, Athens, Greece

Course Objective

Nosocomial infections due to multidrug-resistant Gram-negative pathogens currently represent a very significant public health issue in most countries worldwide. Particularly challenging are the diagnostic and treatment aspects of carbapenem- and/or colistin-resistant infections. In that respect, the prompt diagnosis of infections due to such pathogens and the accurate detection of their antibiotic resistance status are very important for the clinical microbiological laboratories.

This Postgraduate Educational Course will comprise state-of-the-art lectures dealing with phenotypic and molecular diagnostic approaches of multi-resistant nosocomial bugs, emphasizing on carbapenem- and colistin-resistant Gram-negatives, such as *Acinetobacter baumannii*, *Klebsiella pneumoniae* and *Pseudomonas aeruginosa*.

Course Programme

Thursday, 23 May 2019

- 09:00 Arrival and registration
09:30 Welcome and presentation of the course
Surbhi Malhotra Kumar, Spyros Pournaras, Jacob Moran-Gilad
10:00 Resistance genes/phenotypes of ESBL-producing Enterobacterales
Luis Martínez-Martínez
10:30 Resistance genes/phenotypes of carbapenem- and colistin-resistant Enterobacterales
Surbhi Malhotra Kumar
11:00 Coffee break
11:30 Resistance genes/phenotypes of carbapenemase-producing and/or colistin-resistant *A. baumannii*
Paul Higgins
12:00 Resistance genes/phenotypes of carbapenem-resistant *P. aeruginosa*
Antonio Oliver
12:30 Lunch
13:30 Global dissemination of Carbapenemase-producing Gram-negatives
Gian-Maria Rossolini
14:00 Global Epidemiology of Clinical Infections due to Carbapenemase-producing Enterobacterales
Anastasia Antoniadou
14:30 Global Epidemiology of Clinical Infections due to Carbapenemase-producing *A. baumannii* and *P. aeruginosa*
Harald Seifert
15:00 Coffee break
15:30 Phenotypic detection of Beta-Lactam and carbapenem resistance mechanisms in Gram-negative pathogens
Angeliki Poulou

- 16:00 Limitations of colistin resistance detection in Gram-negative pathogens
Spyros Pournaras
16:30 PK/PD applications for the estimation of carbapenem and colistin activity against multi-resistant Enterobacterales
Joseph Meletiadis
17:00 Questions and answers
17:30 End of Day 1

Friday, 24 May 2019

- 09:30 Active surveillance cultures for the control of carbapenem- and colistin-resistant Gram-negatives
Tommaso Giani
10:00 Automated molecular systems for the surveillance of carbapenem-resistant Gram-negatives
Sophia Vourli
10:30 The role of rapid diagnostics for antimicrobial stewardship and clinical consulting
Bhanu Sinha
11:30 Coffee break
12:00 Infection control strategies for Infections due to Carbapenemase-producing Enterobacterales
Anastasia Antoniadou
12:30 Infection control strategies for Infections due to Carbapenemase-producing *A. baumannii*
Harald Seifert
13:00 Syndromic panel-based molecular diagnostics for the detection of carbapenem-resistant Gram-negatives
Gian-Maria Rossolini
13:30 Lunch

- 14:30 Determining MDR-genotype links using WGS Resistome analysis
Paul Higgins
15:00 Application of NGS to studying colistin resistance mechanisms in Gram-negative bacteria
Surbhi Malhotra Kumar
15:30 Use of WGS of carbapenem-resistant Gram-negatives for the implementation of interventional microbiology
Alexander W. Friedrich
16:00 Resistance detection in metagenomic samples
Jacob Moran-Gilad
16:30 Questions and answers
17:00 Concluding remarks and farewell
Surbhi Malhotra Kumar, Spyros Pournaras, Jacob Moran-Gilad
17:30 End of the Course



Organization

Course Venue

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Registration Procedure

Register online at the ESCMID website at www.escmid.org/education. The registration deadline is 16 April 2019.

Registration Fee

- EUR 500 for ESCMID members
- EUR 600 for all others

The registration fee includes the scientific sessions, teaching material, coffee breaks and lunches; travel and accommodation will not be included.

Attendance Grants

ESCMID provides a number of attendance grants for ESCMID “young scientist members”. The grant covers the registration fee, but not travel or accommodation costs. Please apply via the ESCMID website at www.escmid.org/education before 16 March 2019. Applicants will be informed about their acceptance by 30 March 2019.

CME Accreditation

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