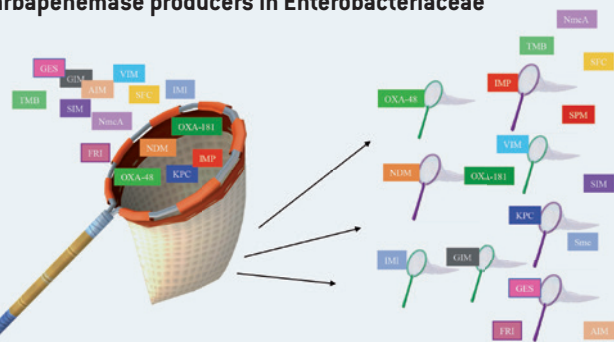


Strategy for rapid identification of carbapenemase producers in Enterobacteriaceae



1. Biochemical identification

2. Molecular biology

Target Audience

Full course (including afternoon practical): 30 clinical microbiologists and infectious disease specialists, industry partners.

Mini course (morning lectures only, without afternoon practical): 60 clinical microbiologists and infectious disease specialists, industry partners.

Faculty Members

Sandra Asner, Lausanne, Switzerland
Thierry Calandra, Lausanne, Switzerland
Giuseppe Cornaglia, Verona, Italy
Bruno Fantin, Clichy, France
Christian G. Giske, Stockholm, Sweden
Gilbert Greub, Lausanne, Switzerland
Patrice Nordmann, Fribourg, Switzerland
Laurent Poirel, Fribourg, Switzerland
Céline Pulcini, Nancy, France
Roger Stephan, Zurich, Switzerland
Andreas F. Widmer, Basel, Switzerland

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Scientific picture inside: Strategy for rapid identification of carbapenemase producers by using biochemical physico techniques.

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Scientific picture outside: Strategy for rapid identification of extended-spectrum beta lactamase (ESBC) in Gram-negative bacteria.

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ESCMID Postgraduate Technical Workshop

Emerging Antibiotic Resistance in Gram-Negative Bacteria: Problems and Solutions

Fribourg, Switzerland
14 – 15 September 2017

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ESCMID Postgraduate Technical Workshop

Emerging Antibiotic Resistance in Gram-Negative Bacteria: Problems and Solutions

Organizers

- ESCMID Study Group for Antimicrobial Resistance Surveillance – ESGARS
- University of Fribourg, Fribourg, Switzerland

Course Coordinator

- Patrice Nordmann, Fribourg, Switzerland

Course Objectives

Multidrug-resistant Gram-negative bacteria are steadily increasing worldwide, approaching or even attaining the endemicity threshold in many countries. This course will offer the latest knowledge in this infectious disease field from genetics, epidemiology, detection of infected carriers, and treatment of infections due to those MDR bacteria. The course will focus on resistance of the most important antibiotics for treating Gram-negative bacteria such as expanded-spectrum cephalosporins, carbapenems, extended-spectrum aminoglycosides and polymyxins. Practical lab demonstrations will complement the lectures for learning the most modern and diagnostic techniques for rapid identification of those MDR bacteria in clinical microbiology.

Course Programme

Thursday, 14 September 2017

- 09:45 Welcome. *Patrice Nordmann*
10:00 ESBL-producing Enterobacteriaceae. *Christian G. Giske*
10:30 Discussion
10:40 Carbapenemase-producing bacteria: epidemiology. *Giuseppe Cornaglia*
11:00 Carbapenemase-producing bacteria: genetic transmission. *Laurent Poirel*
11:20 Discussion
11:30 Pan-aminoglycoside resistance. *Patrice Nordmann*
12:00 Discussion
12:10 Lunch
14:00 Polymyxin resistance. *Laurent Poirel*
14:30 Discussion
14:40 Genomics for analyzing antibiotic-resistant bacteria. *Gilbert Greub*
15:10 Discussion
15:20 Emerging antibiotic resistance in the environment and in animals. *Roger Stephan*
15:40 Discussion
15:50 Coffee break
16:10 Rapid diagnostics of emerging antibiotic resistances. *Patrice Nordmann*
16:40 Discussion

Friday, 15 September 2017

- 08:45 Animal models of infections with antibiotic-resistant bacteria. *Bruno Fantin*
09:15 Discussion
09:25 Isolation and decontamination of colonized patients with antibiotic-resistant Gram-negatives. *Andreas F. Widmer*
09:55 Discussion
10:05 Coffee break
10:20 Treatment of infections due to antibiotic-resistant bacteria. *Céline Pulcini*
10:40 Discussion
10:50 Novel antibiotic molecules. *Sandra Asner*
11:20 Novel non-antibiotic-based strategies. *Thierry Calandra*
11:50 Discussion
12:00 Lunch
13:00 Practical lab: rapid diagnostic tests and screening techniques for detection of emerging antibiotic-resistant bacteria
 - ESBL-producing bacteria
 - Carbapenemase-producing bacteria
 - Polymyxin-resistant Enterobacteriaceae
 - Pan-aminoglycoside resistant bacteria
16:30 End of meeting

Organization

Course Venue

University of Fribourg
Albert Gockel 3
1700 Fribourg, Switzerland

Registration Procedure

Register now online on the ESCMID website at www.escmid.org/education. Registration deadline is 15 July 2017.

Registration Fee

Package 1 (theoretical teaching and practical lab)
EUR 600 for ESCMID members
(Full Membership/Young Scientist Membership)
EUR 700 for all others

The registration fee covers the teaching material (handout, laboratory materials), lunches, coffee breaks and one social dinner. Travel and accommodation are not included.

Package 2 (theoretical teaching only)

EUR 500 for ESCMID members
(Full Membership/Young Scientist Membership)
EUR 600 for all others

The registration fee covers the teaching material (handout), lunches, coffee breaks and one social 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 (package 1). Travel and accommodation are not included. Please apply via the ESCMID website at www.escmid.org/education before 16 June 2017. Applicants will be informed about their acceptance by 30 June 2017.

CME Accreditation

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

