



Target Audience

15 – 30 clinical microbiologists and infectious disease specialists.

Faculty Members

Bernard Amphoux, Marseille, France
Marielle Bedotto, Marseille, France
Jean-Michel Berenger, Marseille, France
Idir Bitam, Algiers, Algeria
Philippe Brouqui, Marseille, France
Xavier de Lamballerie, Marseille, France
Michel Drancourt, Marseille, France
Christophe Flaudrops, Marseille, France
Pierre-Edouard Fournier, Marseille, France
Gilbert Greub, Lausanne, Switzerland
Jean-Christophe Lagier, Marseille, France
Amel Letaief, Sousse, Tunisia
Oleg Mediannikov, Marseille, France
Nadjet Mouffok, Oran, Algeria
Philippe Parola, Marseille, France
Jean-Yves Patrice, Marseille, France
Didier Raoult, Marseille, France
Catherine Robert, Marseille, France
Jean-Marc Rolain, Marseille, France
Cristina Socolovschi, Marseille, France

Contact

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Scientific picture outside: *Rickettsia conorii* cultivated within endothelial cells.



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ESCMID Postgraduate
Education Course

Practical Diagnosis of Arthropod-Borne Infections

Marseille, France
17 – 19 March 2014



ESCMID Postgraduate
Education Course

Practical Diagnosis of Arthropod-Borne Infections

Organisers

- ESCMID Study Group for *Coxiella*, *Anaplasma*, *Rickettsia* and *Bartonella* (ESCAR)
- Institut Hospitalo-Universitaire Méditerranée-Infection, Marseille, France
- Eurotravnet Coordinating Center ECDC, Marseille, France

Course Coordinator

Pierre-Edouard Fournier, Marseille, France

Course Objectives

Arthropod-borne infections are caused by a variety of bacterial and viral agents, many of which are considered as emerging pathogens. The diagnosis of these infections is often delayed as their clinical presentations are diverse and few microbiology laboratories throughout Europe are able to detect and identify these pathogens. This course will teach the participants the various diagnostic aspects of arthropod-borne diseases, including cell culture, molecular detection, MALDI-TOF MS identification, serology, arthropod identification as well as updates on arthropod-borne infections by skilled experts. Lectures presenting state-of-the-art diagnosis and management of these infections will be followed by practical sessions in groups of 5 persons.

Course Programme

Monday, 17 March 2014

- 14:00 Introduction. *A. Letaief* (ESCAR Chairman) and *P.E. Fournier* (Organiser)
14:10 Microbe hunting. *D. Raoult*
15:00 Culturomics, the renewal of culture in Clinical Microbiology. *J. C. Lagier*
15:50 Applications of genomics to the diagnosis of arthropod-borne infections. *P.E. Fournier*
16:40 Break
17:10 Clinical diagnosis of arthropod-borne infections. *P. Parola*

Tuesday, 18 March 2014

- 08:30 Current knowledge on rickettsioses. *A. Letaief*
09:30 Bartonellosis. *J. M. Rolain*
10:30 Break
11:00 Importance of arthropod-borne infections in European travellers. *P. Parola*
12:00 Management of a Q fever outbreak. *G. Greub*
13:00 Lunch

Practical sessions [groups of 5 persons]:

Diagnosis of tick-borne infections from clinical specimens

- 14:00 Inoculation eschar, biopsy or swab? *N. Mouffok*
14:30 Cell culture. *J. Y. Patrice*
15:00 Molecular detection. *M. Bedotto*
15:40 Identification of bacterial isolates by MALDI-TOF MS. *C. Flaudrops*
16:00 Break

- 16:30 Identification of bacterial isolates by PCR / sequencing. *C. Robert*
17:00 Preparation of IFA slides. *O. Mediannikov*
17:40 Western blot in arthropod-borne infections. *B. Amphoux*
19:30 Gala dinner

Wednesday, 19 March 2014

- 08:30 Are ticks vectors of chlamydiae? *G. Greub*
09:30 *Yersinia pestis*, an infection of the past? *M. Drancourt*
10:30 Break
11:00 Tick-borne encephalitis and other tick-transmitted viruses. *X. de Lamballerie*
12:00 Louse-borne infections: Impact of resistance to insecticides. *P. Brouqui*
13:00 Lunch

Practical sessions [groups of 5 persons]:

Diagnosis of arthropod-borne infections from arthropods

- 14:00 Phenotypic identification of arthropods. *I. Bitam*
15:00 MALDI-TOF MS identification of arthropods. *C. Socolovschi*
15:30 Molecular identification of arthropods. *O. Mediannikov*
16:00 Break
16:30 Dissection of arthropod organs for culture and PCR. *J. M. Berenger*
17:00 Breeding arthropods in the laboratory, experimental infection of arthropods. *J. M. Berenger*

Organisation

Course Venue

Lectures:

Espace Ethique Méditerranéen
Hôpital de la Timone
Bd Jean Moulin
13385 Marseille cedex 5, France

Practical sessions:

Unité des Rickettsies
Faculté de Médecine
27 Bd Jean Moulin
13385 Marseille cedex 5, France

Registration Procedure

Register now online on the ESCMID website at www.escmid.org/education. Registration deadline is 31 December 2013.

Registration Fee

EUR 650 for ESCMID members
EUR 800 for all others

The registration fee includes accommodation for 4 nights (16–20 March 2014), 2 lunches (18–19 March 2014), one dinner (19 March 2014), coffee breaks, printed hand-outs and a CD-ROM with slides of the course. Travel is not included.

Attendance Grants

ESCMID provides a number of attendance grants for ESCMID “young scientist members”. The grant covers the registration fee, but not travel costs. Please apply via the ESCMID website at www.escmid.org/education before 31 December 2013. Applicants will be informed about their acceptance by 14 January 2014.

CME Accreditation

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

