Target Audience
Clinical microbiologists and physicians seeing patients with suspected infections.

Faculty Members
- Alessandro Bartoloni, Florence, Italy
- Catharina Boehme, Geneva, Switzerland (confirmation pending)
- Antonio de Caro, Rome, Italy
- Matt Cotton, Rotterdam, Netherlands
- Roger Hewson, Salisbury, United Kingdom
- Peter Horby, Oxford, United Kingdom
- Marion Koopmans, Rotterdam, Netherlands
- Richard Molenkamp, Rotterdam, Netherlands
- Stefan Niemann, Borstel, Germany
- Eskild Petersen, Muscat, Oman
- Nicola Petrosillo, Aarhus, Denmark
- Oliver Pybus, Oxford, United Kingdom
- Chantal Reusken, Rotterdam, Netherlands
- Gian Maria Rossolini (Florence, Italy)
- John Rossen, Groningen, Netherlands
- Aura Timen, Bithoven, Netherlands

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Course Coordinators
- Alessandro Bartoloni, Florence, Italy
- Nicola Petrosillo, Rome, Italy
- Marion Koopmans, Rotterdam Netherlands

Course Objective
This workshop aims to bridge the gap between advanced diagnostics (such as metagenomics and whole genome sequencing) and clinical practice. The program will include presentation of diagnostic methods and diagnostic strategies, as well as case stories presented by clinicians. The last day is focused on the emergency teams deployed by the WHO in collaboration with the WHO Emerging Diseases Clinical Assessment and Response Network (EDCARN).
Course Programme

Monday, 13 May 2019

The role of clinicians and clinical microbiologists in emerging infectious diseases

09:00 Introduction. Some scope: why this topic, why now, and why this focus?
Marion Koopmans

09:30 Emerging infections as clinical syndromes: experience from ProMED
Eskild Petersen

10:00 Scaling up response during outbreaks
Aurora Timmer

10:30 Coffee Break

11:00 Critical knowledge from clinical research during outbreaks
Peter Horby

11:30 Antimicrobial resistance in developing and developed countries: the clinical perspectives
Alessandro Bartaloni, Nicola Petrosillo

12:00 Lunch

13:00 Detection and surveillance of antimicrobial resistance: from the community to the molecular level
Gian Maria Rossalini

14:30 Surveillance of infections in the European Union
Speaker TBC

15:00 Coffee Break

15:30 Surveillance of infections by the WHO the EDCARN network
Janet V. Diaz

16:00 Presentation of cases by the participants Moderators: Nicola Petrosillo, Marion Koopmans, Alessandro Bartaloni

17:30 End of day

Tuesday, 14 May 2019

The diagnosis of outbreaks and emerging infectious diseases (EID)

08:30 Building the ship while sailing: rapid deployment of diagnostics for EID
Marion Koopmans

08:45 Working with uncertainty: test validation and interpretation during EID outbreaks
Chantal Reusken

09:45 Global response to EID and the design of target product profiles for diagnostics
Catharina Boehme

10:15 Coffee Break

10:45 Laboratory networks working on EID preparedness
Antonino di Cara

11:15 Biosafety and emerging infections
Roger Hewson

11:45 Multiplex PCR and new rapid molecular tests: what can they offer?
Richard Molenkamp

12:15 Lunch

14:00 Novel techniques for preparedness research and outbreak response
John Rossen

14:30 Whole genome sequencing of microorganisms [TE as an example]
Stefan Nienmann

15:30 What is metagenomics, and when to use it?
Matt Cotton

16:00 Break

16:30 When to use serology, and what can it offer?
Chantal Reusken

17:00 The role of real-time sequencing and data sharing during outbreaks
Olivier Pybus

Wednesday 15 May 2019

09:00 WHO Emerging Diseases Clinical Assessment and Response Network (EDCARN)

A session in collaboration with the WHO Emerging Diseases Clinical Assessment and Response Network (EDCARN) team, headed by Dr Janet Diaz.

The session will focus on the qualifications needed for physicians interested in joining the WHO emergency deployment teams in the future.

• EMD representative: to discuss WHO IMS response structure
• Clinical CM pillar: representative to discuss response activities [Janet Diaz, Team Lead, EDCARN]
• IPC CM pillar: representative to discuss response activities (link to Global IPC network)

12:00 Lunch

13:00 GOARN: representative to discuss Global Outbreak Response Network [link to institutional partnerships]
Lab pillar: representative to discuss lab network in response.

15:00 End of workshop: final discussion and evaluation
Alessandro Bartaloni, Nicola Petrosillo, Eskild Petersen, Marion Koopmans

Course Venue

Department of Experimental and Clinical Medicine
University of Florence
Largo Brambilla 3
50134 Florence, Italy
www.dmsc.unifi.it

Registration Procedure

The registration portal can be found on the ESCMID website at www.escmid.org/education. Please register by 15 April 2019.

Registration Fee

• EUR 350 for ESCMID members
• EUR 400 for all others

The fee includes teaching material, coffee breaks, lunches and one dinner. Travel and accommodation 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 or accommodation costs. Please apply via the ESCMID website at www.escmid.org/education before 15 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.