Target Audience
Up to 50 clinical microbiologists of routine and expert labs involved in drug resistance investigation, physicians in charge of patients suffering from MDR-TB or emergent NTM infections, public health officers involved in TB control and surveillance, or in health-acquired infections (HAI) due to NTM.

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Mateja Jankovic, Zagreb, Croatia
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Vincent Jarlier, Paris, France
Vera Katalinic-Jankovic, Zagreb, Croatia
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Christoph Lange, Borstel, Germany
Alberto Matteelli, Brescia, Italy
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Dimitrios Papaventsis, Athens, Greece
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Scientific picture: Mycobacterial infection as shown by smear-positive specimen with acid-fast bacilli. © Emmanuelle Cambau
Course Programme

**Diagnosis of MDR-TB**
- Direct bacteriological TB diagnosis
- Antituberculous agents: mechanisms of action and resistance
- Rapid genotypic detection of resistance
- Whole genome sequencing for detection of resistance traits
- Phenotypic testing for second line antituberculous agents
- Strategies for the detection of multidrug resistance

**Treatment and management of MDR-TB**
- Second line antituberculous agents: principles for use
- Principles for MDR-TB treatment design
- Residual activity of antituberculous agents on strains with resistant traits
- Concept, principles and practice of TB consilium for personalized treatment
- Outcome endpoints and follow-up of patients treated for MDR-TB
- Prevention of side effects and toxicity
- Recurrent and chronic cases
- Specific populations: migrants, co-infections

**Prevention of MDR-TB in population-based conditions**
- Prevention of MDR-TB cross-transmission
- Chemoprophylaxis
- Immunity-based prevention and diagnosis
- Biosafety and security
- Challenges for the TB reference labs [setup, accreditation, management]
- Surveillance of MDR-TB: from region to Europe
- Molecular tools for MDR-TB epidemiology

**Multi-resistant non-tuberculous mycobacteria (NTM)**
- Difficult-to-treat NTM community-acquired infections
- Difficult-to-treat NTM health care-associated infections
- NTM and risks of infections associated with trend behaviour and lifestyle

Organization

ESCMID Postgraduate Education Course

**Difficult-to-Treat Mycobacterial Infections**

**Organizers**
- ESCMID Study Group on Mycobacterial Infections [ESGMYC]
- Croatian Society on Clinical Microbiology of the Croatian Medical Association

**Course Coordinators**
- Emmanuelle Cambau, Paris, France
- Mateja Jankovic, Zagreb, Croatia
- Vincent Jarlier, Paris, France
- Vera Katalinic-Jankovic, Zagreb, Croatia
- Arjana Tambic, Zagreb, Croatia

**Course Objectives**
This course will be devoted to the management of difficult-to-treat mycobacterial infections including MDR- and XDR-TB and emergent non-tuberculous mycobacteria (NTM) infections such as those due to *M. abscessus*, *M. chelonae* and *M. chimaera*. The different problems in diagnosing and treating these infections will be analysed from the technical and organizational aspects including the setting of interprofessional consilium. Clinical microbiologists and physicians specialized in mycobacterial infections will present the specific strategies followed in various epidemiological settings.

**Registration Procedure**
Register now online on the ESCMID website at www.escmid.org/education. Registration deadline is 15 August 2016.

**Registration Fee**
- **Package 1**: EUR 700 for ESCMID members (Full Membership/Young Scientist Membership) EUR 900 for all others
  - The registration fee covers the scientific sessions, course bag and materials, coffee breaks, lunches and welcome reception. Accommodation and travel are not included.
- **Package 2**: EUR 900 for ESCMID members (Full Membership/Young Scientist Membership) EUR 1200 for all others
  - The registration fee covers the scientific sessions, course bag and materials, coffee breaks, lunches, welcome reception, 4 hotel nights (27 – 30 September in single room), dinners (27 – 30 September), local transfers (Split airport – hotel – Split airport) and tourist taxes. Travel is not included.

**Attendance Grants**
ESCMID provides a number of attendance grants for ESCMID “young scientist members”. The grant covers the registration fee (package 2). Travel is not included. Please apply via the ESCMID website at www.escmid.org/education before 15 July 2016. Applicants will be informed about their acceptance by 29 July 2016.

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