Target Audience
15 – 20 young clinical microbiologists, infectious diseases specialists and technicians with an interest in drug-resistant *M. tuberculosis*, who want to get an updated overview of the theoretical and practical aspects of diagnosis and management of drug-resistant tuberculosis.

Faculty Members
Natalie Beylis, Cape Town, South Africa
Tom Boyles, Cape Town, South Africa
Emmanuelle Cambau, Paris, France
Helen Cox, Cape Town, South Africa
Rodney Dawson, Cape Town, South Africa
Nazir Ismael, Johannesburg, South Africa
Christoph Lange, Borstel, Germany
Helen McIlleron, Cape Town, South Africa
Graeme Meintjes, Cape Town, South Africa
Marc Mendelson, Cape Town, South Africa
Mark Nicol, Cape Town, South Africa
Simon Schaaf, Cape Town, South Africa
Rob Warren, Cape Town, South Africa

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Diagnosis and Management of Drug-Resistant Tuberculosis

Organizers
- University of Cape Town, South Africa
- National Health Laboratory Services, South Africa
- ESCMID Study Group for Mycobacterial Infections (ESGMYC)

Course Coordinators
- Marc Mendelson, Cape Town, South Africa
- Mark Nicol, Cape Town, South Africa
- Widaad Zemanay, Cape Town, South Africa

Course Objectives
The aim is to develop a detailed understanding of the laboratory detection and characterization of drug resistance as well as the clinical management of drug-resistant tuberculosis and the interpretation of diagnostic tests used in clinical practice.

Monday, 18 January 2016
Laboratory detection of drug resistance
Practical
- Demonstrations of laboratory tests for drug resistance, including genotypic (line probe assay, Xpert MTB/RIF, rpoB gene sequencing) and phenotypic (MGIT) methods.
- Discussion of the interpretation of complex results including heteroresistance, discordant results, low level resistance and the role of MIC testing.

Lectures
- The global epidemiology of drug-resistant tuberculosis. Helen Cox
- The genetic basis of drug resistance in tuberculosis. Rob Warren
- Strategy in providing microbiological data for a DST-tailored therapeutic regimen in MDR/XDR-TB. Emmanuelle Cambau
- Understanding and resolving discordant laboratory results. Mark Nicol & Natalie Beylis
- Whole genome sequencing for identification of drug resistance. Nazir Ismael

Tuesday, 19 January 2016
Clinical management of drug-resistant tuberculosis
Practical
- Interactive cases will be presented to gain understanding of management issues surrounding MDR-TB and XDR-TB therapy, options for substitution when one or more drugs are contraindicated, management of HIV coinfection, drug-drug interactions, adverse events and monitoring in DR-TB treatment.

Lectures
- Interpreting diagnostic tests for tuberculosis at the bedside. Tom Boyles
- The drug pipeline & new paradigms for TB drug trials. Rodney Dawson
- Pharmacokinetics and pharmacodynamics for optimal dosing in therapy for drug-resistant tuberculosis. Helen McIlleron
- Treatment and prevention of paediatric MDR-TB. Simon Schaaf
- TB consilium for MDR/XDR-TB cases. Christoph Lange
- Severe adverse reactions to second line tuberculosis drugs: how to substitute and rechallenge. Graeme Meintjes

Organization

Course Venue
Faculty of Health Sciences
University of Cape Town
Cape Town, South Africa

Accommodation
Protea Hotel Breakwater Lodge
Portswood Road, V & A Waterfront
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Registration Procedure
Register now online on the ESCMID website at www.escmid.org/education. Registration deadline is 21 December 2015.

Registration Fee
EUR 750 for ESCMID members (Full Membership/Young Scientist Membership)
EUR 850 for all others

The fee includes the scientific sessions (lectures, practicals, workshop material), 2 nights of accommodation (17 and 18 January), coffee breaks, lunches and dinners. For any stays beyond these dates additional bookings shall directly be made to the hotel. Travel is not included.

Attendance Grants
ESCMID provides a number of attendance grants for ESCMID “young scientist members”. The grant covers the registration fee. Travel is not included. Please apply via the ESCMID website at www.escmid.org/education before 2 November 2015. Applicants will be informed about their acceptance by 16 November 2015.

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