Sunday, 01.07.2018

12:00 Registration

14:00-16:00 ESM - Workshop on Host Pathogen Interaction
Chairmen: Susanne Homolka, Daniela Cirillo

Lecture 1: Impact of *M. tuberculosis* complex population diversity on the immune response and the clinical outcome of tuberculosis infection
*Margarida Saraiva*

Lecture 2: Host pathogen interaction: New insights into the origin and risks for the future
*Philip Supply*

Lecture 3: The *Mycobacterium marinum*-zebrafish model to study host-pathogen interactions in tuberculosis
*Francisco J. Roca.*

Lecture 4: Macrophage infection models for *M. tuberculosis* virulence testing
*Susanne Homolka*

16:00-17:00 Symposia organized by Industry

16:00-16:20 Symposium 1: Cepheid
*Tuberculosis screening in Migrants in Germany – the need for a new approach….?*
*Roland Diel*

16:20-16:40 Symposium 2: BD
*Molecular testing including RIF and INH resistance: changing the TB patient pathway*  
*Pre-validation of the BD MAX™ MDR-TB assay for the rapid detection of MTBc DNA and mutations associated with rifampin and isoniazid resistance*  
*Stefan Zimmermann*

16:40-17:00 Symposium 3: Hain Lifescience
Lecture: Is following

17:00-17:30 Coffee break

18:00-18:25 Opening session:
Daniela Cirillo (President of the ESM)  
Antina Ziegelmann (Federal Ministry of Health)  
Stefan Niemann (President of the congress)  
Albert Nienhaus (BGW)

18:25-18:30 Travel Grant Awards

18:30-19:15 Gertrud Meissner Award ceremony
Chairmen: *Daniela Cirillo, Stefan Niemann*

Lecture of the laureate

19:15-19:45 ESM lecture
Chairmen: *Daniela Cirillo, Stefan Niemann*

Lession learned from 20 years *M. tuberculosis* genome research  
*Roland Brosch*

19:45 Welcome reception

20:00 Get Together at the Industry exhibition area, International Congress Center
Monday, 02.07.2018

Morning

9:00-11:00  Innovation in Diagnostics – 1
Chairmen: Katharina Kranzer, Troels Lillebaek

9:00-9:45  Guest lecture 1: Genome based resistance prediction for surveillance
Andrea Cabibbe

9:45-10:15  OP-1: FluoroType MTB VER2.0 shows excellent sensitivity for the detection of Mycobacterium tuberculosis complex in smear negative specimens
Margaretha de Vos

10:00-10:15  OP-2: RNA-based drug susceptibility testing of Mycobacterium tuberculosis
An van den Bossche

10:15-10:30  OP-3: Sources of variation in Whole Genome Sequencing (WGS) analysis of Mycobacterium tuberculosis: international comparison of pipelines
Dick van Soolingen

10:30-11:00  Coffee break

11:00-13:00  Innovation in Diagnostics – 2
Chairmen: Dick van Soolingen, Ramona Groenheit

11:00-11:45  Guest lecture 2: High throughput Microtiter based MIC determination
Daniela Cirillo

11:45-12:00  OP-4: Number of effective drugs in the short course MDR-TB regimen according to standard of care drug susceptibility testing and Whole Genome Sequencing
Lennert Verboven

12:00-12:15  OP-5: Contribution of routine Whole Genome Sequencing of Mycobacterium tuberculosis strains to resistance detection: experience from a French center
Oana Dumitrescu

12:15-12:30  OP-6: Development of the external quality assessment scheme for non-tuberculous Mycobacteria drug susceptibility testing
Vladyslav Nikolayevskyy

12:30-12:45  OP-7: Antibiotic resistance evolution of Mycobacterium tuberculosis - A 12 year M/XDR-TB treatment history
Lindsay Tucker

13:00-14:00  Lunch
Afternoon
14:00-15:00 Poster session

15:00-16:30 TB in vulnerable populations
Chairmen: Annelies Van Rie

15:00-15:45 Guest lecture 3: European Outbreaks of MDR TB – View from the ECDC
Marieke J. van der Werf

15:45-16:00 OP-8: Longitudinal outbreak of multidrug-resistant tuberculosis in a hospital setting in Serbia
Matthias Merker

16:00-16:15 OP-9: Cross-border surveillance of MDR-TB circulation in Europe integrating the analysis of potential reservoirs of MDR-TB in Latin America
Dario Garcia de Viedma

16:15-16:30 OP-10: EUSeqMyTB proposed standards for Whole Genome Sequencing for \( M. \) tuberculosis typing in Europe
Elisa Tagliani

16:30-17:00 Coffee break

17:00-18:30 Special lecture
Chairmen: Stefan Niemann

17:00-17:45 Guest lecture 4: Ancient History of tuberculosis
Albert Zink

17:45-18:00 OP-11: Single-cell live confocal microscopy for monitoring lysosomal acidification induced by different \( M. \) tuberculosis complex lineages during macrophage infection
Paolo Miotto

18:00-18:15 OP-12: Microevolution and fitness modulation of Mycobacterium tuberculosis exposed to rifampicin
Charlotte Genestet

18:15-18:30 OP-13: Genomic determinants of sympatric speciation of the Mycobacterium tuberculosis complex across evolutionary timescales
Iñaki Comas

18:30-20:00 Sight Seeing Tour Dresden

20:00 Traditional Evening at the Pulverturm
Tuesday, 03.07.2018

Morning

09:00-13:00 New treatment concepts - 1
Chairmen: Kathleen Eisenach

09:00-09:45 Guest lecture 5: Reversion of antibiotic resistance in Mycobacterium tuberculosis
Alain Baulard

09:45-10:00 OP-14: Clinical validation of intracellular pharmacodynamic based modelling for the prediction of Fluoroquinolone activity against TB
Samantha Donnellan

10:00-10:15 OP-15: TB-ULTRA, a novel 18-Plex microbead-based method for prediction of second-line drugs and ethambutol resistance in Mycobacterium tuberculosis complex
Bernice Klotoe

10:15-10:30 OP-16: Does prior clofazimine exposure exclude bedaquiline as a treatment option for MDR TB?
Farzana Ismail

10:30-10:45 OP-17: eHealth in Tuberculosis - qualitative and quantitative data from the Netherlands and Romania
Margineanu Ioana

10:45-11:15 Coffee break

11:15-13:00 New treatment concepts - 2
Chairmen: Paolo Miotto, Leen Rigouts

11:15-12:00 Guest lecture 6: Treatment of MDR/XDR TB in a High Incidence Setting
Gunar Günther

12:00-12:15 OP-18: Efficacy and safety of intravenous chemotherapy during intensive treatment phase in patients with newly diagnosed pulmonary tuberculosis
Dmytro Butov

12:15-12:30 OP-19: Pyrazinamide is converted into POA which is active against panD - we propose a model suggesting that this observation can finally explain everything about the unusual activity of pyrazinamide
Richard Anthony

12:30-12:45 OP-20: Acetate mediated activation of DevR dormancy regulon in Mycobacterium tuberculosis by acetyl phosphate metabolic signal
Saurabh Sharma

12:45-13:00 OP-21: Recombinant BCG expressing ESX-1 of M. marinum combines low virulence with cytosolic immune signaling and improved tuberculosis protection
Matthias Groeschel

13:00-14:00 Lunch
Afternoon

14:00-15:00  Poster session

15:00-15:30  Coffee break

15:30-18:00  Population structure and transmission - 1
Chairmen: Michael Cynamon

15:30-16:15  Gardner Middlebrook Award ceremony
Lecture of the laureate

16:15-16:30  OP-22: Whole Genome Sequencing as a tool to quantify local tuberculosis transmission in British Columbia, Canada
Jennifer Guthrie

16:30-16:45  OP-23: The relationship between transmission time and clustering methods in Mycobacterium tuberculosis epidemiology
Conor Meehan

16:45-17:00  OP-24: Transmission dynamics within a major Mycobacterium tuberculosis cluster in the Danish Kingdom spanning 23 years: What does Whole Genome Sequencing add?
Anders Norman

17:00-17:15  OP-25: Utility of Whole Genome Sequencing (WGS) in practice
Rana Jajou

17:15-18:00  General assembly

20:30  Party at the roof terrace of the International Congress Center
Wednesday, 04.07.2018

Morning

09:00-11:00  Population structure and transmission - 2
Chairmen: Matthias Merker, Christophe Sola

09:00-09:45  Guest lecture 8: TB transmission and Health care workers
Albert Nienhaus

09:45-10:00  OP-26: Multidrug resistant *Mycobacterium tuberculosis* strains in Saudi Arabia: Myth, reality and worldwide impact
Sahal Al-Hajoj Al-Nakhli

10:00-10:15  OP-27: Using Whole Genome Sequencing to decode *Mycobacterium tuberculosis*
Transmission: application in a low-burden country
Irving Cancino

10:15-10:30  OP-28: MTBseq: A comprehensive pipeline for whole genome sequence analysis of
*Mycobacterium tuberculosis* complex isolates
Christian Utpatel

10:30-10:45  OP-29: Recurrent tuberculosis in patients infected with a major *Mycobacterium tuberculosis*
outbreak strain in Denmark. New insights gained through Whole Genome Sequencing
Dorte B. Folkvardsen

10:45-11:00  OP-30: Key role of mass migration, as opposite to ordinary human exchange, in global
spread of *M. tuberculosis* strains
Igor Mokrousov

11:00-11:30  Coffee break

11:30-13:30  One health: mycobacteria of veterinary interest
Chairmen: Albert Nienhaus

11:30-12:15  Guest lecture 9: Mycobacteria adapted to Wild and Domestic Animals
Stephen Gordon

12:15-12:30  OP-31: Ecology of *Mycobacterium avium* group
Ivo Pavlik

12:30-12:45  OP-32: Mycobacterial infections in Moravia and Silesia (Czech Republic) region during the years 2012-2016
Vít Ulmann

12:45-13:15  Guest lecture 10: Global *M. chimaera* outbreak - an update
Peter Keller

13:15-13:45  Poster Price awards

13:45-14:00  Closing remarks