

***Symposium: Jorgen Lehmann and Gerhard Domagk event on Mycobacterium tuberculosis: Current concepts of immunity in tuberculosis and their relevance for vaccine development***

09:30 - 12:00

Hall E

Chairs: Hazel M. Dockrell, United Kingdom  
Carlos Martin, Spain

09:30 **Towards new TB vaccines - what are the challenges?**  
Hazel M. Dockrell, United Kingdom

10:00 **Steps ahead in the development of new vaccines against tuberculosis, searching for new attenuated vaccines**  
Carlos Martin, Spain

10:30 **Coffee Break**

11:00 **Mycobacterium marinum can cross the blood-brain barrier via different migration routes**  
Astrid Van der Sar, Netherlands

11:20 **The role of a type VII secretion chaperone in the specific substrate recognition in pathogenic mycobacteria**  
Trang Huong Phan, Netherlands

11:40 **Mycobacterium Leprae (M. Leprae) creates lipid-rich intracellular environment by modulating expression of host genes in infected macrophages**  
Yuqian Luo, Japan

***Roundtable Discussion: Jorgen Lehmann and Gerhard Domagk event on Mycobacterium tuberculosis: Why is a vaccine against MTB so difficult to make?***

13:00 - 14:00

Hall E

Participants:  
Hazel M. Dockrell, United Kingdom  
Carlos Martin, Spain  
Ulrich Schaible, Germany  
Peter Lawaetz Andersen, Denmark

***Workshop: Jorgen Lehmann and Gerhard Domagk event on Mycobacterium tuberculosis: New insights into the pathogenesis of MTB impacting on the host's immune response***

14:30 - 17:00

Hall E

Chairs: Ulrich Schaible, Germany  
Peter Lawætz Andersen, Denmark

14:30 **Overview of recent progress in understanding pathogenesis of MTB and its impact on the immune response**

Ulrich Schaible, Germany

15:00 **TB vaccines; on the role of Th1, memory and immunity in the lung?**

Peter Lawætz Andersen, Denmark

15:30 Coffee Break

16:00 **The role of thiols in protection against oxidative stress in mycobacteria**

Mamta Rawat, USA

16:20 **DEVR dependent synchronization of mycobacterial growth and its effect on mycobacteriophage development**

Prithwiraj Kirtania, India

16:40 **MSMEG\_2433 of mycobacterium smegmatis exhibits both DD-carboxypeptidase and beta-lactamase activities**

Anindya Ghosh, India