

## Tuberculosis Immunology Workshop (Joint meeting with 7th Australia-China Symposium on Community in Tuberculosis)

**Monday, December 4, 2023**

**8:45-9:00** Arrival

**9:00-9:05** Welcome  
Carl Feng (University of Sydney)  
Xinchun Chen (Shenzhen University)

### **9:05 – 10:45 Session 1**

Chair: Bernadette Saunders

**9:05-9:25** **Xiao-Lian Zhang** (Wuhan University): Discovery and pathogenicity and immunological mechanism clarification of mycobacterial critical virulent factors.

**9:25-9:45** **Andreas Kupz** (James Cook University): Insights into the immunological mechanisms underlying reactivation of latent lymphatic tuberculosis.

**9:45-10:00** **Liangdong Lyu** (Fudan University): Mycobacterial DnaQ is an Alternative Proofreader Ensuring DNA Replication Fidelity.

**10:00-10:15** **Yi Cai** (Shenzhen University): SIRT7 induces cytoskeletal remodelling via RAC1 to enhance host resistance to Mtb.

**10:15-10:30** **Lina Daniel** (Sydney University): Remodelling of the lung draining lymph node's structure and function following Mycobacterium tuberculosis infection.

**10:30-10:45** **Xiangmei Zhou** (China Agricultural University): The Role of ManLAM in the Pathogenesis of Mycobacterium Bovis.

*Morning tea*

### **11:15 – 13:00 Session 2**

Chair: Kerry Hilligan

**11:15-11:35** **Gucheng Zeng** (Sun Yat-sen University): TB immune regulation via gut.

**11:35-11:55** **Bernadette Saunders** (University of Technology Sydney): DPP4 Activity as a Biomarker for Tuberculosis Diagnosis and Treatment Monitoring.

**11:55-12:15** **Guoliang Zhang** (Shenzhen Third People's Hospital): Host-directed therapy for tuberculosis by targeting autophagy.

**12:15-12:30** **Erica Stewart** (Centenary Institute): Mucosal immunisation with different tuberculosis vaccines stimulates shared and distinct transcriptional profiles in the lung.

**12:30-12:45** **Qianting Yang** (Shenzhen Third People's Hospital): The local immunity of lung tissue from patients of tuberculosis.

**12:45-13:00** **Bo Yan** (Shanghai Public Health Clinical Center): SLC7A11-Mediated Angiogenesis in Mycobacterial Granulomas Promotes Infection.

*Lunch*

**14:00 –15:05 Session 3**

Chair: Andreas Kupz

**14:00-14:20 Kerry Hilligan** (Malaghan Institute of Medical Research): Intravenous BCG remodels the pulmonary innate compartment for enhanced control of respiratory pathogens.

**14:20-14:40 Jianping Xie** (Southwest University): The role of protein ISGylation in tuberculosis pathogenesis and control

**14:40-15:00 Gergely Toldi** (University of Auckland): Non-specific effects of BCG vaccination: implications on neonatal immune development.

**15:00-15:30 invited presentation**

Introduction: Carl Feng

**Carolyn King** (University of Basel): Immunity to Tuberculosis: Re-evaluating what we think we know.

**15:3-15:40 Closing remarks**

**Warwick Britton** (Centenary Institute)