

**Session Program**

12-17 Jul 2026



**European Conference on Mathematical and Theoretical  
Biology (ECMTB 2026)**

***Mathematical Modelling of Tuberculosis and Nontuberculous  
Mycobacterial Infections: From Model Synthesis to  
Vaccination and Whole-Host Immune Dynamics***

University of Graz

# Wednesday 15 July

11:10

## Mathematical Modelling of Tuberculosis and Nontuberculous Mycobacterial Infections: From Model Synthesis to Vaccination and Whole-Host Immune Dynamics

Session | Location: University of Graz, 02.21 - HS

11:10–11:30 **Whole-host modeling of immune-pathogen interactions during Tuberculosis infection**

**Speaker**

Christian Michael

11:30–11:50

**Agent-Based Modeling of Nontuberculous Mycobacteria Infection In Vivo with Multi-Modal Patient Data Integration**

**Speaker**

Kali Konstantinopoulos

11:50–12:10

**Within-Host Mathematical Models of Tuberculosis: Foundations, Progress, and Future Directions**

**Speakers**

Roselyn Kaondera-Shava, Aminat Yetunde Saula

12:10–12:30

**Mathematical modeling of impact of BCG vaccination on Mycobacterium tuberculosis dynamics in mice**

**Speaker**

Vitaly Ganusov

12:30