

Session Program

12-17 Jul 2026



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

***Recent mathematical discoveries in Population Dynamics,
Ecology and Evolution***

University of Graz

Thursday 16 July

15:10

Recent mathematical discoveries in Population Dynamics, Ecology and Evolution

Session | Location: University of Graz, 15.12 - HS

15:10–15:30 **Mathematical of pre-exposure prophylaxis and the quest to end the HIV epidemic**

Speaker

Abba Gumel

15:30–15:50 **How the Tulips get their Stripes**

Speaker

Thomas Hillen

15:50–16:10 **Changing Connectivity: A Spatial Understanding of Bistable Coral Dynamics**

Speaker

Jennifer Paige

16:10–16:30 **Mathematical Models for evolutionary phenomena during range expansion**

Speaker

Silas Poloni

16:30

Friday 17 July

10:40

Recent mathematical discoveries in Population Dynamics, Ecology and Evolution

Session | Location: University of Graz, 15.11 - HS

10:40–11:00

Mixed Contact–Pheromone Feedback in Ant Foraging: Thresholds, Oscillations, and Multistability

Speaker

Tao Feng

11:00–11:20

Self-organisation through nonlocal movement: patterns and multistability in spatial population models

Speaker

Valeria Giunta

11:20–11:40

Impact of Network Variation on Metapopulation Dynamics

Speaker

Zhisheng Shuai

11:40–12:00

When Systems Tip: Predicting Critical Transitions and Uncovering Frequency-Induced Tipping

Speaker

Shan Gao

12:00