

Session Program

12-17 Jul 2026



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

***Stochastic Dynamics and the Realities of Experimental
Observation***

University of Graz

Thursday 16 July

17:00

Stochastic Dynamics and the Realities of Experimental Observation

Session | Location: University of Graz, 15.06 - HS

17:00–17:20 **Modeling mechanisms of neuronal microtubule dynamics and polarity**

Speaker

Anna Nelson

17:20–17:40 **Three-Dimensional Modeling of Kinesin Mechanics in Optical Traps**

Speaker

Christel Hohenegger

17:40–18:00 **Analyzing Partially Observed Stochastic Epidemic Networks**

Speaker

Grzegorz Rempała

18:00–18:20 **Generative models for particle tracking microscopy**

Speaker

Jay Newby

18:20

Friday 17 July

10:40

Stochastic Dynamics and the Realities of Experimental Observation

Session | Location: University of Graz, 15.06 - HS

10:40–11:20 **Parameter Estimation for ODEs, Curve Registration, and Particle Filtering.**

Speaker

John Fricks

11:20–11:40 **Inferring Regime Changes in Noisy Trajectories via Dendrogram Pruning and Merging**

Speaker

Linh Do

11:40–12:00 **Stochastic fountain dynamics and associated challenges for inference**

Speaker

Scott McKinley

12:00