

**Session Program**

12-17 Jul 2026



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

***Mechanistic Model Inference for Stochastic Single-Cell  
Dynamics***

University of Graz

# Thursday 16 July

17:00

## Mechanistic Model Inference for Stochastic Single-Cell Dynamics

Session | Location: University of Graz, 11.02 - HS

17:00–17:40

### Stochastic Gene Expression: Modeling and Inference from Single-Cell Data

Speaker

Ramon Grima

17:40–18:00

### Clone wars: understanding clonal diversity in resistance to CAR-T cell immunotherapy

Speaker

Adriana Zanca

18:00–18:20

### Detection Noise Renormalizes Apparent Kinetic Rates in Stochastic Gene Regulatory Networks

Speaker

Iryna Zabaikina

18:20

## Friday 17 July

10:40

### Mechanistic Model Inference for Stochastic Single-Cell Dynamics

Session | Location: University of Graz, 11.02 - HS

10:40–11:00

**Neural approximations for models of transcriptional dynamics enable genome-wide parameter inference**

Speaker

Maria Carilli

11:00–11:20

**On (iterated) Schrödinger bridges for inference with prior dynamics**

Speaker

Stephen Zhang

11:20–11:40

**Biophysical generative modeling of cell fate decision-making with single-cell omics data**

Speaker

Victor Chardes

11:40–12:00

**Simulation-free approximate Bayesian computation for stochastic reaction networks and its applications on scRNA-seq data**

Speaker

Zekai Li

12:00