

Session Program

12-17 Jul 2026



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

***Multiscale modelling and simulation of stochastic gene
regulation***

University of Graz

Tuesday 14 July

10:40

Multiscale modelling and simulation of stochastic gene regulation

Session | Location: University of Graz, 15.06 - HS

10:40–11:00 **The role of DNA methylation and DNA sequence in epigenetic plasticity**

Speaker

Elizabeth Read

11:00–11:20

Joint trajectory and gene regulatory network inference using a mechanistic optimal transport-based framework

Speaker

Elias Ventre

11:20–11:40

A domain decomposition approach to the construction of Markov state models for stochastic gene regulatory networks

Speaker

Maryam Yousefian

11:40–12:00

From Simulation to Macroscopic Dynamics: Learning Reaction Coordinates and Sampling Rare Transitions in Stochastic Gene Regulatory Networks

Speaker

Alexander Sikorski

12:00