

Session Program

12-17 Jul 2026



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

***Inferring and designing stochastic biochemical processes at
the single-cell level***

University of Graz

Wednesday 15 July

11:10

Inferring and designing stochastic biochemical processes at the single-cell level

Session | Location: University of Graz, 11.02 - HS

11:10–11:30

Stochastic modeling of horizontal gene transfer via M13 bacteriophages in *E. coli* populations

Speaker

Alexandra Loudieres

11:30–11:50

Variance-reduced Bayesian Inference for Partially Observed Stochastic Processes

Speaker

Hanna Wiederanders

11:50–12:10

DNA replication as a hidden driver of single-cell timing variability

Speaker

Juan David Marmolejo Lozano

12:10–12:30

Unravelling causal interactions of coding and non-coding RNA from genome wide single-cell data

Speaker

William Hilton

12:30