

Session Program

12-17 Jul 2026



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

Reaction Networks in Modern Mathematical Biology

University of Graz

Tuesday 14 July

15:00

Reaction Networks in Modern Mathematical Biology

Session | Location: University of Graz, 11.03 - HS

15:00–15:20 **Thermodynamics of Chemical Reaction Networks: From Circuits to Metabolism**

Speaker

Massimiliano Esposito

15:20–15:40

Hypergraph-based models of random chemical reaction networks: Conservation laws, connectivity, and percolation

Speaker

Nahuel Freitas

15:40–16:00 **Positive algebraic geometry for mathematical biology**

Speaker

Stefan Müller

16:00–16:20

Widespread biochemical reaction networks enable Turing patterns without imposed feedback

Speaker

Tian Hong

16:20

17:00

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17:00–17:40

Genetic recombination, deterministic reaction systems, stochastic partitioning, and Markov embedding

Speaker

Ellen Baake

17:40–18:00 **A Graph grammar view on chemical reaction networks**

Speaker

Christoph Flamm

18:00–18:20 **From Mean Control to Variability Control in Biological Systems**

Speaker

JaeKyoung Kim

18:20