

**Session Program**

12-17 Jul 2026



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

***Dynamical Analysis of Biochemical Reaction Networks***

University of Graz

# Monday 13 July

15:00

## Dynamical Analysis of Biochemical Reaction Networks

Session | Location: University of Graz, 11.02 - HS

15:00–15:20

**Structural classification of chemical reaction networks via visual and algebraic decompositions and its implications to steady state analysis**

**Speaker**

Bryan Hernandez

15:20–15:40

**The polyhedral structure of the disguised toric locus**

**Speaker**

Diego Rojas La Luz

15:40–16:00

**A bimolecular reaction network with chaotic dynamics**

**Speaker**

Josef Hofbauer

16:00–16:20

**Stability and Robustness in Biochemical Networks with Bifunctional Enzymes**

**Speaker**

Matthew Johnston

16:20

17:00

## Dynamical Analysis of Biochemical Reaction Networks

Session | Location: University of Graz, 11.02 - HS

17:00–17:20

**Alternative equations for studying bifurcations in mass action networks**

**Speaker**

Murad Banaji

17:20–17:40

**Biochemical reaction networks: systematic design, limit cycles and properties of Hilbert-like numbers**

**Speaker**

Radek Erban

17:40–18:00

**Exploring the effect of parametric model reduction on the structural identifiability of linear models**

**Speaker**

Sabina Haque

18:00–18:20

**Simple chemical systems with chaos**

**Speaker**

Tomislav Plesa

18:20