

Session Program

12-17 Jul 2026



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

Universal Differential Equations in Mathematical Biology

University of Graz

Monday 13 July

15:00

Universal Differential Equations in Mathematical Biology

Session | Location: University of Graz, 15.05 - HS

15:00–15:20 **Sensitivity analysis for biological differential equation models with many parameters**

Speaker

Dilan Pathirana

15:20–15:40

Elucidating Regional and Global Epidemiological Trends Using Neural Network Model-form Error Corrections

Speaker

Erin Acquesta

15:40–16:00

Universal Differential Equations Trained on Remotely Sensed Datasets Can Identify Tipping Points in Large-Scale Ecosystems

Speaker

Jack Buckner

16:00–16:20

Theme and Variations: Conditional Universal Differential Equations for Biological Heterogeneity

Speaker

Max de Rooij

16:20

17:00

Universal Differential Equations in Mathematical Biology

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Guiding the optimal use of hybrid mechanistic and data-driven models for individual prediction of platelet dynamics

Speaker

Marie Steinacker

17:20–17:40

PEtab-SciML: The missing layer for accessible SciML modelling

Speaker

Sebastian Persson

17:40–18:00

Symbolic regression enables coarse-grained model discovery for cancer-relevant signalling dynamics

Speaker

Theodore de Pomereu

18:00–18:20

Functional Identifiability for Universal Differential Equations

Speaker

Torkel Loman

18:20