

**Session Program**

12-17 Jul 2026



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

***Mechanistic insights from in-vivo and in-vitro data: modelling  
tissue physiology and pathology away from equilibrium***

University of Graz

## Thursday 16 July

10:40

### Mechanistic insights from in-vivo and in-vitro data: modelling tissue physiology and pathology away from equilibrium

Session | Location: University of Graz, 02.01 - HS

10:40–11:20

#### Collective cell dynamics driven by active boundaries and cell turnover: a multi-scale approach.

Speaker

Laurent Navoret

11:20–11:40

#### Pattern formation in a phenotype-structured Shigesada-Kawasaki-Teramoto model

Speaker

Davide Cusceddu

11:40–12:00

#### A Starling resistor model for choroidal venous flow

Speaker

Federica Vanone

12:00

15:10

### Mechanistic insights from in-vivo and in-vitro data: modelling tissue physiology and pathology away from equilibrium

Session | Location: University of Graz, 02.01 - HS

15:10–15:30

#### Active shape evolution in tissue mechanics

Speaker

Naoufel Cresson

15:30–15:50

#### Modelling the emergence of connective tissue architecture

Speaker

Pauline Chassonnery

15:50–16:10

#### A new size-dependant individual based model for epithelial tissue

Speaker

Sophie Hecht

16:10–16:30

#### PDE models for the growth of heterogeneous cell populations: travelling fronts, sharp interfaces, and concentration phenomena

Speaker

Tommaso Lorenzi

16:30