

Session Program

12-17 Jul 2026



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

Mechanical models of collective cell dynamics

University of Graz

Tuesday 14 July

10:40

Mechanical models of collective cell dynamics

Session | Location: University of Graz, 02.23 - HS

10:40–11:00

Mechanical regulation of the G1/S checkpoint in collective cell migration: a two-stage age-structured model

Speaker

Stéphanie Abo

11:00–11:20

From discrete models of cell mechanics to continuum descriptions of tissue growth

Speaker

Shahak Kuba

11:20–11:40

Toward a unified theory of curvature-guided epithelial migration: ER remodeling, cytoskeletal polarity, and cell mechanics

Speaker

Fabian Spill

11:40–12:00

Modelling bulk mechanical effects in a planar cellular monolayer

Speaker

Natasha Cowley

12:00