

Session Program

12-17 Jul 2026



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

Models and Methods for the Analysis of Cancer Treatment

University of Graz

Tuesday 14 July

15:00

Models and Methods for the Analysis of Cancer Treatment

Session | Location: University of Graz, 62.01 - HS

15:00–15:20

Spatial Mechanistic Modelling of T-Cell Engagers: Insights into Trimer Formation and its effect on Cancer Killing

Speaker
Gibin Powathil

15:20–15:40

From Image to Simulations: Integrating Imaging Biopsy Data into Agent-Based Models to Understand the Impact of Tumour-Microenvironment Spatial Heterogeneity on Cancer Treatment

Speaker
Blanche Mongeon

15:40–16:00

Mechanistic Modeling of Heterogeneous Tumor Response to Anti-NUPR1 Therapy in Docetaxel-Resistant Prostate and Pancreatic Cancers

Speaker
Harsh Jain

16:00–16:20

Model-supported patient stratification using multi-objective synergy optimization in combination therapy

Speaker
Irina Kareva

16:20

17:00

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Assessing the Role of Model Complexity in Virtual Clinical Trial Outcomes

Speaker
Jana Gevertz

17:20–17:40

Cellular kinetics of drug response: are they conserved when altering experiment and biological context?

Speaker
Matt Faria

17:40–18:00

An Agent Based Modelling Framework for the Role of Tumour-Stroma Dynamics in Metastatic Colorectal Cancer

Speaker
Sam Oliver

18:00–18:20

Mechanistic Learning of Engineered Immune Cell-Tumor Cell Interactions and Heterogeneity

Speaker
Philipp Altrock

18:20