

Session Program

12-17 Jul 2026



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

***From dose to response: advances in modelling treatment
efficacy and toxicity in tumor forecasts***

University of Graz

Thursday 16 July

10:40

From dose to response: advances in modelling treatment efficacy and toxicity in tumor forecasts

Session | Location: University of Graz, 62.01 - HS

10:40–11:00

Efficacy-toxicity and toxicity-toxicity trade-offs in head and neck cancer treated with radiotherapy

Speaker

Daniel Glazar

11:00–11:20

Beyond Dose, What Really Drives Radiation-Induced Brain Necrosis?

Speaker

Ibrahim Chamseddine

11:20–11:40

Precision Medicine in Real-World Patients: Model-Informed Precision Dosing of High dose Busulfan in Hematopoietic Stem Cell Transplantation conditioning regimen

Speaker

Joseph Ciccolini

11:40–12:00

Incorporating Toxicity Constraints in Adaptive Cancer Therapy

Speaker

Kathleen Wilkie

12:00

15:10

From dose to response: advances in modelling treatment efficacy and toxicity in tumor forecasts

Session | Location: University of Graz, 62.01 - HS

15:10–15:30

From mechanism to meaning: causal interpretation of PKPD models in oncology

Speaker

Maddalena Centanni

15:30–15:50

Agent-based modeling of intratumor heterogeneity coordination

Speaker

Michela Prunella

15:50–16:10

Mechanistic and Machine Learning Models for Dose Scheduling and Treatment Response Prediction

Speaker

Mohammad Kohandel

16:10–16:30

Personalizing Radiotherapy in HPV+ Oropharyngeal Cancer with Systematic In Silico Trials

Speaker

Mohammad Zahid

16:30