

Session Program

12-17 Jul 2026



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

***Modelling the interplay between radiotherapy, cell
metabolism, and tumor dynamics***

University of Graz

Tuesday 14 July

10:40

Modelling the interplay between radiotherapy, cell metabolism, and tumor dynamics

Session | Location: University of Graz, 15.04 - HS

10:40–11:00

Quantifying the effect of initial cell density on hypoxia-induced radioresistance: experimental analysis and compartmental modeling of cell state dynamics

Speaker

Botao Dai

11:00–11:20

Exploring how metabolism comes into play with radiations: a mechanistic approach

Speaker

Damian Bimbenet

11:20–11:40

Geometric Adversarial Learning for Reconstruction of Right-Censored Tumor Dynamics

Speaker

Nahum Puebla-Osorio

11:40–12:00

A new metric for functional drug screening: combing radiation with systemic therapies

Speaker

Sarah C. Brüningk

12:00