

Session Program

12-17 Jul 2026



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

***Multiscale perspectives on cancer resistance: from
intracellular networks to population dynamics***

University of Graz

Thursday 16 July

15:10

Multiscale perspectives on cancer resistance: from intracellular networks to population dynamics

Session | Location: University of Graz, 05.12 - HS

15:10–15:30

Mechanistic modeling of pseudoprogession and circulating tumor DNA in immune checkpoint inhibitor treatment

Speaker

Aaron Li

15:30–15:50

Co-expression Networks in Cancer

Speaker

Britta Daub

15:50–16:10

Personalized treatment schedules for metastatic prostate cancer – A set of novel mathematical biomarkers

Speaker

Kit Gallagher

16:10–16:30

Modeling resistance multiverse: from metabolic activity to immune evasion

Speaker

Malgorzata Tyczynska

16:30

17:00

Multiscale perspectives on cancer resistance: from intracellular networks to population dynamics

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17:00–17:20

Modeling phenotypic switch in cancer drug response to identify new drug combinations

Speaker

Marielle Pere

17:20–17:40

From Black Board, to Plate, to Patient: Dissecting Resistance Dynamics to Personalise Cancer Treatment Scheduling

Speaker

Maximilan Strobl

17:40–18:00

How Modulation of the Tumor Microenvironment Drives Cancer Immune Escape Dynamics

Speaker

Pujan Shrestha

18:00–18:20

Integrating glioblastoma plasticity into combination therapy strategies to overcome therapeutic resistance: a quantitative systems pharmacology approach

Speaker

Thibault Delobel

18:20