

Session Program

12-17 Jul 2026



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

Applications of reaction networks

University of Graz

Thursday 16 July

10:40

Applications of reaction networks

Session | Location: University of Graz, 11.03 - HS

10:40–11:00 **CRNT approaches in modelling carbon dioxide removal through direct ocean capture**

Speaker

Al Jay Lan Alamin

11:00–11:20

Spatiotemporal modeling of signaling pathways: impact of endosomal compartmentalization and application to gonadotropin receptors

Speaker

Chloe Weckel

11:20–11:40 **From Food Webs to Fluxes: A New Decomposition of Ecosystem Networks**

Speaker

Caner Kazanci

11:40–12:00 **A stochastic model of compartmentalized intracellular signalling**

Speaker

Léo Darrigade

12:00

15:10

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15:10–15:50 **Mathematical modeling to infer signaling bias: kinetics and spatial compartmentalization**

Speaker

Romain Yvinec

15:50–16:10 **A reaction network approach to modeling carbon dioxide removal systems**

Speaker

Noel Fortun

16:10–16:30 **Mapping the co-expression landscape: network sparsification and null models**

Speaker

Rosemary Braun

16:30