

5th of June 2025

10:00-10:35	Registration
10:35-10:45	Opening statements
10:45-11:40	Keynote: Rob de Boer - Which memory T cells mount subsequent immune responses?
11:40-12:10	Griffin Kutler Dodd - The Mathematics of Molecular Thievery: Therapeutic Interfering Particles for Treating HIV-1 Infection
12:10-12:25	David Versluis - Tell your friends: Secondary signalling by immune cells during chemotaxis
12:25-12:40	Max van der Ree - The use of evolutionary topology optimization algorithms to elucidate links between form and function in vertebrate morphology.
12:40-13:30	Lunch
13:30-14:00	Viktoria Freingruber - Ecological resilience in microbial species: A multi-species cross-diffusion model for microbial competition and commensalism
14:00-14:15	Heleen van Osch - Modelling the development of microvilli and brush border patterns
14:15-14:30	Xenia Sterl - The link between model characteristics and outcomes in spatial savanna models
14:30-15:00	Tea / coffee break
15:00-15:15	Noah Knijff - Computational modeling of nutrient absorption by complex-shaped marine organisms in a diffusive environment
15:30-15:45	Nienke Tan - A coupled computational model of gastrulation in the sea anemone <i>Nematostella vectensis</i>
15:45-16:15	Benjamin Planteros Jiménez: Start, pause or stop: modeling cellular decisions controlling proliferation in <i>C. elegans</i>
16:15-16:30	Yuchen Yan - Polymer Self-Consistent Theory for Understanding DNA Spatial Organization
16:30-16:45	Tamara Mijatović - Modeling multivalent binding to understand super-selectivity
16:55-18:00	General Assembly
18:00-19:00	Dinner
19:15-...	Walk to the sea or getting lost in the attempt

6th of June 2025

8:30-9:30	Breakfast
9:30-10:25	Keynote: Xiaoyan Long - Evolutionary dynamics of parental sex roles
10:25-10:40	Burak Demirbas - Multiscale modeling of antimicrobial resistance evolution in microbial communities
10:40-10:55	Pietro Gadaleta - Ecological effects on diversity and repeatability during antibiotic resistance evolution
10:55-11:10	Jurre van der Most - Trade-off in Life History Traits in Soil-Borne Fungal Phytopathogens
11:10-11:30	Tea / coffee break
11:30-12:00	Meike Wortel - Factors determining invasion in a gut microbiome community
12:00-12:30	Federico Bocci - Navigating the attractor landscape of single cells
12:30-13:30	Lunch
13:30-14:00	Xiao Yang - Approximation of a compound-exchanging cell by a dirac point
14:00-14:15	João Diniz Ramos - Mechanotransduction in Lateral Root Initiation via the interplay of growth and auxin flows - Vertex modelling of plant biomechanics and morphogenesis
14:15-14:30	Thijs van Loo - Understanding how Arabidopsis responds to heat and drought
14:30-14:45	Tea / coffee break
14:45-15:30	Keynote: Bob Planqué - The economy of single-celled organisms
15:30-15:40	Presentation prize and closing ceremony