

3rd Interdisciplinary Signaling Workshop - Focus on Inflammation, infection and cancer in the gut - 2023

	Monday 2023.07.17	Tuesday 2023.07.18		Wednesday 2023.07.19		Thursday 2023.07.20		Friday 2023.07.21
	Arrival & Opening	Disease models and organoids		Microbiome and host-microbe analyses		Modeling and Precision Medicine		Departure
9:00		Keynote lecture: Eduardo Villablanca (Karolinska Institutet, SE) Spatial cell profiling of the whole gastrointestinal tract during intestinal inflammation		Keynote lecture: Jost Enninga (Institut Pasteur, FR) Imaging the modulation of host trafficking and signaling by bacterial effector proteins		Keynote lecture: Chris Tape (University College London, UK) Single-cell Signalling Analysis of Tumour Microenvironment Organoids		
9:45		Expert talk 1: Joana F Neves (Kings College London, UK) Mucosal organoids reveal innate lymphoid cells' functions		Expert talk 1: Paul Wilmes (University of Luxembourg, LU) Systems ecology of human-microbiome interactions		Expert talk 1: Fabian Fröhlich (Crick Institute, UK) Anti-Cancer Drug Sensitivity Prediction using Mathematical Models of Signalling Pathways		
10:15		Expert talk 2: Kristine Schauer (Gustave Roussy Institut, FR) Towards a high resolution map of the cancer cell: focus on lysosome dysfunction.		Expert talk 2: Cynthia Whitchurch (Quadram Institute, UK) Challenges in imaging microbiomes and biofilms on host tissues		Expert talk 2: Laurence Calzone (Institute Curie, FR) Simulating dynamic populations of cell types in cancer: from data to predictive models.		
10:45		Tea/Coffee		Tea/Coffee		Tea/Coffee		
11:15		Expert talk 3: Julio Saez-Rodriguez (University of Heidelberg, DE) Knowledge-based machine learning to extract disease mechanisms from multi-omics data		Expert talk 3: Falk Hildebrand (Quadram Institute, UK) Gut Metagenomics: finding good descriptors of bacterial communities and their members		Livia Perfetto (University of Rome La Sapienza, IT) A computational strategy to produce actionable and patient-specific networks of intracellular signaling in PDAC Aviant Nilsson (Massachusetts Institute of Technology, US) A deep learning model of intracellular networks		
11:45		Anisha Modasa (Quadram Institute, UK) Assessing the effects of dietary fibre fermentation in an in vitro model of the intestinal epithelium		Federica Ungaro (Università Vita-Salute San Raffaele, IT) Not just a bystander: may the microbiota be the leading actor in gut diseases?		Orsolya Kapuy (Semmelweis University, HU) A systems biological study of ATF4-controlled autophagy induction in inflammatory bowel disease		
		Andrea Checcoli (INSERM, FR) The immunogenic cell death (ICD) is a type of cell death that elicits an anticancer immune response		Douglas Brubaker (Case Western Reserve University School of Medicine, US) Pharmacobiome: Realizing the Therapeutic Potential of Microbes and Microbial Products		Closing Talk: Tamas Korcsmaros (Imperial College London, UK) Patient- and cell-type specific networks to explain heterogeneity in IBD		
		Nadezhda Doncheva (University of Copenhagen, DK) Cytoscape stringApp 2.0: Analysis and Visualization of Heterogeneous Biological Networks		Bence Szalai (Turbine AI, HU) Can we overcome bias in machine learning models predicting drug sensitivity and gene essentiality?				
12:10		Lunch		Lunch		Lunch		
14:00		Arrival and registration	Teamwork – part 1	Getting know each other		Teamwork – part 2	Presentations of teams (15 min / team + discussion)	
14:30	Presenting the problem to be solved			Tea/Coffee				
15:00								
15:30								
16:00	Opening ceremony		Tea/Coffee					
16:30	Opening Keynote lecture: Jasmin Fisher (University College London, UK) Executable signalling networks: From mechanisms to therapeutic applications		Moderated panel discussion on: team presentations, novel ideas, and concrete actions (e.g. collaborations)					
17:00	Opening Keynote lecture: Nick Powell (Imperial College London, UK) Harnessing cytokine-resposive transcriptomics to predict patient trajectories in inflammatory bowel disease		Moderated panel discussion on: Women / Family in Science					
17:30	Welcome reception and dinner		Catamaran race on the Danube, informal discussion in the meantime		Award presentation for teams and poster presenters and Closing remarks			
Special Renaissance Dinner			Walk and free time in the Court of Crafts					
18:30	Double Sunset Cruise		BBQ Picnic Dinner in the Garden of the Hotel Visegrád		Workshop Closing Feast in the Court of Foods (same location as Court of Crafts)			
19:00								
19:30	Informal evening program (bowling, table soccer, swimming, etc)		Poster session 1		Informal evening program with music			
20:00								
20:30								
21:00	Informal evening program		Informal evening program					
21:30								
22:00								
22:30								

Scheme diagram of workshop elements

Keynote lectures	Science & societies talk and forum
Expert talks	Tea/coffee breaks
Participants' presentations	Lunches and Special dinners
Teamwork - formal discussions	Informal social programs
Teamwork - informal discussion with outdoor activities	