

4th Interdisciplinary Signaling Workshop - Focus on Inflammatory diseases - 2025

	Monday 2025.07.28	Tuesday 2025.07.29	Wednesday 2025.07.30	Thursday 2025.07.31	Friday 2025.08.01		
	Arrival & Opening	Microbiome and inflammation	Disease models and mechanisms	Modeling and Precision Medicine	Departure		
9:00		Keynote lecture: Serre-yu Wong (Mount Sinai, USA): Spatial mapping of microbiome in fistulazing Crohn's disease	Keynote lecture: Joana F Neves (Kings College London, UK) Mucosal organoids	Keynote lecture: Kathryn Hamilton (University of Pennsylvania, USA) Post-transcriptional gene regulation and inflammation			
9:45		Expert talk 1: Sun-Ho Lee (Sinai Health Toronto, CAN) Longitudinal effect of the microbiome on IBD development	Expert talk 1: Csaba Pál (Biological Research Center, HU)	Expert talk 1: Mohieddin Jafari (University of Helsinki, FL): Exploring Mechanisms of Action in Combinatorial Therapies through Stability/Solubility Alterations			
10:15		Expert talk 2: Falk Hildebrand (Quadram Institute, UK) Spatial and ultra-resolution microbiome analysis	Expert talk 2: Patrick Varga-Weisz (University of Essex, UK) Epigenomics, microbiome, gene regulation	Expert talk 2: Marek Ostaszewski (University of Luxembourg, LU) Systems biology diagrams: interface between knowledge curation and computational modelling			
10:45		Tea/Coffee	Tea/Coffee	Tea/Coffee			
11:15		Expert talk 3: Federica Ungaro (San Raffaele Hospital, IT) Host-viral interactions in IBD treatment response	Expert talk 3: Eduardo Villablanca (Karolinska Institutet, SE) Spatial profiling of the inflamed gut	Bence Szalai (Turbine Ltd, HU): Benchmarking foundation cell models for post-perturbation RNA-Seq prediction Hratch Baghdassarian (MIT, US) scLEMBAS: Context-aware signaling pathway modeling at single-cell resolution			
11:45		Expert talk 4: Szilvia Juhasz (Hungarian Centre of Excellence for Molecular Medicine, HU) The toxic relationship between bacteria and human cells	Gustavo Monasterio Ocares (Karolinska Institutet, SE) Spatial transcriptomics reveals a novel salivary gland and a rheostatic gut-salivary glands axis during intestinal inflammation Rachael Barry (Imperial College, UK): Proteases in the colorectal tumour microenvironment induce barrier damage and cancer cell signalling	Luca Massimino (San Raffaele Hospital, IT) The Spatial Code: Computational Strategies for Deciphering Tissue Microenvironments Christine Sult-Yun Joh (Seoul National University College of Medicine, KR): Immune dysregulation and epithelial barrier dysfunction in ASCA-Positive ulcerative colitis			
11:50		Safak Bayram (Charité, Universitätsmedizin Berlin, DE) Diet modulates colonic epithelial proinflammatory responses by influencing butyrate-producing microbiota	Deborah Jans (KU Leuven, BE): Family matters: Understanding the genetic architecture of inflammatory bowel disease multiplex families	Selected talk			
11:55		Lunch	Lunch	Lunch			
14:00		<div>Arrival and registration</div>	<div>Teamwork – part 1</div>	<div>Teamwork – part 2</div>		<div>Presentations of teams (15 min / team + discussion)</div>	
14:30							Getting know each other
15:00	Presenting the problem to be solved						
15:30							
16:00	Opening ceremony		Tea/Coffee	Tea/Coffee			
16:30	Opening Keynote lecture: Laszlo Albert Barabasi (Harvard Medical School, US) Systems medicine		Grant writing seminar (Cláudio Nunes-Alves, Germinate Science Consulting)				
17:00	Opening Keynote lecture: Hyun Je Kim (Seoul National University College of Medicine, KR) Single cell Atlas of inflammatory diseases		Catamaran race on the Danube, informal discussion in the meantime	Moderated panel discussion on: Women / Family in Science			
17:30	Welcome reception and dinner					Closing Plenary: Nick Powell (Imperial College London, UK) Precision medicine perspectives based on computational, in vitro and in vivo models	
18:30						Award presentation for teams and poster presenters and Closing remarks	
19:00						Special Renaissance Dinner	BBQ Picnic Dinner
19:30							
20:00							
20:30	Informal evening program (bowling, table soccer, swimming, etc)	Poster session 1	Poster session 2	Informal evening program with music			
21:00							
21:30		Informal evening program					
22:30							

Scheme diagram of workshop elements	
Keynote lectures	Science & societies talk and forum
Expert talks	Tea/coffee breaks
Selected talks	Lunches and Special dinners
Teamwork - formal discussions	Informal social programs
Teamwork - informal discussion with outdoor activities	