

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 fistulizing Crohn's disease	Keynote lecture: Vivian Li (The Crick Institute, UK) Experimental modelling of stem cells and the microbiome in gastrointestinal diseases	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: Joana F Neves (Kings College London, UK) Mucosal organoids	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 Hidebrand (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				
11:45		Expert talk 4: Szilvia Juhász (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	Hrach Baghdassarian (MIT, US) sCLEMBAS: Context-aware signaling pathway modeling at single-cell resolution				
12:00		Safak Bayram (Charité, Universitätsmedizin Berlin, DE) Diet modulates colonic epithelial proinflammatory responses by influencing butyrate-producing microbiota	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				
12:30		Deborah Jans (KU Leuven, BE): Family matters: Understanding the genetic architecture of inflammatory bowel disease multiplex families		Christine Suh-Yun Joh (Seoul National University College of Medicine, KR): Immune dysregulation and epithelial barrier dysfunction in ASCA-Positive ulcerative colitis				
12:45		Lunch	Lunch	Lunch				
14:00	Arrival and registration	Teamwork – part 1	Teamwork – part 2		Departure			
14:30				Getting know each other		Discussing the problem to be solved	Presentations of teams (15 min / team + discussion)	
15:00				Presenting the problem to be solved				
15:30						Tea/Coffee	Tea/Coffee	
16:00				Opening ceremony				
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		Knights Tournament followed by Team building competition with Medieval games, informal discussions in the meantime	Catamaran race on the Danube, informal discussion in the meantime	Moderated panel discussion on: Women / Family in Science
18:00				Welcome reception and dinner				Closing Plenary: Nick Powell (Imperial College London, UK) Precision medicine perspectives based on computational, <i>in vitro</i> and <i>in vivo</i> models
18:30								Award presentation for teams and poster presenters and Closing remarks
19:00						Special Renaissance Dinner	BBQ Picnic Dinner	Workshop Closing Feast in the Court of Foods (same location as Court of Crafts)
19:30								
20:00		Poster session 1	Poster session 2					
20:30								
21:00	Informal evening program (bowling, table soccer, swimming, etc)	Informal evening program	Informal evening program	Informal evening program with music				
21:30								
22:00								
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	