

## Hybrid Conference Programme

Start	Finish	sh Presenter details	
(BST)	(BST)	η	

Monday	Monday 10 June 2024				
12:00	12:45	Registration, lunch and networking			
12:30	12:45	Briefing for Keynote 1 & Session 1 speakers, microphone runners, chair, moderator & committee - Auditorium			
12:45	13:00				
12:45	12:50	Wellcome Connecting Science:			
12:50	13:00	Nagehan Ramazanoglu Bahadir, Wellcome Connecting Science, UK Scientific Programme Committee:			
12.50	13.00	Scientific Programme Committee			
		Cole Trapnell, University of Washington, USA			
		Roser Vento-Tomo, Wellcome Sanger Institute, UK			
		Ital Yanai, New York University, USA			
13:00	14:00	Keynote 1			
		Chair: Cole Trapnell, University of Washington, USA			
		Moderator: Valentina Lorenzi, Wellcome Sanger Institute, UK			
13:00	14:00	Title TBC			
		Marianne Bronner, California Institute of Technology, USA			
14:00	14:05	Comfort break			
14:05	15:35	Session 1: How do cells cooperate and compete in tissues and organs?			
		Chair: Samantha Morris, Washington University in St. Louis, USA			
		Moderator: Philipp Weiler, Technical University of Munich, Germany			
14:05	14:35	Addressing noise and bias in spatial transcriptomics data			
		Nir Yosef, Weizmann Institute of Science, Israel			
14:35	15:05	Multiscale approaches for understanding single cell spatial omics data			
		Shila Ghazanfar, The University of Sydney, Australia			
15:05	15:20	A cross-lissue transcriptome atlas of human diseases			
		Jong-Eun Park, KAIST, South Korea			
15:20	15:35	Dissecting the spatiotemporal diversity of adult neural stem cells			
		Anika Neuschulz, Max-Delbrück-Center for Molecular Medicine, Germany			
15:35	16:20	Refreshment break and networking			
16:05	16:20	Briefing for Session 2 speakers, chair & moderator - Auditorium			
16:20	17:50	Session 2: How does a cell's past predict its future?			
		Chair: Roser Vento-Tomo, Wellcome Sanger Institute, UK			
		Moderator: Jong-Eun Park, KAIST, South Korea			
16:20	16:50	New genomic technologies to deconstruct and control cell identity			
		Samantha Morris, Washington University in St. Louis, USA			
16:50	17:20	Somatic epimutations enable single-cell lineage tracing in native hematopoiesis across the murine and human lifespan			
		Alejo Rodriguez-Fraticelli, IRB, Spain			
17:20	17:35	Deep learning-powered deciphering of gene regulatory dynamics in cortical development			
		Darina Abaffyová, VIB-KU Leuven, Belgium			
17:35	17:50	Integrating deep learning with omics data to discover small-molecule modulators of complex phenotypes  Doris Fu, Cellarity, USA			
17:50	18:30	Poster pitch talks for odd number posters			
		Chair: Roser Vento-Tomo, Wellcome Sanger Institute, UK			
18:30	19:30	Poster session 1 - odd number posters with drinks reception			
19:30	21:30	Dinner			
10/20		Decree (and assessed ask)			
19:30		Bar open (card payments only)			



Tuesday	Tuesday 11 June 2024				
09:15	09:30	Briefing for Session 3 speakers, chair & moderator - Auditorium			
09:30	11:00	Session 3: What are the cell autonomous and non-cell autonomous mechanisms of disease?  Chair: Leeat Keren, Weizmann Institute of Science, Israel  Moderator: Philipp Weiler, Technical University of Munich, Germany			
09:30	10:00	An multi-omics epigenetic cell atlas of kidney  Kun Zhang, Altos Labs, USA			
10:00	10:30	Inter-organ communication during cancer metastasis  Edroaldo Lummertz da Rocha, Federal University of Santa Catarina, Brazil			
10:30	10:45	Shared molecular vulnerabilities of human cortical neurons in C9ORF72 Amyotrophic lateral sclerosis  Jimmy Lee, Wellcome Sanger Institute, UK			
10:45	11:00	Spatial distribution of IL1B+ TAMs in human pancreatic cancer Federica La Terza, SR-Tiget, Italy			
11:00	11:45	Refreshment break and networking			
11:30	11:45	Briefing for Session 4 speakers, chair & moderator - Auditorium			
11:45	13:10	Session 4: What are the evolutionary principles of cellular ROBUSTNESS?			
		Chair: Itai Yanai, New York University, USA Moderator: Valentina Lorenzi, Wellcome Sanger Institute, UK			
11:45	12:15	Build a foundation model for single-cell omics and imaging  Bo Wang, University of Toronto, Canada			
12:15	12:45	Cells within cells: establishment of photosynthetic endosymbiosis in flatworms and corals <u>Elizabeth Hambleton, University of Vienna, Austria</u>			
12:45	13:00	Cell-type-specific control of developmental rate across species  Jess Bourn, European Molecular Biology Laboratory, Germany			
13:00	13:15	CellRank 2: Unified fate mapping in multiview single-cell data  Phillipp Weiler, Technical University of Munich, Germany			
13:15	14:15	Lunch and networking			
14:00	14:15	Briefing for Session 5 speakers, chair & moderator - Auditorium			
14:15	15:45	Session 5: How are complex phenotypes regulated by the genome?			
		Chair: Shila Ghazanfar, The University of Sydney, Australia Moderator: Raz Ben-uri, The Weizmann Institute of Science, Israel			
14:15	14:45	Transfer learning to enable predictions in network biology Christina Theodoris, Gladstone Institutes, USA			
14:45	15:15	How do cells integrate extrinsic signals and intrinsic state? A systems epigenetics approach Judith Zaugg. The European Molecular Biology Laboratory, Germany.			
15:15	15:30	Dissecting the spatiotemporal development of the human reproductive tract through the lens of single-cell and spatial Valentina Lorenzi, Wellcome Sanger Institute, UK			
15:30	15:45	Joint profiling of cell morphology and gene expression during in vitro neurodevelopment  Adithi Sundaresh, University of Helsinki, Finland			
15:45	16:30	Refreshment break and networking			
16:15	16:30	Briefing for chair & sponsored talk speaker - Auditorium			
16:30	17:10	Poster pitch talks for even number posters  Chair: Leeat Keren, Weizmann Institute of Science, Israel			
17:10	17:35	Sponsored talk by Chan Zuckerberg Initiative Foundation			
17:10	17:35	Talk title TBC  Jonah Cool, Chan Zuckerberg Initiative Foundation, USA			
17:35	18:35	Poster session 2 - even number posters with drinks reception			
18:35		Bar open (card payments only)			
18:35	20:30	Dinner			



Wednes	day 12 J	une 2024
09:15	09:30	Briefing for Session 6 speakers, chair & moderator - Auditorium
09:30	11:00	Session 6: How can we predict what cells will do next?
		Chair: Cole Trapnell, University of Washington, USA Moderator: Jong-Eun Park, KAIST, South Korea
09:30	10:00	Reconstructing cellular biographies Fei Chen, Broad Institute of MIT and Harvard, USA
10:00	10:30	Reconstructing cellular biographies  Alex Schier, Universität Basel, Switzerland
10:30	10:45	Escalating High-dimensional Imaging Using Combinatorial Channel Multiplexing and Deep Learning Raz Ben-uri, The Weizmann Institute of Science, Israel
10:45	11:00	Exploring the role of gene expression noise in cell fate regulation Reyna Edith Rosales Alvarez, Würzburg Institute of Systems Immunology, Germany
11:00	11:45	Refreshment break and networking
11:30	11:45	Briefing for Keynote 2 speaker, chair, moderator & committee - Auditorium
11:45	12:45	Keynote 2
		Chair: Roser Vento-Tomo, Wellcome Sanger Institute, UK Moderator: Raz Ben-uri, The Weizmann Institute of Science, Israel
		4D cell atlasing of human organs Sarah Teichmann, University of Cambridge, UK
12:45	13:00	Closing remarks and prize presentation
		Scientific Programme Committee: Leeat Keren, Weizmann Institute of Science, Israel
		Cole Trappell, University of Washington, USA Roser Vento-Tomo, Wellcome Sanger Institute, UK Ital Yanai, New York University, USA
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