

**Hybrid Conference Programme**

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

**Tuesday 11 June 2024**

09:15	09:30	Briefing for Session 3 speakers, chair & moderator - Auditorium
<b>09:30</b>	<b>11:00</b>	<b>Session 3: What are the cell autonomous and non-cell autonomous mechanisms of disease?</b> <i>Chair: Leeat Keren, Weizmann Institute of Science, Israel</i> <i>Moderator: Philipp Weiler, Technical University of Munich, Germany</i>
09:30	10:00	An multi-omics epigenetic cell atlas of kidney <a href="#">Kun Zhang, Altos Labs, USA</a>
10:00	10:30	Inter-organ communication during cancer metastasis <a href="#">Edroaldo Lummertz da Rocha, Federal University of Santa Catarina, Brazil</a>
10:30	10:45	Shared molecular vulnerabilities of human cortical neurons in C9ORF72 Amyotrophic lateral sclerosis <i>Jimmy Lee, Wellcome Sanger Institute, UK</i>
10:45	11:00	Spatial distribution of IL1B+ TAMs in human pancreatic cancer <i>Federica La Terza, SR-Tiget, Italy</i>
11:00	11:45	Refreshment break and networking
11:30	11:45	Briefing for Session 4 speakers, chair & moderator - Auditorium
<b>11:45</b>	<b>13:10</b>	<b>Session 4: What are the evolutionary principles of cellular ROBUSTNESS?</b> <i>Chair: Itai Yanai, New York University, USA</i> <i>Moderator: Valentina Lorenzi, Wellcome Sanger Institute, UK</i>
11:45	12:15	Build a foundation model for single-cell omics and imaging <a href="#">Bo Wang, University of Toronto, Canada</a>
12:15	12:45	Cells within cells: establishment of photosynthetic endosymbiosis in flatworms and corals <a href="#">Elizabeth Hambleton, University of Vienna, Austria</a>
12:45	13:00	Cell-type-specific control of developmental rate across species <i>Jess Boum, European Molecular Biology Laboratory, Germany</i>
13:00	13:15	CellRank 2: Unified fate mapping in multiview single-cell data <i>Philipp Weiler, Technical University of Munich, Germany</i>
13:15	14:15	Lunch and networking
14:00	14:15	Briefing for Session 5 speakers, chair & moderator - Auditorium
<b>14:15</b>	<b>15:45</b>	<b>Session 5: How are complex phenotypes regulated by the genome?</b> <i>Chair: Shila Ghazanfar, The University of Sydney, Australia</i> <i>Moderator: Raz Ben-uri, The Weizmann Institute of Science, Israel</i>
14:15	14:45	Transfer learning to enable predictions in network biology <a href="#">Christina Theodoris, Gladstone Institutes, USA</a>
14:45	15:15	How do cells integrate extrinsic signals and intrinsic state? A systems epigenetics approach <a href="#">Judith Zaugg, The European Molecular Biology Laboratory, Germany</a>
15:15	15:30	Dissecting the spatiotemporal development of the human reproductive tract through the lens of single-cell and spatial <i>Valentina Lorenzi, Wellcome Sanger Institute, UK</i>
15:30	15:45	Joint profiling of cell morphology and gene expression during in vitro neurodevelopment <i>Adithi Sundaresh, University of Helsinki, Finland</i>
15:45	16:30	Refreshment break and networking
16:15	16:30	Briefing for Sponsored talk speaker & chair - Auditorium
<b>16:30</b>	<b>17:10</b>	<b>Poster pitch talks for even number posters</b> <i>Chair: Leeat Keren, Weizmann Institute of Science, Israel</i>
<b>17:10</b>	<b>17:35</b>	<b>Sponsored talk by Chan Zuckerberg Initiative Foundation</b>
17:10	17:35	CZ CELLxGENE: Increasing access to single-cell analyses with APIs and no-code interfaces <i>Jonah Cool, Chan Zuckerberg Initiative, USA</i>
<b>17:35</b>	<b>18:50</b>	<b>Poster session 2 - even number posters with drinks reception</b>
18:50	20:50	Dinner
18:50		Bar open (card payments only)

**Wednesday 12 June 2024**

09:15	09:30	Briefing for Session 6 speakers, chair & moderator - Auditorium
<b>09:30</b>	<b>11:00</b>	<b>Session 6: How can we predict what cells will do next?</b> <i>Chair: Cole Trapnell, University of Washington, USA</i> <i>Moderator: Jong-Eun Park, KAIST, South Korea</i>
09:30	10:00	Genomic tools for probing the rules of tissue organization. <a href="#">Fei Chen, Broad Institute of MIT and Harvard, USA</a>
10:00	10:30	Reconstructing cellular biographies <a href="#">Alex Schier, Universität Basel, Switzerland</a>
10:30	10:45	Escalating High-dimensional Imaging Using Combinatorial Channel Multiplexing and Deep Learning <i>Raz Ben-uri, The Weizmann Institute of Science, Israel</i>
10:45	11:00	Exploring the role of gene expression noise in cell fate regulation <i>Reyna Edith Rosales Alvarez, Würzburg Institute of Systems Immunology, Germany</i>
11:00	11:45	Refreshment break and networking
11:30	11:45	Briefing for Keynote 2 speaker, chair, moderator & committee - Auditorium
<b>11:45</b>	<b>12:45</b>	<b>Keynote 2</b> <i>Chair: Roser Vento-Tormo, Wellcome Sanger Institute, UK</i> <i>Moderator: Raz Ben-uri, The Weizmann Institute of Science, Israel</i>  4D cell atlasing of human organs <i>Sarah Teichmann, University of Cambridge, UK</i>
<b>12:45</b>	<b>13:00</b>	<b>Closing remarks and prize presentation</b> <b>Scientific Programme Committee:</b> <a href="#">Leeat Keren, Weizmann Institute of Science, Israel</a> <a href="#">Cole Trapnell, University of Washington, USA</a> <a href="#">Roser Vento-Tormo, Wellcome Sanger Institute, UK</a> <a href="#">Itai Yanai, New York University, USA</a>
13:00	13:50	Lunch and departures
13:50		Coach departures for Stansted and Heathrow airports
14:00		Coach departures for Cambridge train station and city centre