

Hybrid Conference Programme

Start	Finish	Presenter details
Monday 9 September 2024		
12:00	13:00	Registration, lunch and networking
12:45	13:00	Briefing for Keynote & Session 1 speakers, microphone runners, chair, moderator & committee - Auditorium
13:00	13:05	Welcome
		Scientific Programme Lead: Jane Murphy, Wellcome Connecting Science, UK
13:05	13:15	Welcome
		Scientific Programme Committee: Madeline Lancaster, MRC Laboratory of Molecular Biology, UK Prisca Liberali, Friedrich Miescher Institute, Switzerland Jason Spence, University of Michigan, USA Ludovic Vallier, Berlin Institute of Health, Germany
13:15	14:15	Keynote 1
		Session Chair: Prisca Liberali, Friedrich Miescher Institute, Switzerland Moderator: Ludovic Vallier, Berlin Institute of Health, Germany Understanding human organ development with single cell and organoid technologies Barbara Treutlein, ETH Zürich, Switzerland
14:15	14:20	Comfort break
14:20	15:20	Session 1: Tissue scale imaging
		Session Chair: Ludovic Vallier, Berlin Institute of Health, Germany Moderator: Madeline Lancaster, MRC Laboratory of Molecular Biology, UK
14:20	14:50	Illuminating mechanisms of mammalian development using adaptive light-sheet microscopy Kate McDole, MRC Laboratory of Molecular Biology, UK
14:50	15:05	Role of Mechanical Stiffness in Alveolar Differentiation Ziming Shao, University College London, UK
15:05	15:20	Molecular heterogeneity underpins functional plasticity in intestinal stem cells Silvia Barbiero, Friedrich Miescher Institute, Switzerland.
15:20	16:00	Refreshment break and networking
15:45	16:00	Briefing for Session 2 speakers, microphone runners, chair & moderator - Auditorium
16:00	18:30	Session 2: Engineering complexity
		Session Chair: Madeline Lancaster, MRC Laboratory of Molecular Biology, UK Moderator: Prisca Liberali, Friedrich Miescher Institute, Switzerland
16:00	16:30	Interrogating stem cell niches in the developing human gut to enhance organoid complexity Jason Spence, University of Michigan, USA
16:30	17:00	Engineering Microenvironments for Organoid Architecture: The Power of Simple Tools in Recapitulating System Complexity Masaya Hagiwara, Riken BDR, Japan
17:00	17:30	Engineering adaptable tissue-specific human endothelium for organogenesis and tumorigenesis Shahin Rafii, Cornell University, USA
17:30	17:45	Prenatal Modeling Of Congenital Diaphragmatic Hernia Using Amniotic And Tracheal Fluids-Derived Lung Organoids Mattia Francesco Maria Gerli, University College London, UK
17:45	18:00	Developing a vascularised brain organoid to model haemorrhagic stroke Siobhan Crilly, University Of Galway, Ireland
18:00	18:30	Poster pitch talks for odd number posters
18:30	19:30	Poster session 1 - odd number posters with drinks reception
19:30	21:00	Dinner
19:30		Bar open (card payments only)

Tuesday 10 September 2024

07:30	09:00	Breakfast
09:15	09:30	Briefing for Session 3 speakers, microphone runners, chair & moderator - Auditorium
09:30	11:00	Session 3: Tissue morphogenesis
		<i>Session Chair: Jason Spence, University of Michigan, USA</i> <i>Moderator: Prisca Liberali, Friedrich Miescher Institute, Switzerland</i>
09:30	10:00	Tube Morphogenesis in a Dish Eyal Karzbrun, Weizmann Institute of Science Department of Molecular Genetics, Israel
10:00	10:30	Creating to understand: leveraging stem-cell-based models to elucidate embryo design principles Jesse Veenvliet, Max Planck Institute of Molecular Cell Biology and Genetics, Germany
10:30	10:45	Method of reversing aberrant chromatin erosion to restore full developmental potential of pluripotent stem cells <i>Magdalena Sutcliffe, MRC Laboratory of Molecular Biology, UK</i>
10:45	11:00	Using patient-derived brain organoids to rescue the trafficking defect of NLGN4X Autism <i>Jeremie Courraud, University of Calgary, Canada</i>
11:00	11:45	Refreshment break and networking
11:30	11:45	Briefing for Session 4 speakers, microphone runners, chair & moderator - Auditorium
11:45	13:15	Session 4: Computational modelling
		<i>Session Chair: Prisca Liberali, Friedrich Miescher Institute, Switzerland</i> <i>Moderator: Jason Spence, University of Michigan, USA</i>
11:45	12:15	Title TBC Ewa Paluch, University of Cambridge, UK
12:15	12:45	Dynamical systems theory of self-organized collective cell fate patterning David Brueckner, Institute of Science and Technology, Austria
12:45	13:00	Powering up 3D patient-derived organoids: an integrated, multidisciplinary CRISPR organoid platform for target and drug discovery in oncology <i>Simon Vyse, AstraZeneca, UK</i>
13:00	13:15	Control of lumen geometry and topology by the interplay between pressure and cell proliferation rate in pancreatic organoids <i>Byung Ho Lee, Grapin-Botton Lab, Germany</i>
13:15	14:30	Lunch and networking
14:15	14:30	Briefing for Session 5 speakers, microphone runners, chair & moderator - Auditorium
14:30	16:00	Session 5: Large scale profiling
		<i>Session Chair: Jason Spence, University of Michigan, USA</i> <i>Moderator: Madeline Lancaster, MRC Laboratory of Molecular Biology, UK</i>
14:30	15:00	Emergence of Lipid Territories in Intestinal Morphogenesis Giovanni D'angelo, EPFL, Switzerland
15:00	15:30	Driving Forces: Metabolism in tumour development dynamics Maria Rodriguez Colman, UMC Utrecht, Netherlands
15:30	15:45	Streamlining the Production of Complex Hair-Bearing Skin Organoids: Scaling Up for Success <i>Maryna Panamarova, Sanger Institute, UK</i>
15:45	16:00	Advancing Establishment and Large-Scale Distribution of Organoids: A 3D Human Organoid Core <i>Amal Kambal, Baylor College of Medicine, USA</i>
16:00	16:30	Poster pitch talks for even number posters
16:30	17:30	Poster session 2 - even number posters with drinks reception
17:30	18:30	Free time
18:30	20:30	Dinner
		Bar open (card payments only)

Wednesday 11 September 2024

07:30	09:00	Breakfast
09:15	09:30	Briefing for Session 6 speakers, microphone runners, chair & moderator - Auditorium
09:30	11:00	Session 6 Complex interfaces
		<i>Session Chair: Ludovic Vallier, Berlin Institute of Health, Germany</i> <i>Moderator: Jason Spence, University of Michigan, USA</i>
09:30	10:00	Gene regulation of human cell systems Roser Vento, Wellcome Sanger Institute, UK
10:00	10:30	Building the next generation of neuromuscular models to study disease Mina Gouti, Max Delbrück Center, Germany
10:30	10:45	Modeling the gut microbiota-epithelial-neuronal signaling in a dish revealed the active role of intestinal epithelium in dysbiosis-related visceral hypersensitivity <i>Francesco Margiotta, University of Florence, Italy</i>
10:45	11:00	Programming macrophages in the cardiac niche in development, repair and regeneration <i>Selin Tüzüner, IDRIM- DPAG University of Oxford, UK</i>
11:00	11:45	Refreshment break and networking
11:30	11:45	Briefing for Keynote, microphone runners, chair, moderator & committee - Auditorium
11:45	12:45	Keynote 2
		<i>Session Chair: Madeline Lancaster, MRC Laboratory of Molecular Biology, UK</i> <i>Moderator: Ludovic Vallier, Berlin Institute of Health, Germany</i>
11:45	12:45	Single-Cell and Spatial Omics of Oligodendroglia in Health and Disease Goncalo Castelo-Branco, Karolinska Institute, Sweden
12:45	13:00	Closing remarks and prize presentation
		Scientific Programme Committee: Madeline Lancaster, MRC Laboratory of Molecular Biology, UK Prisca Liberali, Friedrich Miescher Institute, Switzerland Jason Spence, University of Michigan, USA Ludovic Vallier, Berlin Institute of Health, Germany
13:00	13:50	Lunch and departures
13:40		Coach departures for Stansted and Heathrow airports
13:50		Coach departures for Cambridge train station and city centre