Development Meeting 2020: From Stem Cells to Human Development

Provisional programme

Sunday 6 September

12:00	Registration open
12:30	Lunch
14:30	Katherine Brown – Development, UK Welcome
14:45	Kevin Eggan – Harvard University, USA Villages in a dish: ensemble analyses of phenotypes in hundreds of stem cell lines
15:15	Selected speaker 1
15:30	Madeline Lancaster – MRC Laboratory of Molecular Biology, UK Unique aspects of human neuroepithelial tissue morphogenesis and expansion
16:00	Wieland Huttner – Max Planck Institute of Molecular Cell Biology and Genetics, Germany Neural stem cells, human-specific genes, and neocortex expansion in development and human evolution
16:30	Coffee break
17:00	Giorgia Quadrato – University of Southern California, USA Modeling human brain development and disease at single cell resolution with brain organoids
17:30	Selected speaker 2
17:45	Barbara Treutlein – ETH Zürich, Switzerland Cerebral organoid development through the lens of single-cell genomics
18:15	Selected speaker 3
18:30	Pre-dinner drinks and poster viewing in the Evelyn Suite
19:45	Dinner
Monday 7	September

- From 07:00 Breakfast
- 09:00 Meritxell Huch Max Planck Institute of Molecular Cell Biology and Genetics, Germany

Liver organoids to better understand human liver disease

09:30 Selected speaker 4



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09:45	Shuibeng Chen - Weill Cornell Medicine, USA Human pluripotent stem cells, diabetes and precision medicine	
10:15	Selected speaker 5	
10:30	Coffee break	
11:00	Jim Wells – Cincinnati Children's Research Foundation, USA Using human PSC-derived tissues to model gastrointestinal development, disease, and diabetes	
11:30	Selected speaker 6	
11:45	Ludovic Vallier – University of Cambridge, UK Using stem cells to understand the development of the human liver	
12:15	Maike Sander – Columbia University, USA Lessons from human stem cell models for pancreatic development and disease	
12:45	Lunch	
14:00	Kathy Niakan – The Francis Crick Institute, UK Using genome editing and single cell approaches to study early lineage specification in human embryos	
14:30	Jianping Fu – University of Michigan, Ann Arbor, USA Synthetic human embryo-like structures: a new paradigm for human embryology	
15:00	To be announced	
15:30	Coffee break and group photo	
16:15	Matt Hurles – Wellcome Sanger Institute, UK The genetic architecture of developmental disorders	
16:45	Pontus Skoglund – The Francis Crick Institute, UK Bringing the genomic past into the genomic future	
17:15	Selected speaker 7	
17:30	Poster session 1 and pre-dinner drinks in the Evelyn Suite	
19:30	Dinner	
Tuesday 8 September		
From 07:00	Breakfast	

- 09:00 Wei Xie Tsinghua University, China Chromatin reprogramming in early mammalian development
- 09:30 Selected speaker 8
- 09:45 Margherita Yayoi Turco University of Cambridge, UK Endometrial and trophoblast organoids to study early human pregnancy



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10:15 **Selected speaker 9** 10:30 **Coffee break** 11:00 Christine Mummery – Leiden University Medical Center, The Netherlands Cardiovascular disease modelling and human iPS cells: where are we now? Mingxia Gu - Stanford University, USA 11:30 Endocardial contribution to cardiac development and disease 12:00 **Selected speaker 10** 12:15 Lunch **Free time** 13:15 **Coffee break** 15:15 Azim Surani – Wellcome Trust Cancer Research UK Gurdon Institute, UK 15:45 Tracing the specification and development of the human germline 16:15 Selected speaker 11 **Discussion session** 16:30 18:00 Poster session 2 and pre-dinner drinks in the Evelyn Suite 20:00 Dinner

Wednesday 9 September

From 07:00	Breakfast
09:00	Hanna Mikkola – University of California, Los Angeles, USA Mapping human hematopoietic stem cell development
09:30	Selected speaker 12
09:45	Karl Koehler – Boston Children's Hospital, USA Sensory organoids for modeling development and disease
10:15	Coffee break
10:45	Frank Jacobs – University of Amsterdam, The Netherlands Human-specific NOTCH2NL genes and their role in human brain evolution
11:15	To be announced
11:45	James Briscoe – The Francis Crick Institute, UK About time: the species specific pace of development
12:15	Closing remarks
12:30	Lunch and depart



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