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**

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	**Samira Musah – Duke University, USA** Dissecting the mechanisms of human kidney development and disease by using iPS cells and organ chip technologies
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
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?
11:30	**Mingxia Gu - Stanford University, USA** Endocardial contribution to cardiac development and disease
12:00	**Selected speaker 10**
12:15	**Lunch**
13:15	**Free time**
15:15	**Coffee break**
15:45	**Azim Surani – Wellcome Trust Cancer Research UK Gurdon Institute, UK** Tracing the specification and development of the human germline
16:15	**Selected speaker 11**
16:30	**Discussion session**
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**