# Development Meeting 2020: From Stem Cells to Human Development

## Provisional programme

### **Sunday 6 September**

12:00	Registration open
12:30	Lunch
14:30	<b>Katherine Brown – Development, UK</b> Welcome
14:45	<b>Kevin Eggan – Harvard University, USA</b> 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	<b>Giorgia Quadrato – University of Southern California, USA</b> Modeling human brain development and disease at single cell resolution with brain organoids
17:30	Selected speaker 2
17:45	<b>Barbara Treutlein – ETH Zürich, Switzerland</b> 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**

09:30	Selected speaker 4
	Liver organoids to better understand human liver disease
09:00	Meritxell Huch – Max Planck Institute of Molecular Cell Biology and Genetics, Germany
From 07:00	Вгеактах





09:45	<b>Shuibeng Chen - Weill Cornell Medicine, USA</b> Human pluripotent stem cells, diabetes and precision medicine
10:15	Selected speaker 5
10:30	Coffee break
11:00	<b>Jim Wells – Cincinnati Children's Research Foundation, USA</b> Using human PSC-derived tissues to model gastrointestinal development, disease, and diabetes
11:30	Selected speaker 6
11:45	<b>Ludovic Vallier – University of Cambridge, UK</b> 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	<b>Kathy Niakan – The Francis Crick Institute, UK</b> Using genome editing and single cell approaches to study early lineage specification in human embryos
14:30	<b>Jianping Fu – University of Michigan, Ann Arbor, USA</b> 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





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 – MRC Cambridge Stem Cell 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



