

From Stem Cells to Human Development

11-14 September 2022
Wotton House, Surrey, UK

Programme

Sunday 11 September

12:00 **Registration open**

12:30 **Lunch**

14:30 **Development, UK**
Welcome

Session 1

14:45 **Mitinori Saitou:** Mechanism and *in vitro* reconstitution of mammalian germ-cell development

15:15 **SHORT TALK 1**

15:30 **Amander Clark:** Induction of human germ cells from pluripotent stem cells

16:00 **SHORT TALK 2**

16:15 **Coffee break**

16:45 **Naomi Moris:** Embryo-like models: Using self-organising 3D gastruloids to explore human development

17:15 **SHORT TALK 3**

17:30 **Lila Solnica-Krezel:** Germ layer specification in the 2D micropatterned human ESC gastruloids

18:00 **Jean-Léon Maître:** Mechanics of blastocyst morphogenesis

18:30 **Pre-dinner drinks and poster viewing in the Evelyn Suite**

19:45 **Dinner**

Monday 12 September

07:00 **Breakfast**

Session 2

09:00 **Ido Amit:** The power of ONE: Immunology in the age of single cell genomics

09:30 **SHORT TALK 4**

09:45 **Samantha Morris:** New genomic technologies for a quantitative characterization of cell identity

- 10:15 **SHORT TALK 5**
- 10:30 **Coffee break**
- 11:00 **Gray Camp:** Multimodal spatial reconstruction of human retinal organoid development
- 11:30 **SHORT TALK 6**
- 11:45 **Miki Ebisuya:** Stem cell zoo to study species-specific development
- 12:15 **Lunch**
- 14:00 **Free time**
- 15:45 **Coffee break**

Session 3

- 16:00 **Sarah Teichmann:** Human development: One cell at a time
- 16:30 **Sergiu Pasca:** From stem cells to assembloids: Constructing and deconstructing human nervous system development and disease
- 17:00 **Panel discussion session:** Technical, ethical and legal challenges of studying early human development
- 18:00 **Poster session 1 and pre-dinner drinks in the Evelyn Suite**
- 20:00 **Dinner**

Tuesday 13 September

- 07:00 **Breakfast**

Session 4

- 09:00 **Paul Riley:** New insights into human heart development
- 09:30 **SHORT TALK 7**
- 09:45 **Kristina Haase:** Development and disease revealed through tissue-specific *in vitro* vascularization
- 10:15 **SHORT TALK 8**
- 10:30 **Coffee break**
- 11:00 **Vijay Sankaran:** Genetic dissection of human hematopoiesis
- 11:30 **SHORT TALK 9**
- 11:45 **Peter Rugg-Gunn:** Establishing the epigenome in human development and pluripotency
- 12:15 **Wei Xie:** Epigenetic reprogramming and transcription regulation in mammalian preimplantation embryos
- 12:15 **Lunch**

Session 5

- 14:30** **James Briscoe:** About time: The species-specific control of developmental tempo
- 15:00** **SHORT TALK 10**
- 15:15** **Mina Gouti:** Building advanced human neuromuscular organoids to study development and disease
- 15:45** **Coffee break and group photo**
- 16:15** **SHORT TALK 11**
- 16:30** **Katie Long:** How does the human neocortex develop to the right size and shape? The role of the extracellular matrix
- 17:00** **SHORT TALK 12**
- 17:15** **Poster session 2 and pre-dinner drinks in the Evelyn Suite**
- 19:30** **Dinner**

Wednesday 14 September

07:00 **Breakfast**

Session 6

- 09:00** **Emma Rawlins:** Human embryonic lung development: Lessons from tissue-derived organoids
- 09:30** **SHORT TALK 13**
- 09:45** **Prisca Liberali:** Human-to-human variability in intestinal regenerative response
- 10:15** **Coffee break**
- 10:45** **Rocio Sancho:** Pancreas cell fate decisions in development and disease: New organoid models
- 11:15** **SHORT TALK 14**
- 11:30** **Henrik Semb:** Pluripotent stem cells in modeling human organogenesis and monogenetic disease
- 12:00** **SHORT TALK 15**
- 12:15** **Lunch/Depart**