

Provisional programme

Sunday 23 September 2018

- 11:00 **Registration opens**
- 12:30 **Lunch**
- 14:00 **Welcome**
- 14:15 **Antoon Moorman – Academic Medical Centre, The Netherlands**
A 3D atlas of human development
- 14:45 **Alain Chédotal – Institut de la Vision, France**
Tridimensional analysis of human embryogenesis
- 15:15 **Short talk selected from abstracts**
- 15:30 **Short talk selected from abstracts**
- 15:45 **Coffee**
- 16:15 **Janet Rossant – The Hospital for Sick Children, Canada**
How closely do human and mouse pluripotent stem cell states reflect normal development?
- 16:45 **Short talk selected from abstracts**
- 17:00 **Ali Brivanlou – The Rockefeller University, USA**
Self-organisation of spatial patterns in human embryos
- 17:30 **Alfonso Martinez Arias – University of Cambridge, UK**
The self-organisation of the mammalian embryo: an *in vitro* approach
- 18:00 **Pre-dinner drinks and poster viewing**
- 19:30 **Dinner**

Monday 24 September 2018

- 07:00 **Breakfast**
- 09:00 **Kathrin Plath – University of California, Los Angeles, USA**
Epigenetic regulation in early human development
- 09:30 **Short talk selected from abstracts**
- 09:45 **Short talk selected from abstracts**
- 10:00 **Alex Meissner – Max Plank Institute for Molecular Genetics, Germany**
Epigenetic regulation in early human development
- 10:30 **Coffee**
- 11:00 **Mitinori Saitou – Kyoto University, Japan**
Mechanism and *in vitro* reconstitution of human germ cell development

- 11:30** **Short talk selected from abstracts**
- 11:45** **Prisca Liberali* – Friedrich Miescher Institute for Biomedical Research, Switzerland**
Self-organization and symmetry breaking in intestinal organoids development
- 12:15** **Aryeh Warmflash* – Rice University, USA**
Micropatterned systems to study human self-organized developmental patterning
- 12:45** **Lunch**
- 14:00** **Matthias Lutolf – Ecole polytechnique fédérale de Lausanne, Switzerland**
Engineering stem cell self-organisation
- 14:30** **Tracy Grikscheit – Children’s Hospital Los Angeles, USA**
Tissue engineering components of the gastrointestinal tract: from stem cells to organ development
- 15:00** **Fiona Watt – King’s College London, UK**
Studying cell transition states in mammalian epidermis
- 15:30** **Coffee**
- 16:00** **Christopher Walsh – Harvard Medical School, USA**
Somatic mutation and cell lineage and the human brain
- 16:30** **Alex Pollen* – University of California, San Francisco, USA**
Evolution and development of human radial glia
- 17:00** **Short talk selected from abstracts**
- 17:15** **Arturo Alvarez-Buylla – University of California, San Francisco, USA**
Origin and self renewal of adult neural stem cells
- 17:45** **Poster session 1 and pre-dinner drinks**
- 19:45** **Dinner**

Tuesday 25 September 2018

- 07:00** **Breakfast**
- 09:00** **Melissa Little – Murdoch Children’s Research Institute, Australia**
Recreating human kidney tissue
- 09:30** **Christine Seidman – Harvard Medical School, USA**
Steps and missteps in building a human heart
- 10:00** **Short talk selected from abstracts**
- 10:15** **Olivier Pourquié – Harvard Medical School/Brigham and Women’s Hospital, USA**
The human segmentation clock
- 10:45** **Coffee**

- 11:15** **Discussion session: Ethical issues relating to human embryo and stem cell research**
Chair: Robin Lovell-Badge – The Francis Crick Institute, UK
- 12:45** **Lunch**
- 14:00** **Free time**
- 15:45** **Coffee**
- 16:15** **Neil Hanley – University of Manchester, UK**
 Integrated strategies to deconstruct human organogenesis
- 16:45** **Jason Spence – University of Michigan, USA**
 Interrogating endoderm lineage organ development using organoids and embryos
- 17:15** **Emma Rawlins – The Gurdon Institute, UK**
 Cell-cell interactions in normal human lung development
- 17:45** **Poster session 2 and pre-dinner drinks**
- 19:45** **Dinner**

Wednesday 26 September 2018

- 07:00** **Breakfast**
- 09:00** **Silvia Cappello – Max Planck Institute of Psychiatry, Germany**
 Dissecting molecular and cellular mechanisms of human migrating neurons
- 09:30** **Short talk selected from abstracts**
- 09:45** **Short talk selected from abstracts**
- 10:00** **Paola Arlotta – Harvard Medical School, USA**
 Understanding brain development: from the embryo to human brain organoids
- 10:30** **Coffee**
- 11:00** **Malin Parmar – Lund University, Sweden**
 Generation of authentic and subtype-specific neurons for effective brain repair
- 11:30** **James Wells – Cincinnati Children’s Hospital Medical Center, USA**
 Human pluripotent stem cell-derived gastro-intestinal organoids: from organogenesis to personalised medicine
- 12:00** **John Dick – University Health Network, Canada**
 Backtracking human leukaemia evolution to a stem cell origin
- 12:30** **Closing remarks**
- 12:45** **Lunch & depart**

*These speakers are supported by The Company of Biologists’ early career researcher programme.