

From Stem Cells to Human Development

25-28 September 2016 – Southbridge, MA, USA

Programme

Sunday September 25th

- 17.00 Welcome
- 17.15 **Azim Surani** – University of Cambridge, UK
Development of the human germline
- 17.45 **Edith Heard** - Institut Curie, France
Epigenetic dynamics of X-chromosome inactivation in development and disease

- 18.15 Drinks and posters
- 20.00 Dinner

Monday September 26th

- 09.00 **Austin Smith** – University of Cambridge, UK
Human pluripotency
- 09.30 **Fredrik Lanner** - Karolinska Institutet, Sweden
Resolving human preimplantation development using single cell RNA sequencing
- 10.00 **Eric Siggia** – The Rockefeller University, USA
A micropattern assay for signalling in the early human embryo


- 10.30 Coffee

- 11.00 **Jason Spence** - University of Michigan, USA
Modelling human development *in vitro* and *in vivo*
using pluripotent stem cell derived organoids
- 11.30 Short talk selected from abstracts
- 11.45 Short talk selected from abstracts
- 12.00 **Brigid Hogan** - Duke University, USA
Genome editing of human lung stem cells

- 12.30 Lunch

- 13.45 **Anne Grapin-Botton** - University of Copenhagen, Denmark
Three-dimensional models of pancreas development



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- 14.15 Short talk selected from abstracts
- 14.30 Short talk selected from abstracts
- 14.45: **Takanori Takebe** - Yokohama City University, Japan
Modelling early human liver development from pluripotency
- 15.15 **Coffee and posters**
- 17.15 **Hanna Mikkola** - University of California, Los Angeles, USA
Establishing self-renewal during human hematopoietic stem cell development
- 17.45 Short talk selected from abstracts
- 18.00 **Guy Sauvageau** - University of Montreal, Canada
Multifaceted function of polycomb group proteins
- 18.30 **Drinks and posters**
- 20.00 **Dinner**

Tuesday September 27th

- 09.00 **Paola Arlotta** – Harvard Medical School, USA
From cortical development to cortex in the dish
- 09.30 **Pierre Vanderhaeghen** - Université Libre de Bruxelles, Belgium
From pluripotent stem cells to cortical circuits
- 10.00 Short talk selected from abstracts
- 10.15 Short talk selected from abstracts
- 10.30 **Coffee**
- 11.00 **Elena Cattaneo** – University of Milan, Italy
Translating the natural history of human striatal development into pluripotent stem cell differentiation
- 11.30 **Lorenz Studer** - Memorial Sloan Kettering Cancer Centre, USA
Title TBC
- 12.00 **Sally Temple** – Neural Stem Cell Institute, USA
Human retinal pigmented epithelial stem cells – their plasticity and promise for retinal regeneration
- 12.30 **Lunch**

- 13.45 **Yann Barrandon** - Swiss Federal Institute of Technology Lausanne, Switzerland
Human thymic epithelial cells : From structure to function
- 14.15 Short talk selected from abstracts
- 14.30 Short talk selected from abstracts
- 14.45 **Coffee**
- 15.00 Discussion session: translation to the clinic
- 16.30 Social activities
- 19.00 **Drinks**
- 20.00 **Dinner**



Wednesday September 28th

- 09.00 **Laurie Boyer** - Massachusetts Institute of Technology, USA
An epigenetic blueprint for cardiac development
- 09.30 **Gordon Keller** - University Health Network, Canada
Modelling human cardiovascular development from pluripotent stem cells
- 10.00 Short talk selected from abstracts
- 10.15 **Coffee**
- 10.45 **Olivier Pourquié** - Harvard Medical School/Brigham and Woman's Hospital, USA
Making muscle *in vitro*
- 11.15 **April Craft** - Harvard Medical School, USA
Emulating the embryonic development of cartilage to generate functional tissue for repair
- 11.45 **Todd McDevitt** - Gladstone Institute of Cardiovascular Disease, USA
Engineering pluripotent stem cell morphogenesis
- 12.15 Closing remarks
- 12.30 **Lunch & depart**