

Sunday 21 September

12:30 – 14:00	Lunch in the Tempus Restaurant
14:00 – 14:15	Introductions in the Wotton Suite
	Kate Storey – University of Dundee, UK Who are The Company of Biologists?
	Olivier Pourquié – Harvard Medical School/Brigham and Women's Hospital, USA The Workshop and <i>Development</i>
Session 1	Chair: Olivier Pourquié – Harvard Medical School/Brigham and Women's Hospital, USA
14:15 – 14:45	Janet Rossant – Hospital for Sick Children, University of Toronto, Canada Cell signalling in blastocyst development
14:45 – 15:15	Susan Fisher – University of California, San Francisco, USA Epigenetic insights into initial fate decisions during human embryonic development
15.15 – 16:00	Coffee Break
16:00 – 16:30	Jenny Nichols – Cambridge Stem Cell Institute, UK Establishing embryonic pluripotency
16.30 – 17:00	Ali Brivanlou – The Rockefeller University, USA Recapitulation of early embryonic spatial patterning in human embryonic stem cells using micro patterned control of colony architecture
17:00 – 17:45	Poster Teasers Dorota Kurek – Erasmus MC, The Netherlands Siim Pauklin – University of Cambridge, UK Magdalena Renner – IMBA, Institute of Molecular Biotechnology, Austria Rie Saba – Queen Mary University of London, UK Walfred Tang – Wellcome Trust/Cancer Research UK, UK Kenta Yashiro – Queen Mary University of London, UK Jeremiah Zartman – University of Notre Dame, USA
18:00 – 20:00	Poster Session and Pre-Dinner Drinks in the Evelyn Suite Sponsored by 
20:00	Dinner in the Tempus Restaurant

Monday 22 September

07:00 – 09:00

Breakfast in the Tempus Restaurant

Session 2

Chair: **Clare Blackburn** – University of Edinburgh, UK

09:00 – 09:30

Austin Smith – University of Cambridge, UK
Approaching the human ground state

09:30 – 09:45

Miguel Manzanares – Centro Nacional de Investigaciones Cardiovasculares, Spain
Nanog beyond pluripotency

09:45 – 10:15

Danwei Huangfu – Memorial Sloan-Kettering Cancer Centre, USA
hESC-based functional human genetics for understanding developmental mechanisms of birth defects

10:15 – 10:45

Coffee Break

10:45 – 11:15

Hiro Nakauchi – Stanford University/University of Tokyo, USA/Japan
Generation of functional organs from pluripotent stem cells *in vivo*

11:15 – 11:30

Hillel Kugler – Microsoft Research, UK
Modeling stem cell differentiation

11:30 – 12:15

Poster Teasers
Caroline Barcellos-Machado – King's College London, UK
Tristian Bouschet – Institute for Functional Genomics, France
Emily Brookes – Children's Hospital Boston, USA
Emma de Pater – Erasmus MC, The Netherlands
Mantas Matjusaitis – University of Edinburgh
David G. Miguez – Universidad Autonoma de Madrid, Spain
Silvia Parisi – University of Naples "Federico II" and Ceinge, Italy
Eumorphia Remboutsika – University of Athens Medical School, Greece

12.15 – 13:30

Lunch

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Monday 22 September

Session 3

Chair: Austin Smith – University of Cambridge, UK

13:30 – 14:00

Alexander Medvinsky – Centre for Regenerative Medicine, University of Edinburgh, UK
Development of human haematopoietic stem cells

14:00 – 14:30

Elaine Dzierzak – Centre for Inflammation Research, University of Edinburgh, UK
Waves and oscillations in hematopoietic stem cell development

14:30 – 14:45

Cedric Ghevaert – University of Cambridge, UK
Making platelets *in vitro* for transfusion to humans: from stem cell biology to bioengineering

14:45 – 15:15

Clare Blackburn – University of Edinburgh, UK
Thymus development and regeneration

15:15 – 15:30

Group Photo

15:30 – 17:30

Poster Session with Tea in the Evelyn Suite

Chair: Austin Smith – University of Cambridge, UK
Ethical Aspects of Stem Cell Research

17:30 – 18:15

Presenters
Göran Hermerén – Lund University, Sweden
Insoo Hyun – Case Western Reserve University, USA

18:15 – 19:00

Discussion Session
Göran Hermerén – Lund University, Sweden
Insoo Hyun – Case Western Reserve University, USA
Hiro Nakauchi – Stanford University/University of Tokyo, USA/Japan
Janet Rossant – Hospital for Sick Children, University of Toronto, Canada

19:00 – 20:00

Pre-Dinner Drinks and Publishing Discussion in the Orangery Bar

20:00

Dinner in the Evelyn Suite

Tuesday 23 September

07:00 – 09:00

Breakfast in the Tempus Restaurant

Session 4

Chair: **Patrick Tam** – Children's Medical Research Institute, Australia

09:00 – 09:30

Olivier Pourquié – Harvard Medical School/Brigham and Women's Hospital, USA
Making muscle from human pluripotent stem cells

09:30 – 09:45

Sanjay Sinha – University of Cambridge, UK
The importance of embryonic lineage in human vascular smooth muscle cell development and disease

09:45 – 10:00

Lilianna Solnica-Krezel – Washington University School of Medicine, USA
Regulation of heart progenitor cell specification by *Gon4l* chromatin factor

10:00 – 10:30

Benoit Bruneau – Gladstone Institute of Cardiovascular Disease, USA
Transcriptional regulation of cardiogenesis

10:30 – 11:00

Coffee Break

11:00 – 11:15

Christian Dani – University of Nice, France
Generation of brown and white adipocytes during human embryonic development *in vitro*

11:15 – 11:45

Joanna Wysocka – Stanford University, USA
Using pluripotent stem cells to study human development and evolution

11:45 – 12:00

Natasha Frank – Harvard Medical School, USA
ABC5 is a limbal stem cell gene required for corneal development and repair

12:00 – 13:00

Lunch in the Tempus Restaurant

13:00 – 16:00

Free Time

16:00 – 16:30

Tea Break

Tuesday 23 September

Session 5

Chair: Joanna Wysocka – Stanford University, USA

16:30 – 17:00

Juergen Knoblich – IMBA - Institute of Molecular Biotechnology, Austria
Modelling human brain development in 3D culture

17:00 – 17:30

Arnold Kriegstein – University of California, San Francisco, USA
The role of neural stem and progenitor cells in human cortical development

17:30 – 17:45

Jennie Close – Allen Institute for Brain Science, USA
Building a platform to study cortical development using human embryonic stem cells

17:45 – 18:00

Ira Espuny Camacho – Catholic University of Leuven & IRIBHM Universite Libre de Bruxelles, Belgium
Pyramidal neurons derived from human pluripotent stem cells mature to form functional synapses *in vitro* and integrate efficiently into mouse brain circuits *in vivo*

18:00 – 18:30

Rick Livesey – University of Cambridge, UK
Stem cell studies of human cerebral cortex development, evolution and disease

18:30 – 19:30

Pre-Dinner Drinks in the Orangery Bar

19:30

Dinner in the Old Library



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Wednesday 24 September

07:00 – 09:00

Breakfast in the Tempus Restaurant

Session 6

Chair: **Benoit Bruneau** – Gladstone Institute of Cardiovascular Disease, USA

09:00 – 09:30

Jim Wells – Cincinnati Children's Hospital Medical Center, USA
Human pluripotent stem cell-derived tissues as models for development, diabetes and digestive diseases

09:30 – 10:00

Henrik Semb – University of Copenhagen, Denmark
Signalling in human endoderm development

10:00 – 10:15

Ray Dunn – A*STAR Institute of Medical Biology, Singapore
PDX1 represses hepatic genes to ensure robust pancreatic commitment in differentiating human embryonic stem cells

10:15– 10:45

Coffee Break

10:45 – 11:15

Hans Snoeck – Columbia University Medical Center, USA
Generation of lung and airway epithelium from human pluripotent stem cells

11:15 – 11:45

Gordon Keller – McEwen Centre for Regenerative Medicine, Canada
Modeling human development and disease with pluripotent stem cells

11:45 – 12:00

Olivier Pourquié – Harvard Medical School/Brigham and Women's Hospital, USA
Overview of Workshop
Poster Prize Presentations, sponsored by the British Society for Cell Biology and the British Society of Developmental Biology

12:00 – 13:00

Lunch in the Tempus Restaurant

13:00

Depart



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