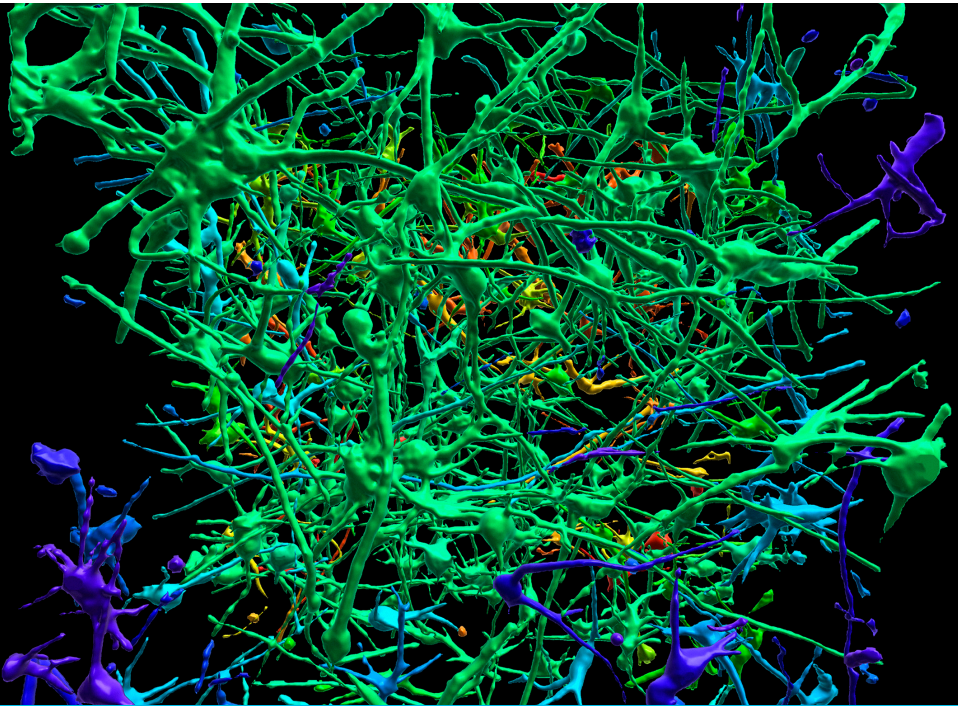
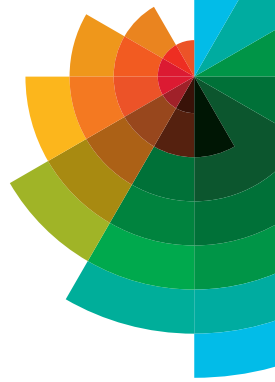


Programme

Human Development: Stem Cells, Models, Embryos



University of Warwick, UK, 7 – 9 September 2026

Development



Human Developmental
Biology Initiative

Human Development: Stem Cells, Models, Embryos

Programme

Monday 7 September

12:00 Registration opens/poster set up

12:30 Lunch

14:00 Welcome

Session 1

14:15 **Jean-Léon Maître** Institut Curie, France

Mechanics of blastocyst morphogenesis

14:45 **Riley McMahon** University of Cambridge, UK

Evolutionary divergence of GATA6 function during mammalian pre-implantation development

15:00 **Magomet Aushev** Monash University, Australia

Spatiotemporal mapping of DNA replication dynamics in the human zygotic cell cycle

15:15 **Jenny Nichols** The University of Edinburgh, UK

Investigating the process of trophectoderm overgrowth as a potential cause of failed implantation or molar pregnancies

15:45 Afternoon break and exhibition

Session 2

16:15 **Hongmei Wang** Chinese Academy of Sciences, China

In vitro models of human implantation and placental development

16:45 **Anna-Maria Prandstetter** Medical University of Vienna, Austria

Direct placental contact shapes the decidua: single-cell insights into EVT–gland Interactions

17:00 **Susana Chuva de Sousa Lopes** Leiden University, The Netherlands

Organogenesis during early human development

17:30 Poster flash talks 1

17:35 – 19:00 Pre-dinner drinks, exhibition and poster session 1

19:15 Dinner

Tuesday 8 September

Session 3

- 09:00** **Sasha Mendjan** Institute of Molecular Biotechnology, IMBA, Austria
Dissecting the human cardiac injury response using cardioids
- 09:30** **Sigolène Meilhac** Institut Imagine and Institut Pasteur, France
Congenital structural heart defects
- 10:00** **Claudio Cortes Rodriguez** University of Oxford, UK
A tale of two hearts: lineages and boundaries in the human cardiac interventricular septum
- 10:15** **Sean Wu** Stanford University, USA
Stem cells and AI approaches to understanding heart development
- 10:45** **Morning break and exhibition**

Session 4

- 11:15** **Jason Spence** University of Michigan, USA
Using organoids to interrogate human development and cellular heterogeneity
- 11:45** **Yang Li** University of Cambridge, UK
Recapitulating human lung development with aggregate models
- 12:00** **Laura Bagamery** Stellar Intelligence, USA
Decoding cell signaling at scale: a predictive framework for controlling cell fate
- 12:15** **Purushothama Rao Tata** Duke University School of Medicine, USA
Multi-lineage circuits in development and regeneration
- 12:45** **Lunch and exhibition**

Session 5

- 14:00** **Naomi Moris** The Francis Crick Institute, UK
Emergent cell fates in developing gastruloids
- 14:30** **Timothy Saunders** University of Warwick, UK
Boundary constraints can determine pattern emergence in an *in vitro* model of human trunk elongation
- 15:00** **Anne Le Goff** SupBiotech Institute, France
Ethics in the making: collaborating on stem-cell-based embryo models
- 15:15** **Sponsor talk – ScryptIQ**
- 15:25** **Afternoon break and exhibition**

Session 6

- 16:00** **Andrea Ditadi** IRCCS Ospedale San Raffaele, Italy
First blood: understanding human hematopoietic development and disease with hPSCs
- 16:30** **Emily Calderbank-May** University of Cambridge, UK
Clonally-resolved dynamics of human haematopoietic *in vitro* differentiation across ontogeny
- 16:45** **Talk by the HDBI public engagement programme**
- 17:00** **Hanna Mikkola** University of California, Los Angeles, USA
Tracking the developmental origins of human hematopoietic and leukemia stem cells
- 17:30** **Poster flash talks 2**
- 17:35 – 19:00** **Pre-dinner drinks, exhibition and poster session 2**
- 19:15** **Dinner**

Wednesday 9 September

Session 7

- 09:00** **Mina Gouti** Max Delbrück Center for Molecular Medicine, Germany
The next frontier in neuromuscular organoids: from developmental logic to predictive models of human disease
- 09:30** **Nikola Popovic** Leiden University Medical Center, The Netherlands
Human cardiac organoids incorporating macrophages reveal inflammation-induced alterations
- 09:45** **Yorick Gitton** Institut de la Vision, France
Multimodal three-dimensional mapping of early human cardiogenesis
- 10:00** **Vaishna Vamadevan** Vanderbilt University, USA
Two-factor signaling unlocks mesoderm commitment in human pluripotent stem cells
- 10:15** **Interactive publishing session**
- 10:45** **Morning break and exhibition**

Session 8

- 11:15** **Parthiv Haldipur** Seattle Children's Research Institute, USA
Human-specific developmental programs illuminate the origins of cerebellar disease
- 11:45** **Giulia Boezio** The Francis Crick Institute, UK
Hierarchical lineage architecture of spinal cord neurogenesis revealed by genomic barcoding
- 12:00** **Rosie Marshall** University College London, UK
Identification of a human-specific population of neural crest cells originating in the lower spine

- 12:15** **Elizabeth Apsley** King's College London, UK
Temporal maturation of human choroid plexus organoids to adult identity
- 12:30** **Arnold Kriegstein** University of California, San Francisco, USA
Genomic insights into early human brain development, evolution and disease
- 13:00** **Lunch and exhibition**

Session 9

- 14:00** **Jianping Fu** University of Michigan, USA
Bioengineering human embryo and organ models
- 14:30** **Anna Beaudin** University of Utah, USA
Developmental origins of tissue immunity: modeling the effects of early life inflammation
- 15:00** **Eyal Karzbrun** Weizmann Institute of Science, Israel
Gut tube organoids on a chip reveal the dynamics of human endoderm development
- 15:15** **Melissa Little** Murdoch Children's Research Institute, Australia
Changing kidney organoid formats for improved disease modelling, drug development and tissue engineering
- 15:45** **Closing remarks**
- 16:00** **End of conference**