

# Human Development - From Embryos to Stem Cell Models

Awaji, Japan Sunday, March 5 - Friday, March 10, 2023

---

Sunday	7:00 pm - 8:30 pm	Opening Remarks & Keynote Lecture 1
Sunday	8:30 pm - 10:00 pm	<i>Sake Tasting Event</i>
Monday	9:00 am - 12:00 pm	<b>1 Embryology</b>
Monday	2:00 pm - 5:00 pm	<b>2 Symmetry</b>
Monday	7:00 pm - 9:30 pm	Poster Session A
Tuesday	9:00 am - 12:00 pm	<b>3 Engineering</b>
Tuesday	2:00 pm - 5:30 pm	Excursion / Free afternoon
Tuesday	7:00 pm - 9:30 pm	<b>4 Embryo models 1</b>
Wednesday	9:00 am - 12:00 pm	<b>5 Embryo models 2</b>
Wednesday	1:30 pm - 5:30 pm	<b>6 Synthetic organs 1</b>
Wednesday	7:00 pm - 9:30 pm	Poster Session B
Thursday	9:00 am - 12:00 pm	<b>7 Synthetic organs 2</b>
Thursday	2:00 pm - 5:00 pm	<b>8 Lineages</b>
Thursday	5:00 pm - 6:00 pm	Keynote Lecture 2 & Closing Remarks
Thursday	6:30 pm - 9:00 pm	<i>Cocktails and Banquet</i>
Friday	9:00 am	Departure

**Times shown are JST (UTC/GMT+9)**

SUNDAY, March 5 – 7:00 PM (UTC/GMT+9)

## Opening Remarks

### KEYNOTE SPEAKER

**Formation of germ layers in 2D micropatterned hESC gastruloids**  
Lilianna Solnica-Krezel Washington University in St. Louis, USA

MONDAY, March 6 – 9:00 AM (UTC/GMT+9)

### SESSION 1 Embryology

#### History of human embryos

Nick Hopwood University of Cambridge, UK

#### Gastrulation of monkey and human embryo in vitro

Weizhi Ji Kunming University of Science and Technology, China

#### Gastrulation morphology in primates

Christoph Viebahn University of Göttingen, Germany

**Talks selected from abstracts x3**

MONDAY, March 6 – 2:00 PM (UTC/GMT+9)

**SESSION 2      Symmetry**

**Breaking embryonic symmetry with synthetic models of the human embryo**

Mijo Simunovic Columbia University, USA

**Evolution of animal asymmetry**

Martin Blum University of Hohenheim, Germany

**Talks selected from abstracts x4**

MONDAY, March 6 – 7:00 PM (UTC/GMT+9)

**POSTER SESSION**

TUESNDAY, March 7 – 9:00 AM (UTC/GMT+9)

**SESSION 3      Engineer ing**

**Title: To be announced**

Eric Siggia Rockefeller University, USA

**Synthetic embryology for constructing human embryo and organ models**

Jianping Fu University of Michigan, USA

**Signaling logic underlying cell fate decisions in human gastrulation**

Aryeh Warmflash Rice University, USA

**Talks selected from abstracts x3**

TUESDAY, March 7 – 1:30 PM (UTC/GMT+9)

**Excursion / Free Afternoon**

TUESNDAY, March 7 – 7:00 PM (UTC/GMT+9)

**SESSION 4      Embryo models 1**

**Efficient and scalable generation of human primordial germ cells**

Susana Chuva de Sousa Lopes Leiden University Medical Centre, The Netherlands

**Modelling human pancreas development and disease**

Anne Grapin-Botton Max Planck Institute of Molecular Cell Biology and Genetics, Germany

**Using human gastruloids to explore human development**

Naomi Moris Francis Crick Institute, UK

**Talks selected from abstracts x3**

WEDNESDAY, March 8 – 9:00 AM (UTC/GMT+9)

**SESSION 5 Embryo models 2**

**Dissecting lineage specification using embryos and stem cell models**

Fredrik Lanner Karolinska Institutet, Sweden

**Reconstructing embryos from multiple stem cells**

Magdalena Zernicka-Goetz University of Cambridge, UK & California Institute of Technology, USA

**Title: To be announced**

Shaorong Gao Tongji University, China

**Title: To be announced**

Jacob Hanna Weizmann Institute of Science, Israel

**Talks selected from abstracts x2**

WEDNESDAY, March 8 – 2:00 PM (UTC/GMT+9)

**SESSION 6 Synthetic organs 1**

**Upgrading the physiological relevance of human brain organoids**

Giorgia Quadrato University of Southern California, USA

**Deconstructing human spinal cord patterning and morphogenesis with in vitro models**

Stephane Nedelec Institut national de la santé et de la recherche médicale, France

**Title: To be announced**

Grayson Camp University of Basel, Switzerland

**Reconstituting human somitogenesis and axial development in vitro**

Cantas Alev Kyoto University, Japan

**Talks selected from abstracts x2**

WEDNESDAY, March 8 – 7:00 PM (UTC/GMT+9)

**POSTER SESSION B**

THURSDAY, March 9 – 9:00 AM (UTC/GMT+9)

**SESSION 7 Synthetic organs 2**

**Generation of the 3D kidney from pluripotent stem cells**

Ryuichi Nishinakamura Kumamoto University, Japan

## **Deconstructing human somitogenesis in vitro**

Olivier Pourquie Harvard Medical School and the Brigham and Woman's Hospital, USA

## **Building multi-lineage ectodermal organs**

Karl Koehler Harvard Medical School and Boston Children's Hospital

## **Title: To be announced**

Hongkui Deng Peking University, China

## **Talks selected from abstracts x2**

THURSDAY, March 9 – 2:00 PM (UTC/GMT+9)

### **SESSION 8 Lineages**

## **Dynamics of lineage segregation in human blastoids**

Ge Guo University of Exeter, UK

## **Blastoids: Shaping mouse and human blastocysts for implantation**

Nicolas Rivron Institute of Molecular Biotechnology, Austria

## **Modeling in vitro embryonic development using naïve pluripotent stem cells**

Yasuhiro Takashima Kyoto University, Japan

## **Title: To be announced**

Kyle Loh Standford University, USA

## **Talks selected from abstracts x2**

### **KEYNOTE SPEAKER**

## **Mechanism and in vitro reconstitution of mammalian germ-cell development**

Mitunori Saitou Kyoto University, Japan

### **Closing Remarks**

Janet Rossant

THURSDAY, March 9 – 6:30 PM (UTC/GMT+9)

### **COCKTAILS and BANQUET**

FRIDAY, March 10 – 9:00 AM (UTC/GMT+9)

### **Departure**