SUNDAY, APRIL 3
Arrival and Registration

MONDAY, APRIL 4
Welcome and Keynote Session (Joint)
- Paola Arlotta, Harvard University, USA
  Programming, Reprogramming and Modeling of the Mammalian Cerebral Cortex
- Matthias Lutolf, EPF Lausanne, Switzerland
  Engineering Epithelial Organoid Development

Embryoids and Gastruloids for Early Development (Joint)
- Jianping Fu, University of Michigan, Ann Arbor, USA
  Building Synthetic Human Embryo-Like Structures
- Magdalena D. Zernicka-Goetz, Caltech and University of Cambridge, UK
  Development of Cell Lineages and Patterning in the Early Mammalian Embryo
- Insoo Hyun, Case Western Reserve University, USA
  Bioengineering Ethics in Organoids

Short Talks Chosen from Abstracts
- High Content Screening with Organoids (X8)
  - Prisca Liberali, Friedrich Miescher Institute for Biomedical Research, Switzerland
    Regenerative Landscape of Intestinal Organoids
  - Lorna Ewart, Emulate Inc., USA
    Next Generation in vitro Systems for Drug Discovery
  - Shuining Chen, Weill Cornell Medical College, USA
    A Multiplex Organoid Platform for Pancreatic Cancer Drug Discovery

Engineering Principles of Developmental Biology and Regeneration (X7)
- Michael Levin, Tufts University, USA
  Pattern Formation and Biological Information Storage During Embryogenesis
- Kevin Kit Parker, Harvard University, USA
  Building Cardiac Anatomy and Physiology into Muscular Pumps
- Christine L. Mummery, Leiden University Medical Center, Netherlands
  Biophysical Techniques for Characterization and Functional Analysis of Cardiovascular Cells

Short Talks Chosen from Abstracts
- Poster Session 1

TUESDAY, APRIL 5
Increasing Complexity in Organoids by Leveraging Development (X8)
- Giorgia Quadrato, University of Southern California, USC Stem Cell, USA
  Modeling Human Brain Development and Disease at Single Cell Resolution with Brain Organoids
- Jason R. Spence, University of Michigan Health System, USA
  Complex Cell-Cell Interactions in the Developing Human Lung and Gut
- Barbara Treutlein, ETH Zürich, Switzerland
  Single Cell Genomics to Guide Human Stem Cell and Tissue Engineering
- Madeline Lancaster, Medical Research Council Laboratory of Molecular Biology, UK
  Using Brain Organoids to Identify Conserved or Unique Factors in Human Brain Size Evolution

Short Talks Chosen from Abstracts
- Microphysiological Systems and Drug Discovery Platforms (X7)
  - Roger D. Kamm, Massachusetts Institute of Technology, USA
    Microphysiological Models for Neurological Disease
  - Sandra J. Engle, Biogen, USA
    In vitro Models to Enable Drug Discovery
  - Danilo A. Tagle, NCATS, National Institutes of Health, USA
    Tissue Chips for Drug Screening
  - Sylvia F. Boj, Hubrecht Organoid Technology, Netherlands
    Patient-Derived Organoids for Drug Development and Screening

Short Talks Chosen from Abstracts
- Improvements in Organoid Maturation (X8)
  - J. Gray Camp, Institute of Molecular and Clinical Ophthalmology, Basel, Switzerland
    Interrogating Evolution using Single Cell Genomics and Genome Engineering
  - James M. Wells, Cincinnati Children's Hospital Research Foundation, USA
    Organoids to Model Human Development and Disease
  - James Hudson, QIMR Berghofer Medical Research Institute, Australia
    Guiding the Form and Function of Human Cardiac Organoids

Short Talks Chosen from Abstracts
- Advanced Technologies for Engineering Multi Cellular Living Systems: Computation (X7)
Yoshihiro Morishita, RIKEN, Japan
Quantitative Analysis of Tissue and Cell Dynamics Towards Revealing Design Principles for Organ Morphogenesis

Melissa L. Kemp, Georgia Institute of Technology, USA
Modeling Self-Organization in Multi-Cellular Engineered Living Systems

Elebeoba E. May, University of Houston, USA
Multiscale Models of Spatiotemporal Response to Mycobacterium Infection

THURSDAY, APRIL 7
Departure

Poster Session 2

WEDNESDAY, APRIL 6

Organoids for Disease Modeling (X8)

Meritxell Huch, Max Planck Institute of Molecular Cell Biology and Genetics, Germany
Liver Organoids for Human Biology and Disease

Samira Musah, Duke University, USA
Stem Cell-Derived Organ Chips for Disease Modeling

Mina Gouti, Max-Delbrück Center for Molecular Medicine, Germany
Neuromuscular Organoids to Model Human Development and Disease

Anna Greka, Harvard Medical School, USA
Modeling Genetic Diseases in Human Kidney Organoids

Short Talks Chosen from Abstracts

Advanced Technologies for Engineering Multi-Cellular Living Systems: Imaging, Biomaterials, and 3D Printing (X7)

Rashid Bashir, University of Illinois, USA
3D Printed Cellular Machines for Engineering and Biology

Adam W. Feinberg, Carnegie Mellon University, USA
3D Bioprinting of Collagen to Rebuild Components of the Human Heart

Anjelica L. Gonzalez, Yale University, USA
Development of Biomaterials for Use As Investigational Tools

Claire G. Jeong, Bristol Myers Squibb, USA
Talk Title to be Announced

Short Talks Chosen from Abstracts

Bioengineering of Organoids (Joint)

Nuria Montserrat Pulido, Institute for Bioengineering of Catalonia, Spain
Engineering Solutions for Pluripotent Stem Cell Derived Kidney Organoids

Jennifer A. Lewis, Harvard University, SEAS, USA
Biomanufacturing of Vascularized Organoids and Organ-Specific Human Tissues

Melissa Little, Murdoch Children’s Research Institute, Australia
Engineering Kidney Tissue for Transplantation

Short Talks Chosen from Abstracts
Meeting Wrap-Up: Outcomes and Future Directions (Organizers)  
(X8)

Meeting Wrap-Up: Outcomes and Future Directions (Organizers)  
(X7)