MONDAY, FEBRUARY 1
Arrival and Registration

TUESDAY, FEBRUARY 2
Welcome and Keynote Address
Joseph C. Wu, Stanford University School of Medicine, USA
*IPSC Modeling of Cardiovascular Disease for Precision Medicine*

**Molecular Mechanism of Cardiogenesis**
Nicole Dubois, Icahn School of Medicine at Mount Sinai, USA
*Establishing Lineage Heterogeneity During Early Heart Development*

Ivan P. Moskowitz, University of Chicago, USA
*Gene Regulatory Network Control of Cardiac Development*

Katherine E. Yutzey, Cincinnati Children's Hospital Medical Center, USA
*Role of Macrophage Lineages during Valvulogenesis and Fibrosis*

**Short Talks Chosen from Abstracts**

**Cellular and Organismal Modeling of Congenital Heart Disease**
Mona Nemer, University of Ottawa, Canada
*Modeling of Bicuspid Aortic Valve in Mice*

Caroline E. Burns, Harvard Medical School, Boston Children's Hospital, USA
*Zebrafish Model of DiGeorge Syndrome*

**Short Talks Chosen from Abstracts**

**Biophysic of Cardiomyocytes**
Michael Regnier, University of Washington, USA
*Disease of the Sarcomere: Cardiomyopathy Mutations that Alter Structure and Function*

Wolfgang A. Linke, University of Munster, Germany
*Titin Biomechanics and Dilated Cardiomyopathy*

Benjamin L. Prosser, University of Pennsylvania, USA
*Microtubule Tyrosination and Cardiomyocyte Function*

Stefan Luther, Max Planck Institute, Germany
*Imaging of Complex Arrhythmia*

**Short Talks Chosen from Abstracts**

**Poster Session 1**

**WEDNESDAY, FEBRUARY 3**

**Modeling of Cardiomyopathy From Genes to Phenotypes**
Christine E. Seidman, Harvard Medical School, USA
*Molecular Reponses to Cardiomyopathy Mutations*

Speaker to be Announced

Jil C. Tardiff, University of Arizona, USA
*Thin Filament Biology in Sarcomeric Cardiomyopathies*

Eric N. Olson, University of Texas Southwestern Medical Center, USA
*Genome Editing for Duchenne Muscular Dystrophy*

**Short Talks Chosen from Abstracts**

Workshop 1: Resolving the Genotype-Phenotype Conundrum in Congenital Heart Disease and Inherited Cardiomyopathies

**Short Talks Chosen from Abstracts**

**Resolving the Transcriptional Landscape of the Heart at Single Cell Resolution**

Sean M. Wu, Stanford School of Medicine, USA
*Single Cell RNA Seq of the Developing Heart*

Philipp Junker, Max Delbrück Center for Molecular Medicine, Germany
*Cellular Drivers of Heart Regeneration in the Zebrafish*

Norbert Hubner, Max-Delbrück-Centrum für Molekulare Medizin, Germany
*Nuclear RNA Seq of Human Cardiac Cells*

**Short Talks Chosen from Abstracts**

**Poster Session 2**

**THURSDAY, FEBRUARY 4**

**Engineered Cardiac Tissues for Disease Modeling**

James Hudson, QIMR Berghofer Medical Research Institute, Australia
*Cardiac Organoid for Cardiac Maturation Phenotype Screening*

Milica Radisic, University of Toronto, Canada
*Engineered Platform for High Throughput Disease Modeling and Drug Screening*

Jordan S. Miller, Rice University, USA
*Engineering Vasculature in 3D Tissue*

Christopher S. Chen, Boston University, USA
*Engineering Tissue Platforms for Modeling Cardiomyopathy*

**Short Talks Chosen from Abstracts**

**Workshop 2: Challenges and Opportunities in 2D and 3D Models of Cardiac Disease for Therapeutic Development**

Wolfram H. Zimmermann, University Medical Center Göttingen, Germany
*Tissue Engineered Patch for Heart Repair*

Speaker to be Announced

**Therapeutic Approaches to Cardiac Repair and Regeneration**

Charles E. Murry, University of Washington, USA
*Pluripotent Stem Cell-Derived Cardiomyocyte Transplantation for Heart Repair*

**Short Talks Chosen from Abstracts**

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

**FRIDAY, FEBRUARY 5**
Departure