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 Responses 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

Short Talks Chosen from Abstracts

Therapeutic Approaches to Cardiac Repair and Regeneration
Charles E. Murry, University of Washington, USA
*Pluripotent Stem Cell-Derived Cardiomyocyte Transplantation for Heart Repair*

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

Speaker to be Announced

Short Talks Chosen from Abstracts

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

FRIDAY, FEBRUARY 5
Departure