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 Cardiomopathy

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