SUNDAY, FEBRUARY 12
Arrival and Registration

MONDAY, FEBRUARY 13
Welcome and Keynote Address
Joseph C. Wu, Stanford University, USA
 iPSC Modeling of Congenital Heart Disease for Precision Medicine
Mechanism of Cardiogenesis and Congenital Heart Disease
Nicole Dubois, Icahn School of Medicine at Mount Sinai, USA
Establishing Lineage Heterogeneity During Early Heart Development
Nicole Dubois, Icahn School of Medicine at Mount Sinai, USA
Role of Macrophage Lineages during Valvulogenesis and Fibrosis
Kristy Red-Horse, Stanford University, USA
Collateral Formation in Cardiac Development and Repair
Katherine E. Yutzey, Cincinnati Children's Hospital Medical Center, USA
Establishing Lineage Heterogeneity During Early Heart Development
Katherine E. Yutzey, Cincinnati Children's Hospital Medical Center, USA
Role of Macrophage Lineages during Valvulogenesis and Fibrosis
Kristy Red-Horse, Stanford University, USA
Collateral Formation in Cardiac Development and Repair
Mona Nemer, University of Ottawa, Canada
Modeling of Bicuspid Aortic Valve in Mice
Short Talks Chosen from Abstracts
Epigenome of Heart Development and Disease
Ivan P. Moskowitz, University of Chicago, USA
Gene Regulatory Network Control of Cardiac Development
Katherine S. Pollard, University of California, San Francisco, USA
Epigenetic of Cardiac Development and Reprogramming
Short Talks Chosen from Abstracts
Poster Session 1

TUESDAY, FEBRUARY 14
Cardiomyopathies: From Genes to Therapy
Christine E. Seidman, Harvard Medical School, USA
Molecular Reponses to Cardiomyopathy Mutations
Evangelia G. Kranias, University of Cincinnati, USA
Therapeutic Modulation of Phospholamban Cardiomyopathy
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
Poster Session 2
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
Phillipp 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

WEDNESDAY, FEBRUARY 15
Engineered Cardiac Tissues for Disease Modeling
James E. Hudson, QIMR Berghofer Medical Research Institute, Australia
Cardiac Organoid for Cardiac Maturation Phenotype Screening
Robert Zweigerdt, Medizinische Hochschule Hannover, Hannover Medical School, Germany
Cardiac Aggregate Model of Early Heart Development
Milica Radisic, University of Toronto, Canada
Engineered Platform for High Throughput Disease Modeling and Drug Screening
Christopher S. Chen, Boston University, USA
Engineering Tissue Platforms for Modeling Cardiomaphy
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 and Sana Biotechnology, 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)

THURSDAY, FEBRUARY 16
Departure