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

* Session Chair † Invited but not yet accepted  Program current as of March 13, 2020. Program subject to change. Meal formats are based on meeting venue. For the most up-to-date details, visit https://www.keystonesymposia.org.