MONDAY, APRIL 15
Arrival and Registration

TUESDAY, APRIL 16
Welcome and Keynote Address
Wolf Reik, Altos Labs, Cambridge Institute of Science, UK
Cardiac Rejuvenation in Epigenetic Reprogramming

Epigenome, 3D Chromatin Conformation and New Technology
Leslie A. Leinwand, University of Colorado Boulder, USA
Talk Title to be Announced
Izhak Kehat, Technion–Israel Institute of Technology, Israel
Localized Translation in Cardiomyocytes
Emily S. Wong, Victor Chang Cardiac Research Institute, Australia
Evolutionary Enhancer Code and 3D Chromatin
Lorenz H. Lehmann, University of Heidelberg, Germany
Short Talk: A Memorized Super enhancer Regulates Metabolic Flexibility via Retinoid Acid Signaling in the Heart
Poster Session

Career Roundtable

Gene Regulation, Cell States and Regeneration
Enzo R. Porrello, Murdoch Children’s Research Institute, Australia
Lineage Tracking for Cell States in Cardiac Repair
Li Qian, University of North Carolina at Chapel Hill, USA
Epigenetic Regulation of Cardiac Reprogramming
Lynn Devilee, QIMR Berghofer, Australia
Short Talk: Cell Cycle Re-Entry Follows Functional Inhibition of Cardiomyocytes in Mature Human Cardiac Organoids
Ahmed I. Mahmoud, University of Wisconsin - Madison, USA
Short Talk: Decoding the Interplay Between Metabolism and Epigenetics During Adult Heart Regeneration
Nathan Palpant, University of Queensland, Australia
Short Talk: HOPX Associated Molecular Programs Control Cardiomyocyte Cell States Underpinning Cardiac Development and Disease
Shambhabi Chatterjee, Hannover Medical School, Germany
Short Talk: Telomerase is Crucial for Survival, Function and Regeneration of Cardiomyocytes

WEDNESDAY, APRIL 17
Metabolism, Obesity and Gene Regulation
Thomas Thum, Medical School Hannover, Germany
Preclinical and Clinical Development of Noncoding RNA Therapeutics for Cardiovascular Diseases
Johannes Backs, University of Heidelberg, Germany
HDAC Signaling in Cardiometabolic Disease
Kathy Lui, Chinese University of Hong Kong, Hong Kong
Epigenetic States of Cardiomyocytes
Pieterjan Dierickx, Max Planck for Heart & Lung Research, Germany
Short Talk: NAD+ Controls Circadian Rhythmic Gene Expression During Cardiac Aging

Niranjan Natarajan, University of Pittsburgh, USA
Short Talk: Epigenetic Regulation of Macrophage Function in Cardiovascular Disease
Emmanouil Georgios Solomonidis, Goethe University, Germany
Short Talk: Hematopoietic Loss of KDM6A Impairs Cardiac Recovery Post Myocardial Infarction via Pro-Inflammatory Myeloid Cells
Junedh Mahesh Amrute, Washington University School of Medicine in St. Louis, USA
Short Talk: Runx1 Gene Regulatory Network in Macrophages Facilitates Cardiac Recovery

Workshop
Alessia Costa, MHH, Germany
An Engineered Reporter Tool to Track Human Cardiomyocyte Proliferation
Diana Harleidy Vargas-Trujillo, ALPINA Productos Alimenticios S.A.S BIC, Colombia
Effect of Nutritional Modulation in Microbial-Derived Succinate Pathways and its Epigenetic Implications in Cardiovascular Disease
Mahesh Suresh Karandikar, D.Y.Patil Medical College, India
Epigenetic Adaptations in the Heart to Promote Cardiomyocyte Survival and Longevity
Cheng-Fu Kao, Academia Sinica, Taiwan
Epigenetic Regulator RNF20 Underlies Temporal Hierarchy of Gene Expression to Regulate Postnatal Cardiomyocyte Polarization
Christian Bär, Institute of Molecular and Translational Therapeutic Strategies - IMTTS, Germany
Long Non-Coding RNA Foxo6os Prevents Cardiomyocyte Death and Attenuates Myocardial Infarction Injury
Alexandre R. Colas, Sanford-Burnham Medical Research Institute, USA
Transcription Factor-Mediated Control of Chromatin Accessibility During Cardiac Reprogramming

Histones and DNA Regulatory Elements
James E. Hudson, QIMR Berghofer Medical Research Institute, Australia
BET Inhibitors for CVD
Timothy A. McKinsey, University of Colorado Denver, USA
Unexpected Roles for HDAC11
Roger Foo, National University of Singapore, Singapore
Multiplex Assessment of Cardiac Distal Regulatory Elements
Artemy Zhigulev, KTH Royal Institute of Technology, Sweden
Short Talk: The Role of Rare Enhancer Variants in Bicuspid Aortic Valve Pathology
Chang Jie Mick Lee, National University of Singapore, Singapore
Short Talk: Validating Functional Histone-acetylated Variant Enhancers in Human Hearts using a STARR-seq Approach

THURSDAY, APRIL 18
Vascular Gene Regulation
Saptarsi M. Haldar, Amgen Inc., USA
Drug Discovery in CVD Epigenetics
Costanza Emanueli, Imperial College London, UK
Regulation of MicroRNA Expression and Function in the Human Heart

Yibin Wang, Duke-NUS, Singapore, Singapore
Ribosome Biogenesis Control in Cardiac Hypertrophy

Hanjoong Jo, Emory University, USA
Flow-induced Vascular Cell Reprogramming and Atherosclerosis by Transcriptomic and Epigenomic Regulation

Gergana Dobreva, Heidelberg University, Germany
Epigenetic Regulation of Cardiovascular Cell Fate and Function

Janice Reid, QIMR Berghofer Medical Research Institute, Australia
Short Talk: Constructing a Ligand Signaling Transcriptome Encyclopedia for the Heart

Epitranscriptomics, RNA and DNA Modifications

Susmita Sahoo, Icahn School of Medicine at Mount Sinai, USA
Epitranscriptomics in Cardiac Remodelling and Repair

Federica Accornero, Brown University, USA
RNA-Dependent Mechanisms of Heart Failure

Changcheng Zhou, University of California, Riverside, USA
Short Talk: Paternal Hypercholesterolemia Alters Sperm tsRNAs/rsRNAs and Elicits Sex-Specific Exacerbation of Atherosclerosis in Offspring

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

FRIDAY, APRIL 19
Departure