Monday, July 10

8:00 AM
Galleria I (Ballroom Level)
Registration/Exhibits Open

9:45 -10:00 AM
Grand Ballroom I (Ballroom Level)
Early Career Pre-Conference Session: Welcome Address
Nicole H. Purcell, PhD, University of California San Diego, San Diego, California
Sakthivel Sadayappan, PhD, MBA; University of Cincinnati College of Medicine, Cincinnati, Ohio

10:00 – 11:15 AM
Grand Ballroom I (Ballroom Level)
Early Career Pre-Conference Session 1: “Next Best Thing” in Cardiovascular Research

Moderators:
Susmita Sahoo, PhD, Mount Sinai Ichan School of Medicine, New York, New York
Jop H. van Berlo, MD, PhD, University of Minnesota, Minneapolis, Minnesota

Oral Abstract Presentations
10:00 Two Different Microdomains of β₁-adenoreceptor Signaling Revealed by Live Cell Imaging
Alexander Froese, Viacheslav O Nikolaev, Univ Medical Ctr Hamburg, Hamburg, Germany

10:15 Cardiac Activation of β-catenin in Mice Leads to Prolongation of QRS and Susceptibility to Arrhythmia by Inhibiting Na⁺ Channel Activity through Suppression of Na;1.5 Expression
Rong Huo, Chaowei Hu, Yan Lu, UCLA, Los Angeles, CA; Ning Wang, Harbin Medical Univ, Harbin, China; Bo Ye, Univ of Minnesota, Minneapolis, MN; Arjun Deb, UCLA, Los Angeles, CA; Fajian Li, Univ of Minnesota, Minneapolis, MN; Haodong Xu, UCLA, Los Angeles, CA

10:30 Kinase-independent Function of PI3Kγ Enables ERK Activation
Maradumane L Mohan, Arunachal Chatterjee, Swetha Ganapathy, Sromona Mukherjee, Sathyamangla V Naga Prasad, CLEVELAND CLINIC FOUNDATION, Cleveland, OH

10:45 Myocardial Hypertrophy and Circulating RNAs

11:00 CTRP9 Regulates the Fate of Implanted Mesenchymal Stem Cells and Mobilizes Their Protective Effects against Ischemic Heart Injury via Multiple Novel Signaling Pathways
Monday continued

11:20 – 11:50 AM
Grand Ballroom I (Ballroom Level)
Early Career Pre-Conference Session 2: Featured Presentation

Moderator:
Nicole H. Purcell, PhD, University of California San Diego, San Diego, California

11:20 Setting Goals and Scoring Goals: How to Balance a Career in Science and Soccer
Pilar Alcaide, PhD, Tufts University, Boston, Massachusetts

11:50 AM – 12:40 PM
Break/Lunch on your own

12:40 -- 1:00 PM
Grand Ballroom (Ballroom Level)
BCVS 2017 Scientific Sessions: Opening Welcome

John J. Warner, MD, MBA, UT Southwestern Medical Center University Hospitals, Dallas, Texas, and President, American Heart Association

Ronglih Liao, PhD, FAHA, Brigham and Women’s Hospital and Harvard Medical School, Boston, Massachusetts, and Chair, Basic Cardiovascular Sciences Council

1:00 – 1:30 PM
Refreshment Break/Exhibits

1:30 - 2:45 PM
Grand Ballroom I (Ballroom Level)
Concurrent Session 1A: Cardiac Fibrosis

Moderators:
Donald R. Menick, PhD, Medical University of South Carolina, Charleston, South Carolina
Timothy A. McKinsey, PhD, University of Colorado, Aurora, Colorado

1:30 Targeting Fibrosis Within and Beyond the Heart
Burns C. Blaxall, PhD, FAHA, Cincinnati Children’s Hospital Medical Center, Cincinnati, Ohio

1:45 Master Regulators of Cardiac Fibroblast Activation
Jennifer Davis, PhD, University of Washington, Seattle, Washington

2:00 MMP-12 is a Post-MI Inflammation Resolution Promoting Factor
Merry L. Lindsey, PhD, University of Mississippi Medical Center, Jackson, Mississippi

2:15 Developmental Underpinnings of Vascular Disease in Loeys-Dietz Syndrome
Elena Gallo-MacFarlane, PhD, Johns Hopkins University, Baltimore, Maryland

Oral Abstract Presentation
2:30 Sprr2b Drives Proliferation of Cardiac Fibroblasts by Relieving p53-mediated Cell Cycle Inhibition
Ryan M Burke, Janet K Lighthouse, Pearl J Quijada, Ronald Dirkx, Michael A. Trembley, Eric M. Small, UNIVERSITY OF ROCHESTER, Rochester, NY
Monday continued

1:30 - 2:45 PM

Grand Ballroom II (Ballroom Level)

Concurrent Session 1B: Cardioprotection and Oxidative Stress

Moderators:
Chi Fung Lee, PhD, University of Washington, Seattle, Washington
Jalees Rehman, MD, FAHA, University of Illinois at Chicago, Chicago, Illinois

1:30  Nox4-mediated Cardiac Stress Responses
Ajay Shah, MD, FMedSci, King's College Hospital, London, United Kingdom

1:45  Mapping the O-GlcNAc-mediated Cytoprotective Network
Natasha E. Zachara, PhD, Johns Hopkins School of Medicine, Baltimore, Maryland

2:00  Antioxidative Cardiokines and Their Role in Stem Cell Survival and Cardiac Repair
Xin Ma, MD, Thomas Jefferson University, Philadelphia, Pennsylvania

2:15  Role of Mitochondrial and Cellular Iron in Cardiovascular Disease
TBA

Oral Abstract Presentation

2:30  MANF, A Structurally Unique Redox-Sensitive Chaperone, Restores ER Protein Folding in the Ischemic Heart
Adrian Arrieta, Erik A. Blackwood, Winston T. Stauffer, Michelle Santo Domingo, Amber N. Pentoney, Donna J. Therauf, San Diego State Univ, San Diego, CA; Shirin Doroudgar, Dept of Cardiology, Angiology, and Pneumology, Univ Hosp Heidelberg, Germany, San Diego, CA; Christopher C. Glembotski, San Diego State Univ, San Diego, CA

2:45 - 3:15 PM

Grand Ballroom Foyer

Refreshment Break, Exhibits

3:15 - 4:30 PM

Grand Ballroom I (Ballroom Level)

Concurrent Session 2A: Novel Approaches to the Study of Cardiac Signaling and Compartmentation

Moderators:
Benoit Boivin, PhD, SUNY Polytechnic Institute/CNSE, Albany, New York
Maria Kontaridis, PhD, FAHA, Beth Israel Deaconess Medical Center, Boston, Massachusetts

3:15  Local Calcium and Kinase Signaling in Cardiac Myocyte Nanodomains
Donald M. Bers, PhD, University of California, Davis, Davis, California

3:30  Compartmentation of Natriuretic Peptide Receptors and Their cGMP Signals Revealed by SICM and FRET
Viacheslav Nikolaev, PhD, University Medical Center Hamburg-Eppendorf, Hamburg, Germany

3:45  PDE4 and mAKAPβ are Nodal Organizers of β2-ARs Nuclear PKA Signaling in Cardiac Myocytes
Gregorie Vandecasteele, PhD, INSERM U769, Université Paris-Sud 11, Châtenay-Malabry, France
4:00  The beta1-adrenergic Receptor N-terminus as a Molecular Determinant of Signaling Responses
       Susan F. Steinberg, MD, Columbia University, New York, New York

Oral Abstract Presentation
4:15  Loss of Type 9 Adenylyl Cyclase Triggers Reduced Phosphorylation of Hsp20 and Diastolic Dysfunction
       Tanya A Baldwin, Yong Li, Yan Wang, Cameron S Brand, Carmen W Dessauer,
       McGovern Medical Sch at Univ of Texas Health Science Ctr at Houston
       (UTHealth), Houston, TX

3:15 - 4:30 PM
Grand Ballroom II (Ballroom Level)
Concurrent Session 2B: Mitochondrion and Heart Failure

Moderators:
Jeffrey D. Molkentin, PhD, Children’s Hospital Medical Center, Cincinnati, Ohio
Elizabeth (Tish) Murphy, PhD, National Heart, Lung, and Blood Institute/National Institutes of Health,
Bethesda, Maryland

3:15  Regulation of Metabolism in Individual Mitochondria During EC-Coupling
       W. Jonathan Lederer, MD, PhD, University of Maryland School of Medicine, Baltimore, Maryland

3:30  Novel Roles of CaMKII in Regulating Mitochondrial Dynamics and Energetics
       Wang Wang, MD, PhD, University of Washington, Seattle, Washington

3:45  The Cardiomyopathy of Defective Mitochondrial Fusion: Causes and Cures
       Gerald W. Dorn, MD, FACC, FAHA, Washington University School of Medicine, St. Louis,
       Missouri

4:00  ATP Citrate Lyase Links Mitochondrial Function and Protein Turnover in the Heart
       Heinrich Taegtmeyer, MD, D Phil, University of Texas Medical School, Houston, Texas

Oral Abstract Presentation
4:15  Regulation of Mitochondrial Complex I Assembly
       Edward Owusu-Ansah, Columbia Univ, New York, NY

4:30 - 7:00 PM
Exhibit Hall (Access from Ballroom Level)
Poster Session 1
TUESDAY, JULY 11

7:00 AM
*Galleria I (Ballroom Level)*
Registration

7:00 – 8:00 AM
*Skyline II (23rd Floor)*
Continental Breakfast, Exhibits

7:00 – 8:00 AM
*Grand Ballroom Foyer*
**Women in Science Breakfast**
Registration/Ticket Required to attend

8:00 – 9:15 AM
*Grand Ballroom I (Ballroom Level)*
**Concurrent Session 3A: Gene Therapy and Novel Cardiac Therapeutics**

Moderators:
Walter J. Koch, PhD, FAHA, Temple University School of Medicine, Philadelphia, Pennsylvania
Toyoaki Murohara, MD, PhD, Nagoya University Graduate School of Medicine, Nagoya, Japan

8:00  **Cardiac Gene Therapy with AAV Vectors**
Thomas Weber, PhD, Icahn School of Medicine at Mount Sinai, New York, New York

8:15  **mAKAP-RSK3 Signaling Targeted Gene Therapy for Heart Failure**
Michael Kapiloff, MD, PhD, FAHA, Stanford University, Stanford, California

8:30  **Microvascular Maturation - Disease Modifier and Therapeutic Target**
Christian Kupatt, MD, Klinikum Grossahdern, Muenchen, Germany

8:45  **Gene Transfer to Increase Glucose Disposal in Diabetes**
H. Kirk Hammond, MD, University of California-San Diego, San Diego, California

**Oral Abstract Presentation**
9:00  **Restoring Nitroso-Redox Balance as a Therapeutic Approach for Cardiovascular Disease**
Vikram Shettigar, Honglan Wang, Bo Zhang, Steve R Roof, Paul M Janssen, Jonathan P Davis, Ohio State University, Columbus, OH; Richard J Gumina, Vanderbilt Univ Medical Ctr, Nashville, TN; Brandon J Biesiadecki, Frederick A Villamena, **Mark T Ziolo**, Ohio State University, Columbus, OH

8:00 – 9:15 AM
*Grand Ballroom II (Ballroom Level)*
**Concurrent Session 3B: Sarcomere Function and Cardiomyopathies**

Moderators:
Aldrin Gomes, PhD, University of California Davis, Davis, California
Samantha Harris, PhD, University of Arizona, Tucson, Arizona

8:00  **Decipher TTN-based Cardiomyopathy via Zebrafish Genetics**
Xiaolei Xu, PhD, Mayo Clinic, Rochester, Minnesota
Tuesday continued

8:15 Phospho-proteomics in Heart Failure and Cardiomyopathy
Anne M. Murphy, MD, Johns Hopkins University, Baltimore, Maryland

8:30 Structure-Function Consequences of Disease Associated Mutations in Cardiac Troponin I
Michael Regnier, PhD, University of Washington, Seattle, Washington

8:45 Myosin Binding Protein C Mutations in Hypertrophic Cardiomyopathy
Sharlene M. Day, MD, University of Michigan, Ann Arbor, Michigan

Oral Abstract Presentation
9:00 Restoration of Impaired Diastolic Function in Hypertrophic Cardiomyopathy
Induced Pluripotent Stem Cell-Derived Cardiomyocytes by Re-balancing the Calcium Homeostasis
Haodi Wu, Huaxiao Yang, Joe Zhang, Chi Keung Lam, June-Wha Rhee, Timon Seeger, Karim Sallam, Ning Ma, Joseph Wu, STANFORD UNIVERSITY, Stanford, CA

9:15 – 9:45 AM
Grand Ballroom Foyer
Refreshment Break, Exhibits

9:45 – 11:00 AM
Grand Ballroom I (Ballroom Level)
Concurrent Session 4A: Epigenetics

Moderators:
Sarah Franklin, PhD, University of Utah, Salt Lake City, Utah
Tom M. Vondriska, PhD, David Geffen School of Medicine at UCLA, Los Angeles, California

9:45 Novel Epigenetic Targets in Heart Failure
Saptarsi Haldar, MD, University of California San Francisco, San Francisco, California

10:00 Epigenetic Analysis of Chronic Heart Failure and the Possibility of Novel Therapy
Ruri Kaneda, MD, PhD, Keio University School of Medicine, Tokyo, Japan

10:15 Transcriptional Phenotypes in Cardiac Hypertrophy
Maha Abdellatif, MD, PhD, Rutgers University, Newark, New Jersey

10:30 Role of Histone Methylation in Cardiac Myocyte Cell Cycle Exit
W. Robb MacLellan, MD, University of Washington, Seattle, Washington

Oral Abstract Presentation
10:45 Chromatin Organization in Diseased and Healthy Mouse Heart
Chukwuemeka George Anene Nzelu, Dominic Lee, Wilson Tan, Zenia Tiang, Matias Autio Ilmaris, Peter Li, Melissa Fullwood, Roger Foo, National Univ of Singapore, Singapore, Singapore
Tuesday continued

9:45 – 11:00 AM
Grand Ballroom II (Ballroom Level)
Concurrent Session 4B: Stem Cell Therapies

Moderators:
Joshua Hare, MD, FAHA, University of Miami, Miami, Florida
Masaki Ieda, MD, PhD, Keio University School of Medicine, Tokyo, Japan

9:45  Inhibition of miR375 Enhances BM Stem Cell Mediated Cardiac Repair
Raj Kishore, PhD, FAHA, Temple University School of Medicine, Philadelphia, Pennsylvania

10:00  Cardiac Repair with Human Cardiomyocytes
Charles E. Murry, MD, FAHA, University of Washington, Seattle, Washington

10:15  Bone Marrow Cell Therapy: Emerging Clinical Evidence
Buddhadeb Dawn, MD, FAHA, University of Kansas Medical Center, Kansas City, Kansas

10:30  Mapping the Cardiomyocyte Surfaceome Reveals New Targets for Immunophenotyping Cell Type, Subtype, and Maturation State Specific Cells
Rebekah L. Gundry, PhD, Medical College of Wisconsin, Milwaukee, Wisconsin

Oral Abstract Presentation
10:45  Effectiveness of Combination Allogeneic Stem Cells in a Novel Large Animal Model of Chronic Kidney Disease-induced Heart Failure with Preserved Ejection Fraction (HFpEF)
Angela Castellanos Rieger, Bryon A. Tompkins, Makoto Natsumeda, Victoria Florea, Kevin Collon, Jose Rodriguez, Marcus Rosado, Wayne Balkan, Joshua M Hare 30136, Ivonne H Schulman, Univ of Miami, Miami, FL

11:00 AM – 12:00 PM
Grand Ballroom II (Ballroom Level)
Concurrent Session 5A: Early Career Session – A “Peer” into NIH Grant Review

Moderators:
Kedryn Baskin, PhD, University of Texas Southwestern Medical Center, Dallas, Texas
Dominic P. Del Re, PhD, Rutgers New Jersey Medical School, Newark, New Jersey

Mock Study Section:
Olga Tjurmina, PhD, National Heart, Lung, and Blood Institute, Bethesda, Maryland
Kimm Hamann, PhD, National Institutes of Health, Center for Scientific Review, Bethesda, Maryland

Panelists:
Katherine E. Yutzey, PhD, Cincinnati Children’s Medical Center, Cincinnati, Ohio
Evangelia (Litsa) G. Kranias, PhD, FAHA, University of Cincinnati College of Medicine, Cincinnati, Ohio
Elizabeth (Tish) Murphy, PhD, FAHA, National Heart, Lung, and Blood Institute/National Institutes of Health, Bethesda, Maryland
Tuesday continued

11:00 AM– 12:00 PM
Grand Ballroom II (Ballroom Level)
Concurrent Session 5B: Workshop - Emerging Omic Technologies: Bringing a New Edge on Your Science

Moderators:
Guilo Agnetti, PhD, Johns Hopkins University, Baltimore, Maryland
Pothur R. Srinivas, PhD, MPH, NIH/NHLBI, Bethesda, Maryland

11:00 Multi-PTM 'Oomics for Understanding Modification Cross-talk in Myocardial Ischemia
Stuart Cordwell, PhD, University of Sydney, Sydney, Australia

11:15 High Content, High Throughput Intergradation of Aorta
Sarah J. Parker, PhD, Cedars Sinai Medical Center, Los Angeles, California

11:30 A Glimpse Inside the Mitochondrial Interactome
James Bruce, PhD, University of Washington, Seattle, Washington

11:45 Organs Conformal Bioelectronics
Igor Efimov, PhD, FAIMBE, FAHA, FHRS, George Washington University, Washington, DC

12:00 – 1:30 PM
Lunch On Your Own, Poster Viewing, Exhibits

1:30 – 2:45 pm
Grand Ballroom I (Ballroom Level)
Concurrent Session 6A: Ion Channels and Arrhythmias

Moderators:
Na Li, PhD, PhD, Baylor College of Medicine, Houston, Texas
Héctor H. Valdivia, MD, PhD, FAHA, University of Michigan, Ann Arbor, Michigan

1:30 Understanding Mechanisms of Atrial Remodeling Leading to Atrial Fibrillation
Peter Backx, PhD, FAHA, University of Toronto, Toronto, Ontario, Canada

1:45 The Phospholamban Regulations in Cardiac Arrhythmias
Evangelia (Litsa) G. Kranias, PhD, FAHA, University of Cincinnati College of Medicine, Cincinnati, Ohio

2:00 Calmodulin Regulation of Na+ Channel Late Current and Long QT Syndrome
Geoffrey S. Pitt, MD, PhD, Weill Cornell Medical College, New York, New York

2:15 A Desmosomal Protein Interaction Screen Uncovers a Novel Mechanism Underlying Arrhythmogenic Heart Disease and Sudden Death
Farah Sheikh, PhD, FCVS, FAHA, University of California-San Diego, La Jolla, California

Oral Abstract Presentation
2:30 Cardiac BIN1 Improves Dyad Organization and Calcium Transient in Cardiomyocytes
Ying Fu, Kang Zhou, Yan Liu, Sosse Agvanian, Bing Xu, Robin M Shaw, TingTing Hong, Cedars-Sinai Medical Ctr, Los Angeles, CA
Tuesday continued

1:30 – 2:45 PM
Grand Ballroom II (Ballroom Level)
Concurrent Session 6B: Cardiac Metabolism

Moderators:
L. Ashley Cowart, PhD, Medical University of South Carolina, Charleston, South Carolina
TBA

1:30  **Timing is Everything: Circadian Control of Cardiac Metabolism**
    Martin Young, DPhil, University of Alabama at Birmingham, Birmingham, Alabama

1:45  **Insulin Resistance, Obesity and Cardiac Autophagy: The Role of Insulin/IGF-1 Receptor Signaling**
    Silem Boudina, PhD, University of Utah, Salt Lake City, Utah

2:00  **Fatty Acid Uptake and Use by the Heart**
    Ira J. Goldberg, MD, FAHA, New York University, New York, New York

2:15  **Emerging Nexus of Vascular Stiffness and Metabolism in Pulmonary Hypertension**
    Stephen Chan, MD, PhD, FAHA, Pittsburgh Heart, Lung, Blood, and Vascular Medicine Institute, Pittsburgh, Pennsylvania

Oral Abstract Presentation
2:30  **Increasing Cardiac Fatty Acid Oxidation Protects Against High Fat Diet Induced Cardiomyopathy in Mice**
    Dan Shao, Stephen C. Kolwicz Jr, Nathan Roe, Outi Villet, Loreta De Tomasi, Alyssa Noriko Braun, Rong Tian, Univ of Washington, Seattle, WA

2:45 – 3:15 PM
Grand Ballroom Foyer
Refreshment Break, Exhibits

3:15 – 4:30 PM
Grand Ballroom I (Ballroom Level)
Concurrent Session 7A: Ethics, Open Science, Reproducibility, Unconscious Bias and all that Jazz

Moderators:
Ivor J. Benjamin, MD, FAHA, FACC, Medical College of Wisconsin, Milwaukee, Wisconsin
Robert M. Carey, MD, MACP, FAHA, FRCPI, University of Virginia, Charlottesville, Virginia

3:15  **Guidelines for R & R: The APS Perspective on Rigor and Reproducibility**
    Kara Hansell Keehan, American Journal of Physiology/Heart and Circulatory Physiology, Baltimore, Maryland

3:20  **TBD**
    Jonathan Schultz, American Heart Association, Dallas, Texas

3:25  **NIH’s Rigor and Transparency Initiative and Review**
    Kimm Hamann, PhD, National Institutes of Health, Center for Scientific Review, Bethesda, Maryland

3:30  **Medical Publishing Seen Through the Eyes of an Editor**
    Joseph A. Hill, MD, PhD, FAHA, UT Southwestern Medical Center, Dallas, Texas

3:35  **Panel Discussion/Q&A**
Tuesday continued

3:15 – 4:30 PM
Grand Ballroom II (Ballroom Level)
Concurrent Session 7B: Workshop -- Interacting with Big Data: Its Impact on Our Science

Moderators:
Pui Yu (Maggie) Lam, PhD, University of California-Los Angeles, Los Angeles, California
Ajay Pillai, PhD, National Human Genome Research Institute, Rockville, Maryland

Do You Really Know Your Favorite Protein(s): Exploiting Knowledge Databases to Characterize Your Protein(s)
Peipei Ping, PhD, FAHA, David Geffen School of Medicine at UCLA, Los Angeles, California

Finding Novelty in Your Pathways: Multi-omic and Big Data Sets
Karen E. Ross, PhD, Georgetown University, Washington, DC

Large Scale Discovery and Quantitation of Novel Peptides using Omics Derived Libraries
Vidya Venkatraman, MSc, Cedars Sinai, Los Angeles, California

Embracing Phosphorylation: Exploiting Novel Kinase Driven Phosphorylation
TBA

Quantifying Those Hard to Study Proteins: Picking and Analyzing Targeted Proteins
Michael MacCoss, PhD, University of Washington, Seattle, Washington

4:30 - 7:00 PM
Exhibit Hall (Access from Ballroom Level)
Poster Session #2

7:00 PM
Skyline I (23rd Floor)
Early Career Investigator Event

Wednesday, July 12

7:00 AM
Galleria I (Ballroom Level)
Registration

7:00 – 8:00 AM
Grand Ballroom Foyer
Continental Breakfast, Exhibits
Wednesday continued

8:00 – 9:15 AM
*Grand Ballroom I (Ballroom Level)*

**Concurrent Session 8A: Human Cellular Models for Cardiac Disease**

**Moderators:**
Ju Chen, PhD, University of California San Diego School of Medicine, La Jolla, California
Joseph C. Wu, MD, PhD, FAHA, Stanford University School of Medicine, Stanford, California

8:00  **Single Cell Technologies for Exploring Human iPSC-based Cardiac Disease Models**
Sean M. Wu, MD, PhD, Stanford University, Stanford, California

8:15  **Mechanisms Underlying Human Cardiomyopathy**
Kunhua Song, PhD, University of Colorado, Gates Center for Regenerative Medicine and Stem Cell Biology, Aurora, Colorado

8:30  **Cellular Reprogramming Approaches to Heart Disease**
Deepak Srivastava, MD, University of California San Francisco, San Francisco, California

8:45  **Human Induced Pluripotent Stem Cells for Novel Cardiovascular Therapeutics**
Yibing Qyang, PhD, Yale University School of Medicine, New Haven, Connecticut

**Oral Abstract Presentation**

9:00  **Lamin A/C Mutations Epigenetically Dysregulate Scn5a Gene Expression, Perturbing Action Potential Properties in iPSC-derived Cardiomyocytes**
Silvia Crasto, Humanitas Res Hosp, Rozzano (Milan), Italy; Nicolò Salvarani, Inst of Genetic and Biomedical Res (IRGB), Nati Res Council of Italy, Milan, Italy; Michele Miragoli, Dept of Clinical and Experimental Med, Univ of Parma, Parma, Italy; Marianna Paulis, Inst of Genetic and Biomedical Res (IRGB), Nati Res Council of Italy, Milan, Italy; Paolo Kunderfranco, Humanitas Res Hosp, Rozzano (Milan), Italy; Pierluigi Carullo, Inst of Genetic and Biomedical Res (IRGB), Nati Res Council of Italy, Milan, Italy; Alberto Forni, Giuseppe Faggian, Div of Cardiac Surgery, Univ of Verona, Verona, Italy; Gianluigi Condorelli, Humanitas Univ, Rozzano, Milan), Italy; Elisa Di Pasquale, Inst of Genetic and Biomedical Res (IRGB), Nati Res Council of Italy, Milan, Italy

8:00 – 9:15 AM
*Grand Ballroom II (Ballroom Level)*

**Concurrent Session 8B: RNAs and the Heart**

**Moderators:**
Il-man Kim, PhD, Medical College of Georgia, Augusta, Georgia
Sakthivel Sadayappan, PhD, MBA; University of Cincinnati College of Medicine, Cincinnati, Ohio

8:00  **Regulation of Cardiac Function by microRNAs**
Da-Zhi Wang, PhD, Boston Children’s Hospital, Harvard Medical School, Boston,

8:15  **Non-coding RNA Mediated Regulation in Cardiac Hypertrophy**
Yibin Wang, PhD, David Geffen School of Medicine at UCLA, Los Angeles, California

8:30  **TBD**
Ching-Pin Chang, MD, PhD, Krannert Institute of Cardiology, Indiana University School of Medicine, Indianapolis, Indiana

8:45  **Identification of New Factors Involved in Repair and Remodeling**
Eva van Rooij, PhD, Hubrecht Institute, Utrecht, Netherlands
Oral Abstract Presentation
9:00  M6A Modification in RNA Regulates Cardiomyocyte and Cardiac Function in Heart Failure
Prabhu Mathiyalagan, Yaxuan Liang, Yassine Sassi, Erik Kohlbrenner, Jiqiu Chen, Djamel Lebecbe, Maria Giovanna Trivieri, Kiyotake Ishikawa, Kenneth Fish, Roger J Hajjar, Susmita Sahoo, Icahn Sch of Med at Mount Sinai, New York, NY

9:15 – 10:00 AM
Grand Ballroom (Ballroom Level)
General Session 9: Outstanding Early Career Investigator Award Competition

9:15  Suppressing Microtubule Detyrosination Reduces Stiffness and Improves Contractility in Human Cardiomyocytes
Benjamin L Prosser, Univ of Pennsylvania School of Medicine, Philadelphia, PA; Kenneth Bedi, Hosp of the Univ of Pennsylvania, Philadelphia, PA; Matthew Caporizzo, Christina Chen, Patrick Robison, Univ of Pennsylvania School of Medicine, Philadelphia, PA; Kenneth Margulies, Hosp of the Univ of Pennsylvania, Philadelphia, PA

9:30  Identification of a Major Role for Cytochrome B5 Reductase 3 in Cardiomyocyte Metabolism and Function
Adam C Straub, Nolan T Carew, Helene M Altmann, Joesph C Galley, Scott Hahn, Megan P Miller, Sruti Shiva, Dennis McNamara, University of Pittsburgh, Pittsburgh, PA

9:45  Glucose-Mediated Remodeling of Cardiac DNA Methylation
Mark E Pepin, David K Crossman, Joseph P Barchue, Salpy V Pamboukian, Steven M Pogwizd, Adam R Wende, Univ of Alabama at Birmingham, Birmingham, AL

10:00 – 10:30 AM
Grand Ballroom Foyer
Refreshment Break, Exhibits

10:30 – 11:45 AM
Grand Ballroom I (Ballroom Level)
Concurrent Session 10A: Early Career Session -- Development of a Successful Academic Career

Moderators:
Nirmala Hariharan, PhD, University of California at Davis, Davis, California
Glenn C. Rowe, PhD, University of Alabama at Birmingham, Birmingham, Alabama

10:30  The Do’s and Don’t’s of Interviewing for an Academic Position
Leslie Leinwand, PhD, University of Colorado, Boulder, Colorado

10:55  You Made It! Now What? Challenges to Starting a New Lab
Jonathan A. Kirk, PhD, Loyola University, Maywood, Illinois

11:20  It Takes a Village: How to Maintain Your Academic Career
Ivor J. Benjamin, MD, FAHA, FACC, Medical College of Wisconsin, Milwaukee, Wisconsin
Wednesday continued

10:30 – 11:45 AM
Skyline II (23rd Floor)
**Concurrent Session 10B: Workshop - Integrating Omics and Bioinformatics into your Research**

Giulio Agnetti, PhD, Johns Hopkins University, Baltimore, Maryland
Stuart Cordwell, University of Sydney, Sydney, Australia
Sara Franklin, PhD, University of Utah, Salt Lake City, Utah
Rebekah L. Gundry, PhD, Medical College of Wisconsin, Milwaukee, Wisconsin
Merry L. Lindsey, PhD, FAHA, University of Mississippi Medical Center, Jackson, Mississippi
Michael MacCoss, PhD, University of Washington, Seattle, Washington
Sarah J. Parker, PhD, Cedars-Sinai Medical Center, Los Angeles, California
Peipei Ping, PhD, FAHA, David Geffen School of Medicine at UCLA, Los Angeles, California
Karen E. Ross, PhD, Georgetown University, Washington, DC
Vidya Venkatraman, MSc, Cedars-Sinai Medical Center, Los Angeles, California
Tom M. Vondriska, PhD, David Geffen School of Medicine at UCLA, Los Angeles, California
John R. Yates, PhD, The Scripps Research Institute, La Jolla, California

11:45 AM – 1:30 PM
Lunch on Your Own, Poster Viewing, Exhibits

1:30 – 2:45 PM
Grand Ballroom I (Ballroom Level)
**Concurrent Session 11A - Translationally Relevant Model Systems**

**Moderators:**
Mark A. Sussman, PhD, FAHA, San Diego State University, Heart Institute and Integrated Regenerative Research Institute, San Diego, California
Jianyi (Jay) Zhang, MD, PhD, FAHA, University of Alabama at Birmingham, Birmingham, Alabama

1:30 **Chasing Unicorns: Tales of a New HFpEF Swine Model**
Craig A. Emter, PhD, University of Missouri – Columbia, Columbia, Missouri

1:45 **Translation of Tissue Engineered Heart Repair**
TBA

2:00 **Models of RV Failure: Does Size Matter?**
Lori Walker, PhD, University of Colorado, Denver, Colorado

2:15 **Fibroblast Alterations in Right versus Left Failing Ventricle**
Fabio Recchia, MD, PhD, FAHA, Lewis Katz School of Medicine at Temple University, Philadelphia, Pennsylvania, and Institute of Life Sciences, Scuola Superiore Sant’Anna, Pisa, Italy

**Oral Abstract Presentation**

2:30 **A Minipig Genetic Model of Hypertrophic Cardiomyopathy**
Eric M Green, MYOKARDIA, South San Francisco, CA; Robert M Weiss, Abhay Divekar, Univ of Iowa, Iowa City, IA; Sadie R Bartholomew Ingle, Marcus Henze, Raja Kawas, MYOKARDIA, South San Francisco, CA; Lindsey Gifford, Melissa K Davis, Univ of Iowa, Iowa City, IA; Frank Rohret, Exemplar Genetics, Sioux Center, IA; Daniel R Thedens, Univ of Iowa, Iowa City, IA; Hector M Rodriguez, Marc J Evanchik, Robert L Anderson, MYOKARDIA, South San Francisco, CA; Jessica Sieren, Univ of Iowa, Iowa City, IA; Christopher S Rogers, Exemplar Genetics, Sioux Center, IA; David K Meyerholz, Ferhaan Ahmad, Univ of Iowa, Iowa City, IA
Wednesday continued

1:30 – 2:45 PM  
**Grand Ballroom II (Ballroom Level)**  
**Concurrent Session 11B – Autophagy, Cell Death, and Inflammation**

**Moderators:**  
Asa Gustafsson, PhD, FAHA, University of California San Diego, La Jolla, California  
Loren E. Wold, PhD, The Ohio State University, Columbus, Ohio

1:30  **Mitophagy and Biogenesis in the Heart**  
Roberta A. Gottlieb, MD, Cedars-Sinai Heart Institute, Los Angeles, California

1:45  **Modulating Mitochondrial Permeability Transition-Dependent Cell Death**  
Christopher P. Baines, PhD, University of Missouri – Columbia, Columbia, Missouri

1:45  **Harnessing the Autophagy-Lysosome Machinery in Cardiac Myocyte Organelle and Protein Quality Control**  
Abhinav Diwan, MD, FAHA, Washington University School of Medicine, St Louis, Missouri

1:45  **A Chemical Biology Approach to Doxorubicin-induced Cardiomyopathy**  
Rick N. Kitsis, MD, FAHA, Albert Einstein College of Medicine, Bronx, New York

2:30  **Oral Abstract Presentation TBD**

2:45 – 3:15 PM  
**Grand Ballroom Foyer**  
Refreshment Break, Exhibits

3:15 – 4:30 PM  
**Grand Ballroom (Ballroom Level)**  
**General Session 12: What Will be the ‘Next Best Thing’ in Cardiovascular and Stroke Research over the Next 20 Years?**

**Panel Leaders:**  
Michael R. Bristow, MD, PhD, FACC, FAHA, University of Colorado, Aurora, Colorado  
Joseph A. Hill, MD, PhD, FAHA, UT Southwestern Medical Center, Dallas, Texas

**Additional Panelists:**  
Jennifer Davis, PhD, University of Washington, Seattle, Washington  
John W. Eirod, PhD, Lewis Katz School of Medicine at Temple University, Philadelphia, Pennsylvania  
Steven R. Houser, PhD, FAHA, Temple University School of Medicine, Philadelphia, Pennsylvania  
Rui-ping Xiao, MD, PhD, Peking University, Beijing, China

**Panel Discussion, Q&A**

4:30 - 7:00 PM  
**Exhibit Hall (Access from Ballroom Level)**  
**Poster Session #3**

7:00 – 10:00 PM  
**Grand Ballroom (Ballroom Level)**  
Council Dinner
Thursday, July 13

7:00 AM
Galleria I (Ballroom Level)
Registration

7:00 – 8:00 AM
Grand Ballroom Foyer
Continental Breakfast

8:00 – 9:00 AM
Grand Ballroom (Ballroom Level)
General Session 13: Basic Science and Precision Medicine -- The Interface

Moderators:
Bjorn Knollmann, MD, PhD, Vanderbilt University, Nashville, Tennessee
Jill C. Tardiff, MD, PhD, FAHA, University of Arizona, Tucson, Arizona

8:00 Crossing the Translational Divide in Cardiovascular Medicine
Thomas P. Cappola, MD, ScM, University of Pennsylvania Perelman School of Medicine, Philadelphia, Pennsylvania

8:15 Convex Analysis of Tissue Proteomics to Identify Atherosclerosis Biomarkers and Therapeutic Targets
David M. Herrington, MD, MHS, Wake Forest School of Medicine, Winston-Salem, North Carolina

8:30 The Interactome of a Disease Protein
John R. Yates, III, PhD, The Scripps Research Institute, La Jolla, California

8:45 LRRC10, a Newly Identified Component of the Cardiac L-type Ca2+ Channel Macromolecular Complex, and Dilated Cardiomyopathy
Timothy J. Kamp, MD, PhD, University of Wisconsin, Madison, Wisconsin

9:00 - 9:30 AM
Grand Ballroom Foyer
Refreshment Break

9:30 – 10:45 AM
Grand Ballroom (Ballroom Level)
General Session 14 - Keynote Lecture

Moderators:
Ronglih Liao, PhD, FAHA, Brigham and Women’s Hospital and Harvard Medical School, Boston, Massachusetts
Joseph C. Wu, MD, PhD, FAHA, Stanford University School of Medicine, Stanford, California

9:30 One Brave Idea
Calum A. MacRae, MD, PhD, Brigham and Women’s Hospital and Harvard Medical School, Boston, Massachusetts
Thursday continued

11:00 AM – 12:00 PM
Grand Ballroom (Ballroom Level)
General Session 15 - Novel Cardiac Regulatory Mechanisms

Moderators:
Ulrike Mende, MD, FAHA, Rhode Island Hospital & Alpert Medical School of Brown University, Providence, Rhode Island
Junichi Sadoshima, MD, PhD, Rutgers New Jersey Medical School, Newark, New Jersey

11:00  RIP3 Teams Up with CaMKⅡ Inducing Cardiomyocyte Death
      Rui-ping Xiao, MD, PhD, Peking University, Beijing, China

11:15  The Mystery of ERK5
      Jun-Ichi Abe, MD, PhD, FAHA, University of Texas MD Anderson Cancer Center, Houston, Texas

11:30  Hippo Signaling in Heart Regeneration
      James F. Martin, MD, PhD, Baylor College of Medicine, Houston, Texas

11:45  Inductive Signals of Cardiac Regeneration
      Pilar Ruiz-Lozano, PhD, Stanford University, Palo Alto, California

12:00 PM
Closing Remarks/Adjourn