



Program Agenda

MONDAY – August 23 (Central Standard Time)

11:00 – 11:15 am

Early Career Opening Remarks

Non-CME/CE Activity

11:00 am Sean M. Wu, MD, PhD

11:10 am Susmita Sahoo, PhD

11:15 am – 12:10 pm

Early Career Session 1: Next Best Thing in Cardiovascular Research

Moderators: Jean Chrisostome Bopassa, MS, PhD, FAHA

Patricia Nugyen, MD

11:15 am

Integrated Cardiac Metabolism In End-Stage Human Heart Failure

Emily Flam, UNIVERSITY OF PENNSYLVANIA, Philadelphia, PA; Cholsoon Jang, Irvine, CA; Ken Bedi, UNIVERSITY OF PENNSYLVANIA, Philadelphia, PA; Danielle Murashige, Yifan Yang, Univ of Pennsylvania, Philadelphia, PA; Michael Morley, Jeff Brandimarto, Ben Prosser, UNIVERSITY OF PENNSYLVANIA, Philadelphia, PA; Tom Cappola, Josh Rabinowitz, Princeton Univ, Princeton, NJ; Ken Margulies, Zolt Arany, UNIVERSITY OF PENNSYLVANIA, Philadelphia, PA

11:26 am

Pharmacological Inhibition Of Macrophage Infiltration Prevents Myxomatous Valve Degeneration In Marfan Syndrome

Na Xu, Katherine E Yutzey, Cincinnati Children's Hosp Medical Ctr, Cincinnati, OH

11:37 am

Time-of-intake Regulates Glucocorticoid Pharmacology Of Cardiac Bioenergetics

Mattia Quattrocchi, Michelle Wintzinger, Karen Miz, Cincinnati Children's - UCCOM, Cincinnati, OH

11:48 am

Mechanistic Interplay Between Cardioprotection And Heart Regeneration Mediated By The ER-bound Transcription Factor Nrf1

Miao Cui, Atmanli Ayhan, UTSW, Dallas, TX; Ning Liu, UT Southwestern Medical Ctr, Dallas, TX; Rhonda S Bassel-duby, UT SOUTHWESTERN MEDICAL CENTER, Dallas, TX; Eric N Olson, UNIV TEXAS SOUTHWESTERN MED CTR, Dallas, TX

11:59 am

Q&A

12:10 – 12:20 pm

Break

12:20 – 1:15 pm

Early Career Session 2: Next Best Thing in Cardiovascular Research

Moderators: Mo Al-khalaf, PhD
Sarah Schumacher, PhD

- 12:20 pm Deletion Of Myd88 In T-Cells Worsens Pathology In A Mouse Model Of Non-Ischemic Heart Failure Through Enhanced T-Cell Survival And Effector Function
Abraham L Bayer, Njabulo Ngwenyama, Sasha Smolgovsky, Tufts Univ, Boston, MA; Ana Hernández Martínez, Univ Francisco de Vitoria, Madrid, Spain; Kuljeet Kaur, Tufts Univ, Boston, MA; Pilar Alcaide, TUFTS UNIVERSITY SCHOOL MEDICINE, Boston, MA
- 12:31 pm Novel Functions For Synaptosomal-associated Protein 29 (snap29) In Cardiac Arrhythmias
Jie Wang, Jason Pellman, Robert Lyon, Yan Liang, Valeria Mezzano, Fabian Zanella, Jing Zhang, Vishal Nigam, Yusu Gu, Nancy Dalton, Kirk Peterson, Farah Sheikh, Univ of California San Diego, La Jolla, CA
- 12:42 pm Efficient In Vivo Homology-Directed Repair Within Cardiomyocytes
Nathan J VanDusen, Boston Children's Hosp, Boston, MA; Yanjiang Zheng, Shanghai Univ of Traditional Chinese Med, Shanghai, China; Catalina E Butler, Qing Ma, Boston Children's Hosp, Boston, MA; Justin S King, Univ of Connecticut, Farmington, CT; William T Pu, Boston Children s Hosp, Boston, MA
- 12:53 pm Selective Igf-1 Production By Resident Cardiac Macrophages Orchestrates Adaptive Cardiomyocyte Growth During Hypertensive Stress
Rysa Zaman, Homaira Hamidzada, Univ of Toronto, Toronto, ON, Canada; Slava Epelman, Univ Health Network, Toronto, ON, Canada

1:04 pm Q&A

1:15 – 1:45 pm

Early Career Keynote

Non-CME/CE Activity

Moderators: David Barefield, PhD
Chen Gao, PhD

1:15 pm A Physician-Scientist's Journey: Linearity is Overrated
Jil C. Tardiff, MD, PhD

1:35 pm Q&A

1:45 – 2:00 pm

Break

2:00 – 2:15 pm

Session 1: BCVS 2021 Opening Welcome

Non-CME/CE Activity

2:00 pm Opening Remarks from the President of the American Heart Association
Donald M. Lloyd-Jones, MD, ScM, FACC, FAHA

2:10 pm Welcome Remarks from the BCVS Leadership Committee Chair
Elizabeth McNally, MD, PhD, FAHA

2:15 – 3:15 pm

Concurrent Session 2A: Sarcomeric Cardiomyopathies: from Bedside to Bench and Back

Moderators: Farah Sheikh, PhD, FCVS, FAHA
Irene C. Turnbull, MD

2:15 pm Allosteric Modulation of Myofilament Ca²⁺ Kinetics as a Potential Mechanism for Impaired Relaxation in Thin Filament Linked HCM
Jil C. Tardiff, MD, PhD

2:27 pm Identifying Novel Modulators of Relaxation in HCM
Diederik Kuster, PhD

2:39 pm South Asian-Specific MYBPC3 Intronic Deletion and Its Role in Cardiomyopathies
Sakthivel Sadayappan, PhD, MBA, FAHA

2:51 pm Study Of The Role Of Myosin-binding Protein C In The Structure-function Of Intact Cardiac Muscles Through The Use Of A Sarcomere Activation Biosensor
Ashley A Martin, Univ of Minnesota, Minneapolis, MN; Brian R Thompson, Univ Of Minnesota, Minneapolis, MN; Joseph M Metzger, Univ of Minnesota, Minneapolis, MN

3:03 pm Q&A

2:15 – 3:15 pm

Concurrent Session 2B: Cardiac Repair and Tissue Engineering

Moderators: Jonathan A. Kirk, PhD, FAHA
Federica Accornero, PhD

2:15 pm Studying Mitogens in Engineered Cardiac Tissues
Nenad Bursac, PhD

2:27 pm Sex-dependent Mechanisms of RV Adaptation to Pressure Overload
Naomi Chesler, PhD

2:39 pm Injectable Biomaterials for Cardiac Repair
Karen L. Christman, PhD, FAHA

2:51 pm The Effect Of Cell Sex On Cardiogenic Differentiation Of Human Induced Pluripotent Stem Cells And Their Maturation Processes
Morteza Mahmoudi, Michigan State Univ, East Lansing, MI; Phillip C Yang, STANFORD UNIVERSITY, Stanford, CA; Vahid Serpooshan, Emory Univ, Atlanta, GA; Parisa Abadi,

Michigan Technological Univ, Houghton, MI; Mahyar Heydarpour, Brigham & Women's Hosp, Boston, MA

3:03 pm Q&A

3:15 – 3:30 pm
Break

3:30 – 4:30 pm
Moderated Poster Session 1A: Cardiac Repair and Tissue Engineering and RNAs
Moderators: Milica Radisic, PhD
Min Xie, MD, PhD, FAHA, FACC

3:30 pm MP201 - PKA Regulatory Subunit 1 α As A Novel Necrosis Suppressor In Myocardial Ischemia/Reperfusion
Yuening Liu, Washington State Univ, Spokane, WA; Jingrui Chen, WSU, Spokane, WA; Peng Xia, Harvard Medical Sch, San Diego, CA; Constantine A Stratakis, Natl Insts of Health, Bethesda, MD; Zhaokang Cheng, Washington State Univ, Spokane, WA

3:35 pm MP202 - The Effects Of Maternal Hypothyroidism On Fetal And Adult Cardiac Function
Yijia Li, TEMPLE UNIVERSITY, Warrington, PA; Guihong Chen, Shijiazhuang Fourth Hosp, Shijiazhuang, China; Xiaoying Zhang, TEMPLE UNIVERSITY, PHILADELPHIA, PA; Ran Zhao, Shandong Provincial Hosp, Shandong, China; Steven R Houser, IMMEDIATE PAST President- AHA, Philadelphia, PA; Xiongwen Chen, TEMPLE UNIVERSITY, Philadelphia, PA

3:40 pm MP203 - Decoding The Cardiac Regulatory Long Noncoding RNAs In Male And Female Mice Using Integrative Multiomics Analysis
Marlin Touma, UCLA DAVID GEFKEN SCHOOL MEDICINE, Los Angeles, CA; Yang Cao, UCLA, Los Angeles, CA; Calvin Pan, Aldons J Lusis, UCLA DAVID GEFKEN SCHOOL MEDICINE, Los Angeles, CA

3:45 pm MP204 - Pyruvate Dehydrogenase Kinase Isozyme Specific Regulation Of Protein Acetylation In Cardiac Tissue
Chae-Myeong Ha, Univ of Alabama at Birmingham, Birmingham, AL; Adam R Wende, UNIVERSITY OF ALABAMA AT BIRMINGHAM, Birmingham, AL

3:50 pm MP205 - Human Induced Pluripotent Stem Cell Derived Cardiomyocyte And Fibroblast Patch To Treat Heart Failure
Jordan J Lancaster, Jennifer Koevary, UNIVERSITY OF ARIZONA, Tucson, AZ; Ryan Avery, Chicago, IL; Sherry L Daugherty, Kenneth Fox, Grace Gorman, Laryenth LANCASTER, Alice McArthur, Jacob Ref, Adrian Grijalva, Steven Goldman, UNIVERSITY OF ARIZONA, Tucson, AZ

3:55 pm MP206 - Cortical Bone Derived Stem Cells Modulate The Adaptive Immune Response Post-MI
Marcus J Wagner, Temple Univ, Philadelphia, PA; Lindsay Kraus, Tabito Kino, Ambler, PA; Mohsin Khan, Sadia Mohsin, Temple Univ, Philadelphia, PA

4:00 pm MP207 - A Precision Medicine Approach For Non-invasive, Longitudinal, And Quantitative Monitoring Of Cardiac Tissue-engineered Scaffolds

Carmen Gil, Emory Sch of Med, Decatur, GA; Connor Evans, Lan Li, Univ of Notre Dame, Notre Dame, IN; Merlyn Vargas, Gabriella Kabboul, George Mason Univ, Manassas, VA; Travis Fulton, Emory Univ, Atlanta, GA; Remi Veneziano, George Mason Univ, Manassas, VA; Nick Nick, Holly Bauser-Heaton, Emory Univ, Atlanta, GA; Ryan Keith Roeder, Vahid Serpooshan, Emory Univ, Atlanta, GA

4:05 pm MP208 - A Shared Fog2 / Tbx5-dependent Gene Regulatory Network Identified By Transcription Factor-dependent Non-coding RNA Profiling Modulates Cardiac Rhythm
Linsin A Smith, Carlos Perez-Cervantes, Michael Broman, Univ of Chicago, Chicago, IL; Rangarajan Nadadur, Univ of Chicago, Los Angeles, CA; Jeff Steimle, Univ of Chicago, Los Angeles, CA, Houston, TX; Brigitte Laforest, Sonja Lazaveric, Stefan R Mazurek, Univ of Chicago, Chicago, IL; Kohta Ikegami, UNIVERSITY OF CHICAGO, Chicago, IL; Xinan Yang, William Pu, the Univ of Chicago, Chicago, IL; Christopher Weber, The Univ of Chicago, Chicago, IL; Elizabeth M McNally, Eric Svensson, NORTHWESTERN UNIVERSITY, Chicago, IL; Ivan Moskowitz, UNIVERSITY OF CHICAGO, Chicago, IL

4:10 pm MP209 - Troponin I Phosphorylation Is Essential For Cardiac Reserve
Sarah L Sturgill, Lorien G Salyer, The Ohio State Univ, Columbus, OH; Vikram Shettigar, Elizabeth Brundage, Ohio State Univ, Columbus; Brandon J Biesiadecki, THE OHIO STATE UNIVERSITY, Columbus, OH; Mark T Ziolo, The Oho State Univ, Columbus, OH

4:15 pm MP210 - RNA Structures Regulate Start Codon Activation And Can Be Perturbed To Manipulate Endogenous Protein Expression In Cardiac Systems
Omar Hedaya, Chinna Venkata, Li Xie, feng jiang, Darren Khor, Jiangbin Wu, Christoph Pröschel, Peng Yao, Univ of Rochester, Rochester, NY

4:20 pm Q&A

3:30 – 4:30 pm
Moderated Poster Session 1B: Cardiomyopathies and Exosomes and Reprogramming
Moderators: Asa Gustafsson, PhD, FAHA
Suresh Kumar Verma, PhD

3:30 pm MP211 - NAD Redox Imbalance Exacerbates Diabetic Cardiomyopathy
Chi Fung Lee, Oklahoma Medical Res. Fndn, Oklahoma City, OK

3:35 pm MP212 - Integrated Genomics Analysis Identifies Recessive Ciliopathy Mutations In Primary Endocardial Fibroelastosis: A Rare Neonatal Cardiomyopathy
Zubin Mehta, DAVID GEFFEN SCHOOL MEDICINE, UNIVERSITY OF CALIFORNIA, LOS ANGELES, CA; Yan Zhao, Kang Xuedong, Juan C Alejos, Nancy Halnon, Stanley F Nelson, Marlin Touma, UCLA DAVID GEFFEN SCHOOL MEDICINE, Los Angeles, CA

3:40 pm MP213 - Activation Of Biosynthetic Pathways Regulates Cardiomyocyte Cell Cycle Induction In Human Cardiomyocyte
Riham Abouleisa, Lindsey McNally, UNIVERSITY LOUISVILLE, Louisville, KY; Abou B Salama, Zagazig faculty of medicine, Verona, Italy; Sally Hammad, Univ of Louisville, Louisville, KY; Qinghui Ou, Collin Wells, UNIVERSITY LOUISVILLE, Louisville, KY; Pawel Lorkiewicz, Univ of Louisville, Louisville, KY; Roberto bolli, UNIVERSITY LOUISVILLE, Louisville, KY; Tamer Mohamed, Univ of Louisville, Louisville, KY; Bradford G Hill, UNIVERSITY OF LOUISVILLE, Louisville, KY

3:45 pm Open

3:50 pm	MP215 - Endothelial Colony Forming Cell Derived Exosomes Promote Angiogenesis And Cardiac Repair Post Myocardial Infarction Karina P. Gomes, Anshul S. Jadli, Ananya Parasor, Noura N. Ballasy, Monica Surti, Darrell D Belke, Methsala Wijesuriya, Paul W. M. Fedak, Vaibhav B Patel, Univ of Calgary, Calgary, AB, Canada
3:55 pm	MP216 - Identification Of Novel Phosphoprotein Signaling Pathways In Human Dilated Cardiomyopathy By Integrative Proteomic And Phosphoproteomic Analysis Cristine J Reitz, Marjan Tavassoli, Da Hye Kim, Sina Hadipour-Lakmehsari, Univ of Toronto, Toronto, ON, Canada; Saumya Shah, Univ of Alberta, Edmonton, AB, Canada; Shin-Haw Lee, Allen C Teng, Univ of Toronto, Toronto, ON, Canada; Andrew Emili, Boston Univ, Boston, MA; Gavin Y Oudit, Univ of Alberta, Edmonton, AB, Canada; Uros Kuzmanov, Anthony O Gramolini, Univ of Toronto, Toronto, ON, Canada
4:00 pm	MP217 - Nuclease-deficient Cas9 Transcription Factors Restore Krueppel-like Factor 15 Expression In Stressed Mouse And Human Cardiomyocytes Eric Schoger, Kim Rosa, Cheila Rocha, Mareike Jassyk, Univ of Goettingen, Goettingen, Germany; Shirin Doroudgar, HEIDELBERG UNIVERSITY, Heidelberg; Oliver Mueller, Univsklinikum Schleswig-Holstein, Kiel, Germany; Lukas Cyganek, Univ of Goettingen, Goettingen, Germany; Wolfram H Zimmermann, UNIVERSITY MED CTR GOETTINGEN, Goettingen; Laura C Zelarayan, UNIVERSITY OF GOETTINGEN, Goettingen
4:05 pm	MP218 - Cop9 Signalosome Subunit 6 Restricts Desmosomal Proteome Degradation To Prevent Desmosomal Targeted Cardiac Disease Yan Liang, Univ of California-San Diego, La Jolla, CA; Robert Lyon, Carlsbad, CA; Jason Pellman, Univ of California-San Diego, La Jolla, CA; William Bradford, UC San Diego, Solana Beach, CA; Stephan Lange, UNIVERSITY OF CALIFORNIA SAN DIEGO, La Jolla, CA; Julijus Bogomolovas, UCSD, La Jolla, CA; Nancy Dalton, Univ of California San Diego, La Jolla, CA; Yusu Gu, UCSD, La Jolla, CA; Marcus Bobar, Univ of California-San Diego, La Jolla, CA; Mong-Hong Lee, The Univ of Texas MD Anderson Cancer Ctr, Houston, TX; Tomoo Iwakuma, Univ of Kansas Medical Ctr, Kansas City, KS; Vishal Nigam, Univ of California-San Diego, La Jolla, CA; Angeliki Asimaki, St. George's, Univ of London, Boston, MA; Melvin Scheinman, UCSF, San Francisco, CA; Kirk L Peterson, UC SAN DIEGO SCHOOL OF MEDICINE, La Jolla, CA; Farah Sheikh, UCSD, La Jolla, CA
4:10 pm	MP219 - Hnrnpa2b1-dependent Selective Sorting Of Mir-486a-5p Into Msc-derived Exosomes Contributes To Cardioprotection Keith Jones, Ahn Phan, Chongyu Zhang, LOYOLA OF CHICAGO, Maywood, IL; Lauren Haar, UNC, Chapel Hill, NC; Thomas Lynch IV, AbbVie, INC, Chicago, IL
4:15 pm	MP220 - Identification And Functional Characterization Of Exosomal Bk Channels Shridhar Sanghvi, The Ohio State Univ, Columbus, OH; Julie Ann Dougherty, OSU Wexner Medical Ctr, Columbus, OH; Parker Evans, Divya Sridharan, The Ohio State Univ, Columbus, OH; Devasena Ponnalagu, Ohio State Univ, Columbus, OH; Kalina Szteln, Vishnu Sundaresan, The Ohio State Univ, Columbus, OH; Mahmood Khan, OHIO STATE UNIVERSITY, Columbus, OH; Harpreet Singh, The Ohio State Univ, Columbus, OH
4:20 pm	Q&A

4:30 – 5:30 pm

Concurrent Session 3A: Small RNAs, Exosomes and Extracellular Vesicles in Cardiovascular Disease

Moderators: Constanza Emanuelli, BSC
Gangjian Qin, MD, FAHA

4:30 pm Exosomes in Cardiovascular Gene Therapy
Susmita Sahoo, PhD

4:42 pm Extracellular Vesicles and their RNA Cargo: Next-Gen Strategies for Biomarkers
Saumya Das, MD, PhD

4:54 pm Engineered Nanovesicles for Regenerative Medicine and COVID-19 Treatment
Ke Cheng, PhD, FAHA

5:06 pm Human-Induced Pluripotent Stem Cell Derived Exosomal Protein Induce Cardiac Regeneration
Ajit Magadum, Temple Univ Sch of Med, Philadelphia, PA; Vandana Mallareddy, Grace Grace, Temple Univ Sch of Medicin, Philadelphia, PA; Chunlin Wang, Temple Univ Sch of Med, Philadelphia, PA; Rajika Roy, Temple Univ, Philadelphia, PA; Darukeshwara Joladarashi, Charan Thej Gurralla, Zhongjian Cheng, Temple Univ Sch of Med, Philadelphia, PA; Maria Cimini, Temple Univ, Lewis Katz Sch, Philadelphia, PA; May Truongcao, Temple Univ Sch of Med, Philadelphia, PA; Anna Maria Lucchese, Temple Univ, Philadelphia, PA; Carolina Gonzalez, Temple Univ, Philadelphia, PA, Philadelphia, PA; Cindy Benedict, TEMPLE UNIVERSITY, Philadelphia, PA; Raj Kishore, TEMPLE UNIVERSITY SCHOOL OF MED, Philadelphia, PA

5:18 pm Q&A

4:30 – 5:30 pm

Concurrent Session 3B: Cellular Reprogramming in Heart Failure

Moderator: Jen Davis, PhD
Arjun Deb, MD

4:30 pm The Effect of Microenvironment on Cardiac Reprogramming
Reza Ardehali, MD, PhD, FAHA

4:42 pm Hypoxia Modulates Cardiovascular Fate and Assembly
Sharon Gerecht, PhD

4:54 pm Stem Cells & Genomics for Precision Medicine
Joseph C. Wu, MD, PhD, FAHA

5:06 pm Conjoining Gene Expression And Cell Organization With Imaging To Explore Cell States In Hipscc-derived Cardiomyocytes
Ruwanthi Gunawardane, Allen Inst, Seattle, WA

5:18 pm Q&A

TUESDAY – August 24 (Central Standard Time)

10:00 – 11:00 am

Session 4: Women in Science Breakfast

Non-CME/CE Activity

Moderators: Pilar Alcaide, PhD, FAHA
Nicole H. Purcell, PhD

10:00 am Panelist
Jane Freedman, MD

10:05 am Panelist
Joseph A. Hill, MD, PhD, FAHA

10:10 am Panelist
Merry Lindsey, PhD

10:15 am Panelist
Rong Tian, MD, PhD, FAHA

10:20 am Q&A

11:00 am – Noon

Concurrent Session 5A: Myocytes and Non-myocytes in Cardiac Hypertrophy

Moderators: Ronald J. Vagnozzi, PhD
Katherine E. Yutzey, PhD, FAHA

11:00 am **Role of TRPM4 in Cardiac Disease and Arrhythmogenesis**
Maria I. Kontaridis, PhD, FAHA

11:12 am The of YAP in Aerobic Glycolysis During Pressure Overload
Junichi Sadoshima, MD

11:24 am YAP Suppresses Inflammatory Gene Expression Induced by AngII in Cardiomyocytes
Joan Heller Brown, PhD, FAHA

11:36 am Interleukin 4 And 13 Signaling In Macrophages Regulates Neonatal Cardiac Regeneration
Santiago Alvarez, The Medical Coll of Wisconsin, Milwaukee, WI; Caitlin Omeara, MEDICAL COLLEGE OF WISCONSIN, Milwaukee, WI

11:48 am Q&A

11:00 am – Noon

Concurrent Session 5B: State of the Art: New Insights in Cardiac Fibrosis and Inflammation

Moderators: Kristin Y. De Leon-Pennell, PhD
Taben Hale, PhD

11:00 am Cardiac Fibrosis
Nikolaos Frangogiannis, MD

11:12 am Donor Macrophages Modulate Cellular Rejection After Heart Transplantation

Benjamin Kopecky, Washington Univ in St. Louis, Saint Louis, MO; Junedh Amrute, Washington Univ St. Louis, Saint Louis, MO; Hao Dun, Washington Univ in St. Louis, Saint Louis, MO; C. Corbin Frye, DANIEL KREISEL, Washington Univ St. Louis, St. Louis, MO; Kory J Lavine, WASHINGTON UNIVERSITY SCHOOL OF MED, Saint Louis, MO

- 11:24 am Pericytes Contribute To Myofibroblast Expansion And Vascular Maturation In The Infarcted Heart
Linda Alex, Kai Su, Izabela Tuleta, Nikolaos G Frangogiannis, Albert Einstein Coll of Med, New York City, NY
- 11:36 am Interleukin 11 Mediates Wnt/ β -catenin-dependent Fibrotic Response Of Human Cardiac Fibroblasts
Edyta Dzialo, Marcin Czepiel, Maciej Siedlar, Dept of Clinical Immunology, Jagiellonian Univ Medical Coll, Cracow, Poland; Gabriela Kania, Div of Rheumatology, Univ Hosp Zurich, Zurich, Switzerland; Przemyslaw Blyszczuk, Dept of Clinical Immunology, Jagiellonian Univ Medical Coll, Cracow, Poland
- 11:48 am Q&A

Noon – 12:30 pm
Break

12:30 – 1:30 pm

Concurrent Session 6A: COVID-19 and Myocardial Injury: Short- and Long-Term Cardiovascular Effects

Moderators Milka Koupenova, PhD
Eduardo Marbán, MD, PhD

- 12:30 pm Cardiac Pathology of SARS-CoV-2
James Stone, MD
- 12:42 pm COVID-19 and Myocardial Injury: Etiology and Prognosis of Myocardial Injury with COVID-19 Infection and mRNA Vaccination Associated Myocarditis
Wendy S. Post, MD, MS
- 12:54 pm Myocardial Inflammation and Function in COVID-19
Ludwig Weckbach, MD
- 1:06 pm The 3CL Protease Of SARS-CoV2 Induces Sarcomeric Degradation Through Cleavage Of The Giant Protein Obscurin
Nora Yucel, Quentin McAfee, Univ of Pennsylvania, Philadelphia, PA; Maria Germana Paterlini, Certusoft, Minneapolis, MN; Zoltan Arany, Univ Pennsylvania, Philadelphia, PA
- 1:18 pm Q&A

12:30 – 1:30 pm

Concurrent Session 6B: Novel Disease Pathways in Cardiac Remodeling

Moderators Jeffery D. Molkentin, PhD
Peipei Ping, PhD

- 12:30 pm Dissecting the Role of a Novel Mitochondrial Microprotein

Catherine Makarewich, PhD

12:42 pm How Heart Scars Regulate Their Own Size
Arjun Deb, MD

12:54 pm KLF5: A Molecular Switch of Cardiac Metabolic Remodeling
Konstantinos Drosatos, MSc, PhD

1:06 pm Targeting Receptor-interacting Protein 140 (RIP140) To Modulate Energy Metabolism In
The Failing Heart
Tsunehisa Yamamoto, Cardiovascular Inst and Dept of Med, Perelman Sch of Med, Univ of
Pennsylvania, Philadelphia, PA; Kirill Batmanov, Inst for Diabetes, Obesity, and
Metabolism and Dept of Med, Perelman Sch of Med, Univ of Pennsylvania, Philadelphia,
PA; Elizabeth Pruzinsky, Cardiovascular Inst and Dept of Med, Perelman Sch of Med, Univ
of Pennsylvania, Philadelphia, PA; Yang Xiao, Inst for Diabetes, Obesity, and Metabolism
and Dept of Med, Perelman Sch of Med, Univ of Pennsylvania, Philadelphia, PA; Swapnil V
Shewale, Kendra McDaid, Teresa C Leone, Cardiovascular Inst and Dept of Med, Perelman
Sch of Med, Univ of Pennsylvania, Philadelphia, PA; Santosh K Maurya, E Douglas D
Lewandowski, The Ohio State Univ, Columbus, OH; Daniel P Kelly, Cardiovascular Inst and
Dept of Med, Perelman Sch of Med, Univ of Pennsylvania, Philadelphia, PA

1:18 pm Q&A

1:30 – 2:30 pm

Moderated Poster Session 2A: COVID19 and Inflammation and HFpEF

Moderators: Julie B. Bossuyt, DVM
Kory J. Lavine, MD, PhD

1:30 pm MP221 - Early Recruitment Of Neutrophils To The Ischemic Heart Is Orchestrated By
Catecholamine-induced Demargination
Albert Dahdah, Ohio State Univ, Columbus, OH; Prabhakara R Nagareddy, The Ohio State
Univ, Columbus, OH; Gopalkrishna Sreejit, Ohio State Univ, Columbus, OH; Ki Ho Ho Park,
THE OHIO STATE UNIVERSITY, Columbus, OH; Robert Jagers, THE OHIO STATE
UNIVERSITY, Columbus, OH, Columbus, OH; Jillian Johnson, Jianjie Ma, Ohio State Univ,
Columbus, OH

1:35 pm Open

1:40 pm MP223 - CCR2+Macrophages And T-cells Infiltrate The Murine Heart Following Immune
Regulator Treatment With CD40
Jesus Jimenez, Pan Ma, Jing Jing, Andrea Bredemeyer, Inessa Lokshina, Kory J Lavine,
Washington Univ Sch of Med, Saint Louis, MO

1:45 pm MP224 - IL-10 Protects The Heart From Late Phase Cardiac Inflammation Associated With
Intestinal Permeability Following Transaortic Constriction
Sumanta K Goswami, Univ Of Alabama, Birmingham, Birmingham, AL; Prabhat Ranjan,
Univ of Alabama at Birmingham, Birmingham, AL; Suresh Verma, UNIVERSITY OF
ALABAMA AT BIRMINGHAM, Birmingham, AL

1:50 pm MP225 - Macrophage-specific $\alpha 5$ Integrin Signaling Protects The Infarcted Heart From
Adverse Remodeling By Stimulating The Angiogenic Response

Ruoshui Li, Bijun Chen, Anis Hanna, Albert Einstein Coll of Med, Bronx, NY; Claudio Humeres, Albert Einstein Coll of Med, Bronx, NY; Linda Alex, Albert Einstein Coll of Med, New York City, NY; Nikolaos G Frangogiannis, ALBERT EINSTEIN COLLEGE OF MEDICINE, Bronx, NY

- 1:55 pm MP226 - Netosis Is Required For S100a8/a9-induced Granulopoiesis After Myocardial Infarction
Gopalkrishna Sreejit, Robert M Jaggars, Ohio State Univ medical cent, Columbus, OH; Albert Dahdah, Ohio State Univ, Columbus, OH; Jillian Johnson, Ohio State Univ, Columbus, OH, Columbus, OH; Ahmed Abdel Latif, Univ of Kentucky, Lexington, KY; Andrew Murphy, Baker heart and diabetes institute, Melbourne, Australia; Prabhakara R Nagareddy, The Ohio State Univ, Columbus, OH
- 2:00 pm MP227 - Single Cell RNA Sequencing Analysis Reveals Insulin Signaling Defects In Cardiomyocytes Derived From A Novel Mouse Model Of Heart Failure With Preserved Ejection Fraction
Jijun Huang, Univ of California, LA, LOS ANGELES, CA; Zhaojun Xiong, UCLA, Los Angeles, CA; Shuxun Ren, Univ of California, LA, Los Angeles, CA; Nancy Cao, Jianfang Liu, Univ of California, LA, LOS ANGELES, CA; Yibin Wang, UCLA, Los Angeles, CA; Chen Gao, UCLA-LOS ANGELES, Los Angeles, CA
- 2:05 pm MP228 - The Role Of Gut Microbiome Secreted Short Chain Fatty Acids In The Development Of Heart Failure With Preserved Ejection Fraction HFpEF
Jomana Hatahet, Raiza Bonomo, Tyler Cook, Chelsea R. White, Chaitanya Gavini, Virginie Mansuy-Aubert, Gregory Aubert, Loyola Stritch Sch of Med, Maywood, IL
- 2:10 pm MP229 - Signaling Mechanisms Leading To CD4+ T-lymphocyte Activation During Ischemic Heart Failure
Sahil Gupta, Shyam S Bansal, The Ohio State Univ, Columbus, OH
- 2:15 pm MP230 - Nuclear Rupture In A Mouse Model Of Lmna-related Cardiomyopathy Causes Cytoplasmic Exposure Of The Proinflammatory Signaling Protein Hmgb1
Kohta Ikegami, Cincinnati Children's Hosp Medical Ctr, Cincinnati, OH; Alexis Stutzman, Sachie Ikegami, Omar Almakki, Sunny Liu, The Univ of Chicago, Chicago, IL; Ozanna Burnicka-turek, Ivan Moskowitz, UNIVERSITY OF CHICAGO, Chicago, IL
- 2:20 pm Q&A

1:30 – 2:30 pm

Moderated Poster Session 2B: Pathways of Cardiac Remodeling

Moderators: John W. Calvert, PhD, FAHA
Sarah Franklin, PhD

- 1:30 pm MP231 - Long Non-coding Rna Camirt Plays A Sentinel Role In Aging-related Heart Failure Via Interaction With Phb2 To Modulate Mitophagy Signaling In The Heart
Xiao-Liang Wang, XIUCHUN LI, Hannah L Ong, Jae-Kyun Ko, Nuo Sun, The Ohio State Univ, Columbus, OH; Joseph M Miano, Jianjie Ma, Medical Coll of Georgia, Augusta, GA; Chuanxi Cai, The Ohio State Univ, Columbus, OH
- 1:35 pm MP262 - Endogenous Smad7 Restrains Myofibroblast Activation And Protects From Post-infarction Heart Failure By Suppressing Tgf-beta Signaling And By Directly Inhibiting Erbb2

Claudio Humeres, Albert Einstein Coll of Med, Bronx, NY; Arti V Shinde, Anis Hanna, Albert Einstein Coll of Med, Bronx, NY; Linda Alex, Albert Einstein Coll of Med, Bronx, NY; Simon Conway, Indiana Univ Sch of medici, Indianapolis, IN; Nikolaos G Frangogiannis, ALBERT EINSTEIN COLLEGE OF MEDICINE, Bronx, NY

- 1:40 pm MP233 - Investigating Genotoxic-induced Innate Immune Pathways Leading To Heart Failure With Preserved Ejection Fraction For Developing Effective Treatments
 Mohammad H Al-Khalaf, uOttawa Heart Inst, Ottawa, ON, Canada; David Smyth, Ottawa Heart Inst, Ottawa, ON, Canada; Gauri Akolkar, Univ of ottawa heart institut, Ottawa, ON, Canada; Justin Williams, Univ of ottawa heart institut, Ottawa, ON, Canada, Toronto, ON, Canada; Liyong Zhang, Ottawa Heart Inst, Ottawa, ON, Canada; Kenneth Yip, Ottawa Heart Inst, Ottawa, ON, Canada, Toronto, ON, Canada; Ren-Ke Li, Univ Health Network, Toronto, ON, Canada; Fei-Fei Liu, UHN, Toronto, ON, Canada; Peter P Liu, uOttawa Heart Inst, Ottawa, ON, Canada
- 1:45 pm MP234 - Novel Mybpc3 Variant Disrupts Myosin S2 Binding And Induces Heart Failure
 Taejeong Song, Rohit Singh, Univ of Cincinnati, Cincinnati, OH; Darshini Desai, Univ of Cincinnati, Cincinnati, OH; Sheryl E Koch, Univ of Cincinnati, Cincinnati, OH; Jack Rubinstein, Univ of Cincinnati, Cincinnati, OH, Cincinnati, OH; Sakthivel Sadayappan, Univ of Cincinnati, Cincinnati, OH
- 1:50 pm MP235- PROX1 Contributes To Cardiac Valve Disease
 YenChun Ho, Xin Geng, Rohan Varshney, Jang Kim, Sandeep Surbrahmanian, Oklahoma Medical Res Fndn, Oklahoma City, OK; Zahra Alvandi, Harvard Medical Sch, Boston, MA; Lijuan Chen, Oklahoma Medical Res Fndn, Oklahoma City, OK; Fumio Matsuzaki, RIKEN Ctr for Developmental Biology, Kobe, Japan; Elena Aikawa, Brigham Womans Hosp, Boston, MA; Lorin Olson, Jasimuddin Ahamed, Oklahoma Medical Res Fndn, Oklahoma City, OK; Joyce E Bischoff, Childrens Hosp Boston, Boston, MA; Sathish Srinivasan, Oklahoma Medical Res Fndn, Oklahoma City, OK
- 1:55 pm MP236 - PI3Kgamma-PP2A Axis In Regulation Of SERCA Function
 Maradumane L Mohan, Conner P Witherow, CLEVELAND CLINIC FOUNDATION, Cleveland, OH; Robert Papay, Cleveland Clinic, Cleveland, OH; Yu Sun, Cleveland clinic foundation, Cleveland, OH; Kate Stenson, Sathyamangla V Naga Prasad, CLEVELAND CLINIC FOUNDATION, Cleveland, OH
- 2:00 pm MP237 - Multi-omics Profiling Reveals Stearoylcarnitine As A Novel Biomarker Of Cardiometabolic Disease Development In Rat Offspring Exposed To Gestational Diabetes
 Stephanie M Kereliuk, Univ of Manitoba, Winnipeg, MB, Canada; Prasoon Agarwal, Gabriel Brawerman, Laura Cole, Bo Xiang, Mario Fonseca, Grant Hatch, Jonathan M McGavock, Vernon Dolinsky, Univ of Manitoba, Winnipeg, MB, Canada
- 2:05 pm MP263 - CD8+ T-cells Regulate Macrophage Recruitment And Retention After Myocardial Infarction
 Gualberto Munoz, Hallie Roerden, Penny Huebsch, Kristine Y DeLeon-Pennell, Medical Univ of South Carolina, Charleston, SC
- 2:10 pm MP239 - Hippo Signaling Pathway Maintains Homeostasis Of The Cardiac Conduction System
 Mingjie Zheng, The Univ of Texas Health Science Ctr at Houston, Houston, TX; Jun Wang, UTH McGovern Medical Sch, Houston, TX

- 2:15 pm MP240 – Site-specific O-GlcNacylation Of Transient Receptor Potential Canonical Type 6 (trpc6) Channel Is Required For Normal Structure And Function
Sumita Mishra, Johns Hopkins Med, Baltimore, MD; Junfeng Ma, Georgetown Univ Medical Ctr, Washington, DC, DC; Kei Akiyoshi, Johns Hopkins Med, Baltimore, MD; Federica Farinelli, Johns Hopkins Sch of Med, Baltimore, MD; Rick Page, Miami Univ, Oxford, OH; Christian U Oeing, Charite Univ Berlin, Germany, Baltimore, MD; Natasha Zachara, Johns Hopkins Univ Sch, Baltimore, MD; Samarjit Das, Johns Hopkins Univ, Baltimore, MD; Mark J Ranek, JOHNS HOPKINS MEDICAL INSTITUTIONS, Baltimore, MD; David A Kass, JOHNS HOPKINS MEDICAL INST, Baltimore, MD
- 2:20 pm Q&A
- 2:30 – 2:45 pm
Break/Exhibits
- 2:45 – 3:45 pm
Session 7: Outstanding Early Career Investigator Award Competition
Moderators Glynnis Garry, MD
 Sean M. Wu, MD, PhD
- 2:45 pm Functional Impact Of Rbfox1c In Cardiac Pathological Remodeling Through Targeted Mrna Stability Regulation
Chen Gao, UCLA-LOS ANGELES, Los Angeles, CA; Zhaojun Xiong, The Third Affiliated Hosp, Guangzhou; Jianfang Liu, The Third Affiliated Hosp, Guangzhou, Wuhan; Nancy Cao, The Third Affiliated Hosp, Guangzhou, Wuhan, El Monte, CA; Tomohiro Yokota, UCLA, Los Angeles, CA; Jijun Huang, Univ of California, LA, Los Angeles, CA; Menglong Wang, UCLA-LOS ANGELES, Los Angeles, CA; Shuxun Ren, UCLA-LOS ANGELES, Los Angeles, CA, Van Nuys, CA; Christoph Rau, UNC, Chapel Hill, NC; Katelyn Li, UNC, Chapel Hill, NC, Los Angeles, CA; Xinshu Xiao, UCLA-LOS ANGELES, Los Angeles, CA; Thomas M Vondriska II, Yibin Wang, UCLA, Los Angeles, CA; Yi Xing
- 3:00 pm Defining Diverse Disease Pathomechanisms Across Thick And Thin Filament Hypertrophic Cardiomyopathy Variants
Christopher Toepfer, Yiangos Psaras, Univ of Oxford, Oxford, United Kingdom; Francesca Margara, oxford; Manuel Schmid, Violetta Steeples, Univ of Oxford, Oxford, United Kingdom; Julia Daher Carneiro Marsiglia, Harvard Medical Sch, Boston, MA; Amanda Garfinkel, Brigham and Women's Hosp, Boston, MA; Giuliana Repetti, UCLA, Los Angeles, CA; Bueno-Orovio Alfonso, Univ of Oxford, Oxford, United Kingdom; Blanca Rodriguez, Univ of Oxford, Oxford; Jonathan Seidman, Christine E Seidman, HARVARD MEDICAL SCHOOL, Boston, MA
- 3:15 pm FAM210A Maintains Cardiac Mitochondrial Homeostasis Through Regulating Letm1-dependent Ca²⁺ Efflux
Jiangbin Wu, Chinna Venkata, Si Chen, Omar Hedaya, Chen Yan, Peng Yao, Aab Cardiovascular Res Inst, Univ of Rochester Medical Ctr, Rochester, NY
- 3:30 pm Q&A
- 3:45 – 4:00 pm
Break/Exhibits

4:00 – 5:00 pm
BCVS Mix & Mingle – *Sponsored by the BCVS Early Career Committee*

WEDNESDAY- August 25 (Central Standard Time)

10:00 – 11:00 am

Concurrent Session 8A: Bench to Bedside: Cardiovascular Disease Therapies not Lost in Translation

Moderators Susmita Sahoo, PhD
 Jianyi Jay Zhang, MD, PhD

10:00 am Genetic Determinants of Heart Function
Elizabeth McNally, MD, PhD, FAHA

10:12 am Myocardial Recovery in Chronic HF
Stavros G. Drakos, MD, PhD

10:24 am Improving Injury Recovery with Developmental Pathways
Kristy Red-Horse, PhD

10:36 am Safety And Efficacy Of CDR132L, A Novel Antisense Therapeutic Which Targets MicroRNA-132 In Heart Failure Patients
Joerg Taubel, Richmond Res Inst, London, United Kingdom; Wilfried Hauke, CARDIOR PHARMACEUTICALS GMBH, Hannover, Germany; Steffen Rump, Janika Viereck, CARDIOR PHARMACEUTICALS GMBH, Hanover, Germany; Sandor Batkai, Poetzsch Jenny, Rode Laura, CARDIOR PHARMACEUTICALS GMBH, Hannover, Germany; Henning Weigt, Fraunhofer Inst of Toxicology and Experimental Med, Hannover, Germany; Celina Genschel, CARDIOR PHARMACEUTICALS GMBH, Hannover, Germany; Ulrike Lorch, Richmond Pharmacology Ltd, London, United Kingdom; Carmen Theek, Witten/Herdecke Univ, Witten, Germany; Arthur A Levin, Avidity Biosciences, La Jolla, CA; Johann B Bauersachs, Scott D Solomon, MEDIZINISCHE HOCHSCHULE HANNOVER, Hannover; Thomas Thum, HANNOVER MEDICAL SCHOOL, Hannover

10:48 am Q&A

10:00 – 11:00 am

Concurrent Session 8B: Deconstructing the Heart with Multiscale Approaches

Moderators Stuart G. Campbell, PhD
 Stacey Rentschler, MD, PhD

10:00 am Multiscale Studies of Engineered Human Heart Muscle
Gordana Vunjak-Novkovic, PhD

10:12 am Single Cell Transcriptomics to Define New Mechanisms Involved in Heart Disease
Eva van Rooij, PhD

10:24 am Mechanical Regulation of Hypertrophic Cardiomyopathy Phenotypes in iPSC-derived Micro-Heart Muscle
Nate Huebsch, PhD

10:36 am Cell-type-specific Gene Expression And Transcriptional Networks Reveal Adamts2 As A Powerful Regulator Of Cardiac Homeostasis During Heart Failure

Caitlin Lahue, UNC, Chapel Hill, NC; Douglas Chapski, UCLA DEPT OF ANESTHESIOLOGY, Los Angeles, CA; Manuel Rosa Garrido, UCLA, Los Angeles, CA; Shuxun Ren, UCLA, Los Angeles, CA; Van Nuys, CA; Thomas M Vondriska II, Yibin Wang, UCLA, Los Angeles, CA; Christoph Rau, UNC, Chapel Hill, NC

10:48 am Q&A

11:00 am - Noon

Concurrent Session 9A: HFpEF and HFrEF Heterogeneity and Precision Medicine

Moderators Kenneth Margulies, MD, FAHA
Victoria Parikh, MD

11:00 am The Role of the Secretome in Pediatric Dilated Cardiomyopathy
Carmen Sucharov, PhD

11:12 am Discerning the Heterogeneity in HFpEF: Role of Plasma Proteomics
Julio Chirinos, MD

11:24 am Proteomics Signatures of Heart Failure in Relation to Left Ventricular Ejection Fraction
Luigi Adamo, MD, PhD

11:36 am T Cells Contribute To Diastolic Dysfunction And Cardiac Hypertrophy In A Preclinical Model Of Heart Failure With Preserved Ejection Fraction
Sasha Smolgovsky, Francisco Carrillo-Salinas, Tufts Univ, Boston, MA; Marina Anastasiou, Boston, MA; Kuljeet Kaur, Tufts Univ, Boston, MA; Abraham Bayer, Tufts Univ, Boston, MA, Cambridge, MA; Mark Aronovitz, Tufts Univ, Boston, MA; Robert M Blanton Jr., TUFTS MEDICAL CENTER, Boston, MA; Pilar Alcaide, TUFTS UNIVERSITY SCHOOL MEDICINE, Boston, MA

11:48 am Q&A

11:00 am - Noon

Concurrent Session 9B: Cardiotoxicity of Cancer Therapeutics: Cardio-oncology Meets Immunology

Moderators Aarti Asnani, MD, FAHA
Sakima Smith, MD, MPH, FAHA

11:00 am Identification of Pathogenic Immune Cell Subsets in Checkpoint-Inhibitor Induced Myocarditis
Han Zhu, MD

11:12 am Cardio-Immunology is the New Cardio-Oncology
Javid Moslehi, MD

11:24 am Cancer Cachexia-induced Cardiac Dysfunction
Loren E. Wold, PhD, FAHA

11:36 am Ponatinib Mediated Cardiotoxicity Is Driven By Pro-inflammatory S100A8/A9-NLRP3-IL-1 β Signaling Circuit
Anand P Singh, Sultan Tousif, Univ of Alabama at Birmingham, Birmingham, AL; Prachi Umbarkar, UAB Sch of Med, Birmingham, AL; Cristi L Galindo, Nicholas Wheeler, Western Kentucky Univ, Bowling Green, KY; Qinkun Zhang, Univ of Alabama at Birmingham,

Birmingham, AL; Sumanth Prabhu, UNIVERSITY OF ALABAMA AT BIRMINGHAM,
Birmingham, AL; Hind Lal, UAB, Birmingham, AL

11:48 am Q&A

Noon – 12:30 pm

Break/Exhibits

12:30 – 1:30 pm

Moderated Poster Session 3A: Bench to Bedside, Epigenetic Approaches and Metabolism

Moderators: Bradford Hill, PhD, FAHA
Glenn C. Rowe, PhD

- 12:30 pm MP241 – Roflumilast-mediated Phosphodiesterase 4d Inhibition Reverses Diabetes-associated Cardiac Dysfunction And Remodeling: Effects Beyond Glucose Lowering
Rui Xu, Jing Fu, Qin Fu, Dept of Pharmacology, Sch of Basic Med, Tongji Medical college, Huazhong Univ of Science and Technology, Wuhan, China
- 12:35 pm Open
- 12:40 pm MP243 – Detection Of Mesenchymal Stem Cells In Mobilized Autologous Peripheral Blood Transplantation From Patients With Ischemic Heart Disease
Hadyanto Lim, Dept of Pharmacology and Pharmacy, Faculty of Med, Methodist Univ of Indonesia, Medan-North Sumatra, Indonesia ; Postgraduate Program, Biomedical Sciences Study, Faculty of Med, Methodist Univ of Indonesia, Medan-North Sumatr, Medan, Indonesia; Umar Zein, Dept of Internal Med, Div of Tropical Med and Hygiene, Faculty of Med, Islamic North Sumatra Univ, Medan-North Sumatra, Indonesia, Medan, Indonesia; Ilham Hariaji, Dept of Pharmacology and Therapeutics, Faculty of Med, Muhammadiyah North Sumatra Univ, Medan-North Sumatra, Indonesia, Medan, Indonesia
- 12:45 pm MP244 – Deciphering The Mechanism Of Elevation Of Mir34a And Its Attenuation Via Corm A1 And Subsequent Improvement In Mitochondrial Status In Atherogenic Mdms
Hitarthi Vyas, The Maharaja Sayajirao Univ, Vadodara, India; Ranjitsinh Devkar, THE MAHARAJA SAYAJIRAO UNIVERSITY, Vadodara, India
- 12:50 pm MP245 – Tet Proteins Regulate Second Heart Field Multipotent Progenitors Differentiating To Myocytes
Shaohai Fang, Jia Li, Inst of Biosciences and Technology, Texas A&M Univ, Houston, TX; Jeff D. Steimle, Dept of Molecular Physiology and Biophysics, Baylor Coll of Med, Houston, TX; Lei Guo, Yuhuan Yang, Tingting Hong, Rui Wang, Wei Han, Yubin Zhou, Inst of Biosciences and Technology, Texas A&M Univ, Houston, TX; Jun Wang, The Univ of Texas Health Science Ctr at Houston, Houston, TX; James F. Martin, Dept of Molecular Physiology and Biophysics, Baylor Coll of Med, Houston, TX; Yun Huang, Inst of Biosciences and Technology, Texas A&M Univ, Houston, TX
- 12:55 pm MP246 – Epigenetic Regulation At LRP1 Susceptibility Locus And Characterization Of LRP1 Function In Human Induced Pluripotent Stem Cells Derived Smooth Muscle Cells
LU LIU, Adrien Georges, Nabila Bouatia-Naji, Univ de Paris, Inserm U970, PARCC, Paris, France

- 1:00 pm MP247 – Mitochondrial Complex V Is Regulated By GRK2 In The Heart
Kimberly Ferrero, Lewis Katz Sch of Med, Philadelphia, PA; Jessica M Pflieger, TEMPLE UNIVERSITY, Philadelphia, PA; Kurt Chuprun, Lewis Katz Sch of Med, Philadelphia, PA; Eric Barr, TEMPLE UNIVERSITY, Philadelphia, PA; Erhe Gao, Lewis Katz Sch of Med at Temple Uni, Philadelphia, PA; Walter J Koch, TEMPLE UNIVERSITY SCHOOL MEDIC, Philadelphia, PA
- 1:05 pm MP248 – Sequestosome1/p62 Regulates Redox Homeostasis Via The Nrf2-keap1 Pathway In The Murine Heart
Amir N Fatahian, Rajeshwary Ghosh, Karla M. Pires, Univ of Utah, Salt Lake City, UT; TARIQ MOSLEH, Vishaka Vinod, Sidney Vowles, Univ of Utah, Salt Lake City, UT; Kenneth S Campbell, UNIVERSITY OF KENTUCKY, Lexington, KY; J David D Symons, Univ of Utah, Salt Lake Cty, UT; Sihem Boudina, UNIV UTAH, Salt Lake Cty, UT
- 1:10 pm MP249 – Mechanistic Basis And Therapeutic Potential Of Targeting The Non-muscle Rbfox2 Isoform In Myotonic Dystrophy
Chaitali Misra, Ullas V Chembazhi, UNIVERSITY OF ILLINOIS, Urbana, IL; Sarah Matatov, Univ of Illinois at Urbana, Savoy, IL; Sushant Bangru, UNIVERSITY OF ILLINOIS, Urbana, IL; Auinash Kalsotra, Univ of Illinois, Urbana, IL
- 1:15 pm MP250 – Reduction In Endothelial Aryl Hydrocarbon Receptor Nuclear Translocator (arnt) Mediates Vascular Dysfunction In Mice With Type 2 Diabetes Mellitus
Tu Nguyen, Kaichao Pan, Maura Knapp, Mei Zheng, Nikola Sladojevic, Lizhuo Ai, Albert Sitikov, Univeristy of Chicago, Chicago, IL; Frank Gonzalez, Natl Cancer Inst, Bethesda, MD; James K Liao, Univ of Chicago, Chicago, IL; Rongxue Wu, Univeristy of Chicago, Chicago, IL
- 1:20 pm Q&A
- 12:30 – 1:30 pm
Moderated Poster Session 3B: Fibrosis, Remodeling and Cardiotoxicity
Moderators: Tariq Hamid, PhD
Michelle Tallquist, PhD
- 12:30 pm Open
- 12:35 pm MP252 – Genetic Architecture Of Heart Mitochondrial Proteome Influencing Cardiac Hypertrophy
Karthickeyan Chella Krishnan, Univ of Cincinnati Coll of Med, Cincinnati, OH; Elie-Julien El Hachem, Sorbonne Univ, Paris, France; Christine Light, Oklahoma Medical Res Foundatio, Oklahoma City, OK; Varun Shravah, Diana Anum, Univ of California Los Angeles, Los Angeles, CA; Marcus M Seldin, Univ of California Irvine, Irvine, CA; Chi Fung Lee, Oklahoma Medical Res. Fndn, Oklahoma City, OK; Benjamin L Parker, Univ of Melbourne, Melbourne, Australia; David E James, Univ of Sydney, Sydney, Australia; Aldons J Lusis, Univ of California Los Angeles, Los Angeles, CA
- 12:40 pm MP264 – Heterogeneous Distribution Of Mutations In Myosin Binding Protein-c Paralogs
Darshini amit Desai, Univ of Cincinnati, Cincinnati, OH; Vinay Rao, Ctr for Cardiovascular Biology and Disease, Inst for Stem Cell Biology and Regenerative Med, Bangalore, India, banglore, India; Anil Jegga, Div of Biomedical Informatics, Cincinnati Children's Hosp Medical Ctr,, Cincinnati, OH; Perundurai Dhandapany, The Knight Cardiovascular Inst,

Oregon Health and Science Univ, Portland, OR; Sakthivel Sadayappan, Univ of Cincinnati, Cincinnati, OH

- 12:45 pm MP254 - Decellularized Extracellular Matrix Hydrogel Lowers Fibrosis And Fibroblast Differentiation In Post-injury Mice Hearts Through Capg
Xinming Wang, CASE WESTERN RESERVE UNIV, Cleveland, OH; Samuel Senyo, CASE WESTERN RESERVE UNIVERSITY, Cleveland, OH
- 12:50 pm MP255 - Intercellular Model Predicts Macrophage Signaling As A Driver Of Cardiac Fibroblast Response Post Myocardial Infarction
Mukti Chowkwale, Univ of Virginia, Charlottesville, VA; Jeffrey J Saucerman, Univ of Virginia, Charlottesville, VA
- 12:55 pm MP256 - CCCTC-binding Factor Site Mutation In Sirt1 Promoter Reduces Systolic Cardiac Function In Mice
Tobias Wagner, Rudi Micheletti, Havilah Taylor, Dept and Sch of Med, Univ of California San Diego, La Jolla, CA; Yousin Suh, Dept of Obstetrics and Gynecology, Dept of Genetics and Development, Columbia Univ Irving Medical Ctr, New York, NY; Michael G Rosenfeld, Howard Hughes Medical Inst, Dept and Sch of Med, Univ of California San Diego, La Jolla, CA; Alice E Zemljic-Harper, Univ of California San Diego, La Jolla, CA
- 1:00 pm MP257 - Dual Actions Of β 2Ar-agonism Confer Protection Against Heart Failure And Renal Dysfunction Via Inotropic And Lusitropic Effects And Normalized Cholesterol Homeostasis In A Mouse Model Of Alport Syndrome
Ahmed Chahdi, UNIVERSITY OF MIAMI MILLER SCH MED, Miami, FL; Keyvan Yousefi, UM-Miller Sch of Med, Miami, FL; Jose Manuel Condor Capcha, Camila Irion, UNIVERSITY OF MIAMI MILLER SCH MED, Miami, FL; Guerline Lambert, Univ of Miami, Miami, FL; Serene Shehadeh, Julian Dunkley, Yee-Shuan Lee, UNIVERSITY OF MIAMI MILLER SCH MED, Miami, FL; Aisha Khan, Univ of Miami, Miami, FL; Melina Ramic, Nadja Andrade, Zane Zeier, UNIVERSITY OF MIAMI MILLER SCH MED, Miami, FL; Derek Dykxhoorn, Chryso Katsoufis, Univ of Miami Medical Sch, Miami, FL; michael freundlich, Univ of Miami, miami, FL; Joshua M Hare, UNIVERSITY OF MIAMI, Miami, FL; Mary Nabity, Carolina Rivera, Texas A&M, College Station, TX; Anastasios Lympieropoulos, NOVA SOUTHEASTERN UNIV, Fort Lauderdale, FL; Keith A Webster, UNIVERSITY MIAMI, Miami, FL; Noam Zelcer, AMC, Amsterdam; Lina A Shehadeh
- 1:05 pm MP258 - The Cell Surface Receptors Ror1/2 Control Cardiac Myofibroblast Differentiation
Nicholas Chavkin, Univ of Virginia, Charlottesville, VA; Soichi Sano, UNIVERSITY OF VIRGINIA, Charlottesville, VA; Kenneth Walsh, Univ of Virginia, Charlottesville, VA
- 1:10 pm MP259 - The Role Of Sertad4 In Pathological Cardiac Remodeling
Matthew Stratton, Ashley Francois, Oscar Bermeo-Blanco, Ohio State Univ, Columbus, OH; Alessandro Canella, The Ohio State Univ, Columbus, OH; Lynn Marcho, Erin McGrail, Shamama Nishat, Ohio State Univ, Columbus, OH; Bryan Whitson, The Ohio State Univ, Columbus, OH; Paul M Janssen, The Ohio State Univ, Columbus, OH, Columbus, OH; Federica Accornero, Ohio State Univ, Columbus, OH; Richard J Gumina, The Ohio State Univ, Columbus, OH
- 1:15 pm MP265 - The Role Of Phosphodiesterase 10a In Tumor Growth And Doxorubicin-induced Cardiotoxicity
Si Chen, Univ of Rochester, Rochester, NY; Jiawei Chen, Shanghai Jiao Tong Univ, Shanghai, China; Hangchuan Shi, Deanne Mickelsen, Chen Yan, Univ of Rochester, Rochester, NY

1:20 pm Q&A

1:30 – 2:30 pm

Session 10: Keynote Lecture

Moderators: Pilar Alcaide, PhD, FAHA
Sumanth D. Prabhu, MD, FAHA

1:30 pm The Role of Innate Inflammation in Cardiac Injury and Repair
Douglas L. Mann, MD

2:15 pm Q&A

2:30 – 2:45 pm

Closing Remarks

Non-CME/CE Activity

2:30 Pilar Alcaide, PhD, FAHA

2:40 Sumanth D. Prabhu, MD, FAHA