



Basic Cardiovascular Sciences 2022

Bridging Basic and Translational Science in Cardiovascular Disease
July 25-28, 2022 | Chicago Hilton | Chicago, Illinois
Preliminary Program Agenda

Time (Central Daylight Time- CDT)	MONDAY – July 25
9:00 – 9:15 am	Early Career Opening Remarks Sean Wu, MD, PhD, Stanford University Susmita Sahoo, PhD, Mount Sinai School of Medicine
9:15 – 10:15 am	Early Career Session 1: Next Best Thing in Cardiovascular Research 9:15 Oral abstract TBD 9:35 Oral abstract TBD 9:55 Oral abstract TBD
10:15 – 10:45 am	<i>Break/Exhibits</i>
10:45 – 11:45 am	Early Career Session 2: Next Best Thing in Cardiovascular Research 10:45 Oral abstract TBD

	<p>11:05 Oral abstract TBD</p> <p>11:25 Oral abstract TBD</p>
11:45 am – 12:30 pm	<p>Early Career Keynote Ivor Benjamin, MD, FACC, FAHA, Medical College of Wisconsin</p>
12:30 – 1:00	<i>Break/Exhibits</i>
1:00 – 1:30 pm	<p>Opening Welcome 1:00 Opening Remarks from the President of the American Heart Association Michelle A. Albert, MD, University of California San Francisco</p> <p>1:15 Welcome Remarks from the BCVS Leadership Committee Chair Jianyi “Jay” Zhang, MD, PhD, University of Alabama at Birmingham</p>
1:30 – 2:45 pm	<p>Session 1: Genetic Basis of Cardiomyopathy</p> <p>Moderators: Konstantinos Drosatos, MSc, PhD, University of Cincinnati Brett A Colson, PhD, University of Arizona</p> <p>1:30 Molecular substrates for sudden cardiac death in young athletes with Plakophilin-2 deficiency Mario Delmar, MD, New York University, Langone Medical Center</p>

	<p>1:50 Role of junctophilin in cardiomyopathies Xander Wehrens, MD, PhD, Baylor College of Medicine, Cardiovascular Research Institute</p> <p>2:10 Insights into hypertrophic and dilated cardiomyopathy phenotypes studied in transgenic <i>MYL2</i> mice Danuta Szczesna-Cordary, PhD, University of Miami</p> <p>2:30 Oral Abstract TBD</p>
2:45 – 3:15 pm	Break/Exhibits
3:15 – 4:30 pm	<p>Session 2: Cardiac Repair, Cellular Reprogramming and Tissue Engineering</p> <p>Moderators: Richard Lee, MD, Harvard University Olaf Bergmann, PhD, Karolinska</p> <p>3:15 Metabolic Regulation of Mammalian Heart Regeneration Ahmed Mahmoud, PhD, University of Wisconsin-Madison</p> <p>3:35 Recent Advance in Direct Cardiac Reprogramming Li Qian, PhD, University of North Carolina</p> <p>3:55 Prolonged Regenerative Capacity in the Neonatal Opossum Heart Wataru Kimura, PhD, Riken Center for Developmental Biology</p>

	4:15 Oral Abstract TBD
4:30 – 7:00 pm	Poster Session 1 (includes Poster Competition)
Time (CDT)	TUESDAY – July 26
7:00 – 8:00 am	Continental Breakfast
7:00 – 8:00 am	<p>Women in Science Breakfast</p> <p>BCVS Champions the Women and Embracing Diversity</p> <p>Jane Freedman, MD, Vanderbilt University Editor-in-Chief, Circulation Research</p> <p>Rong Tian, MD, PhD, University of Washington Editor-in-Chief, Journal of Molecular and Cellular Cardiology</p> <p>Rhian Touyz, MBBCh, MSc, Med PhD, FAHA, McGill University Editor-in-Chief, Hypertension</p> <p>Nancy Sweitzer, MD, PhD, University of Arizona Health Sciences Editor-in-Chief, Circulation Heart Failure</p> <p>Ann Marie Schmidt, MD, New York University School of Medicine Editor-in-Chief, ATVB Journal</p>
8:00 – 9:15 am	<p>Session 3: Small RNAs, Exosomes and Extracellular Vesicles in Cardiovascular Disease-GQ</p> <p>Moderators: Jiang Chang, MD, PhD, Texas A&M University Susmita Sahoo, PhD, Mount Sinai</p>

	<p>8:00 TBD Clair Crewe, PhD, Washington University School of Medicine in St Louis</p> <p>8:20 TBD Jianyi “Jay” Zhang, MD, PhD, University of Alabama at Birmingham</p> <p>8:40 Cardiac Extracellular Vesicles Accelerate Pathology of Diseases Jonathan Leor, MD, PhD, Tel Aviv University, Israel</p> <p>9:00 Oral Abstract TBD</p>
9:15 – 9:45 am	Refreshment Break/Exhibits
9:45 – 11:00 am	<p>Session 4: Advances in Cardiac Hypertrophy and Remodeling</p> <p>Moderators: Priscila Sato, PhD, Drexel University Jiandong Liu, PhD, University of North Carolina</p> <p>9:45 PKG1 blood pressure-independent anti-remodeling mechanisms Robert Blanton, MD, Tufts Medical Center</p> <p>10:05 Secretion of Mitochondria as a Mitochondrial Quality Control Mechanism Asa Gustafsson, PhD, University of California San Diego</p>

	<p>10:25 Regulation of post-transcriptional gene expression modulates myofibroblast activation Michael Tranter, PhD, University of Cincinnati</p> <p>10:45 Oral Abstract TBD</p>
11:00 am - Noon	<p>Session 5: Keynote Lecture</p> <p>Moderators: Pilar Alcaide, PhD, FAHA, Tufts University Sumanth Prabhu, MD, Washington University School of Medicine in St. Louis</p> <p>From Bench to Bedside: The Role of Science in Treating a Deadly Disease Leslie Leinwand, PhD, University of Colorado</p>
Noon – 1:30 pm	<p><i>Lunch on Your Own/Poster Viewing/Exhibits</i> <i>Or</i> <i>Early Career Session</i></p>
1:30 – 2:45 pm	<p>Session 6: Hot Topics in Cardiac Fibrosis</p> <p>Moderators: Steve Jones, PhD, University of Louisville TBD</p> <p>1:30 Cardiac fibroblast activity enables cardiomyocyte hypertrophy in vivo Jeff Molkenin, PhD, Cincinnati Children's Hospital Medical Center</p>

	<p>1:50 Targeting Fibroblast Subpopulations in Hypertensive Heart Disease Taben Hale, PhD, University of Arizona</p> <p>2:10 Phenotypic Screening, Artificial Intelligence and New Therapeutic Targets for Cardiac Fibrosis Timothy McKinsey, PhD, University of Colorado Denver</p> <p>2:30 Oral Abstract TBD</p>
2:45 – 3:15 pm	Refreshment Break/Exhibits
3:15 – 4:30 pm	<p>Session 7: Bench to Bedside: Cardiovascular Therapeutics not Lost in Translation</p> <p>Moderators: Farah Sheikh, PhD, University of California San Diego Irene Cal Y Mayor-Turnbull, MD, Mount Sinai</p> <p>3:15 Gene Therapy Approaches to Signal Cardiomyocyte Renewal in the Injured Heart James F. Martin, MD, Baylor College of Medicine</p> <p>3:35 Variant effect mapping for inherited cardiomyopathy Victoria N. Parikh, MD, Stanford University School of Medicine</p> <p>3:55 TBD Katey Rayner, PhD, University of Ottawa Heart Institute</p>

	4:15 Oral Abstract TBD
4:30 – 7:00 pm	Poster Session 2 (includes Poster Competition)
7:00 pm	Early Career Social
Time (CDT)	Wednesday, July 27
7:00 – 8:00 am	Continental Breakfast/Registration/Exhibits
8:00 – 9:15 am	<p>Session 8: Novel Mechanisms of HFpEF and HFrEF</p> <p>Moderators: Edward Thorp, PhD, Northwestern University Flora Sam, MD, Boston University</p> <p>8:00 Mitochondrial Mechanisms in Heart Failure Rong Tian, MD, University of Washington</p> <p>8:20 Lipid-based signaling in cardiometabolic HFpEF Gabriele Schiattarella, MD, Charite University MDC Berlin</p> <p>8:40 Myocardial Cellular and Molecular Abnormalities in Human HFpEF David Kass, MD, Johns Hopkins School of Medicine</p> <p>9:00 Oral Abstract TBD</p>
9:15 – 9:45 am	Refreshment Break/Exhibits

9:45 – 11:00 am	<p>Session 9: The Heart and Cancer: New Insights</p> <p>Moderators: Douglas Sawyer, MD, Maine Health TBD</p> <p>9:45 TBD Aarti Asnani, MD, Beth Israel Deaconess</p> <p>10:05 TBD Vlad Zaha, MD, UT Southwestern Medical Center</p> <p>10:25 Acute and Chronic Cardiovascular Complications of Immune Checkpoint Inhibitors, Challenges and Insights into Cardiovascular Biology Tomas Neilan, MD, Massachusetts General Hospital</p> <p>10:45 Oral Abstract TBD</p>
11:00 – 11:45 am	<p>Session 10: Outstanding Early Career Investigator Award Competition</p> <p>11:00 Oral Abstract TBD</p> <p>11:15 Oral Abstract TBD</p> <p>11:30</p>

	Oral Abstract TBD
11:45 am – 1:30 pm	Lunch on Your Own OR AHA Center for Accelerated Drug Discovery
1:30 – 2:45 pm	<p>Session 11: Metabolic Cues in Heart Disease</p> <p>Moderators: Kedryn Baskin, PhD, Ohio State John Elrod, PhD, Temple University</p> <p>1:30 Atypical Sphingolipids in Ischemia Mitochondrial Function Lauren Cowart, PhD, Virginia Commonwealth University</p> <p>1:50 Cardiac metabolism, an important driver of cardiovascular diseases Guadalupe Sabio, DVM, PhD, Spanish National Centre for Cardiovascular Research</p> <p>2:10 Human cardiac metabolism in health and heart failure Zoltan Arany, MD, PhD, University of Pennsylvania</p> <p>2:30 Oral Abstract TBD</p>
2:45 – 3:15 pm	Refreshment Break/Exhibits
3:15 – 4:30 pm	Session 12: Epigenetics and Transcriptional Control of Heart Disease

	<p>Moderators: Manuel Rosa-Garrido, PhD, UCLA Leslie Leinwand, PhD, University of Colorado</p> <p>3:15 Role of antiretroviral drugs in post-translation modification of histone and development of cardiac hypertrophy Manish K. Gupta, PhD, University of Central Florida</p> <p>3:35 Bmi-1 mediated fibroblast heterogeneity in cardiac wound healing Sadia Mohsin, PhD, Temple University</p> <p>3:55 Potential role of cardiac DNA methylation in heart failure related to race, diabetes, and ischemia Adam Wende, PhD, University of Alabama at Birmingham</p> <p>4:15 Oral Abstract TBD</p>
4:30 – 7:00 pm	Poster Session 3 (includes Poster Competition)
7:00 – 9:00 pm	Council Dinner
Time (CDT)	Thursday, July 28
7:00 – 8:00 am	Continental Breakfast
8:00 – 9:15 am	<p>Session 13: Cardio-immunology, Inflammation and Cardiac Pathophysiology</p> <p>Moderators: Ganesh Halade, PhD, USF Meena Madhur, MD, PhD, Vanderbilt University</p>

	<p>8:00 Compensatory Cardiomyocyte Growth During Hypertension Requires Resident Cardiac Macrophages Slava Epelman, MD, University Health Network</p> <p>8:20 Cardiac resident macrophages prevent fibrosis and stimulate angiogenesis Xavier Revelo, PhD, University of Minnesota</p> <p>8:40 TBD Daniela Cihakova, MD, PhD, Johns Hopkins University</p> <p>9:00 Oral Abstract TBD</p>
9:15 – 9:45 am	Refreshment Break
9:45 – 11:00 am	<p>Session 14: Interorgan Communications in Heart Disease</p> <p>Moderators: Kristine Deleon-Pennell, PhD, Medical University of South Carolina Joel Schilling, MD, PhD, Washington University in St Louis</p> <p>9:45 Cardiorenal interactions in HFpEF - experimental models and therapeutic findings Joshua Hare, MD, University of Miami</p> <p>10:05 New mechanisms for BAT to affect the heart Kristin Stanford, PhD, Ohio State University</p>

	<p>10:25 Clonal hematopoiesis: hematopoietic clone wars in the cardiovascular system Jose Javier Fuster, PhD, Center for Cardiovascular Research</p> <p>10:45 Oral Abstract TBD</p>
11:00 am	Adjourn