

Tuesday (August 20, 2024)

2:00 pm – 5:00 pm Registration Open (Regency Foyer)

8:00 am – 3:00 pm ECI & MCI PROGRAMS

8:00 am – 9:30 am ECI Scientific Symposium (Seaview Ballroom ABC)

Moderators: Shirin Doroudgar, Ronald Vagnozzi.

9:30 am – 9:45 am **Coffee Break**

9:45 am – 11:00 am ECI Career Development Workshop (Seaview Ballroom ABC)

Moderator: TBA.

11:00 am – 11:30 am MCI Town Hall Meeting (Regency Ballroom EF)

Moderator: TBA.

11:30 am – 12:00 pm MCI Leadership Achievement Award Presentation (Regency Ballroom EF)

Moderator: TBA.

12:00 pm – 1:30 pm **ECI and MCI Joint Box Lunch (Ticket Required)**

1:30 pm – 3:00 pm MCI RESEARCH SCHOLARSHIP AWARD COMPETITION (Regency Ballroom EF)

Moderator: Maria Kontaridis.

3:00 pm – 5:15 pm YICA YOUNG INVESTIGATOR COMPETITION AWARD (Regency Ballroom ABC)

Moderator: Carmen 'Kika' Sucharov.

5:30 pm – 6:15 pm NAS2024 OPENING LECTURE (Regency Ballroom ABC)

Moderators: Jennifer Van Eyk, David Lefer.

Prof. Eduardo Marbán (Cedars Sinai Medical Center)
Bioinspired Noncoding RNA Drugs for Heart Disease.

6:30 pm – 7:30 pm Welcome Reception (Seaview Foyer & Rotunda)

7:30 pm – 10:30 pm ECI & MCI Reception (TBA)

Wednesday (August 21, 2024)

- 7:00 am – 5:00 pm Registration Open (Regency Foyer)
- 7:00 am – 5:00 pm Exhibition Open (Regency Foyer, Seaview Foyer & Rotunda)
- 7:00 am – 7:00 pm Speaker Room Open (Regency Ballroom D)
- 7:00 am – 7:00 pm Social Interaction Room Open (Beacon Rotunda)
- 7:00 am – 7:00 pm Poster Room Open (Beacon Ballroom AB)

7:00 am – 8:00 am **Breakfast** (Regency Foyer)

8:00 am – 9:15 am PLENARY SESSION (Regency Ballroom ABC)

Moderators: Tim Kamp, Peipei Ping.

Dr. Jeffery Molkentin (Cincinnati Children's Hospital Medical Center)
Resetting Total Body Metabolism by Manipulating Heart and Muscle Mito Calcium Levels.

Dr. Rebekah L. Gundry (University of Nebraska Medical Center)
Understanding the Sugars and Surfaceomes in the Heart.

9:30 am – 11:00 am SCIENTIFIC SYMPOSIUM #1, #2, & #3.

Symposium #1. HFpEF: Mechanisms, Challenges, and Opportunities – Part A (Regency Ballroom ABC).
Moderators: Kevin Xiang, Chen Gao.

Dr. Pilar Alcaide (Tufts University School of Medicine)
Mechanisms of Immune Dysregulation in Cardiometabolic HFpEF.

Dr. Gabriele G. Schiattarella (UT Southwestern)
Mechanisms of Metabolic Alterations in HFpEF.

Dr. Yang 'Kevin' Xiang (UC Davis)
Regulation of SERCA2a Function in HFpEF.

Dr. Rong Tian (University of Washington)
What Causes Mitochondrial Dysfunction in HFpEF Hearts?

Dr. Thomas G. Gillette (UT Southwestern)
Metabolic HFpEF and the Impact of Increased Load on a Metabolically Inflexible Heart.

Symposium #2: HFpEF: Mechanisms, Challenges, and Opportunities – Part B (Regency Ballroom EF).
Moderators: Wang Zhao, Douglas Tilley.

Dr. David Lefer (Cedars Sinai Medical Center)
Hydrogen Sulfide Signaling in HFpEF.

Dr. Julie Bossuyt (UC Davis)
A Novel Mouse Model of HFpEF.

Dr. Erik Blackwood (University of Arizona)
Roles for SGK1 in Regulating a Heart-Liver Axis in Cardio-metabolic HFpEF.

Dr. Timothy O'Connell (University of Minnesota School of Medicine)

Ffar4, Oxylipins, and HFpEF.

Dr. David A. Kass (Johns Hopkins Medicine)

Recipe for Making a HFpEF Heart.

Symposium #3: Cardiac Sarcomere Signaling and Mechanics in Heart Failure (Seaview Ballroom ABC).

Moderators: Kerry McDonald, Samantha Harris.

Dr. Beata M. Wolska (University of Illinois Chicago)

Signaling Pathways in Genetically Linked Cardiomyopathies: Unveiling the Old and the Novel.

Dr. Michael J. Previs (University of Vermont)

Probing Thick Filament Dynamics.

Dr. Nathaniel Huebsch (Washington University in St. Louis)

Substrate Mechanics Unveil Early Pathology in iPSC Micro-tissue Models of Hypertrophic Cardiomyopathy.

Dr. Julian E. Stelzer (Case Western Reserve University)

Hypertrophic Cardiomyopathy in MYBPC3 Carriers in Aging.

Dr. Sakthivel Sadayappan (University of Cincinnati College of Medicine)

MYBPC3 D389V Variant Induces Hypercontractility in Cardiac Organoids.

11:00 am – 11:30 am **Coffee Break**

11:30 am – 1:00 pm SCIENTIFIC SYMPOSIUM #4, #5, & #6.

Symposium #4. Protein Trafficking and Secretion (Regency Ballroom ABC).

Moderators: Ronald Vagnozzi, Edward Lau.

Dr. Christopher Glembotski (University of Arizona, College of Medicine at Phoenix)

The UPR as the Guardian of the Atrial Secretory Pathway.

Dr. Kedryn Baskin (Ohio State College of Medicine)

Metabolic Functions of Cardiac Secreted Factors.

Dr. Aldrin Gomes (UC Davis)

Collaborative Control of Cardiac Protein Trafficking by the Proteasome and Signaling Cascades?

Dr. Raj Kishore (Temple University Lewis Katz School of Medicine)

Tipifarnib Reduces Circulating Extracellular Vesicles and Protects Against Pressure Overload-mediated Cardiac Remodeling and Dysfunction.

Symposium #5: Cardiac Development and the Pediatric Failing Heart (Regency Ballroom EF).

Moderators: Anastacia Garcia, Kory J. Lavine.

Dr. Kory J. Lavine (Washington University in St. Louis)

Pediatric Heart Failure through the Lens of Single Cell Omics.

Dr. Tomohiro Yokota (UCLA)

Targeting the Long Noncoding RNA for Chamber-Specific Congenital Heart Defects.

Dr. Marlin Touma (UCLA)

Roles for SGK1 in Regulating a Heart-Liver Axis in Cardio-metabolic HFpEF.

Dr. Sushma Reddy (Stanford Medicine)

Utility of Biomarkers in Understanding the Mechanisms Underlying Pediatric Heart Failure.

Dr. Anastacia Garcia (University of Colorado – Anschutz Medical Campus)

Glycosphingolipid-Mediated Cardiomyocyte and Immune Cell Dysfunction in Hypoplastic Left Heart Syndrome.

Symposium #6: Understanding the Human Diseased Heart (Seaview Ballroom ABC).

Moderators: Pearl Quijada, Ryan Boudreau.

Dr. Susmita Sahoo (Icahn School of Medicine at Mount Sinai)

Circulating EVs in the Pathogenesis of Reno-Cardiac Disease.

Dr. Sarah Teichmann Group Member (Wellcome Sanger Inst.)

TBA.

Dr. Ryan Boudreau (Univ. of Iowa Carver College of Medicine)

Cardiac RNA-omics: from microRNAs to mRNAs.

Dr. Reza Ardehali (Baylor College of Medicine)

The Role of Mural Cells in Cardiac Fibrosis.

Dr. Bradford G. Hill (Univ. of Louisville)

Insights into the Role of Fibroblasts in Cardiac Remodeling.

1:00 pm – 3:00 pm **Lunch Break.**

1:30 pm – 3:00 pm **Lunch Workshop I.** JMCC Panel Discussion (Regency Ballroom ABC).

1:30 pm – 3:00 pm **Poster Presentations I** – Lightning Talks (Beacon Ballroom AB).

3:00 PM – 4:30 PM SCIENTIFIC SYMPOSIUM #7, #8, & #9.

Symposium #7: New Frontiers: Technological Advances in Molecular Cardiovascular Biology (Regency ABC).

Moderators: Susmita Sahoo, Jane Freedman.

Dr. Maggie Lam (University of Colorado – Anschutz Medical Campus)

Post-transcriptional Regulation of the Cardiac Proteomes.

Dr. Joshua Travers (University of Colorado – Anschutz Medical Campus)

Single Cell Morphometrics of Human Cardiac Fibroblasts by Cell Painting and Machine Learning.

Dr. Paul Cheng (Stanford University)

Causal Mechanisms of Atherosclerotic Disease Risk.

Dr. Anja Karlstaedt (Cedars Sinai Medical Center)

Intersection of Immunology and Metabolism in Myocardial Disease.

Dr. Anthony Gramolini (University of Toronto)

Multi-omic Analyses and Network Biology in Cardiovascular Disease.

Symposium #8: Computational Approaches in Cardiovascular Medicine (Regency Ballroom EF).

Moderators: Thomas Vondriska, Tobias Jakobi.

Dr. Tobias Jakobi (University of Arizona College of Medicine – Phoenix)

Computational Approaches for Novel RNA Species in the Heart.

Dr. Jan Christoph (UCSF)

Utility of Biomarkers in Understanding the Mechanisms Underlying Pediatric Heart Failure.

Dr. Jeffrey Saucerman (University of Virginia)

Single-cell Network Expansion Identifies a Fibroblast-specific LRP1 Pathway that Promotes Cardiac Fibrosis.

Dr. Joe L. Rowles III (Washington University in St. Louis)

Using Cutting-edge Multi-omics Integration to Identify Disease Biomarkers.

Yu Yan (UCLA)

Missing Values in Longitudinal Proteomics Studies: Making a Case for Data Multiple Imputation.

Symposium #9: Calcium and Arrhythmia (Seaview Ballroom ABC).

Moderators: Donald Bers, Andrew Edwards.

Dr. Xander H.T. Wehrens (Baylor College of Medicine)

Linking Inflammation to Calcium Dysregulation in Postoperative Atrial Fibrillation.

Dr. Parisa Asghari (University of British Columbia)

Dynamic Distribution of RyR2.

Dr. Jared Kushner (Columbia University)

Leveraging Proximity Proteomics to Illuminate Dyad Dysfunction in Chronic Heart Failure.

Dr. Jody L. Martin (UC Davis)

Small HSPs in AF.

Dr. Kunhua Song (University of South Florida - Heart Institute)

Antisense RNA in the Regulation of Cardiomyocyte Calcium Handling.

5:00 pm – 5:35 pm NAS2024 INNOVATOR AWARD (Regency Ballroom ABC)

Moderator: Dr. Maria Kontaridis.

Prof. Carmen ‘Kika’ Sucharov (University of Colorado – Anschutz Medical Campus)

Novel Insights in Pediatric Dilated Cardiomyopathy.

5:35 pm – 6:10 pm NAS2024 PRESIDENT AWARD (Regency Ballroom ABC)

Moderator: Dr. David Lefer.

Prof. Lorrie Kirshenbaum (University of Manitoba)

Regulation of Cell Death in the Heart, No Time to Die.

6:10 pm – 7:15 pm Poster Presentations I continue – Lightning Talks (Beacon Ballroom AB)

7:00 pm – 8:00 pm President Reception

Thursday (August 22, 2024)

- 7:00 am – 5:00 pm Registration Open (Regency Foyer)
- 7:00 am – 5:00 pm Exhibition Open (Regency Foyer, Seaview Foyer & Rotunda)
- 7:00 am – 7:00 pm Speaker Room Open (Regency Ballroom D)
- 7:00 am – 7:00 pm Social Interaction Room Open (Beacon Rotunda)
- 7:00 am – 7:00 pm Poster Room Open (Beacon Ballroom AB)

7:00 am – 8:00 am **Breakfast** (Regency Foyer)

8:00 am – 9:15 am PLENARY SESSION (Regency Ballroom ABC)

Moderators: Thomas Vondriska, Zhao Wang.

Dr. Joseph Hill (UT Southwestern Medical Center)
Future Cardiology.

Dr. Maria Kontaridis (Masonic Medical Research Institute)
Myeloid-specific Regulation of RhoA in Cardiac Fibrosis.

9:30 am – 11:00 am SCIENTIFIC SYMPOSIUM #10, #11, & #12.

Symposium #10. Cardiac Signaling in Health and Disease (Regency Ballroom ABC).

Moderators: Hesham Sadek, Manuel Rosa-Garrido.

Dr. Hesham Sadek (University of Arizona College of Medicine – Tucson)
Hypoxia-induced Stabilization of HIF2A Promotes Cardiomyocyte Proliferation by Attenuating DNA Damage.

Dr. Hossein Ardehali (Northwestern Feinberg School of Medicine)
Novel therapies targeting protein O-GlcNAcylation and hexokinase mitochondrial binding in HFpEF.

Dr. Dominic P. Del Re (Rutgers New Jersey Medical School)
Hippo-YAP signaling in cardiac fibrosis and inflammation.

Dr. Timothy McKinsey (University of Colorado – Anschutz Medical Campus)
Regulation of Cardiometabolic Signaling by an Unusual Posttranslational Modification.

Dr. Anthony Rosenzweig (University of Michigan Medical Center)
Senescence Induced Heart Failure: Not Just for the Old.

Symposium #11: Mitochondria and Cardiac Energetics – Part A (Regency Ballroom EF).

Moderators: Nicole Purcell, Sarah Franklin.

Dr. Daniel P. Kelly (University of Pennsylvania Perelman School of Medicine)
A Transcriptional Regulatory Circuitry Controlling Cardiac Maturation.

Dr. Ralph V. Shohet (University of Hawaii)
ZMYND8 in the Heart.

Dr. Da-Zhi Wang (University of South Florida Health)
Reduced Mitochondrial Protein Translation Promotes Cardiomyocyte Proliferation.

Dr. Sarah Franklin (University of Utah)
SMYD1a Protects the Heart from Ischemic Injury.

Symposium #12: Mitochondria and Cardiac Energetics – Part B (Seaview Ballroom ABC).
Moderators: Adam R. Wende, Rushita Bagchi.

Dr. Richard Kitsis (Albert Einstein College of Medicine)
OPA1 Regulation of Ferroptosis.

Dr. Helen E. Collins (University of Louisville)
Metabolic Adaptations in the Maternal Heart.

Dr. Chen Gao (University of Cincinnati)
Cell-Autonomous Effect of Cardiomyocyte BCAA Catabolism in Heart Failure in Mice.

Dr. Romain Harmancey (The University of Texas Health Science Center at Houston)
Nuclear Receptor NR4A2 Orchestrates Metabolic Reprogramming of the Stressed Heart.

Dr. Ahmed Ibrahim (Cedars Sinai Medical Center)
Small Methylating Y RNA, yREX3: A Macrophage Modulator in Cardiac Injury.

11:00 am – 11:30 am **Coffee Break**

11:30 am – 1:00 pm SCIENTIFIC SYMPOSIUM #13, #14, & #15.

Symposium #13: Metabolic Impact on Cardiac Disease (Regency Ballroom ABC).
Moderators: Sarah Schumacher-Bass, Roberta A. Gottlieb.

Dr. Åsa Gustafsson (UC San Diego)
Mitochondrial Quality Control in the Heart.

Dr. Guo Huang (UC San Francisco)
Cardiomyocyte Regenerative Potential in Mammals of Extreme Longevity and Hypometabolism.

Dr. Konstantinos Drosatos (University of Cincinnati College of Medicine)
Hepato-cardiac FGF21 Signaling: Causing Cardiac Hypertrophy while Treating Metabolic Syndrome?

Dr. Brian Foster (Johns Hopkins University School of Medicine)
The Role of Cardiac All-Trans Retinoic Acid Insufficiency in Heart failure Pathogenesis.

Dr. Pearl Quijada (UC Los Angeles)
Regulation of Angiogenesis by Cardiac Fibroblasts.

Symposium #14: New Mechanisms in Diabetic Cardiomyopathy (Regency Ballroom EF).
Moderators: Jean C. Bopassa, Harpreet Singh.

Dr. Ralph DeFronzo (UT Health Science Center at San Antonio)
Cardiovascular Risk In Type 2 Diabetes: How Big is The Problem?

Dr. Dmitry Terentyev (Ohio State University School of Medicine)
The Mechanisms of Increased Mitochondrial Calcium Uptake in Obese ZSF1 Rat Model of HFpEF.

Dr. Prasanna Krishnamurthy (University of Alabama at Birmingham)
Cellular (Mis)Communication in Diabetic Heart Disease.

Dr. Lu Cai (Univ. of Louisville School of Medicine)
Diabetic Cardiomyopathy: Impact of Metals.

Dr. TBA (UCLA)

Symposium #15: Novel Translational Approaches to CV Medicine – Part A (Seaview Ballroom ABC).
Moderator: Maria I. Kontaridis.

Dr. Sumanth Prabhu (Washington University School of Medicine in St. Louis)
Circulating EVs in the Pathogenesis of Reno-Cardiac Disease.

Dr. Timothy J. Kamp (University of Wisconsin – Madison)
The Role of LRRC10 in Cardiac Regeneration.

Dr. Nathan Tucker (Masonic Medical Research Institute)
Beyond Atlasing: Turning Variants into Mechanisms using Single Cell Sequencing.

Dr. John Calvert (Emory University School of Medicine)
Regulation of Cardiac Signaling by CSE-derived Hydrogen Sulfide.

Dr. Ronald Vagnozzi (University of Colorado – Anschutz Medical Campus)
Macrophage CX3CR1 Signaling in Cardiac Wound Healing and Fibrosis?

1:00 pm – 3:00 pm **Lunch Break.**

1:30 pm – 3:00 pm **Lunch Workshop II.** Women's Initiative at NAS (Regency Ballroom ABC).

1:30 pm – 3:00 pm **Poster Presentations II** – Lightning Talks (Beacon Ballroom AB).

3:00 pm – 4:30 pm SCIENTIFIC SYMPOSIUM #16 & #17.

Symposium #16: Mechanisms Underlying Cardiac Arrhythmias (Regency Ballroom ABC).
Moderator: Hector Valdivia.

Dr. Filip Van Petegem (University of British Columbia)
Post-transcriptional Regulation of the Cardiac Proteomes.

Dr. Zhao Wang (City of Hope Research & Innovation)
Mitochondrial Dysfunction in Cardiac Arrhythmias.

Dr. Aleksey Zima (Loyola University Chicago)
Not Confirmed.

Dr. Jau-Nian Chen (UCLA)
Mitochondrial Ca²⁺ Uptake in Developing and Diseased Hearts.

Dr. Hector Valdivia (University of Wisconsin Madison School of Medicine)
The Hidden Salutary Effect of Scorpion Peptides on Calcium-dependent Arrhythmias.

Symposium #17: Women's Health Symposium (Seaview Ballroom ABC).
Moderators: Lorrie Kirshenbaum, Sarah Franklin.

Dr. Jennifer Van Eyk (Cedars-Sinai Medical Center)
Stress Related High Sensitivity Cardiac Troponin I in Women with No Obstructive Coronary Artery Disease.

Dr. Inna Rabinovich-Nikitin (St. Boniface Research Center)
The Effects of Shift Work on Cardiovascular Health during Pregnancy.

Dr. Glen Pyle (University of Guelph)
Voices Carry: The Impact of Intimate Partner Violence on the Heart.

Dr. Nicole Purcell (Huntington Medical Research Institutes)
Adolescent Nicotine Use on the Heart and Brain.

Dr. Tara Sedlak (Vancouver Coastal Health)
Not Confirmed.

Dr. Tami Martino
Not Confirmed

4:30 pm – 5:30 pm **NAS Council 1st Meeting** (Regency Ballroom EF)

5:30 pm – 6:30 pm **Poster Presentations II** continue – Lightening Talks (Beacon Ballroom AB)

6:30 pm **Dinner on your own.**

Friday (August 23, 2024)

10:00 am – 12:00 pm Registration Closed (Regency Foyer)
7:00 am – 12:00 pm Exhibition Open (Regency Foyer, Seaview Foyer & Rotunda)
7:00 am – 5:00 pm Speaker Room Open (Regency Ballroom D)
7:00 am – 5:00 pm Social Interaction Room Open (Beacon Rotunda)
7:00 am – 9:00 am Poster Room Open for Poster Pickup (Beacon Ballroom AB)

7:00 am – 8:00 am **Breakfast** (Regency Foyer)

8:00 am – 9:15 am PLENARY SESSION (Regency Ballroom ABC)

Moderators: David Lefer, Jennifer Van Eyk.

Dr. Joseph Wu (Stanford Cardiovascular Institute, SCVI)
Stem Cells & Genomics: From Precision Medicine to Clinical Trial in Dish.

Dr. Ying Ge (University of Wisconsin Madison)
Top-down Proteomics for Cardiac Precision Medicine: Ready for Prime Time?

9:30 am – 11:00 am SCIENTIFIC SYMPOSIUM #18 & #19.

Symposium #18: Post-transcriptional Control of Gene Expression in Cardiovascular Health and Disease (Regency Ballroom ABC).

Moderators: Pearl Quijada, Adrian Arrietta.

Dr. Mirko Völkers (University Hospital Heidelberg)
Translational Control of Ybx1 Expression Regulates Cardiac Function in Response to Pressure Overload.

Dr. Leslie Kennedy (East Carolina University)
Post-translational Modifications on Translational Machinery as a Mechanism for Controlling Proteomic Diversity in the Heart.

Dr. Catherine Makarewich (Cincinnati Children's Hospital)
Developing Microproteins as Novel Heart Failure Therapeutics.

Dr. Mohsin Khan (Lewis Katz School of Medicine at Temple University)
RNA Binding Proteins as Regulators of Cardiac Metabolism.

Dr. Federica Accornero (Brown University)
Epitranscriptomic Regulation of Heart Disease.

Symposium #19: Proteotoxicity and Proteomic Remodeling in the Healthy and Failing Heart (Regency EF).

Moderators: Federica del Monte, Erik Blackwood.

Dr. Xuejun Wang (University of South Dakota)
PKA-Mediated Proteasome Activation Brightens Both Heart and Mind.

Dr. Huabo Su (Augusta University)
The Ubiquitin Ligase RBX2/SAG Regulates Mitochondrial Ubiquitination and Mitophagy.

Dr. Miao Cui (Harvard Medical School)

Coordinated Protein Synthesis and Degradation during Neonatal Heart Regeneration.

Dr. Edward Lau (Univ. of Colorado – Anschutz Medical Campus)

Spatiotemporal Proteomics of Cardiac Stress Response.

Dr. Sandra Pankow (The Scripps Research Institute)

A Novel Platform for Drug Development and Diagnosis of Misfolding Diseases such as Transthyretin Amyloid Cardiomyopathy.

11:00 am – 11:30 am **Coffee Break**

11:30 am – 1:00 pm SCIENTIFIC SYMPOSIUM #20 & #21.

Symposium #20: Myocardial Contractile and Regulatory Proteins in Heart Disease (Regency Ballroom ABC).
Moderators: Jianyi 'Jay' Zhang, Bobbie Garvin.

Dr. Farah Sheikh (UC, San Diego)

Unraveling Cell-Cell Connections: Plakophilin-2 Gene Therapy and Myocardial Regulation in Arrhythmogenic Cardiomyopathy.

Dr. Brett Colson (University of Arizona College of Medicine – Tucson)

Human Cardiac Myosin-binding Protein C Phosphorylation- and Mutation-dependent Structural Dynamics Monitored by Time-resolved FRET.

Dr. Kathleen C. Woulfe (University of Colorado – Anschutz Medical Campus)

Sarcomeric Acetylation as A Therapeutic Target in Cardiomyopathy.

Dr. Michelle Parvatiyar (Florida State University)

Expanding the Cardiac Roles of Sarcospan.

Dr. Henk Granzier (University of Arizona College of Medicine)

Titin's Spring Elements Play Critical Roles in Cardiac Health and Disease.

Symposium #21: Novel Translational Approaches to CV Medicine – Part B (Regency Ballroom EF).
Moderator: John Elrod.

Dr. John Elrod (Temple University Lewis Katz School of Medicine)

Discovery of an Integrated Signaling System Required for Calcium-dependent Changes in Metabolism.

Dr. Jennifer Davis (University of Washington)

MBNL1 Regulates Programmed Postnatal Switching.

Dr. Sam Das (Johns Hopkins School of Medicine)

Crosstalk Between the Heart and the Skeletal Muscle during Heart Failure.

Dr. Jiang Chang (Texas A&M University)

Emerging Insights: Epigenetic Regulation of Transcriptional Fidelity and Heart Failure.

Dr. Thomas Vondriska (UCLA DGSOM)

Chromatin as a Biomechanical Sensor in Cardiac Fibrosis.

1:00 pm – 3:00 pm **Lunch Break.**

1:30 pm – 3:00 pm **Lunch Workshop III. Omics Integration Technology Workshop (Regency Ballroom ABC).**

1:30 pm – 2:00 pm **TBA**

2:00 pm – 2:30 pm **NAS2024 AGILENT TECHNOLOGY AWARD LECTURE**

Moderator: Jennifer Van Eyk

Prof. TBA

2:30 pm – 3:00 pm **NAS2024 STATE OF THE ART LECTURE**

Moderator: Peipei Ping

Prof. Colleen E. Clancy (UC Davis)
Digital Twins from the Atom to the Rhythm.

3:00 PM – 4:00 PM **NAS COUNCIL 2ND MEETING (REGENCY BALLROOM EF)**

4:00 PM – 5:00 PM **NAS BUSINESS MEETING (REGENCY BALLROOM ABC)**

5:00 pm – 5:35 pm **NAS2024 LIFETIME ACHIEVEMENT AWARD (Regency Ballroom ABC)**

Moderator: Joseph Wu

Prof. Jianyi ‘Jay’ Zhang (BME University of Alabama at Birmingham)
modRNA Therapeutics vs. hiPSC-derived Cell and Cell-products for Myocardial Repair in Large Mammals: Remuscularization of Injured Ventricle.

5:35 pm – 6:10 pm **ENOMA ERIC N. OLSON MENTORSHIP AWARD (Regency Ballroom ABC)**

Moderator: Timothy McKinsey

Prof. Heinrich Taegtmeyer (UTHealth – Houston)
The Lure of Cardiac Metabolism in the Diagnosis, Prevention, and Treatment of Heart Failure.

6:10 pm – 7:00 pm **Cocktail Hour (Regency Foyer & Beacon Rotunda)**

7:00 pm – 9:00 pm **Award Ceremony & Banquet (Beacon Ballroom AB)**
