

12th Annual Meeting
North American Section

International Academy of Cardiovascular Sciences



September 18–20, 2025
LAS VEGAS, NEVADA

Conference Chair

Buddhadeb Dawn, MD

Professor and Chairman

Department of Internal Medicine

Chief, Division of Cardiovascular Medicine

Kirk Kerkorian School of Medicine

University of Nevada, Las Vegas

Email: buddha.dawn@unlv.edu

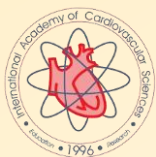
Conference Website:

Visit <https://iacs-nas-meeting.org/>

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**International Academy of
Cardiovascular Sciences**



**University of Nevada,
Las Vegas**

KIRK KERKORIAN
SCHOOL OF MEDICINE

UNLV

**University of Nevada,
Reno**



**University Medical
Center of Southern
Nevada**

UMC
CARDIOVASCULAR CENTER

CONFERENCE INFORMATION

Conference Chair

Buddhadeb Dawn, MD (Las Vegas, NV)

Scientific Advisory Committee

Chowdhury Ahsan, MD (Las Vegas, NV)

Josh Baker, PhD (Reno, NV)

Rushita Bagchi, PhD (Little Rock, AR)

Bradley Ferguson, PhD (Reno, NV)

AJ Marian, MD, PhD (Houston, TX)

Graham McGinnis, PhD (Las Vegas, NV)

Ravichandran Ramasamy, PhD (New York, NY)

Sakthivel Sadayappan, PhD (Tucson, AZ)

Organizing Committee

Devendra K. Agrawal, PhD (Pomona, CA)

Jacqueline Clark (Las Vegas, NV)

Michael V. DiCaro, MD, MSc (Las Vegas, NV)

Mridul Gautam, PhD (Reno, NV)

Russell Hancock (Las Vegas, NV)

Natalie Hernandez (Pomona, CA)

Julia Siu (Las Vegas, NV)

Venue & Accommodation

Mandalay Bay Convention Center

3950 S Las Vegas Blvd

Las Vegas, NV 89119

Registration Desk Hours

- September 18: 1:00 PM – 6:00 PM
- September 19: 7:00 AM – 5:00 PM
- September 20: 7:00 AM – 5:00 PM

Poster Session Details

September 19

- Setup: Begins at 8:00 AM
- Judging: 5:15 PM – 6:30 PM

Social Media

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PROGRAM AGENDA

AGENDA – Day 1: Thursday, September 18, 2025

1:00 – 6:00 pm Registration

4:00 – 4:30 pm Welcome Remarks (Islander DEI)

Buddhadeb Dawn, MD, Conference Chair

Marcia Turner, PhD, Associate Vice Chancellor for Health Sciences, NSHE

David W. Hatchett, PhD, Vice President for Research, UNLV

Josh Baker, PhD, Associate Vice President for Research, University of Nevada, Reno

John O'Reilly, JD, MBA, Chairman, UMC Governing Board

President's Address

Michael Czubryt, PhD, University of Manitoba, Canada

4:30 – 5:00 pm IACS Medal of Merit Lecture

Introduced by Naranjan Dhalla, PhD, Honorary Life President, IACS

Changing Perspectives: Transport Regulation at the Nuclear Membrane

Grant Pierce, PhD, University of Manitoba, Canada

5:00 – 5:30 pm Martin Morad Distinguished Lecture

Targeting Calcium Leak to Treat Disorders of Heart, Muscle and Brain

Andrew Marks, MD, Columbia University

5:30 – 6:00 pm State-of-the-Art Lecture

Cell Therapy for Heart Failure

Roberto Bolli, MD, University of Louisville

6:00 – 6:30 pm Plenary Lecture

Cardiovascular Disease and Cancer: A Dangerous Liaison

Kathryn Moore, PhD, New York University

SATELLITE SESSION: ISLANDER DEI

Moderator: Marcia Turner, PhD

6:45 – 7:30 pm Research and Innovation in Nevada: An Exciting Present and a Bright Future

Panelists

Josh Baker, PhD, Associate Vice President for Research, University of Nevada, Reno

Zachary Miles, Esq., Interim Vice President for Economic Development, UNLV

Martin Schiller, PhD, Exec. Director, Nevada Institute of Personalized Medicine, UNLV

Vick Gill, MD, Business Development Officer, UMC

6:45 pm Welcome Dinner: Islander DEI

PROGRAM AGENDA

AGENDA – Day 2: Friday, September 19, 2025

7:00 – 8:00 am Registration & Breakfast

Session 1: Tradewinds DEF

IACS PRESIDENTIAL SYMPOSIUM: ADVANCES IN CARDIOVASCULAR SCIENCES

Moderators: Grant Pierce, PhD; Michael Czubryt, PhD

- 8:00 – 8:20 am **The Cellular Cardiac Electrophysiological Effect of Long Term Amiodarone Treatment in Heart Failure Patients**
Andras Varro, MD, PhD, University of Szeged, Hungary
- 8:20 – 8:40 am **Scleraxis: A Stress-Responsive Regulator of Wound Healing and Fibrosis**
Michael Czubryt, PhD, University of Manitoba, Canada
- 8:40 – 9:00 am **Myeloid-Specific Regulation of RhoA in Response to Cardiac Injury and Cardiac Fibrosis**
Maria Kontaridis, PhD, Harvard Medical School
- 9:00 – 9:20 am **modRNA Therapeutics vs. hiPSC-derived Cell and Cell-products for Myocardial Repair in Large Mammals: Remuscularization of Injured Ventricle**
Jianyi (Jay) Zhang, MD, PhD, University of Alabama
- 9:20 – 9:40 am **Regulation of Cellular Quality Control Mechanisms in the Heart**
Lorrie Kirshenbaum, PhD, University of Manitoba, Canada
- 9:40 – 10:00 am **Coffee Break: Tradewinds ABC**

Session 2: Mariners AB

VASCULAR BIOLOGY

Moderators: Puja Mehta, MD; Daisy Sahoo, PhD

- 8:00 – 8:20 am **Role of Resident Macrophages in Fibrosis and Angiogenesis**
Jop van Berlo, MD, PhD, University of Minnesota
- 8:20 – 8:40 am **Small Vessels with Big Problems: Understanding Coronary Microvascular Dysfunction**
Puja Mehta, MD, Emory University
- 8:40 – 9:00 am **Direct Reprogramming for Vascular Regeneration**
Young-sup Yoon, MD, PhD, Emory University
- 9:00 – 9:20 am **Receptor-Based Approaches to Reducing Cardiovascular Risk**
Daisy Sahoo, PhD, Medical College of Wisconsin
- 9:20 – 9:40 am **Macrophage Immunometabolic Regulation in Atherosclerosis**
Carlos Fernández-Hernando, PhD, Yale University

PROGRAM AGENDA

AGENDA – Day 2: Friday, September 19, 2025

9:40 – 10:00 am **Coffee Break:** Tradewinds ABC

Session 3: Tradewinds DEF

CELL AND GENE THERAPY FOR CARDIOVASCULAR REPAIR AND REGENERATION

Moderators: Ewa Zuba-Surma, PhD; Sunjay Kaushal, MD, PhD

- 10:00 – 10:20 am** **Interaction Between MSC Therapeutics and Genetics in Dilated Cardiomyopathy**
Joshua Hare, MD, University of Miami
- 10:20 – 10:40 am** **Stem Cell-Derived Extracellular Vesicles as a Next Generation Tool for Tissue Repair**
Ewa Zuba-Surma, PhD, Jagiellonian University, Poland
- 10:40 – 11:00 am** **Phase I Randomized Study of Cardiac Stem Cells in Patients with Hypoplastic Left Heart Syndrome: CHILD Trial**
Sunjay Kaushal, MD, PhD, University of Nevada, Las Vegas
- 11:00 – 11:20 am** **Developmental Pathways for Human Heart Repair**
Hina Chaudhry, MD, Icahn School of Medicine at Mount Sinai
- 11:20 – 11:40 am** **NAN-CS101: A First-in-Human Phase 1 Open-Label Dose-Escalation Study of AB-1002 Gene Therapy for the Treatment of NYHA Class III HF**
Timothy Henry, MD, The Christ Hospital, Cincinnati

Session 4: Mariners AB

GENETICS, EPIGENETICS, AND OMICS

Moderators: Bradley Ferguson, PhD; AJ Marian, MD, PhD

- 10:00 – 10:20 am** **Chromatin as Mechanosensor in Cardiac Fibrosis**
Thomas Vondriska, PhD, University of California, Los Angeles
- 10:20 – 10:40 am** **Targeting Cellular Plasticity in Cardiometabolic Disease via an Atypical HDAC**
Rushita Bagchi, PhD, University of Arkansas
- 10:40 – 11:00 am** **Understanding Actin Acetylation in Muscle Function**
Bradley Ferguson, PhD, University of Nevada, Reno
- 11:00 – 11:20 am** **Role of KDM5 in Epigenetic Regulation of Heart Failure**
Priyatansh Gurha, PhD, McGovern Medical School at UT Health
- 11:20 – 11:40 am** **Human -Omics Data to Advance Novel Discovery in Heart Failure**
Jacob Joseph, MD, Brown University
- 11:40 am – 1:00 pm** **Lunch:** Islander DEI

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AGENDA – Day 2: Friday, September 19, 2025

SATELLITE SESSION

LOCATION: ISLANDER DEI

Moderator: Peter Kaufmann, PhD

12 noon – 1:00 pm **Funding Opportunities at the NIH: Mechanisms, Applications, FAQs**
Renee Wong, PhD, National Institutes of Health

Session 5: Tradewinds DEF

REGULATION OF CARDIAC SARCOMERES IN HEART FAILURE

Moderators: Michelle Parvatiyar, PhD; Josh Baker, PhD

1:00 – 1:20 pm **Defining Myosin S2 Variants in Hypertrophic Cardiomyopathy**
Sakthivel Sadayappan, PhD, University of Arizona

1:20 – 1:40 pm **Is Pre-Phenotype Treatment of HCM a Reasonable Goal?**
J. Carter Ralphe, MD, University of Wisconsin

1:40 – 2:00 pm **Contractility and Relaxation in Pediatric Dilated Cardiomyopathy**
Carmen Sucharov, PhD, University of Colorado

2:00 – 2:20 pm **Determinants of Cardiac Recovery in Inherited Dilated Cardiomyopathy**
Jennifer Davis, PhD, University of Washington

2:20 – 2:40 pm **The Sarcomere in Atrial Fibrillation**
Jonathan Kirk, PhD, Loyola University

2:40 – 3:00 pm **Coffee Break: Tradewinds ABC**

Session 6: Mariners AB

CIRCADIAN RHYTHM, EXERCISE, DIET, AND AGING

Moderators: Tami Martino, PhD; Graham McGinnis, PhD

1:00 – 1:20 pm **Timing Is Therapy: Eating, Exercise, and Aging in Circadian Cardiovascular Medicine**
Tami Martino, PhD, University of Guelph, Canada

1:20 – 1:40 pm **Aerobic Training and Cardiac Protection in Experimental Hyperhomocysteinemia: Analysis of Cardiometabolic Biomarkers, Oxidative Stress and Histological Changes**
Dragan Djuric, MD, PhD, University of Belgrade, Serbia

1:40 – 2:00 pm **Systemic Aging Fuels Cardiometabolic Remodeling: Increased Risk of Insulin Resistance and Mitochondrial Dysfunction in the Aging Heart**
Belma Turan, PhD, Lokman Hekim University, Turkey

2:00 – 2:20 pm **Temporal Regulation of Exercise and Training Induced Responses in**

PROGRAM AGENDA

AGENDA – Day 2: Friday, September 19, 2025

the Heart

Graham McGinnis, PhD, University of Nevada, Las Vegas

2:20 – 2:40 pm

Epigenetics of Ablation of Sleep Time Dipping in Blood Pressure and Heart Failure

Suresh Tyagi, PhD, University of Louisville

2:40 – 3:00 pm

Coffee Break: Tradewinds ABC

Session 7: Tradewinds DEF

ROBERTO BOLLI YOUNG INVESTIGATOR AWARD

Judges: Michael Czubryt, PhD; Harlokesh Yadav, PhD; Srinivas Tipparaju, PhD; Sakthivel Sadayappan, PhD

3:00 – 3:15 pm

DIAPH1 Regulates Stress-Induced Senescence in Human Cardiomyocytes

Gautham Yepuri, PhD, New York University

3:15 – 3:30 pm

Cardiac Myocyte Cytosolic Self-DNA Contributes to the Pathogenesis of Desmoplakin-Cardiomyopathy

Weiyue Wang, MD, UTHealth Houston

3:30 – 3:45 pm

Stress Granule-Driven Regenerative Signaling in Myocardial Infarction and Metabolic Comorbidities

Resmi Rajalekshmi, PhD, Western University of Health Sciences

3:45 – 4:00 pm

FABP5 Induces Cardiomyocyte Cell Cycle to Regenerate the Adult Heart, a Lesson from the Neonatal Heart

Abou Bakr Salama, MBBCh, Baylor College of Medicine

4:00 – 4:15 pm

Development of iPSC-Based Clinical Trial Selection Platform for Patients with Inherited Metabolic and Cardiovascular Disorders

Abhay Srivastava, PhD, University of Manitoba, Canada

Session 8: Mariners AB

INTERORGAN AND INTERORGANELLE TALKS IN CARDIOVASCULAR DISEASES

Moderators: Yajing Wang, MD, PhD; Ravichandran Ramasamy, PhD

3:00 – 3:20 pm

Stem Cell Reservoir Able to Support Cardiac Repair via Crosstalk Between Heart and Bone Marrow

Ren-Ke Li, MD, PhD, University of Toronto, Canada

3:20 – 3:40 pm

Inter-Organ Communication Management (IOCoM): A New Mechanistic Insight for Effective Anti-Aging Intervention

Shin-ichiro Imai, MD, PhD, Washington University

3:40 – 4:00 pm

Diabetes-Driven Impairment of Heart-Adipose Crosstalk

Yajing Wang, MD, PhD, University of Alabama

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AGENDA – Day 2: Friday, September 19, 2025

4:00 – 4:20 pm **Interorganelle Communications in Cardiac Diseases**
Ravichandran Ramasamy, PhD, New York University

Session 9: Tradewinds DEF

BUDDHADEB DAWN YOUNG INVESTIGATOR AWARD

Judges: Grant Pierce, PhD; Roberto Bolli, MD; Ren-Ke Li, MD, PhD

4:20 – 4:35 pm **Engineering Lipid Nanoparticles for Selective and Enhanced Delivery of mRNA to Cardiomyocytes**

Chandra Bhattacharya, PhD, University of Nevada, Las Vegas

4:35 – 4:50 pm **Natriuretic Peptide Signaling Prevents Cardiac Remodeling in HFpEF via Interruption of Wnt5a-Mediated Adipocyte-Cardiomyocyte Crosstalk**

Vineet Agrawal, MD, PhD, Vanderbilt University

4:50 – 5:05 pm **CDX2 cells in Cardiovascular Regeneration and Pregnancy Disorders: From Mouse Models to Human Insights**

Sangeetha Vadakke-Madathil, PhD, Icahn School of Medicine at Mount Sinai

5:05 – 5:20 pm **FLNC Deficiency Disrupts Nuclear and Intercalated Disc Integrity to Activate STING–IRF3 Signaling in Cardiomyopathy**

Suet Chen, PhD, University of Colorado-Denver Anschutz Medical Campus

Session 10: Mariners AB

GARY LOPASCHUK GRADUATE STUDENT AWARD

Judges: Mario Delmar, MD, PhD; Elizabeth Akin, PhD; Sai Sudha Koka, PhD; Marc Kahn, MD, MBA

4:25 – 4:40 pm **Investigating Altered Neuro-Cardiac Crosstalk Using the Spontaneously Hypertensive Rat Model**

Marika DeFerrari

4:40 – 4:55 pm **Galectin-3, Transforming Growth Factor Beta 1, and Brain Natriuretic Peptide in Cardiac Remodeling Under Hyperlipidemic and Hyperglycemic Stress**

Hina Patel

4:55 – 5:10 pm **Bleeding Risk with Next-Generation BTK Inhibitors: A Meta-Analysis of Randomized Controlled Trials**

Rishi Nanda

5:10 – 5:25 pm **Divergent Male and Female Offspring Cardiometabolic Responses to Parental PM2.5 Exposure**

Eleanor Mohler

PROGRAM AGENDA

AGENDA – Day 2: Friday, September 19, 2025

POSTER SESSION: TROPICS AB

Judges: Graham McGinnis, PhD; Dinender Singla, PhD; Ewa Zuba-Surma, PhD; Harpal Buttar, PhD;
Leila Rouhi, MD, PhD; Ravichandran Ramasamy, PhD; Rushita Bagchi, PhD;
Chandra Bhattacharya, PhD; Marc Kahn, MD, MBA

5:15 – 6:30 pm

Poster Session

Morris Karmazyn Poster Awards (4)

Margaret Moffat Poster Awards (4)

6:30 pm

Dinner on your own

SATELLITE SESSION (STUDENTS, TRAINEES, EARLY-CAREER SCIENTISTS)

LOCATION: TRADEWINDS DEF

Moderator: AJ Marian, MD, PhD

6:30 – 7:30 pm

Mentoring Session: Choosing a Career in Research

Roberto Bolli, MD, University of Louisville

PROGRAM AGENDA

AGENDA – Day 3: Saturday, September 20, 2025

7:00 – 8:00 am Registration & Breakfast

Session 11: Tradewinds DEF

ADVANCES IN CARDIOVASCULAR MEDICINE

Moderators: Roberto Bolli, MD; Jagat Narula, MD, PhD

8:00 – 8:25 am **Is PCSK9 Inhibition a Stand-Alone Therapy for Reducing Atherosclerotic Burden and Stabilizing Plaque?**

Devendra Agrawal, PhD, Western University of Health Sciences

8:25 – 8:50 am **Precision Management of Coronary Heart Disease: Role of Biomarkers**

Arshed Quyyumi, MD, Emory University

8:50 – 9:15 am **The Unbearable Lightness of Primary Endpoints in Clinical Trials**

Ali J. Marian, MD, PhD, McGovern Medical School

9:15 – 9:40 am **Eliminating CAD in Our Lifetime: Presumptive, Precision, Personalized to Population Medicine**

Jagat Narula, MD, PhD, UT Health Houston

9:40 – 10:00 am **Coffee Break:** Tradewinds ABC

Session 12: Mariners AB

EVERYTHING ARTIFICIAL: INTELLIGENCE, MATERIALS, CELLS

Moderators: Jonathan Silva, PhD; Finosh Thankam, PhD

8:00 – 8:20 am **Augmented Reality Displays as a Conduit to Bring Artificial Intelligence to the Cardiac Catheterization Laboratory**

Jonathan Silva, PhD, Washington University

8:20 – 8:40 am **MXene Nanomaterials for Allogeneic Stem Cell Therapy for Cardiac Repair and Regeneration**

Sanjiv Dhingra, PhD, University of Manitoba, Canada

8:40 – 9:00 am **Injectable Hydrogels for the Intra-Pericardial Delivery of Stem Cells**

Finosh Thankam, PhD, Western University of Health Sciences

9:00 – 9:20 am **Calcium Signaling Consequences of Arrhythmogenic CPVT1 Mutations in hiPSC.CMs**

Martin Morad, PhD, Medical University of South Carolina

9:20 – 9:40 am **Clinically Interpretable Deep Learning for Non-Invasive, High-Fidelity Fetal ECG Extraction and Early Congenital Heart Disease Screening**

Shengjie (Patrick) Zhai, PhD, University of Nevada, Las Vegas

9:40 – 10:00 am **Coffee Break:** Tradewinds ABC

PROGRAM AGENDA

AGENDA – Day 3: Saturday, September 20, 2025

Session 13: Tradewinds DEF

HEART RHYTHM: BENCH AND BEDSIDE

Moderators: DJ Lakkireddy, MD; Jennifer Silva, MD

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|-------------------------|--|
| 10:00 – 10:20 am | Updates in Pacing, Defibrillation, Resynchronization, and Heart Failure Therapies
<i>Dhanunjaya DJ Lakkireddy, MD, University of Missouri-Columbia</i> |
| 10:20 – 10:40 am | The Era of Continuous Data is Now: Wearables and AI
<i>Jennifer Silva, MD, Washington University SOM</i> |
| 10:40 – 11:00 am | Arrhythmogenic Right Ventricular Cardiomyopathy: Molecular Mechanisms and the Promise of Gene Therapy
<i>Mario Delmar, MD, PhD, New York University</i> |
| 11:00 – 11:20 am | State of the Art in Pulse Field Ablation - Present and Future
<i>Andrea Natale, MD, Texas Cardiac Arrhythmia Institute</i> |
| 11:20 – 11:40 am | Insights From Atrial Fibrillation Genetics and Genomics: From Bedside to Bench and Back Again
<i>Mina Chung, MD, Cleveland Clinic Lerner College of Medicine</i> |

Session 14: Mariners AB

DIABETES, INFLAMMATION, AND HEART DISEASE

Moderators: Chiara Giannarelli, MD, PhD; Ranko Skrbic, MD, PhD

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|---------------------------|---|
| 10:00 – 10:20 am | Inflammation and Atherogenesis in the Context of Diabetes
<i>Chiara Giannarelli, MD, PhD, New York University</i> |
| 10:20 – 10:40 am | PCSK9-Induced Inflammation in Diabetes
<i>Dinender Singla, PhD, University of Central Florida</i> |
| 10:40 – 11:00 am | GLP-1 Agonists and Their Role in Oxidative Stress and Inflammation: Results from Clinical and Experimental Studies
<i>Ranko Skrbic, MD, PhD, University of Banja Luka, The Republic of Srpska, Bosnia & Herzegovina</i> |
| 11:00 – 11:20 am | Cardiac Inflammation and Cell Death in Diabetic Cardiomyopathy: Metallomic Impact
<i>Lu Cai, MD, PhD, University of Louisville</i> |
| 11:20 – 11:40 am | Diabetic Myocardial Infarction and Strategies to Protect the Heart
<i>Srinivas Tipparaju, PhD, University of South Florida</i> |
| 11:40 am – 1:00 pm | Lunch: Islander DEI |

PROGRAM AGENDA

AGENDA – Day 3: Saturday, September 20, 2025

Session 15: Tradewinds DEF

ADVANCES IN INTERVENTIONAL AND STRUCTURAL CARDIOVASCULAR MEDICINE AND SURGERY

Moderators: Petr Ostadal, MD, PhD; Chowdhury Ahsan, MD, PhD

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|----------------|--|
| 1:00 – 1:20 pm | Surgical Management of Functional Mitral Regurgitation
<i>Paul C. Tang, MD, PhD, Mayo Clinic</i> |
| 1:20 – 1:40 pm | Updates and Advances in Coronary and Valve Interventions
<i>Chowdhury Ahsan, MD, PhD, University of Nevada, Las Vegas</i> |
| 1:40 – 2:00 pm | Treatment of Left Main Coronary Artery Lesions: Current Status and How I Select the Patient
<i>Henrique B. Furtado, MD, Tocantins Federal University, Brazil</i> |
| 2:00 – 2:20 pm | ECMO in Cardiogenic Shock
<i>Petr Ostadal, MD, PhD, Charles University, Czech Republic</i> |
| 2:20 – 2:40 pm | Advances in Transcatheter Mitral and Tricuspid Valve Therapies
<i>Saibal Kar, MD, University of California, Los Angeles</i> |
| 2:40 – 3:00 pm | Coffee Break: Tradewinds ABC |

Session 16: Mariners AB

WOMEN'S HEART HEALTH AND CARDIO-OBSTETRICS

Moderators: Andera Russo, MD; Lorrie Kirshenbaum, PhD

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|----------------|---|
| 1:00 – 1:25 pm | Arrhythmias in Pregnancy
<i>Andera Russo, MD, Cooper Medical School of Rowan University</i> |
| 1:25 – 1:50 pm | The Cardiac Pathophysiological Outcomes of Shift Work During Pregnancy
<i>Inna Rabinovich-Nikitin, PhD, University of Manitoba, Canada</i> |
| 1:50 – 2:15 pm | Mitochondrial Stress Signals in Pregnancy: Drivers of Hypertension and Vascular Dysfunction
<i>Stella Goulopoulou, PhD, Loma Linda University</i> |
| 2:15 – 2:40 pm | Gender-Specific Differences in Heart Failure and Coronary Artery Disease
<i>Jasmine K. Dugal, DO, MPH, University of Nevada, Las Vegas</i>
<i>Vasiliki (Vicky) Tasouli Drakou, DO, University of Nevada, Las Vegas</i> |
| 2:40 – 3:00 pm | Coffee Break: Tradewinds ABC |

PROGRAM AGENDA

AGENDA – Day 3: Saturday, September 20, 2025

Session 17: Tradewinds DEF

CARDIOMYOPATHIES AND HEART FAILURE: NOVEL CONCEPTS, TREATMENTS, DEVICES

Moderators: Carmen Sucharov, PhD; Javier Banchs, MD

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| 3:00 – 3:20 pm | Metabolic Inflammation in HFpEF: Moving Targets
<i>Matthew Feinstein, MD, Northwestern University</i> |
| 3:20 – 3:40 pm | Remodeled Metabolic Trafficking of Fatty Acids in the Cardiomyocyte in Heart Failure
<i>Douglas Lewandowski, PhD, Ohio State University</i> |
| 3:40 – 4:00 pm | Implantable Devices and Wearables in Heart Failure and Arrhythmia Monitoring
<i>Javier Banchs, MD, Baylor Scott & White Health</i> |
| 4:00 – 4:20 pm | Hypertrophic Cardiomyopathy – Navigating Through Novel Treatments
<i>Srikanth Seethala, MD, Saint Alphonsus Heart Institute</i> |
| 4:20 – 4:40 pm | Is Iron Therapy Indicated for Heart Failure with Reduced Ejection Fraction Patients?
<i>Marc Kahn, MD, MBA, University of Nevada, Las Vegas</i> |

Session 18: Mariners AB

OBESITY, METABOLIC SYNDROME, NEW RISK FACTORS, AND NEW TREATMENTS

Moderators: Loren Wold, PhD; Vineet Agrawal, MD, PhD

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| 3:00 – 3:20 pm | Heart Failure and Psychosocial Stress: Implications of the Microbiome
<i>Loren Wold, PhD, Ohio State University</i> |
| 3:20 – 3:40 pm | A Translational Journey: Targeting PDE5 and mTOR to Enhance Cancer Killing While Preventing Cardiotoxicity
<i>Rakesh Kukreja, PhD, Virginia Commonwealth University</i> |
| 3:40 – 4:00 pm | Understanding Cardiovascular Risk Factors: Enhanced Vesicular Trafficking of Neuropeptide Y (NPY) in Sympathoexcitation
<i>Elizabeth Akin, PhD, University of Nevada, Reno</i> |
| 4:00 – 4:20 pm | Effect of GLP-1 Receptor Agonist on Ischemia Reperfusion Injury in Rats and Metabolic Syndrome
<i>Vladimir Jakovljevic, MD, PhD, University of Kragujevac, Serbia</i> |
| 4:20 – 4:40 pm | Lipoprotein(a): Emerging Knowledge and Novel Therapeutic Options
<i>Michael V. DiCaro, MD, University of Nevada, Las Vegas</i> |

PROGRAM AGENDA

AGENDA – Day 3: Saturday, September 20, 2025

Awards Ceremony and Gala Dinner

Location: Islander DEI

6:00 – 7:00 pm

Announcements, Recognitions, and Awards

Recognition by IACS-NAS Organizing Committee

Chairs: Dr. Buddhadeb Dawn, Dr. Ali J. Marian

Research Catalyst Award: Dr. Renee Wong

Translational Catalyst Award: Dr. Santosh Sanganalmath

Distinguished Service Award: Dr. Marcia Turner

Research Leadership Excellence Award: Dr. Josh Baker

Healthcare Trailblazer Award: Mason Van Houweling

Healthcare Excellence Award: Ms. Joann Strobbe

IACS Awards

Chair: Dr. Naranjan Dhalla

IACS Medal of Merit: Dr. Grant Pierce

IACS Distinguished Service Award: Dr. Devendra K. Agrawal

IACS Distinguished Leadership Award: Dr. Michael Czubryt

IACS Lifetime Achievement Award: Dr. Buddhadeb Dawn

Established Investigator Awards

Chairs: Dr. Naranjan Dhalla, Dr. Andras Varro

Naranjan S. Dhalla Award for Innovative Investigators in

Cardiovascular Sciences: Dr. E. Douglas Lewandowski

Paul Ganguly Distinguished Lecture Award in Cardiovascular

Sciences: Dr. Ravichandran Ramasamy

Amarjit Arneja Distinguished Lecture Award in Prevention of Heart

Disease: Dr. Jianyi “Jay” Zhang

Grant Pierce Award for Excellence in Cardiovascular Sciences:

Dr. Vladimir Jakovljevic

James Willerson Award for Excellence in Cardiovascular Sciences:

Dr. Jagat Narula

PROGRAM AGENDA

AGENDA – Day 3: Saturday, September 20, 2025

Jawahar (Jay) Mehta Award for Clinical Scientist: Dr. Petr Ostadal

Howard Morgan Award for Distinguished Achievements in Cardiovascular Research: Dr. Ali J. Marian

Suresh Tyagi Award for Excellence in Cardiovascular Sciences:
Dr. Maria I. Kontaridis

Young Investigator, Graduate Students, and Poster Awards

Chairs: Dr. Buddhadeb Dawn, Dr. Devendra Agrawal

Roberto Bolli Young Investigator Award

Buddhadeb Dawn Young Investigator Award

Gary Lopaschuk Graduate Student Award

Margaret Moffat Poster Awards (4)

Morris Karmazyn Poster Awards (4)

6:00 pm

Gala Dinner

PROGRAM FACULTY

Devendra K. Agrawal, MSc (Chem), PhD (Biochem), PhD (Med Sciences), MBA, MS (ITM) FAAAAI, FAHA, FAPS, FIACS

Professor and Director, Department of Translational Research
College of Osteopathic Medicine of the Pacific
Western University of Health Sciences
Pomona, CA, USA

Chowdhury H. Ahsan, MD, PhD, FSCAI, MRCP

Professor of Medicine
Director, Cardiovascular Fellowship Program
Chief of Medicine and Director of Cath Lab – University Medical Center
Director, UMCSN Cardiovascular Research
Immediate Past Governor, ACC Nevada Chapter
Kirk Kerkorian School of Medicine at UNLV
Las Vegas, Nevada, USA

Elizabeth J. Akin, PhD

Assistant Professor
Department of Pharmacology
School of Medicine
University of Nevada, Reno
Reno, Nevada, USA

Rushita Bagchi, PhD

Assistant Professor
Department of Physiology and Cell biology
College of Medicine
University of Arkansas for Medical Sciences (UAMS)
Little Rock, Arkansas, USA

Josh Baker, PhD

Professor
Department of Pharmacology
Principal Investigator, NIH NV INBRE
Associate Vice President for Research
Research & Innovation
University of Nevada, Reno
Reno, Nevada, USA

Javier E. Banchs, MD, FACC, FHRS

Director, Clinical Cardiac Electrophysiology and Pacing
Baylor Scott & White Health
Temple, Texas, USA

Roberto Bolli, MD, DSc (Hon), FAHA, FACC

Professor of Medicine, Physiology and Biophysics
Jewish Hospital Heart and Lung Institute Distinguished Chair in Cardiology
Director, Institute of Molecular Cardiology
Distinguished University Scholar

University of Louisville School of Medicine
Louisville, KY, USA

Lu Cai, MD, PhD

Professor of Pediatrics, Radiation Oncology, and Pharmacology and Toxicology
Director, Pediatric Research Institute
University of Louisville School of Medicine
Louisville, Kentucky, USA

Hina W. Chaudhry, MD

Professor of Medicine and Cardiology
Director, Cardiovascular Regenerative Medicine
Icahn School of Medicine at Mount Sinai
New York, NY, USA

Mina Chung, MD, FACC, FHRS

President, Heart Rhythm Society
Professor of Medicine
Robert and Suzanne Tomsich Department of Cardiovascular Medicine
Cleveland Clinic Lerner College of Medicine
Cleveland Clinic Heart and Vascular Institute
Cleveland, Ohio, USA

Michael P. Czubryt, PhD, FCVS, FAHA, FIACS

President, International Academy of Cardiovascular Sciences - North American Section
Everett Chair in Fibrosis Research
Professor of Physiology and Pathophysiology, University of Manitoba
St. Boniface Hospital Albrechtsen Research Centre
Winnipeg, Manitoba, Canada

Jennifer Davis, PhD

Associate Professor | Eva & Arra Woods Professorship
Departments of Laboratory Medicine and Pathology & Bioengineering
Director, Center for Cardiovascular Biology
Interim Director, The Institute for Stem Cell & Regenerative Medicine
University of Washington School of Medicine
Seattle, Washington, USA

Mario Delmar, MD, PhD

Patricia M. and Robert H. Martinson Professor of Cardiology
Department of Medicine
NYU Langone Health
Professor, Department of Cell Biology
New York University Grossman School of Medicine
New York, New York, USA

PROGRAM FACULTY

Naranjan S. Dhalla, PhD, MD (Hon), DSc (Hon)

Executive Director, IACS
Distinguished Professor, University of Manitoba
St. Boniface Hospital Albrechtsen Research Centre
Winnipeg, Manitoba, Canada

Sanjiv Dhingra, PhD, FAHA, FIACS, FAPS

Professor
Director, Canada Italy Tissue Engineering Program
Associate Head Research - Department of Physiology and Pathophysiology
Institute of Cardiovascular Sciences, St. Boniface Hospital Research
Regenerative Medicine Program
Biomedical Engineering Program
Max Rady College of Medicine, Rady Faculty of Health Sciences
University of Manitoba
Winnipeg, Manitoba, Canada

Michael V. DiCaro, MD, MSc

Clinical Fellow, Cardiovascular Medicine
Department of Internal Medicine
Kirk Kerkorian School of Medicine
University of Nevada, Las Vegas
Las Vegas, Nevada, USA

Dragan M. Djuric, MD, MS, PhD, FIACS, FIUPS

Professor of Physiology and Clinical Physiologist
Institute of Medical Physiology "Richard Burian"
Faculty of Medicine, University of Belgrade
Belgrade, Serbia

Jasmine K. Dugal, DO, MPH

Internal Medicine Resident, PGY3
Department of Internal Medicine
Kirk Kerkorian School of Medicine
University of Nevada, Las Vegas
Las Vegas, Nevada, USA

Matthew J. Feinstein, MD

Associate Professor of Medicine, Preventive Medicine, and Pathology
Director of Northwestern's Clinical and Translational Immunocardiology Program
Director of Medical Student Research
Northwestern University Feinberg School of Medicine
Chicago, Illinois, USA

Bradley Ferguson, PhD

Associate Professor
Graduate Program Director
Department of Nutrition
College of Agriculture, Biotechnology & Natural Resources

University of Nevada, Reno
Reno, Nevada, USA

Carlos Fernández-Hernando, PhD

Anthony N. Brady Professor
Director, Vascular Biology & Therapeutics Program (VBT)
Departments of Comparative Medicine and Pathology
Yale Center for Molecular and System Metabolism (YMSM)
Yale University School of Medicine
New Haven, Connecticut, USA

Henrique B. Furtado, MD

Efetiive Professor of the Medical College of the Tocantins
Federal University
Vice President of the Latin América Section
Praia da Graciosa
Palmas, TO, Brazil

Chiara Giannarelli, MD, PhD

Associate Professor of Medicine and Pathology
NYU Grossman School of Medicine
New York, New York, USA

Stella Gouloupoulou, PhD, FAHA

Associate Professor
Lawrence D. Longo, MD Center for Perinatal Biology
Department of Basic Sciences, Division of Physiology
Department of Gynecology & Obstetrics
Loma Linda University School of Medicine
Loma Linda, California, USA

Priyatansh Gurha, PhD

Assistant Professor
Center for Cardiovascular Genetics
Institute of Molecular Medicine
McGovern Medical School
The University of Texas Health Science Center at Houston

Joshua Hare, MD, FACC, FAHA

Director, Donald Soffer Endowed Program in Regenerative Medicine
Chief Science Officer
Senior Associate Dean for Experimental & Cellular Therapeutics
Louis Lemberg Professor of Medicine (Cardiology)
Professor of Molecular and Cellular Pharmacology
Professor of Biomedical Engineering
Director, Interdisciplinary Stem Cell Institute (ISCI)
University of Miami Miller School of Medicine
Miami, Florida, USA

PROGRAM FACULTY

Timothy D. Henry, MD, MSCAI

The Lindner Family Distinguished Chair in Clinical Research
Medical Director, The Carl and Edyth Lindner Canter for Research and Education
The Christ Hospital
Cincinnati, Ohio, USA

Shin-ichiro Imai, MD, PhD

Theodore and Bertha Bryan Distinguished Professor of Environmental Medicine
Department of Developmental Biology
Department of Medicine (Joint)
Washington University School of Medicine
St. Louis, Missouri, USA

Vladimir Jakovljevic, MD, PhD, FIACS

President, IACS- Europe
Professor, Department of Medical Physiology
Faculty of Medicine, University of Kragujevac
Kragujevac, Serbia

Jacob Joseph, MD

Professor of Medicine
Chief of Cardiology
VA Providence Healthcare System
Brown University School of Medicine
West Roxbury, Massachusetts, USA

Marc Kahn, MD, MBA, MACP, FRCP

Professor of Medicine
Chief, Division of Hematology/Medical Oncology
Kirk Kerkorian School of Medicine
University of Nevada, Las Vegas
Las Vegas, Nevada, USA

Saibal Kar, MD, FACC, FSCAI

Director of Structural Heart Disease Interventions and Clinical Research
Los Robles Health System
Clinical Professor of Medicine
David Geffen School of Medicine at UCLA
Thousand Oaks, California, USA

Sunjay Kaushal, MD, PhD

Professor
Department of Surgery
Kirk Kerkorian School of Medicine
University of Nevada, Las Vegas
Las Vegas, Nevada, USA

Jonathan Kirk, PhD

Professor and Vice Chair
Department of Cell & Molecular Physiology
Loyola University Stritch School of Medicine

Chicago, Illinois, USA

Lorrie Kirshenbaum, OM, PhD, FAHA, FIACS, FISHR, FFGTB, FCAHS

Naranjan Dhalla Chair in Cardiovascular Sciences
Director, Institute of Cardiovascular Sciences
St. Boniface Hospital Albrechtsen Research Centre
Canada Research Chair in Molecular Cardiology
Head, Division of Cardiovascular Science and Disease
Professor, Departments of Physiology and Pathophysiology, and Pharmacology and Therapeutics, Max Rady College of Medicine
Rady Faculty of Health Sciences, University of Manitoba
Winnipeg, Manitoba, Canada

Maria I. Kontaridis, PhD

Executive Director
Director of Research
Gordon K. Moe Professor and Chair
Biomedical Research and Translational Medicine
Masonic Medical Research Institute
Associate Professor of Medicine, Part-time
Beth Israel Deaconess Medical Center
Harvard Medical School
Utica, NY, USA

Peter G. Kaufmann, PhD

Associate Dean for Research
Professor, Department of Brain Health
School of Integrated Health Sciences
University of Nevada, Las Vegas
Las Vegas, Nevada, USA

Rakesh C. Kukreja, PhD

Professor of Internal Medicine, Biochemistry & Molecular Biology and Physiology & Biophysics
Eric Lipman Professor of Cardiology
Virginia Commonwealth University School of Medicine
Richmond, Virginia, USA

Dhanunjaya DJ Lakkireddy, MD, FACC, FHRS

Executive Medical Director, Kansas City Heart Rhythm Institute
HCA Midwest Health
Professor, University of Missouri-Columbia
Vice President, Heart Rhythm Society
Kansas City, Kansas, USA

E. Douglas Lewandowski, Ph.D., FAHA, FISHR, FAAAS

Director, Translational Research
Dorothy M. Davis Heart & Lung Research Institute
Professor, Department of Internal Medicine
Professor, Department of Biological Chemistry and

PROGRAM FACULTY

Pharmacology
The Ohio State University College of Medicine
Columbus, OH, USA

Ren-Ke Li, MD, PhD, FCAHS, FRSC
Canadian Research Chair of Cardiac Regeneration
Professor of Cardiovascular Surgery, University of
Toronto
Senior Scientist, Toronto General Hospital Research
Institute
University Health Network
Toronto, Ontario, Canada

Ali J. Marian, MD, PhD
Professor of Molecular Medicine and Internal
Medicine
Director, IMM-Center for Cardiovascular
Genetics, Institute of Molecular Medicine
James T. Willerson Distinguished Chair in Cardiovascular
Research
McGovern Medical School
Houston, TX, USA

Andrew R. Marks, MD
Clyde and Helen Wu Professor of Molecular Cardiology
Chairman, Department of Physiology and Cellular
Biophysics
Founding Director, Wu Center for Molecular Cardiology
Professor of Physiology & Cellular Biophysics
Member, National Academy of Sciences
Columbia University Vagelos College of Physicians and
Surgeons
New York, NY, USA

Tami A. Martino, PhD
Distinguished Chair in Molecular Cardiovascular
Research
Director, Centre for Cardiovascular Investigations
Career Investigator Heart & Stroke Foundation: Circadian
Medicine & Heart Health
President, Canadian Society for Chronobiology
Professor, Biomedical Sciences
University of Guelph
Guelph, Ontario, Canada

Graham McGinnis, PhD
Assistant Professor
Department of Kinesiology and Nutrition Sciences
School of Integrated Health Sciences
University of Nevada, Las Vegas
Las Vegas, Nevada, USA

Puja K. Mehta, MD, FACC, FAHA
Associate Professor of Medicine (Cardiology) Director,
Women's Translational Cardiovascular Research

Emory Women's Heart Center
Associate Program Director, Clinical Investigator
Cardiology Fellowship Program
Emory Clinical Cardiovascular Research Institute
Emory Heart Disease Center for Prevention
Emory University School of Medicine
Atlanta, Georgia, USA

Kathryn J Moore, PhD
Jean and David Blechman Professor of Cardiology
Professor, Departments of Medicine and Cell Biology
Director, NYU Cardiovascular Research Center
New York University Langone Health
New York, New York, USA

Martin Morad, PhD, FISHR, FIACS
Director of Cardiac Signaling Center
Smart State Chair in Regenerative Medicine
BlueCross BlueShield of South Carolina Endowed Chair
in Cardiovascular Health
Professor, Regenerative Medicine and Cell Biology
Medical University of South Carolina
Charleston, South Carolina, USA

Jagat Narula, MD, PhD
Executive Vice President and Chief Academic Officer
University of Texas Health Houston
Houston, TX, USA

Andrea Natale, MD, FACC, FHRS, FESC
Executive Medical Director, Texas Cardiac Arrhythmia
Institute
St. David's Medical Center
Austin, Texas, USA

Petr Ostadal, MD, PhD
President, Czech Society of Cardiology
Professor of Cardiology
Second Faculty of Medicine, Charles University
Prague, Czech Republic

Michelle S. Parvatiyar, PhD
Associate Professor
College of Education, Health, and Human Sciences
Florida State University
Tallahassee, Florida, USA

Grant N. Pierce, CM, OM, PhD, FACC, FAHA, FISHR, FIACS, FCAHS, FRSC
World President, International Academy of
Cardiovascular Sciences
Assistant Executive Director, Manitoba Medical Service
Foundation

PROGRAM FACULTY

Distinguished Emeritus Professor
Department of Physiology and Pathophysiology
Rady College of Medicine, Rady Faculty of Health Sciences
University of Manitoba
Winnipeg, Canada

Arshed Quyyumi, MD

Professor of Medicine
Director, Emory Clinical Cardiovascular Research
Institute
Division of Cardiology, Department of Medicine
Emory University School of Medicine
Atlanta, Georgia, USA

Inna Rabinovich-Nikitin, PhD

Assistant Professor
Evelyn Wyrzykowski Family Professorship in
Cardiovascular Sciences
Institute of Cardiovascular Sciences
St. Boniface Hospital Albrechtsen Research Centre
University of Manitoba
Department of Physiology and Pathophysiology
Winnipeg, Manitoba, Canada

J. Carter Ralphe, MD

Professor of Medicine
Chief, Division of Cardiology
Co-Director, Congenital Heart Program at UW Health Kids
Department of Pediatrics
University of Wisconsin School of Medicine
Madison, Wisconsin, USA

Ravichandran Ramasamy, PhD

Professor, Department of Medicine
Professor, Department of Biochemistry and Molecular
Pharmacology
NYU Grossman School of Medicine
New York, New York, USA

Andrea M. Russo, MD, FACC, FHRS, FAHA

Professor of Medicine
Cooper Medical School of Rowan University
Academic Chief, Division of Cardiology
Director, Cardiac Electrophysiology and Arrhythmia
Services
Director, CCEP Fellowship
Cooper University Hospital
Director of Research, Cooper Heart Institute
Camden, NJ, USA

Sakthivel Sadayappan, PhD, MBA, FAHA

Professor and Head
Department of Cellular & Molecular Medicine
Czarina M. & Humberto S. Lopez Endowed Chair
Associate Director, Sarver Heart Center

University of Arizona College of Medicine-Tucson
Tucson, Arizona, USA

Daisy Sahoo, PhD, FAHA

Dean, School of Graduate Studies
Women in Science Endowed Professor
Department of Medicine
Medical College of Wisconsin
Milwaukee, Wisconsin, USA

Srikanth Seethala, MD

Advanced Heart Failure and Transplant Cardiology
Saint Alphonsus Heart Institute
Boise, Idaho, USA

Jonathan Silva, PhD, FAHA, SMNAI

Professor of Biomedical Engineering and
Computer Science and Engineering
McKelvey School of Engineering
Washington University
St Louis, Missouri, USA

Jennifer N. Avari Silva, MD, FHRS

James G. Berges and Elizabeth Mannen Berges
Professorship in Pediatric Cardiology
Director, Pediatric Electrophysiology
Professor, Pediatrics and Biomedical Engineering
Faculty Fellow in Entrepreneurship
Washington University SOM
Saint Louis, Missouri, USA

Dinender K Singla, PhD, FAHA, FIACS

Professor and Head, Division of Metabolic and
Cardiovascular Sciences
Endowed Chair-Advent Health
President, International Society for Adaptive Medicine
Associate Editor, Canadian Journal of Physiology and
Pharmacology
Burnett School of Biomedical Sciences
College of Medicine
University of Central Florida
Orlando, Florida, USA

Ranko Škrbić, MD, MSc, PhD, FIACS

Dean
Professor of Pharmacology and Clinical Pharmacology
Department of Pharmacology, Toxicology and Clinical
Pharmacology
Center for Biomedical Research
Faculty of Medicine
University of Banja Luka
The Republic of Srpska, Bosnia & Herzegovina

PROGRAM FACULTY

Carmen Sucharov, PhD, FAHA

Professor
Director, Pediatric Cardiovascular Research Laboratories
Division of Cardiology, Department of Medicine
University of Colorado Anschutz Medical Campus
Denver, Colorado, USA

Paul C. Tang, MD, PhD

Associate Professor and Vice Chair
Division of Thoracic and Cardiovascular Surgery
Department of Surgery
Mayo Clinic
Rochester, Minnesota, USA

Finosh G Thankam, PhD

Assistant Professor
Tissue Engineering and Regenerative Medicine
Department of Translational Research
Western University of Health Sciences
Council Member and Assistant Treasurer
International Academy of Cardiovascular Sciences, North
American Section
Pomona, California, USA

Srinivas M. Tipparaju, PhD

Professor and Chair
William Saunders Endowed Chair in Geriatric
Pharmacotherapy
Interim Associate Dean for Faculty Affairs
Department of Pharmaceutical Sciences
USF Health Taneja College of Pharmacy
Tampa, Florida, USA

Vasiliki Tasouli Drakou, DO

Internal Medicine Resident, PGY2
Department of Internal Medicine
Kirk Kerkorian School of Medicine
University of Nevada, Las Vegas
Las Vegas, Nevada, USA

Belma Turan, PhD

Professor
Head of Department of Biophysics – Basic Medical
Sciences
Lokman Hekim University
Ankara, Turkey

Suresh C. Tyagi, MPhil, PhD, DSc, FAHA, FAPS, FIACS

Endowed Chair Professor
Department of Physiology
University of Louisville
Louisville, Kentucky, USA

Jop van Berlo, MD, PhD

Associate Professor of Medicine

Director of Graduate Studies
Cardiovascular Division, Department of Medicine
University of Minnesota School of Medicine
Minneapolis, Minnesota, USA

Andras Varro, MD, PhD, DSc

Professor
SZTE-HUN REN
Department of Pharmacology
Faculty of Medicine, University of Szeged
Szeged, Hungary

Thomas Vondriska, PhD

Professor of Anesthesiology, Medicine, Physiology
UCLA David Geffen School of Medicine
Los Angeles, California, USA

Yajing Wang, MD, PhD

Professor
Director of Basic and Translational Research
Department of Biomedical Engineering
University of Alabama at Birmingham, Heersink School of
Medicine
Birmingham, Alabama, USA

Loren E. Wold, PhD, FAHA, FAPS

Senior Associate Vice President for Research
The Enterprise for Research, Innovation and Knowledge
(ERIK)
The John G. and Jeanne Bonnet McCoy Chair in
Cardiovascular Medicine
Professor, Department of Surgery (Cardiac)
Editor-in-Chief, *The FASEB Journal* and *FASEB
BioAdvances*
The Ohio State University College of Medicine
Columbus, Ohio, USA

Renee Wong, PhD

Chief, Heart Failure and Arrhythmias Branch
National Heart, Lung, and Blood Institute
National Institutes of Health
Bethesda, Maryland, USA

Harlokesh Narayan Yadav, PhD, MAMS, FIACS, FPAS

Additional Professor, Pharmacology
All India Institute of Medical Sciences
President, Society of Pharmaceutical
Education & Research (SPER) Delhi
Chairman, Pharm. Federation (Scientific Wing)
Vice President, International Academy of Cardiovascular
Sciences (India)
Member, National Academy of Sciences INDIA (NASI)
Member, National Academy of Medical
Sciences INDIA (NAMS)
Ansari Nagar, New Delhi, India

PROGRAM FACULTY

Young-sup Yoon, MD, PhD

Director of Stem Cell Biology
Bruce R. Logue Professor
Professor of Medicine and Biomedical Engineering
Division of Cardiology
Department of Medicine
Emory University School of Medicine
Allanta, Georgia, USA

Jianyi (Jay) Zhang, MD, PhD

Chair, Department of Biomedical Engineering
T. Michael and Gillian Goodrich Endowed Chair of
Engineering Leadership
Professor of Medicine, Professor of Engineering
School of Medicine, School of Engineering
The University of Alabama at Birmingham
Birmingham, AB, USA

Shengjie (Patrick) Zhai, PhD

Assistant Professor
Department of Biomedical and Computer Engineering
University of Nevada, Las Vegas
Las Vegas, Nevada, USA

Ewa Zuba-Surma, PhD, DSc

Professor in Medical Sciences
Department of Cell Biology
Faculty of Biochemistry, Biophysics and Biotechnology
Jagiellonian University
Krakow, Poland

Finalists for the Roberto Bolli Young Investigator Award:**Resmi Rajalekshmi, PhD**

Postdoctoral Fellow
Department of Translational Research
Western University of Health Sciences

Abhay Srivastava, PhD

Postdoctoral Fellow
Institute of Cardiovascular Sciences
University of Manitoba, Canada

Gautham Yepuri, PhD

Research Scientist
NYU Langone School of Medicine

Weiyue Wang, MD

Postdoctoral Fellow
Department of Cardiovascular Genetics
The University of Texas Health Science Center at
Houston (UTHealth Houston)

Abou Bakr Salama, MBBCh

Postdoctoral Research Associate
Baylor College of Medicine

Finalists for the Buddhadeb Dawn Young Investigator Award:**Vineet Agrawal, MD, PhD**

Assistant Professor of Medicine
Director of Invasive CPET Program
Vanderbilt University Medical Center

Sangeetha Vadakke-Madathil, PhD

Assistant Professor
Department of Medicine
Icahn School of Medicine at Mount Sinai

Chandra Bhattacharya, PhD

Assistant Professor, Medicinal Chemistry
Department of Chemistry and Biochemistry
University of Nevada, Las Vegas
Las Vegas, Nevada, USA

Suet Chen, PhD

Assistant Professor
Division of Cardiology, School of Medicine
University of Colorado-Denver Anschutz Medical
Campus

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Or Email: iacsVegas@medicine.unlv.edu

POSTERS

IACS-NAS-25-076: Abou Bakr M. Salama, Kamal Abou Farraj, Marc Dwenger, Ghazal Sadri, Yazan Almasry, Pretty Rose Mathew, Maryam Al Attas, Dania Ibrahim, Stuti Mehta, Morgan Toran, Michelle Huo, Hannah Zhou, Anoushka Krishnan, Ruchira G. Sivakumar, Abdul Rahman Alkhatib, Luqman Siddique, Stephanie Joseph, Tamer M. A. Mohamed, Riham R. E. Abouleisa. *Csrp3 Regulates mitotic Cardiomyocyte Cell Cycle entry through regulating YAP and p38 MAPK*

IACS-NAS-25-077: Andras Varro, Albert Szent- Györgyi. *The Cellular Cardiac Electrophysiological Effect of Long-Term Amiodarone Treatment in Heart Failure Patients*

IACS-NAS-25-078: Angelie Pathak, Hina Patel, Resmi Rajalekshmi, Devendra K. Agrawal. *Stress Granule Dysregulation Drives NLRP3 Activation in Carotid Artery Inflammation Under Metabolic Stress*

IACS-NAS-25-079: Asma Awan, Manoj Sharma. *Effects of Structured Yoga Practices in Improving Cardiovascular Health Outcomes: A Scoping Review*

IACS-NAS-25-080: Belma Turan. *Systemic aging fuels cardiometabolic remodeling: Increased risk of insulin resistance and mitochondrial dysfunction in the aging heart*

IACS-NAS-25-081: Blessing Imade, Asma Awan, Manoj Sharma. *Mindfulness-Based Stress Reduction Compared to Standard Post-Operative Care in Improving Psychological and Physiological Outcomes for Cardiac Surgery Patients: A Narrative Review*

IACS-NAS-25-082: Bo Wang, Mengdie Wang, Xinyue Cui, Jialu Sun, Di Shen, Yajing Wang, Jianli Zhao, Ruifang Zhang, Li Zhang, Zhiyu Liu, Xuejing Duan, Li Li, Yu Liu, Jinying Zhang, Junnan Tang. *Pathogenic Characterization of a Novel G47R Transthyretin Mutation in Early-Onset Amyloid Cardiomyopathy*

IACS-NAS-25-083: Eleanor J. Mohler, Brandon M. Gibson, Mariana Gallego-Perez, Noah. O Citek, Sierra J. Saldana, Colin Doss, Matthew W. Gorr, Michael J. Falvo, Loren E. Wold. *Divergent Male and Female Offspring Cardiometabolic Responses to Parental PM2.5 Exposure*

IACS-NAS-25-084: Noah. O Citek, Brandon M. Gibson, Mariana Gallego-Perez, Eleanor J. Mohler, Sierra J. Saldana, Matthew W. Gorr, Michael J. Falvo, Loren E. Wold. *Sex-Dependent Timing of Intergenerational Cardiovascular Risk from Preconception PM2.5 Exposure*

IACS-NAS-25-085: Chisom Ovuegbe, Finosh G Thankam. *Immune-like Stem Cell Sub-Phenotypes from Epicardial Adipose Tissue as Determinants of Adverse Cardiac Repair Response.*

IACS-NAS-25-086: Christine Lee, Andras Bratincsak. *PR Interval Differences in Congenital and Rheumatic Heart Disease: A Retrospective ECG Analysis*

IACS-NAS-25-087: Colin A. Doss, Brandon M. Gibson, Mariana Gallego-Perez, Noah O. Citek, Emerson D. Woodbury, Ayra Abid, Loren E. Wold. *Cardiac Dysfunction in Female APP Mice Following in utero PM2.5 Exposure: A Potential Link Between Neurodegeneration and Cardiovascular Disease.*

IACS-NAS-25-088: Daniel Thomas Jones, Rishi Kumar Nanda, Zin Thandar Win, Abbas Ali Hussain, Riccesha Hattin, Ramaditya Srinivasmurthy, Jason Ta, Timothy Chu, Tin Tun, Hazem Aboaid, Yin Mon Myat, Kevin Khuong Nguyen, Azriel Macias, Kyaw Zin Thein, Khaing Khaing Htwe, Thura Win Htut. *Atrial Fibrillation Risk with Second-Generation Covalent and Non-Covalent Bruton's Tyrosine Kinase Inhibitors: A Meta-Analysis of Randomized Controlled Trials*

IACS-NAS-25-089: Dhrubo Ahmad, Yuhui Yang, Huilan Tan, Taslima Akter Shila, Wang Bo, Jianli Zhao, Yajing Wang. *Stimulation Protocol For A Wireless Battery-Free Continuous Cardiac EKG Monitoring And Stimulating Platform*

IACS-NAS-25-090: Dina Ali, Guangming Cheng, Magdy Girgis, Yanjuan Yang, Jeryl Hauptman, Buddhadeb Dawn. *Wnt11 Enhances Mesenchymal Stem Cell Survival Under Hypoxic and Oxidative Stress*

IACS-NAS-25-091: Edgmin Rostomian, Alexander Postajian, Finosh G. Thankam. *Ischemia-Induced Metabolites Drive Repair-Associated Genes in Cardiac Stromal Cells*

IACS-NAS-25-092: Gautham Yepuri, Kaamashri Mangar, Navneeth Narula, Stuart Katz, Alexander Shekhtman, Ann Marie Schmidt, Ravichandran Ramasamy. *DIAPH1 regulates stress induced senescence in Human cardiomyocytes*

IACS-NAS-25-093: Grant N. Pierce. *Nuclear protein import in cardiovascular cells: Lost in space?*

POSTERS

IACS-NAS-25-094: Guangming Cheng, Magdy Girgis, Yanjuan Yang, Jeryl Hauptman, Buddhadeb Dawn. *Cardiac-specific Transgenic Abrogation of NF- κ B Activation Attenuates Doxorubicin-induced Cardiomyopathy in Mice*

IACS-NAS-25-095: Guangming Cheng, Magdy Girgis, Yanjuan Yang, Jeryl Hauptman, Buddhadeb Dawn. *Ambient Temperature during Reperfusion Profoundly Impacts Myocardial Infarct Size in the C57BL/6j Mouse*

IACS-NAS-25-096: Hina Patel, Angelie Pathak, Resmi Rajalekshmi, Devendra K. Agrawal. *Galectin-3, Transforming Growth Factor Beta 1, and Brain Natriuretic Peptide in Cardiac Remodeling Under Hyperlipidemic and Hyperglycemic Stress*

IACS-NAS-25-097: Huong Nguyen, Erele Tzidon, Ruzzell Flores, Inna Rabinovich-Nikitin. *The cardiac pathophysiological outcomes of shift work during pregnancy*

IACS-NAS-25-098: Jasmine K. Dugal, Mohamad Mubder, Luay Alalawi, Matthew Chen, Heriberto Cantu, Hasnan Ijaz, Mustafa Almollah, Farah Al-Taweel, Thomas Alexander. *Leriche Without the Limps: Incidental Diagnosis in an Asymptomatic Patient*

IACS-NAS-25-099: Vasiliki Tasouli-Drakou, Jasmine Dugal, Arsalan Siddiqui, Divyansh Sharma, Ryan Shao, KaChon Lei, Chowdhury Ahsan. *Cardiac Curveball: Incidental Discovery of a Rare Massive Right Atrial Hemangioma*

IACS-NAS-25-100: Jasmine Dugal, Scott Turnbull, Arpinder Malhi, Randeep Gill, Shawn Wang, Hayden Leung, Ji Yoo, Mohamad Mubder. *Does the HEART Score Hold Up? Insights from a Southern Nevada ED*

IACS-NAS-25-101: Jasmine Dugal, Mohamad Mubder, Alexis Lopez Cruz, Heriberto Cantu, Thomas Alexander. *Dual Supply, Singular Catastrophe: Anterolateral Papillary Muscle Rupture Post-AM*

IACS-NAS-25-102: Jie Zhao, Karen I. Hannigan, and Elizabeth J. Akin. *Sympathetic-associated macrophage populations are altered in the superior cervical ganglia of hypertensive rats*

IACS-NAS-25-103: Joshua Khorsandi, Liahm Blank, Demetri Franzoni, Noama Iftekhar, Joshua MacDavid. *Deep Sternal Wound Infection After Cardiac Surgery: Omental Flap, Polymethylmethacrylate, and Neosternum Reconstruction*

IACS-NAS-25-104: Joshua Khorsandi, Alexander Rowan, Liahm Blank, Abu-Bakr Ahmed, Noama Iftekhar. *Rare Presentation of Cardiac Laceration and Delayed Postoperative Tamponade Cardiac Trauma*

IACS-NAS-25-105: Joshua Khorsandi, Liahm Blank, Abu-Bakr Ahmed, Michael Harouni, Steven Burstein. *Unmasking Acute Pericarditis in an Athletic Older Adult with Low Atherosclerotic Burden*

IACS-NAS-25-106: Luis Godoy, Adrian Lopez, Travis Stewart, Aditi Madan, Neilanshu Khemka, Josh Baker, Anthony Cammarato, and Bradley Ferguson. *Act88F pseudo-acetylation of lysine 50 (K50) negatively regulates skeletal muscle function in Drosophila melanogaster*

IACS-NAS-25-107: Xiaohua Zhang and Martin Morad. *Calcium Signaling Consequences of RyR2 domain-specific or Ca²⁺ and caffeine binding sites CPVT1 mutations expressed in human cardiomyocytes*

IACS-NAS-25-108: Mahsa Pashaeimeykola, Asma Awan, Manoj Sharma. *The Role of Sleep Hygiene in Cardiovascular Health: A Narrative Review*

IACS-NAS-25-109: Mariana Gallego-Perez, Sierra J. Saldana, Brandon M. Gibson, Noah O. Citek, Roy A. Miller, Matthew W. Gorr, Loren E. Wold. *Acute Environmental PM_{2.5} Exposure as a Driver of Cardiovascular Dysfunction*

IACS-NAS-25-110: Marija Stojanovic and Devendra K. Agrawal. *Expression of Oxysterols-Responsive Genes in the Carotid Arteries of Hyperglycemic and Hyperlipidemic Swine*

IACS-NAS-25-111: Marika S DeFerrari, Karen I Hannigan, Ahtziri Valle Diaz, and Elizabeth J Akin. *Investigating altered neuro-cardiac crosstalk using the spontaneously hypertensive rat model*

IACS-NAS-25-112: Niayesh Najafi, Andrew Abou Jaoude, Finosh G. Thankam. *Methacrylated biopolymer-based hydrogels as template for cardiac regeneration*

IACS-NAS-25-113: Noyan Ramazani, Sahar Mahani, Ryan Shao, Marriyam Moten. *Heart of Stone: Extensive Cardiac Heterotopic Ossification in a Pre-Transcatheter Aortic Valve Replacement Patient*

POSTERS

IACS-NAS-25-114: Noyan Ramazani, Alice Lee, Paul O. Duru. *Poisonous Octopus: Sepsis Induced Takotsubo Cardiomyopathy Complicated by Autonomic Dysreflexia in a Quadriplegic Patient*

IACS-NAS-25-115: Peter G. Kaufmann, Brenna N. Renn, and Buddhadeb Dawn. *When IRB Decisions Derail Randomized Trials: Lessons from LookAHEAD.*

IACS-NAS-25-116: Resmi Rajalekshmi and Devendra K. Agrawal. *Stress Granule-Driven Regenerative Signaling in Myocardial Infarction and Metabolic Comorbidities*

IACS-NAS-25-117: Rishi Kumar Nanda, Daniel Thomas Jones, Zin Thandar Win, Abbas Ali Hussain, Riccesha Hattin, Ramaditya Srinivasmurthy, Jason Ta, Timothy Chu, Tin Tun, Hazem Aboaid, Yin Mon Myat, Kevin Khuong Nguyen, Azriel Macias, Kyaw Zin Thein, Khaing Khaing Htwe, Thura Win Htut. *Bleeding Risk with Next-Generation BTK Inhibitors: A Meta-Analysis of Randomized Controlled Trials*

IACS-NAS-25-118: Sei Kim, Nathan Grainger. *Vascular pericyte regulation of coronary blood flow in the cardiac pacemaker during sympathetic stimulation*

IACS-NAS-25-120: Chang Wang, Ming Zhu, Shengjie (Patrick) Zhai, Buddhadeb Dawn. *Clinically Interpretable Deep Learning for Non-Invasive, High-Fidelity Fetal ECG Extraction and Early Congenital Heart Disease Screening*

IACS-NAS-25-121: Somaya Ibrahim, Ryan Holdiness, Alyssa Whisler, Kristen Boyle, Rushita Bagchi. *Early Inter-Organ Communication in Acute Nutrient Overload: Sex-Specific Adipose Adaptations Influence Hepatic and Cardiac Outcomes*

IACS-NAS-25-122: Spencer Thatcher, Arbab Khalid, Abu-Bakr Ahmed, Randeep Gill, Ali Kia. *PDE9A Promotes Calcium Handling Dysfunction in Right Heart Failure via cGMP-PKG Pathway Suppression: A Mechanistic and Therapeutic Review*

IACS-NAS-25-123: Srushti Wagh, Ariana Khzarjyan, Joshua Corpuz, Elias Malek, Charli Aguilar, Michael Dial, Paula Martinez, Graham McGinnis. *Interleukin-6 as a Mediator of Circadian and Sex Differences in Exercise-Induced STAT3 and Autophagy Signaling*

IACS-NAS-25-124: Tamara Nikolic Turnic, Katarina Djordjevic, Bozidar Pindovic, Zorka Stanic, Katarina Postolovic, Vladimir Zivkovic, Vladimir Jakovljevic. *Curcumin pretreatment and post-treatment both improve the antioxidative ability of Wistar rats immunized with complete Freund's adjuvant*

IACS-NAS-25-125: Vedi Hatamian, Kevin Babakhan-Vartanian, Finosh G. Thankam. *LGALS1-positive Epicardial Adipose Tissue Stromal Cells in Cardiac Regeneration*

IACS-NAS-25-126: Vikash Patel, Sidath Kapukotuwa, Manoj Sharma. *Tai Chi as a Mind-Body Approach to Cardiovascular Health: A Contemporary Evidence Synthesis*

IACS-NAS-25-127: Yssel Mendoza-Mari, Brian David, and Devendra K. Agrawal. *Interleukin-13 Receptor A2 in the Left Ventricle of Hyperglycemic Pigs: Potential Role in Cardiomyopathies*

IACS-NAS-25-128: Zin Thandar Win, Abbas Ali Hussain, Riccesha Hattin, Daniel Thomas Jones, Rishi Kumar Nanda, Ramaditya Srinivasmurthy, Jason Ta, Timothy Chu, Tin Tun, Hazem Aboaid, Yin Mon Myat, Kevin Khuong Nguyen, Azriel Macias, Kyaw Zin Thein, Khaing Khaing Htwe, Thura Win Htut. *Meta-Analysis of Phase III Randomized Controlled Trials Evaluating the Risk of Cardiac Adverse Events in Patients with Hematologic Malignancies Treated with Acalabrutinib Compared to Control, including BTK Inhibitor (Ibrutinib)*

IACS-NAS-25-129: Zin Thandar Win, Abbas Ali Hussain, Daniel Thomas Jones, Riccesha Hattin, Rishi Kumar Nanda, Ramaditya Srinivasmurthy, Matthew J. Chu, Jason Ta, Tin Tun, Hazem Aboaid, Kevin Khuong Nguyen, Yin Mon Myat, Azriel Marcias, Kyaw Zin Thein, Khaing Khaing Htwe, Thura Win Htut. *Meta-Analysis of Phase III Randomized Controlled Trials to Evaluate the Risk of Cardiac Adverse Events in Patients with Hematologic Malignancies Treated with Acalabrutinib*