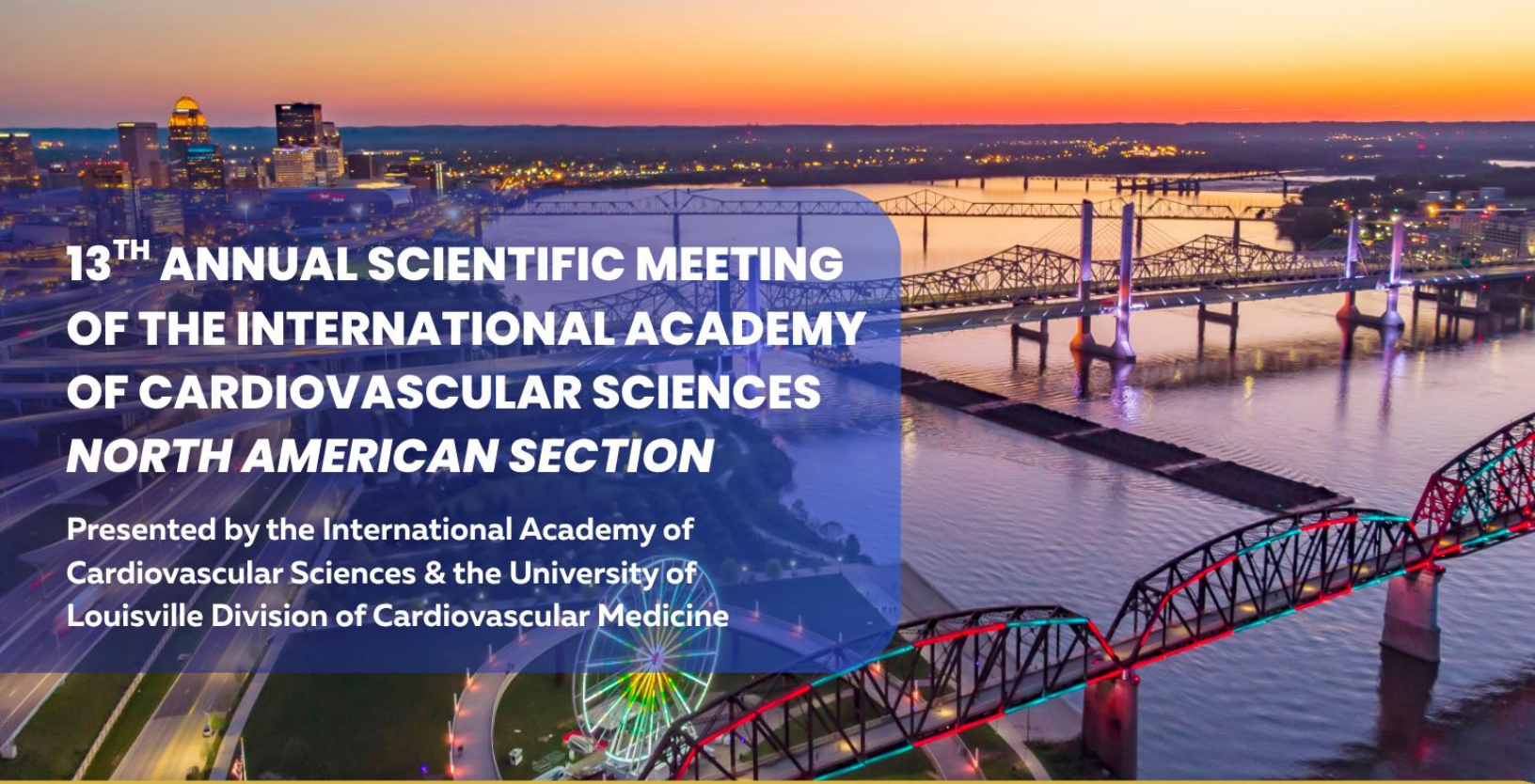




13TH ANNUAL SCIENTIFIC MEETING OF THE INTERNATIONAL ACADEMY OF CARDIOVASCULAR SCIENCES NORTH AMERICAN SECTION

Presented by the International Academy of
Cardiovascular Sciences & the University of
Louisville Division of Cardiovascular Medicine

September 10-12, 2026
LOUISVILLE, KENTUCKY

Conference Chair:

Roberto Bolli, M.D., D.Sc. (Hon), Dr. h. c.

*Professor of Medicine and Physiology
Director, Institute of Molecular Cardiology
Distinguished University Scholar
Legacy Foundation of Kentuckiana
Distinguished Chair in Cardiology
University of Louisville Medical Center*

Conference Co-Chair:

**Dinesh Kalra, M.D., M.B.A., FACC, FAHA,
FSCCT, FSCMR**

*Professor of Medicine
Chief, Division of Cardiovascular Medicine
Endowed Chair, Cardiovascular Innovations
Director of Advanced Cardiac Imaging, Lipid Clinic &
Infiltrative Heart Disease Program
University of Louisville Medical Center*



The Galt House Hotel



**INTERNATIONAL ACADEMY OF
CARDIOVASCULAR SCIENCES
NORTH AMERICAN SECTION**



**UNIVERSITY OF
LOUISVILLE**
SCHOOL OF MEDICINE



16.0 AMA PRA Category 1 Credit(s)[™]



Health Sciences Center
Office of Professional & Educational Development



**19.2 Nursing CE Credits
Available**

WELCOME MESSAGE

Welcome,

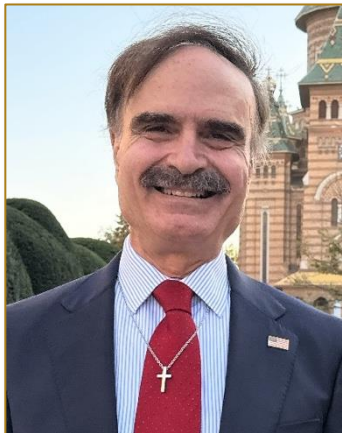
On behalf of the International Academy of Cardiovascular Sciences-North American Section (IACS – NAS), the Institute of Molecular Cardiology (IMC), and the University of Louisville Division of Cardiovascular Medicine, it is a great pleasure to welcome you to this meeting, a premier gathering of cardiovascular scientists, clinicians, trainees, and students. This will be the 13th annual meeting of the IACS-NAS and will take place at the Galt House in Louisville, Kentucky, on September 10–12, 2026. We are thrilled to host this event in a wonderful setting that will foster innovation, collaboration, education, collegiality, and the exchange of groundbreaking ideas.

The International Academy of Cardiovascular Sciences has a long tradition of promoting excellence in cardiovascular research, education, and collaboration. Over the years, and across the world, IACS meetings have been marked by exquisite collegiality and unique warmth, serving as a vital platform to advance understanding of cardiovascular health and disease, while also supporting the next generation of scientists and clinicians through mentorship, networking, awards, and career development opportunities.

This conference in Louisville will continue these traditions by offering a warm, collegial atmosphere and a dynamic program that highlights the latest advances in cardiovascular science and medicine. From Plenary Lectures by world-renowned experts to poster presentations and award competitions, the meeting will cover a wide range of topics in science and medicine, including heart failure, inflammation, metabolism, epigenetics, and cardiac repair and regeneration, to name a few. This conference will mark the launch of the new Roberto Bolli, M.D., Distinguished Young Scientist Award, which advances the core mission of IACS-NAS to promote and support early career scientists. In addition to featuring an impressive cadre of leaders in cardiovascular science, we have also strived to provide a forum that brings together experts and trainees to discuss the latest and most topical issue in cardiovascular medicine.

This conference reflects the commitment of IACS-NAS to supporting young talent and to exploring innovative approaches to the prevention, treatment, and management of cardiovascular diseases. We are particularly excited to provide a platform for investigators and physicians to showcase their work, engage in scientific discussions, and build connections that will shape the future of cardiovascular science and medicine.

We look forward to welcoming you to this exciting event! Together, let's make this year's IACS – NAS/IMC/UofL Conference an unforgettable experience!



**Roberto Bolli, M.D.,
D.Sc. (Hon), Dr. h. c.**
Conference Chair



**Dinesh Kalra, M.D., M.B.A.,
FACC, FAHA, FSCCT, FSCMR**
Conference Co-Chair

PROGRAM AGENDA



Health Sciences Center
Office of Professional & Educational Development



Joint Provider Accreditation & Credit

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of the University of Louisville School of Medicine and International Academy of Cardiovascular Sciences. The University of Louisville School of Medicine is accredited by the ACCME to provide continuing medical education for physicians.

Physician Credit Designation

The University of Louisville School of Medicine designates this live activity for a maximum of **16.0 AMA PRA Category 1 Credit(s)[™]**. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Nursing Continuing Education

This program has been approved by the Kentucky Board of Nursing for **19.2 continuing education credits** through University of Louisville Hospital, provider number **4-0068-12-26-1479**. The Kentucky Board of Nursing approval of an individual nursing education provider does not constitute endorsement of program content.

Completion criteria to obtain CE credits: Attend the entire session and complete the evaluation.

PROGRAM AGENDA

ORGANIZERS

Conference Chair

Roberto Bolli, MD, DSc. (Hon), Dr. h. c

Conference Co-Chair

Dinesh Kalra, MD, MBA

VENUE & ACCOMMODATIONS

The Galt House

140 N Fourth Street

Louisville, KY 40202

If you have any questions or concerns regarding hotel reservations, please contact:

Lexie Bobzien

[\(502\) 566-3214](tel:5025663214)

lbobzien@ajshotels.com

REGISTRATION DESK HOURS

DATE	HOURS
THURSDAY September 10	12:00 PM – 6:00 PM
FRIDAY September 11	7:00 AM – 5:00 PM
SATURDAY September 12	7:00 AM – 4:00 PM

POSTER SESSION DETAILS

Friday, September 11

Setup

Begins at 8:00 AM

Judging

4:40 PM - 6:00 PM

Please remove all posters by Saturday, September 12 by 4:00 PM.

SOCIAL MEDIA

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#IACSNAS2026

PROGRAM AGENDA

SCIENTIFIC ADVISORY COMMITTEE

(In Alphabetical Order)

Devendra K. Agrawal, PhD

Roberto Bolli, MD

Naranjan S. Dhalla, PhD

Dinesh Kalra, MD

Aisha Khan, PhD

Ali J. Marian, MD

Shengnan Zheng, MD

ORGANIZING COMMITTEE

(In Alphabetical Order)

Devendra K. Agrawal, PhD

Roberto Bolli, MD

Natalie Hernandez

Dinesh Kalra, MD

Erin Kelley

Ali J. Marian, MD

Mary Beth Oliver

Swopnil Sthapit-Gaines

Jason Tucker

PROGRAM AGENDA

AGENDA – Day 1: Thursday, September 10, 2026

12:00 – 6:00 pm **Registration**

2:45 – 3:30 pm **Welcome Remarks**

Roberto Bolli, MD, DSc (Hon.), Dr. h. c., Conference Chair

Dinesh Kalra, MD, MBA, Conference Co-Chair

*Jeffrey Bumpous, MD, Dean and Executive Vice President for Health Affairs,
University of Louisville*

*Jon Klein, MD, PhD, Executive Vice President for Research and Innovation,
University of Louisville*

President's Address

Buddhadeb Dawn, MD

3:30 – 6:30 pm **State-of-the-Art Lectures**

Moderators: *Roberto Bolli, MD, DSc. (Hon), Dr. h. C., Dinesh Kalra, MD, MBA*

3:30 – 4:00 pm **The Long And Winding Road Of Hypertrophic Cardiomyopathy;
A Tribute To Dr. Eugene Braunwald (1929-2026)**

Ali J. Marian, MD

4:00 – 4:30 pm **Clonal Hematopoiesis and Cardiovascular Disease**

Alan Tall, MD

4:30 – 5:00 pm **Precision Hypertension - Molecular mechanisms to targeted therapies**

Rhian Touyz BSc. (Hons), MSc. (Med), MBBCh, PhD

5:00 – 5:10 pm **Session Break**

5:10 – 5:40 pm **FoxM1 promotes cardiomyocyte regeneration in mammalian hearts with
post-infarction LV remodeling**

Jay Zhang, PhD

5:40 – 6:10 pm **HFpEF: Where metabolism, inflammation, and fibrosis converge in the
context of obesity**

Philipp E. Scherer, PhD

IACS Medal of Merit Lecture

6:10 – 6:15 pm **Introduction of the Speaker**

Naranjan Dhalla, PhD, Honorary Life President, IACS

6:15 – 6:45 pm **PCSK9: How Evolution Created a Friend—and Left Us with a Foe?**

Jagat Narula, MD, PhD

7:00 pm **Welcome Dinner: Grand Ballroom A**

PROGRAM AGENDA

AGENDA – DAY 2: FRIDAY, SEPTEMBER 11, 2026

7:00 – 8:00 am **Registration & Breakfast**

Session 1: COMBS CHANDLER **THE TRUE CARDIOMETABOLIC SCIENCE**

Moderators: *Martin Young, PhD; Junichi Sadoshima, MD, PhD*

- 8:00 – 8:20 am** **Metabolic Mechanisms in Heart Failure - Beyond ATP**
Dale Abel, MD, PhD
- 8:20 – 8:40 am** **Metabolic regulation in the obesity heart**
Junichi Sadoshima, MD, PhD
- 8:40 – 9:00 am** **Mechanism-based therapies for cardiometabolic diseases**
Yibin Wang, PhD
- 9:00 – 9:20 am** **Durable myeloid reprogramming in human cardiometabolic disease**
Matthew Feinstein, MD
- 9:20 – 9:40 am** **Circadian Control of the Heart in Health and Disease**
Martin Young, PhD
- 9:40 – 10:00 am** **Circadian Regulation of Metabolic Signaling Pathways in the Heart**
Lorrie Kirshenbaum, OM, PhD

Session 2: GRAND BALLROOM B **DIABETES AND THE HEART**

Moderators: *Patrick C. Hsieh, MD, PhD; Bradley Ferguson, PhD*

- 8:00 – 8:20 am** **When Diabetes Hits the Heart: GRK5 as the Hidden Saboteur**
Yajing Wang, PhD
- 8:20 – 8:40 am** **Diaphanous 1-driven pathogenic mechanisms in ischemic and diabetic hearts**
Ravichandran (Ravi) Ramasamy, PhD
- 8:40 – 9:00 am** **GLUT1: Inflection point of diabetic cardiomyopathy**
Konstantinos Drosatos, MSc, PhD
- 9:00 – 9:20 am** **Sweetheart - How the Cardiomyocyte Senses Nutrients**
Jonathan Kirk, PhD
- 9:20 – 9:40 am** **Targeting T-tubule Microdomains For Heart Failure Therapy Development**
TingTing Hong, MD, PhD
- 9:40 – 10:00 am** **Interaction between Monoamine Oxidase and the Novel Antidiabetic Drugs in Cardio-metabolic Diseases**
Danina Muntean, MD, PhD

PROGRAM AGENDA

AGENDA – Day 2: Friday, September 11, 2026

Session 3: GRAND BALLROOM C

GENE AND CELL-BASED THERAPIES I

Moderators: *Jay Zhang, PhD; Roger J. Hajjar, MD*

- 8:00 – 8:20 am** **Allogeneic MSC Therapy in Diabetic Patients with Ischemic Heart Disease: the ACESO-IHD trial**
Joshua M. Hare, MD
- 8:20 – 8:40 am** **Cell therapy for Heart Failure**
Roberto Bolli, MD
- 8:40 – 9:20 am** **STATE-OF-THE-ART LECTURE**
Advances in Cardiac Gene Therapy
Roger J. Hajjar, MD
- 9:20 – 9:40 am** **Options for the Non-option Patient: Novel Therapies for Refractory Angina or Coronary Microvascular Dysfunction**
Odayme Quesada, MD
- 9:40 – 10:00 am** **Therapeutic Potential of Mesenchymal Stem Cell-Derived Extracellular Vesicles in Ischemic Tissue Repair**
Ewa Zuba-Surma, PhD
- 10:00 – 10:20 am** **Coffee Break**

Session 4: GRAND BALLROOM B

BUDDHADEB DAWN GRADUATE STUDENT AWARD COMPETITION

Moderators: *Istvan Baczko, MD, PhD; Lorrie Kirshenbaum, OM, PhD*

Judges: *Rajasekaran Namakkal-Soorappan, PhD; Praveen K. Dubey, PhD;*

Priyatansh Gurha, PhD; Nevena Jeremic, PhD; Henrique Furtado, MD, PhD; Finosh G. Thankam, PhD

- 10:20 – 10:40 am** **GSK-3 α Deficiency Activates NLRP3 Inflammasome Signaling and Spontaneous Cardiac Remodeling**
Arvind Singh Bhati
- 10:40 – 11:00 am** **Integrating Mechanical Signals and Chromatin Architecture: The Role of Histone H1.0 in Cardiac Fibrosis**
Sean Bridges
- 11:00 – 11:20 am** **Myocardial Depletion of Histidyl Dipeptides Enhances the Accumulation of Pathogenic CD4⁺ T cells in Failing Hearts**
Benjamin Doelling
- 11:20 – 11:40 am** **MyoAAV-mediated Delivery of Cardiac Bridging Integrator 1 (cBIN1) Enhances Cardiac Transgene Expression for Heart Failure Rescue**
Patience Ofosuah
- 11:40 – 12:00 pm** **Beyond Glycemic Control: Dual GIP/GLP-1 Receptor Agonist Tirzepatide Attenuates TMAO-Induced Endothelial Dysfunction by Inhibiting NLRP3 Activation and Oxidative Stress.**
Sindhura Pasham

PROGRAM AGENDA

AGENDA – Day 2: Friday, September 11, 2026

Session 5: GRAND BALLROOM C

MECHANISMS OF MYOCARDIAL INJURY/FAILURE

Moderators: Nikolaos Frangogiannis, MD; Richard N. Kitsis, MD

10:20 – 11:00 am *STATE-OF-THE-ART LECTURE*

Unifying Cell Death Programs in Myocardial Infarction

Richard N. Kitsis, MD

11:00 – 11:20 am **ATG9A in Cardiac Mitochondrial Homeostasis and Quality Control**

Asa Gustafsson, PhD

11:20 – 11:40 am **Neutrophil STING in ischemic cardiac injury**

Rebecca Levit, MD

11:40 – 12:00 pm **When the Young Heart Fails: Age-Dependent Mechanisms in Pediatric Heart Failure**

Kika Sucharov, PhD

12:00 – 12:20 pm **T cell immune responses in chemotherapy cardiotoxicity**

Pilar Alcaide, PhD

Session 6: COMBS CHANDLER

CARDIOMYOPATHIES/HEART FAILURE

Moderators: Ali J. Marian, MD; Vineet Agrawal, MD, PhD

10:20 – 10:40 am **Novel Targets and Approaches for Dystrophic Cardiomyopathy**

Da-Zhi Wang, PhD

10:40 – 11:00 am **Molecular Mechanisms of Hypertrophic Cardiomyopathy**

Sakthivel Sadayappan, PhD

11:00 – 11:20 am **Nampt Activators for the Treatment of Heart Failure**

Srinivas Tipparaju, PhD

11:20 – 12:00 pm *KEYNOTE LECTURE*

Myocardial Recovery: Bedside to Bench and Back

Stavros G. Drakos, MD, PhD

12:00 – 12:20 pm **Cardiac Myocytes Aging Transcriptome**

Leila Rouhi, MD, PhD

12:20 – 2:00 pm **Lunch**

PROGRAM AGENDA

AGENDA – Day 2: Friday, September 11, 2026

SATELLITE SESSION:

Moderators: Ali J. Marian, MD; Devendra K. Agrawal, PhD, MBA

12:40 – 2:00 pm **Funding opportunities at the NIH: Mechanisms, Applications, and FAQs**
Renee Wong, PhD, National Institutes of Health

Session 7: COMBS CHANDLER

ROBERTO BOLLI, MD DISTINGUISHED YOUNG SCIENTIST AWARD COMPETITION

(2.5 HOURS CONTINUOUS TILL 4:30 PM – NO COFFEE BREAK)

Chair: Ali J. Marian, MD

Judges: Devendra K. Agrawal, PhD (Biochem), PhD (Med Sciences), MBA; Nikolaos Frangogiannis, MD; Daniel Garry, MD, PhD; Asa Gustafsson, PhD; Lorrie Kirshenbaum, OM, PhD; Maria Kontaridis, PhD; Junichi Sadoshima, MD, PhD; Philipp E. Scherer, PhD; Alan Tall, MD; Rhian Touyz, BSc. (Hons), MSc. (Med), MBBCh, PhD; Yibin Wang, PhD

Presentations in alphabetical order

2:00 – 2:30 pm **Mahmoud Abdellatif, MD, PhD**
Targeting The Biology Of Aging To Treat Cardiovascular Disease

2:30 – 3:00 pm **Sean Joseph Jurgens, MD, PhD**
Leveraging Shared Genetic Mechanisms Across Cardiovascular Disorders For Improved Gene Discovery And Risk Prediction

3:00 – 3:30 pm **Siddharth Patel, MD, MPH**
Factor XI Inhibition in Atrial Fibrillation: The Promise of a Safer Anticoagulant

3:30 – 4:00 pm **Eric Wei, MD, PhD**
Deep Learning Volumetric Imaging Reveals Genotype-Specific Microarchitectural Remodeling in Hypertrophic Cardiomyopathy

4:00 – 4:30 pm **Yu-Sheng Yeh, PhD, RD**
Discovery of the Adipocyte Autophagy-Lysosome as a Nexus for Lipid Mobilization and Cardiometabolic Health

Session 8: GRAND BALLROOM B

CARDIAC ELECTROPHYSIOLOGY (HALF SESSION)

Moderators: Xander Wehrens, MD, PhD; István Baczko, MD, PhD

2:00 – 2:20 pm **Sodium Channel Isoform Regulation in the Heart**
Barry London, MD, PhD

2:20 – 2:40 pm **Fibrosis reversal in atrial fibrillation by targeting the miR-31/calcitonin receptor axis**
Xander Wehrens, MD, PhD

PROGRAM AGENDA

AGENDA – Day 2: Friday, September 11, 2026

- 2:40 – 3:00 pm** **Proarrhythmic remodeling of pulmonary vein sleeve myocytes in a large animal model of endurance exercise**
István Baczkó, MD, PhD

Session 9: GRAND BALLROOM C

NEW CONCEPTS IN CARDIOVASCULAR MEDICINE I

Moderators: *Leila Rouhi, MD, PhD; Brian Weil, PhD*

- 2:00 – 2:20 pm** **Pulmonary hypertension and its potentially metallomic risks**
Lu Cai, MD, PhD
- 2:20 – 2:40 pm** **2D Nanomaterials for Cardiac Regenerative Medicine**
Sanjiv Dhingra, PhD
- 2:40 – 3:00 pm** **Time course of early and delayed myocardial protection induced by vagal nerve stimulation preconditioning**
Ricardo J. Gelpi, MD, PhD
- 3:00 – 3:20 pm** **Coffee Break**

Session 10: GRAND BALLROOM B

NEW CONCEPTS IN CARDIOVASCULAR MEDICINE II

Moderators: *Barry London, MD, PhD; TingTing Hong, MD, PhD*

- 3:20 – 3:40 pm** **The Ultrarapid Delayed Rectifier Potassium Current has Important Role in the Repolarization in the Canine and Human Ventricular Muscle**
András Varró, MD, PhD
- 3:40 – 4:00 pm** **Protein Quality Control in the Mitochondrial Matrix: A Neglected Axis of Cardiac Resilience**
Venkatesh Sundararajan, PhD
- 4:00 – 4:20 pm** **Spatial Multiomics in Atherosclerotic Plaque Stability**
Gregory A. Payne, MD, PhD

4:30 – 6:00 pm

Poster Session:

Morris Karmazyn Poster Award (4)

Margaret Moffat Poster Award (4)

Judges: *Rajasekaran Namakkal-Soorappan, PhD; Praveen K. Dubey, PhD; Venkatesh Sundararajan, PhD; Sanjiv Dhingra, PhD; Mohamed M. Radwan, MD; Finosh G. Thankam, PhD; Suresh C. Tyagi, PhD; Ewa Zuba-Surma, PhD*

6:30 pm **Evening is free for social time with colleagues**

PROGRAM AGENDA

AGENDA – Day 3: Saturday, September 12, 2026

7:00 – 8:00 am **Registration & Breakfast**

Session 11: COMBS CHANDLER

EPIGENETIC MECHANISMS IN HEART DISEASE

Moderators: *Alan Tall, MD; Thomas Vondriska, PhD*

8:00 – 8:20 am **Chromatin as a Biosensor in the Heart**

Thomas Vondriska, PhD

8:20 – 9:00 am **STATE-OF-THE-ART-LECTURE**

Actin Acetylation in Muscle Function

Bradley Ferguson, PhD

9:00 – 9:20 am **Reversing HFpEF by Epigenetics**

Suresh C. Tyagi, PhD

9:20 – 9:40 am **SeXX Matters: Epigenetic Based Sex Dimorphic Cardiac Reparative Activity of Endothelial Progenitor Cells**

Raj Kishore, PhD

9:40 – 10:00 am **Epigenetic Regression of the Failing Heart: The Role for KDM5**

Priyatansh Gurha, PhD

Session 12: GRAND BALLROOM B

EMERGING INSIGHTS INTO HEART FAILURE WITH PRESERVED EJECTION FRACTION

Moderators: *Yi-Gang Wang, MD, PhD; Venkatesh Sundararajan, PhD*

8:00 – 8:20 am **The Exposome and Heart Health: Linking Environmental Toxins to Cardiovascular Remodeling and HFpEF**

Vineet Agrawal, MD, PhD

8:20 – 8:40 am **A Clinically Relevant, Translatable Large Animal Model of HFpEF**

Roberto Bolli, MD, D.Sc. (Hon), Dr. h. c.

8:40 – 9:00 am **Investigating the Role of Protein Tyrosine Phosphatase 1B (PTP1B) Inhibition in HFpEF**

Maria Kontaridis, PhD

9:00 – 9:40 am **KEYNOTE LECTURE**

Myocardial Mechanisms of Diastolic Dysfunction in HFpEF: Rethinking the Role of Fibrosis

Brian Weil, PhD

PROGRAM AGENDA

AGENDA – Day 3: Saturday, September 12, 2026

9:40 – 10:00 am **Coronary Microvascular Dysfunction in HFpEF: Mechanisms and Clinical Implications**

Shengnan (Shanon) Zheng, MD

Session 13: GRAND BALLROOM C

IACS Symposium: ADVANCES IN CARDIOVASCULAR RESEARCH

Moderators: *Vladimir Jakovljevic, MD, PhD; Ranko Skrbic, MD, PhD*

8:00 – 8:20 am **PCSK9 and Atherosclerotic Stenosis in the Carotid Artery: Implication in Plaque Instability**

Devendra K. Agrawal, PhD (Biochem), PhD (Med Sciences), MBA

8:20 – 8:40 am **Novel Therapeutics for Cardiac Repair**

Arjun Deb, MD

8:40 – 9:00 am **Novel Therapeutic Options for Cardiac Fibrosis**

Michael P. Czubryt, PhD

9:00 – 9:20 am **Urolithin A Attenuate Experimental Heart Failure by Preventing Mitochondrial Dysfunction and Fibrotic Remodeling**

Ranko Skrbic, MD, PhD

9:20 – 9:40 am **Hyperbaric Oxygen Therapy in Experimental Autoimmune Myocarditis**

Vladimir Jakovljevic, MD, PhD

9:40 – 10:00 am **Valvular Heart Disease: An Update**

Henrique Furtado, MD, PhD

10:00 – 10:20 am **Coffee Break**

Session 14: COMBS CHANDLER

THE ENVIROME AND THE HEART

Moderators: *Jagat Narula, MD, PhD; Thomas Vondriska, PhD*

10:20 – 11:00 am **STATE-OF-THE-ART LECTURE**

Cardiovascular Risk and Evidence Based Nutrition

Kim A. Williams, Sr., MD

11:00 – 11:20 am **Stress and Heart Disease**

Arshed Quyyumi, MD

PROGRAM AGENDA

AGENDA – Day 3: Saturday, September 12, 2026

- 11:20 – 11:40 am** **Cardiovascular Health Check: New Preventive Strategy**
Goran Krstacic, MD, PhD
- 11:40 – 12:00 pm** **The Effect of Nicotine Use on the Adolescent Heart and Brain**
Nicole Purcell, PhD
- 12:00 – 12:20 pm** **Genomic Instability in Heart Failure**
Ali J. Marian, MD

Session 15: GRAND BALLROOM B

EMERGING CONCEPTS IN NONINVASIVE AND INVASIVE CARDIOLOGY

Moderators: *Dinesh Kalra, MD, MBA; Petr Ostadal, MD, PhD*

- 10:20 – 10:40 am** **Concomitant Ventricular Tachycardia Ablation During Left Ventricular Assist Device (LVAD) Implantation**
Auras Atreya, MD, MPH
- 10:40 – 11:00 am** **Atrial Fibrillation and Heart Failure: Strategies for Management**
Nachiket M. Apte, MD
- 11:00 – 11:20 am** **New Horizons in Electrophysiology**
Jeffrey Stidam, MD
- 11:20 – 11:40 am** **Expanding PYP Scanning for Early Detection of Cardiac Amyloidosis**
DongBo Yu, MD
- 11:40 – 12:00 pm** **Demystifying Diastology: Update from the Recent ASE Guidelines**
Vincent L. Sorrell, MD
- 12:00 – 12:20 pm** **New Hope for Hopeless Patients with Complex Coronary Artery Disease**
Ibrahim Fahsah, MD

Session 16: GRAND BALLROOM C

CARDIAC REPAIR

Moderators: *Devendra K. Agrawal, PhD, MBA; Aisha Khan, PhD, MBA*

- 10:20 – 10:40 am** **New Strategies for Myocardial Infarction Repair**
Yi-Gang Wang, MD, PhD
- 10:40 – 11:00 am** **Universal Human Bioenergetic Battery**
Phil Yang, MD

PROGRAM AGENDA

AGENDA – Day 3: Saturday, September 12, 2026

- 11:00 – 11:20 am** **Microbial Metabolites as Systemic Regulators of Myocardial Repair**
Patrick C.H Hsieh, MD, PhD
- 11:20 – 12:00 pm** **STATE-OF-THE-ART LECTURE**
Smad Signaling Cascades in Cardiac Repair, Remodeling, and Fibrosis
Nikolaos Frangogiannis, MD
- 12:00 – 12:20 pm** **Closing the Gap: New Mechanisms of Electrical and Structural Rescue in Arrhythmogenic Cardiomyopathy**
Farah Sheikh, PhD
- 12:20 – 2:00 pm** **Lunch**

Session 17: GRAND BALLROOM B **GENE AND CELL-BASED THERAPIES II**

Moderators: *Arshed Quyyumi, MD; Danina Muntean, MD, PhD*

- 2:00 – 2:20 pm** **Advancing Extracellular Vesicle Research: Progress and Innovations in Therapeutic Applications**
Aisha Khan, PhD, MBA
- 2:20 – 2:40 pm** **Early Clinical Experience with Stem Cell Therapies in Infants with Congenital Heart Disease**
Sunjay Kaushal, MD
- 2:40 – 3:00 pm** **Bacteria to the Rescue of Cardiac Conduction and Contraction**
Nenad Bursac, PhD

Session 18: GRAND BALLROOM C **ADVANCES IN CARDIAC IMAGING**

Moderators: *Vincent L. Sorrell, MD; Jishanth Mattumpuram, MD*

- 2:00 – 2:40 pm** **KEYNOTE LECTURE**
Leveraging Imaging to Guide Preventive Therapies in Atherosclerotic Disease
Dinesh Kalra, MD, MBA
- 2:40 – 3:00 pm** **Low gradient, potentially severe aortic stenosis**
Marcus Stoddard, MD

PROGRAM AGENDA

AGENDA – Day 3: Saturday, September 12, 2026

Session 19: COMBS CHANDLER **EMERGING CONCEPTS AND TECHNIQUES** **IN CARDIOVASCULAR RESEARCH**

Moderators: *Maria Kontaridis, PhD; Priyatansh Gurha, PhD*

- 2:00 – 2:20 pm** **Symphony of the Heart Proteome: Orchestrating Multi-Modal Frameworks and Agentic AI in Cardiovascular Medicine**
Peipei Ping, PhD
- 2:20 – 2:40 pm** **The Causal Role of Cancer in Atherosclerosis**
Nick Leeper, MD
- 2:40 – 3:00 pm** **Sphingolipids in Cardiovascular Disease**
Eleni Tseliou, MD, PhD
- 3:00 – 3:20 pm** **Coffee Break**

Session 20: COMBS CHANDLER **CARDIAC REGENERATION AND REPAIR**

Moderators: *Young-sup Yoon, MD, PhD; Jop Van Berlo, PhD*

- 3:20 – 3:40 pm** **Mechanisms that Govern Myocardial Repair and Regeneration**
Dan Garry, MD, PhD
- 3:40 – 4:00 pm** **Cardiovascular Cell Therapy with iPSC-Derived Endothelial Cells and Reprogrammed Cells**
Young-sup Yoon, MD, PhD
- 4:00 – 4:20 pm** **Cardiac Regeneration Through Stimulation of Cardiomyocyte Proliferation**
Jop Van Berlo, PhD
- 4:20 – 4:40 pm** **Rewriting the Code for Cardiomyocyte Proliferation**
Tamer M Mohamed, PhD
- 4:40 – 5:00 pm** **Endogenous stromal cells and injectable hydrogels for minimally invasive cardiac repair**
Finosh G. Thankam, PhD

PROGRAM AGENDA

AGENDA – Day 3: Saturday, September 12, 2026

Session 21: GRAND BALLROOM B

CURRENT ISSUES IN CARDIOVASCULAR MEDICINE

Moderators: *Kim A. Williams, Sr., MD; Goran Krstacic, MD, PhD*

- 3:20 – 4:00 pm** **KEYNOTE LECTURE**
Who May Benefit from ECMO in Cardiogenic Shock?
Petr Ostadal, MD, PhD
- 4:00 – 4:20 pm** **Updates in Management of Pulmonary Hypertension**
Sonali Arora, MD
- 4:20 – 4:40 pm** **Residual Risk in Coronary Artery Disease**
Arshed Quyyumi, MD
- 4:40 – 5:00 pm** **Genetics in Cardiomyopathies**
Jishanth Mattumpuram, MD

Session 22: GRAND BALLROOM C

NEW HORIZONS IN INTERVENTIONAL CARDIOLOGY

Moderators: *Marcus Stoddard, MD; Yuvraj Chowdhury, MD*

- 3:20 – 3:40 pm** **Updates in Structural Heart Disease Interventions**
Faraaz Rahman, MD
- 3:40 – 4:00 pm** **Role of TMVR in Failed Bioprosthetic Mitral Valve**
Naresh Solankhi, MD
- 4:00 – 4:20 pm** **Advances in Transcatheter Tricuspid Valve Interventions**
Ravi Sharma, MD
- 4:20 – 4:40 pm** **Beyond Flow: Redefining Coronary Physiology Using Advanced
Thermodilution and Flow Dynamics**
Yuvraj Chowdhury, MD
- 4:40 – 5:00 pm** **Advances in TAVR: Latest Research and Clinical Impact (remote
presentation)**
Gilbert Tang, MD, MBA

PROGRAM AGENDA

AGENDA – Day 3: Saturday, September 12, 2026

Awards Ceremony and Gala Dinner

6:00 – 7:00 pm **Announcements, Recognitions, and Awards**

Recognition by 2026 IACS-NAS Organizing Committee

Chairs: Dr. Roberto Bolli and Dr. Dinesh Kalra

Distinguished Service to Research Award

Dr. Renee Wong

Distinguished Research Achievement Award

Dr. Aisha Khan

Translational Catalyst Award

Dr. Santosh Sanganalmath

IACS Awards

Chair: Dr. Naranjan S. Dhalla

IACS Medal of Merit

Dr. Jagat Narula

Distinguished Leadership in Cardiovascular Science, Medicine, and Surgery

Dr. Roberto Bolli

Distinguished Service Award in Cardiovascular Science, Medicine, and Surgery

Dr. Buddhadeb Dawn

Distinguished Service Award in Cardiovascular Sciences, Medicine, and Surgery

Dr. Jay Zhang

Established Investigator Awards

Chairs: Dr. Naranjan S. Dhalla, Dr. *András Varró, MD, PhD*

Howard Morgan Award for Distinguished Achievements in Cardiovascular Research

Dr. Vladimir Jakovljevic

Naranjan Dhalla Award for Innovative Investigators in Cardiovascular Sciences

Dr. Ali J Marian

James Willerson Award for Excellence in Cardiovascular Medicine

Dr. Rhian M Touyz

Grant Pierce Award for Excellence in Cardiovascular Sciences

Dr. Arjun Deb

PROGRAM AGENDA

AGENDA – Day 3: Saturday, September 12, 2026

Jay Mehta Annual Award for Clinical Scientists

Dr. Ranko Skrbic

Amarjit Arneja Distinguished Lecture Award in Prevention of Heart Disease

Dr. Henrique Furtado

Paul Ganguly Distinguished Lecture Award in Cardiovascular Science

Dr. Devendra K. Agrawal

Suresh C. Tyagi Award for Excellence in Cardiovascular Sciences

Dr. Srinivas Tipparaju

Roberto Bolli M.D. Distinguished Young Scientist Competition Awards

Chairs: *Dr. Ali J. Marian and Dr. Roberto Bolli*

Finalists (in alphabetical order):

Mahmoud Abdellatif, MD, PhD

Sean Joseph Jurgens, MD, PhD

Siddharth Patel, MD, MPH

Eric Wei, MD, PhD

Yu-Sheng Yeh, PhD, RD

Graduate Students Oral Presentation and Poster Awards

Chairs: Dr. Buddhadeb Dawn and Dr. Devendra K. Agrawal

Buddhadeb Dawn Graduate Student Award

Morris Karmazyn Poster Awards in Translational Medicine (4)

Margaret Moffat Poster Awards in Biomedical Sciences (4)

7:00 – 10:00 pm

Gala Dinner

PROGRAM FACULTY

Dale Abel, MD, PhD

William S. Adams Distinguished Professor of Medicine
Chair and Executive Medical Director
Department of Medicine
David Geffen School of Medicine at UCLA and UCLA Health
Los Angeles, CA, USA

Devendra K. Agrawal, PhD (Biochem), PhD (Med Sciences), MBA, MS (ITM)

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College of Osteopathic Medicine of the Pacific
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Director of Ventricular Arrhythmia Program
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Professor of Medicine and Physiology
Distinguished University Scholar
Legacy Foundation of Kentuckiana Distinguished Chair in Cardiology
Director, Institute of Molecular Cardiology
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Professor of Medicine
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PROGRAM FACULTY

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Biomedical Engineering Program
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POSTERS

2026 IACS-NAS-1: Adeniyi Adeleye, Siyu Xiao, Azeez Muili, Ilkin T. Altintop, Micah Castillo, Preethi Gunaratne, Kacie Waiters, Tasneem Bawa-Khalfe, Bradley K. McConnell and Robert J. Schwartz. *STEMIN- and YAP5SA-induced exosomes prevent cardiomyocyte apoptosis.*

2026 IACS-NAS-2: Arvind Singh Bhati, Angelica Toro Cora, Allen Sam Titus, Baldeep Singh, Sameerul Salam, Shamim Rahman, Richa Upadhyay, Qinkun Zhang, Mohammad Iqbal H Bhuiyan, Tousif Sultan & Hind Lal. *GSK-3 α Deficiency Activates NLRP3 Inflammasome Signaling and Spontaneous Cardiac Remodeling.*

2026 IACS-NAS-3: Gergő Bitay, Noémi Tóth, Zsófia Kohajda, Leila Topal, Vivien Demeter-Haludka, Muhammad Naveed, Aiman Saleh A. Mohammad, Norbert Jost, László Virág, István Baczkó, András Varró, Norbert Nagy. *Increased risk of ventricular alternans could be a potential link between intensive physical training and sudden cardiac death in competitive athletes.*

2026 IACS-NAS-4: Milica Gajić Bojić, Nataša Duran, Anđela Bojanić, Aneta Stojmenovski, Sanja Jovičić, Milka Maticić, Nebojša Mandić-Kovačević, Snežana Uletilović, Ljiljana Amidžić, Žana Maksimović, Nataša Stojaković, Snežana Ritan, Zvezdana Ritan Mičić, Miroslav Savić, Ranko Škrbić. *Diazepam in Human Pregnancy: Experimental Evidence for Its Effects on Umbilical Vascular Function, Oxidative Stress, Cell Survival, and Immune Response.*

2026 IACS-NAS-5: Sean Bridges, Shuaishuai Hu, Pratiti Dasgupta, Adrian Arrieta, Andreas Schwingshackl, Amy Rowat, Thomas M. Vondrisk. *Integrating Mechanical Signals and Chromatin Architecture: The Role of Histone H1.0 in Cardiac Fibrosis.*

2026 IACS-NAS-6: Emmanuel M Camors, Jessica Miller, Joern Huelsmann, Sairam Pasam, Rebecca Liu, Abhijeet Govind Anoop, Riham Abouleisa, Tamer M A Mohamed. *Multiomics Profiling of Human Left Ventricular Heart Tissue Reveals distinct Signature for Heart Failure With Preserved Ejection Fraction (HEFpEF).*

2026 IACS-NAS-7: Brian M. David, Yssel M. Mendoza, Mohamed Radwan Ahmed, Devendra K. Agrawal. *LR12-Mediated TREM-1 Inhibition Enhances Arteriovenous Fistula Maturation Through Suppression of Inflammation and Maladaptive Vascular Remodeling.*

2026 IACS-NAS-8: Fatemeh Dehghani Firouzabadi, Zara Ali, Ali Sheikhy, Heinrich Dreyer, Matthew Frank, Matthew Dyer, Nathaniel Zamaites, Meisam Hoseinyazdi, Aida Fallahzadeh, Fahimul Huda, Ali Jahanshahi. *CT-Based Quantitative Assessment of Visceral and Subcutaneous Abdominal Fat and Obesity Measurement Parameters and Their Associations with Macrovascular and Microvascular Complications in Diabetes: A Systematic Review.*

2026 IACS-NAS-9: Benjamin Doelling, Helen Janis, Jamila Makhloufi, Yibing Nong, Shahid P Baba. *Myocardial Depletion of Histidyl Dipeptides Enhances the Accumulation of Pathogenic CD4⁺ T cells in Failing Hearts.*

POSTERS

2026 IACS-NAS-10: Heinrich Dreyer, William Collis, Fatemeh Dehghani Firouzabadi, Goetz Kloecker, Liam Hamidi, Jordan Stafford, Gage West, Ramin Hamidi. *Thoracic Vertebral Giant Cell Tumor of Bone With Posterior Mediastinal Extension and Aortic Displacement Managed With Endovascular Aortic Stenting and Denosumab.*

2026 IACS-NAS-11: Matthew Dyer, Fatemeh Dehghani Firouzabadi, Jehan Zeb Shahid. *Traumatic Hemopneumothorax Necessitates: A Cardiothoracic Imaging Pattern of Pleural Chest Wall Communication Following Severe Trauma.*

2026 IACS-NAS-12: C. Emery, C. Poggel, T. Adams, S. Grünberg, M. Hesse, J. Liu, N. Weber, O. Hardt. *Isolation of adult cardiomyocytes from mouse heart by a novel, semiautomated perfusion technology.*

2026 IACS-NAS-13: Chengqun Huang, Christine Akimana, Qinghui Ou, Mouhamad Alloosh, Michael Sturek, Roberto Bolli. *Natural Aging in Ossabaw Miniature Pigs is Associated with Echocardiographic Evidence of Diastolic Dysfunction and Cardiac Remodeling.*

2026 IACS-NAS-14: Hafsa Jama, Pranjal Sharma, Darini Nagarajan, Yibing Nong, Mariusz Z. Ratajczak, Sham S. Kakar. *Preliminary Evaluation of Withaferin A in a Mouse Model of Myocardial Infarction.*

2026 IACS-NAS-15: Nevena Jeremic, Vladimir Jakovljevic, Jovana Novakovic, Maja Muric, Predrag Ostojic. *Human Epicardial Fat as a Metabolic and Redox Modulator in Cardiovascular Risk.*

2026 IACS-NAS-16: Raveena Kataria, Amit Dwivedi, Ben Doelling, Leslie Haysley, Aruni Bhatnagar, Shahid P Baba. *Carnosine Supplementation in Patients with Peripheral Arterial Disease Diminishes Aldehyde Stress and Improves Walking Ability.*

2026 IACS-NAS-17: A Rare Presentation of *Leuconostoc* Endocarditis in a Patient with an Implantable Cardioverter- Defibrillator

Authors: Akshaya Keerti, MD; Marvi Abid, MD; Mustafa Turab, MD; Adnan Bhopalwala, MD Tahir Raja, MD

2026 IACS-NAS-18: Hannah Khan, Fatemeh Dehghani Firouzabadi, Bobby Buse, Gage West, Thomas Dykes. *Primary Pulmonary Artery Intimal Sarcoma with Osteosarcomatous Differentiation: A Rare Pulmonary Embolism Mimicker with Rapid Recurrence.*

2026 IACS-NAS-19: Lucas Lefers, Jiaru Liu, Kedryn Baskin. *Cardiac OSU-SP3 Enhances Skeletal Muscle Mitochondrial Function and Limits Adiposity Gain.*

2026 IACS-NAS-20: Jiaru Liu, Lucas A. Lefers, Kedryn K. Baskin. *Cardiomyokines Regulate Inter-Organ Communication and Improve Exercise Capacity.*

2026 IACS-NAS-21: Rebecca Liu, Sairam Pasam, Dana Hammouri, Kamal Abou Farraj, Abou Bakr M. Salama, Ahmad Gebreil, Joern Huelsmann, Abhijeet G. Anoop, Sara Taha, Pretty Rose Mathew, Todd K. Rosengart, Riham R.E. Abouleisa, Tamer M. A. Mohamed. *Kdm5b Is a Novel Epigenetic Driver of Cardiomyocyte Cell Cycle Re-entry via Ube2c/RhoA Signaling.*

POSTERS

2026 IACS-NAS-22: Jamila Makhoulfi, Mamata Chaudhari, Benjamin Doelling, David Hoetker, Yibing Nong, Kenneth Brittian, and Shahid Baba. *Elucidating the role of skeletal muscle histidyl dipeptides in exercise capacity during heart failure.*

2026 IACS-NAS-23: Jacob Markert, Maryam Sarabijamab, Fatemeh Dehghani Firouzabadi, Zara Ali, Ali Sheikhi, Meisam Hoseinyazdi, Fahimul Huda. *Radiotracer Emboli in Pulmonary Vasculature on PET/CT: Mechanism, Imaging Features, and Key Diagnostic Pitfalls.*

2026 IACS-NAS-24: Maryam Moossavi, Baul Yoon, Song Zhang, David Mondaca-Ruff, Jing Wei, Cuicui Yang, Feixiang Yan, Wei Wei, Xueying Lin, Joseph S. Reddy, Nadine Norton, Joerg Herrmann, Xiaolei Xu. *Loss of nceh1a Ameliorates Anthracycline-Induced Cardiotoxicity via Mitigating Aging-associated Intercalated Disc Remodeling.*

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2026 IACS-NAS-46: Maxwell Zheng, Xinyuan Tian, Ramzi Hamdalla, Hussam Hamdalla. *Unveiling A Conus-to-lad Collateral: Reassessing Surgical Revascularization In Chronic Total Occlusion.*

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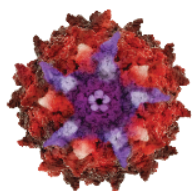


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ACKNOWLEDGMENTS

The organizing committee gratefully acknowledges the contributions of our speakers, session chairs, reviewers, volunteers, and all who made this meeting possible. Special thanks to our sponsors and academic partners for their generous support.

With Special Thanks and Appreciation for the Generous Support of:

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