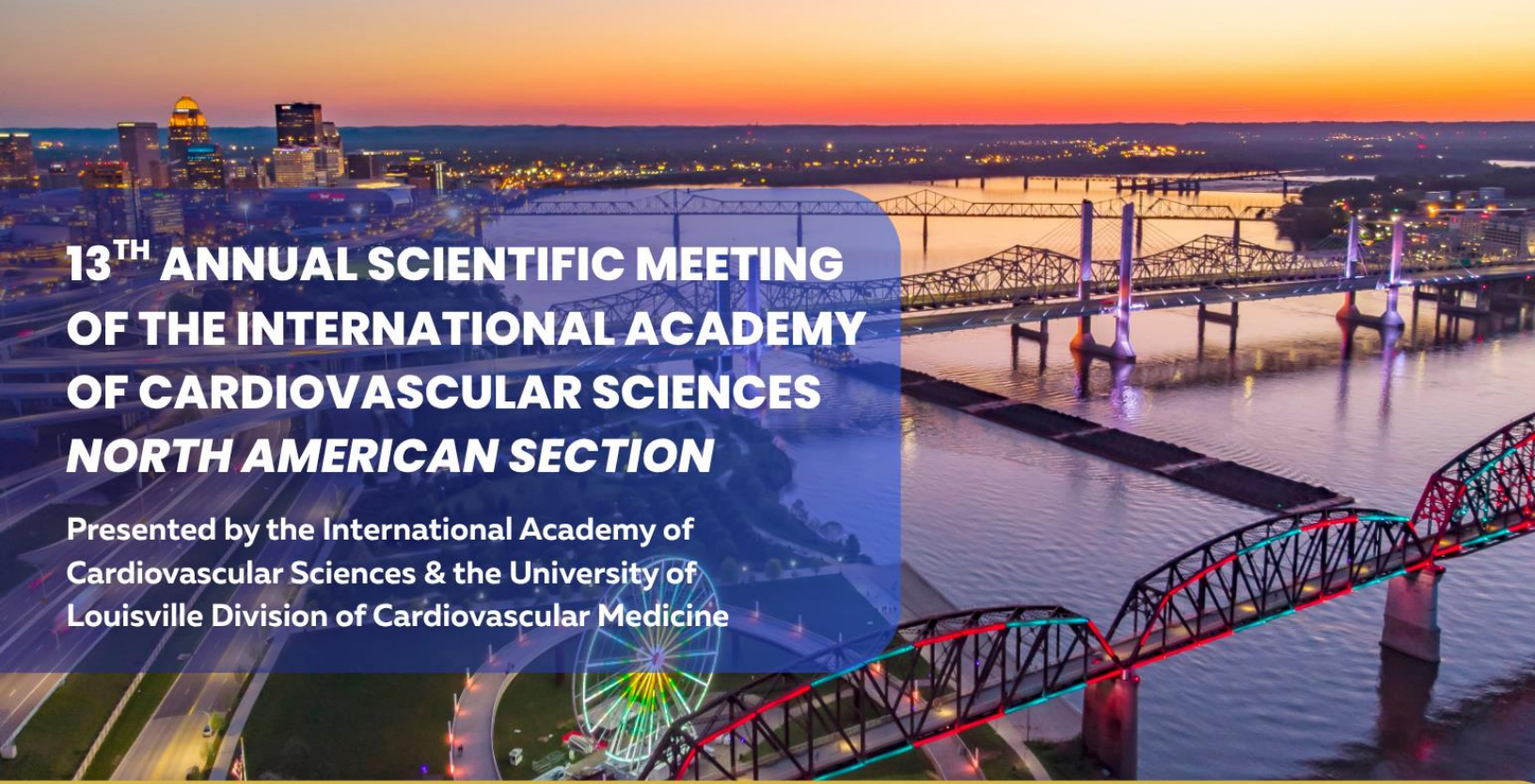




13TH ANNUAL SCIENTIFIC MEETING OF THE INTERNATIONAL ACADEMY OF CARDIOVASCULAR SCIENCES NORTH AMERICAN SECTION

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



Health Sciences Center
Office of Professional & Educational Development

16.0 AMA PRA Category 1 Credit(s)[™]



**19.2 Nursing CE Credits
Available**

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 & ACCOMODATIONS

The Galt House

140 N Fourth Street

Louisville, KY 40202

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

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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

4:30 PM - 6:00 PM

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

SOCIAL MEDIA

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PROGRAM AGENDA

AGENDA – Day 1: Thursday, September 10, 2026 Opening Session: 3:00-6:30 PM

12:00 – 6:00 pm	Registration
3:00 – 3:30 pm	Welcome Remarks <i>Roberto Bolli MD, DSc (Hon.), Dr. h. c., Dinesh Kalra MD, MBA, Jeffrey Bumpous MD, Jon Klein MD, Jiapeng Huang, MD, PhD</i>
3:30 – 6:30 pm	Plenary Lectures Moderators:
3:30 – 4:00 pm	The long and winding road of hereditary cardiomyopathies <i>Ali J. Marian, MD</i>
4:00 – 4:30 pm	Clonal Hematopoiesis and Cardiovascular Disease <i>Alan Tall, MD</i>
4:30 – 5:00 pm	Precision Hypertension - Molecular mechanisms to targeted therapies <i>Rhian Touyz BSc. (Hons), MSc. (Med), MBBCh, PhD</i>
5:00 – 5:10 pm	Session Break
5:10 – 5:40 pm	FoxM1 promotes cardiomyocyte regeneration in mammalian hearts with post-infarction LV remodeling <i>Jay Zhang, PhD</i>
5:40 – 6:10 pm	HFpEF: Where metabolism, inflammation, and fibrosis converge in the context of obesity <i>Philipp E. Scherer, PhD</i>
	IACS Medal of Merit Award Presentation
6:10 – 6:15 pm	Introduction of the Speaker
6:15 – 6:45 pm	PCSK9: How Evolution Created a Friend—and Left Us with a Foe? <i>Jagat Narula, MD, PhD</i>
7:00 pm	Welcome Dinner

PROGRAM AGENDA

AGENDA – DAY 2: FRIDAY, SEPTEMBER 11, 2026

Session 1: THE TRUE CARDIOMETABOLIC SCIENCE/CIRCADIAN RHYTHM

- 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: DIABETES AND THE HEART

- 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: GENE AND CELL-BASED THERAPIES I

- 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** **KEYNOTE 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** **Early Clinical Experience with Stem Cell Therapies in Infants with Congenital Heart Disease**
Sunjay Kaushal, MD

10:00 – 10:20 am
Coffee Break

Session 4: BUDDHADEB DAWN GRADUATE STUDENT AWARD COMPETITION

- 10:20 – 10:40 am** **To be Announced**
- 10:40 – 11:00 am** **To be Announced**
- 11:00 – 11:20 am** **To be Announced**
- 11:20 – 11:40 am** **To be Announced**

PROGRAM AGENDA

AGENDA – Day 2: Friday, September 11, 2026

Session 5: MECHANISMS OF MYOCARDIAL INJURY FAILURE

- 10:20 – 11:00 am** **KEYNOTE 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: CARDIOMYOPATHIES/HEART FAILURE

- 10:20 – 11:00 am** **Novel Targets and Approaches for Dystrophic Cardiomyopathy**
Da-Zhi Wang, PhD
- 11:00 – 11:20 am** **Molecular Mechanisms of Hypertrophic Cardiomyopathy**
Sakthivel Sadayappan, PhD
- 11:20 – 11:40 am** **Novel therapeutic options for cardiac fibrosis**
Michael P. Czubryt, PhD
- 11:40 – 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 Break

NIH Symposium Speaker: Renee Wong, PhD

Funding Opportunities at the NIH: Mechanisms, Applications, and FAQs

1:00 – 2:00 PM

PROGRAM AGENDA

AGENDA – Day 2: Friday, September 11, 2026

Session 7: ROBERTO BOLLI, MD DISTINGUISHED YOUNG SCIENTIST AWARD COMPETITION

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

- TBD
- TBD
- TBD
- TBD
- TBD

Session 8: CARDIAC ELECTROPHYSIOLOGY (HALF SESSION)

- 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
- 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:

PULMONARY HYPERTENSION AND CARDIOPROTECTION (HALF SESSION)

- 2:00 – 2:20 pm** **Pulmonary hypertension and its potentially metallomic risks**
Lu Cai, MD, PhD
- 2:20 – 2:40 pm** **Mechanisms of Pulmonary Hypertension**
Jiapeng Huang, MD, 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

PROGRAM AGENDA

AGENDA – Day 2: Friday, September 11, 2026

3:20 – 4:20 PM

CONTINUATION OF ROBERTO BOLLI, MD DISTINGUISHED YOUNG SCIENTIST AWARD COMPETITION

Session 10: EPIGENETIC MECHANISMS ELECTROPHYSIOLOGY AND ATHEROSCLEROSIS (HALF SESSION)

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

Feasibility of conductive devices against cardiac arrhythmias

Ren-Ke Li, MD, PhD

4:00 - 4:20 PM

Spatial Multiomics in Atherosclerotic Plaque Stability

Gregory A. Payne, MD, PhD

Poster Sessions

4:30 – 6:00 PM

PROGRAM AGENDA

AGENDA – Day 3: Saturday, September 12, 2026

Session 11: EPIGENETIC MECHANISMS IN HEART DISEASE

- 8:00 – 8:20 am** **Chromatin as a Biosensor in the Heart**
Thomas Vondriska, PhD
- 8:20 – 8:40 am** **Actin acetylation in muscle function**
Bradley Ferguson, PhD
- 8:40 – 9:00 am** **Reversing Profibrotic Epigenetic Memory in Human Cardiac Fibroblasts**
Tim McKinsey, 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: EMERGING NEW INSIGHTS INTO HEART FAILURE WITH PRESERVED EJECTION FRACTION

- 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 porcine model of HFpEF**
Roberto Bolli, MD, D.Sc. (Hon), Dr. h. c.
- 8:40 – 9:20 am** **Investigating the Role of Protein Tyrosine Phosphatase 1B (PTP1B) Inhibition in HFpEF**
Maria Kontaridis, PhD
- 9:20 – 9:40 am** **KEYNOTE LECTURE**
Myocardial Mechanisms of Diastolic Dysfunction in HFpEF: Rethinking the Role of Fibrosis
Brian Weil, PhD
- 9:40 – 10:00 am** **Sex-Dependent Cardiometabolic Remodeling in HFpEF Following Circadian Disruption**
Inna Rabinovich-Nikitin, PhD

PROGRAM AGENDA

AGENDA – Day 3: Saturday, September 12, 2026

Session 13: ADVANCES IN CARDIOVASCULAR RESEARCH

- 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** **Nampt activators for treatment of Heart failure**
Srinivas Tipparaju, 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: Update**
Henrique Furtado, MD, PhD

Session 14: THE ENVIROME AND THE HEART

- 10:20 – 11:00 am** **KEYNOTE LECTURE**
Cardiovascular Risk and Evidence Based Nutrition
Kim A. Williams, Sr., MD
- 11:00 – 11:20 am** **Stress and heart disease**
Arshed Quyyumi, MD
- 11:20 – 11:40 pm** **Cardiovascular health check: New preventive strategy**
Goran Krstacic MD, PhD
- 11:40 – 12:00 pm** **Exposome Implications on Cardiopulmonary Health: Role of Psychosocial Stress**
Loren Wold, PhD
- 12:00 – 12:20 pm** **The Effect of Nicotine Use on the Adolescent Heart and Brain**
Nicole Purcell, PhD

PROGRAM AGENDA

AGENDA – Day 3: Saturday, September 12, 2026

Session 15: EMERGING CONCEPTS IN NONINVASIVE AND INVASIVE CARDIOLOGY

- 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**
Dong Bo 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: CARDIAC REPAIR

- 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
- 11:00 – 11:20 pm** **Microbial metabolites as systemic regulators of myocardial repair**
Patrick C.H Hsieh, MD, PhD
- 11:20 – 12:00 pm** **KEYNOTE 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 Break

PROGRAM AGENDA

AGENDA – Day 3: Saturday, September 12, 2026

Session 17: GENE AND CELL-BASED THERAPIES II

- 2:00 – 2:20 pm** **Advancing Extracellular Vesicle Research: Progress and Innovations in Therapeutic Applications**
Aisha Khan, PhD, MBA
- 2:20 – 2:40 pm** **Therapeutic potential of mesenchymal stem cell- derived extracellular vesicles in ischemic tissue repair**
Ewa Zuba-Surma, PhD
- 2:40 – 3:00 pm** **Bacteria to the Rescue of Cardiac Conduction and Contraction**
Nenad Bursac, PhD

Session 18: ADVANCES IN CARDIAC IMAGING

- 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

Session 19: EMERGING CONCEPTS AND TECHNIQUES IN CARDIOVASCULAR RESEARCH

- 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

PROGRAM AGENDA

AGENDA – Day 3: Saturday, September 12, 2026

Session 20:

CARDIAC REGENERATION AND REPAIR

- 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** **2D Nanomaterials for Cardiac Regenerative Medicine**
Sanjiv Dhingra, PhD

Session 21:

CURRENT ISSUES IN CARDIOVASCULAR MEDICINE

- 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

PROGRAM AGENDA

AGENDA – Day 3: Saturday, September 12, 2026

Session 22:

NEW HORIZONS IN INTERVENTIONAL CARDIOLOGY

- | | |
|-----------------------|---|
| 3:20 – 3:40 PM | Updates in structural heart disease interventions
<i>Faraaz Rahman, MD</i> |
| 3:40 – 4:00 PM | Role of TMVR in failed bioprosthetic mitral valve
<i>Naresh Solankhi, MD</i> |
| 4:00 – 4:20 pm | Advances in transcatheter tricuspid valve interventions
<i>Ravi Sharma, MD</i> |
| 4:20 – 4:40 pm | Beyond Flow: Redefining Coronary Physiology Using Advanced
Thermodilution and Flow Dynamics
<i>Yuvraj Chowdhury, MD</i> |
| 4:40 – 5:00 pm | Advances in TAVR: latest research and clinical impact (remote
presentation)
<i>Gilbert Tang, MD, MBA</i> |

Awards Ceremony and Gala Dinner

- | | |
|------------------------|--|
| 6:00 – 7:00 pm | Announcements, Recognitions, and Awards |
| 7:00 – 10:00 pm | Gala Dinner |

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