

# 11<sup>th</sup> Annual IACS-NAS

Meeting of the North American Section of the  
International Academy of Cardiovascular Sciences

September 19 - 21, 2024  
HOUSTON, TEXAS

## Program Directors

Joseph G. Rogers, MD  
*The Texas Heart Institute*

Ali J. Marian, MD  
*The University of Texas  
Health Science Center - Houston*

## Scientific Advisory Board

Darren Woodside, PhD

Dianna M. Milewicz, MD, PhD

Heinrich Taegtmeier, MD, DPhil, FACC, FAHA

Jagat Narula, MD, PhD

James F. Martin, MD, PhD

John P. Cooke, MD, PhD

Leila Rouhi, MD, PhD

Priyatansh Gurha, PhD

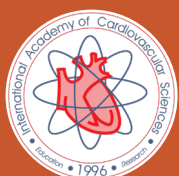
Reza Ardehali, MD, PhD, FAHA

Xander Wehrens, MD, PhD

Junichi Sadoshima, MD, PhD

Lorrie Kirshenbaum, PhD

Yibin Wang, PhD



 UTHealth<sup>®</sup> Houston

 THE TEXAS HEART INSTITUTE<sup>®</sup>



## AGENDA - Day 1: September 19, 2024

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### James T. Willerson, MD Symposium

- 3:00 pm**                      **Registration - Day 1**
- 4:00 – 4:15 pm**              **Welcome Comments**  
*Drs. Ali J. Marian, Joseph G. Rogers, and Jagat Narula*
- 4:15 – 4:25 pm**              **Presidential Address**  
*Michael Czubryt, PhD*
- 4:25 – 4:30 pm**              **Announcement of the Medal of Merit Award**  
*Naranjan S. Dhalla, PhD, MD, DSc*
- 4:30 – 5:00 pm**              **Medal of Merit Lecture**  
**Eats to Beat: The Essence of Cardiac Metabolism**  
*Heinrich Taegtmeyer, MD, DPhil, FACC, FAHA*
- 5:00 – 6:30 pm**              **James T. Willerson, MD Symposium**  
*Chairs: Drs. Naranjan S. Dhalla, Joseph G. Rogers, and Ali J. Marian*
- 5:00 – 5:15 pm**              **A Tribute to James T. Willerson, MD**  
*Slide Show*
- 5:15 – 5:45 pm**              **Cell Therapy for Heart Failure**  
*Emerson Perin, MD, PhD*
- 5:45 – 6:15 pm**              **Hippo Pathway and Myocardial Regeneration**  
*James F. Martin, MD, PhD*
- 6:15 – 6:45 pm**              **Transcriptional Regulation of Myocyte Proliferation**  
*Robert J. Schwartz, PhD*
- 6:45 – 9:00 pm**              **Reception and Dinner Buffet (Cooley Atrium)**



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## AGENDA - Day 2: September 20, 2024

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### Session 1: Cooley Auditorium

#### ADVANCES IN CARDIOVASCULAR SCIENCE

- 7:00 am                      Registration - Day 2 & Breakfast
- 8:00 – 8:25 am              Lecture 1: To Be Determined  
*Gary Lopaschuk, PhD*
- 8:25 – 8:50 am              Senescence Cardiomyopathy  
*Junichi Sadoshima, PhD, MD*
- 8:50 – 9:15 am              Lecture 3: To Be Determined  
*Buddhadeb Dawn, MD*
- 9:15 – 9:40 am              Lecture 4: To Be Determined  
*Dragan M. Djuric, MD, MS, PhD, FIACS, FIUPS*
- 9:40 – 10:00 am            Coffee Break / Exhibitor Hall
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### Session 2: THI Library

#### VASCULAR DISEASE

- 8:00 – 8:25 am              Lecture 1: To Be Determined  
*Dianna M. Milewicz, MD, PhD*
- 8:25 – 8:50 am              Lecture 2: To Be Determined  
*Ying H. Shen, MD, PhD*
- 8:50 – 9:15 am              Lecture 3: To Be Determined  
*Vihang A. Narkar, PhD*
- 9:15 – 9:40 am              Lecture 4: To Be Determined  
*Darren Woodside, PhD*
- 9:40 – 10:00 am            Coffee Break / Exhibitor Hall



## AGENDA - Day 2: September 20, 2024

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### Session 3: Cooley Auditorium

#### GENETICS AND GENOMICS

- 10:00 - 10:25 am **Lecture 1: To Be Determined**  
*William T. Pu, MD*
- 10:25- 10:50 am **The Promise of RNA Therapeutics for Cardiovascular Diseases**  
*John P. Cooke, MD, PhD*
- 10:50 - 11:15 am **Lecture 3: To Be Determined**  
*Thomas A. Cooper, MD*
- 11:15- 11:40 am **Lecture 4: To Be Determined**  
*Priyatansh Gurha, PhD*
- 11:40 - 1:00 pm **Lunch & Exhibitor Hall**
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### Session 4: THI Library

#### CELL THERAPY FOR HEART FAILURE

- 10:00 - 10:25 am **Lecture 1: To Be Determined**  
*Roberto Bolli, MD, DSc, FAHA, FACC*
- 10:25- 10:50 am **Lecture 2: To Be Determined**  
*Tamer Mahmoud Abdelfattah Mohamed, PhD, MSc*
- 10:50 - 11:15 am **Lecture 3: To Be Determined**  
*Joshua M. Hare, MD, FACC, FAHA*
- 11:15- 11:40 am **Lecture 4: To Be Determined**  
*Speaker: To Be Announced*
- 11:40 - 1:00 pm **Lunch & Exhibitor Hall**



## AGENDA - Day 2: September 20, 2024

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### Session 5: Cooley Auditorium

#### ATRIAL FIBRILLATION

- 1:00 – 1:25 pm      **Lecture 1: To Be Determined**  
*Xander Wehrens, MD, PhD*
- 1:25 – 1:50 pm      **Lecture 2: To Be Determined**  
*Na Li, PhD*
- 1:50 – 2:15 pm      **Lecture 3: To Be Determined**  
*Speaker: To Be Announced*
- 2:15 – 2:40 pm      **Lecture 4: To Be Determined**  
*Speaker: To Be Announced*
- 2:40 – 3:00 pm      **Coffee Break / Exhibitor Hall**
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### Session 6: THI Library

#### WOMEN'S HEART HEALTH

- 1:00 – 1:25 pm      **Lecture 1: To Be Determined**  
*Stephanie Coulter, MD, FACC, FASE*
- 1:25 – 1:50 pm      **Lecture 2: To Be Determined**  
*Inna Rabinovich-Nikitin, PhD*
- 1:50 – 2:15 pm      **Lecture 3: To Be Determined**  
*Colleen Norris, PhD, MSc, BScN, RN, GNP, FAHA, FCAHS*
- 2:15 – 2:40 pm      **Lecture 4: To Be Determined**  
*Wanling Xuan, PhD*
- 2:40 – 3:00 pm      **Coffee Break / Exhibitor Hall**



## AGENDA - Day 2: September 20, 2024

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### Session 7: Cooley Auditorium

#### METABOLIC REGULATION OF HEART FAILURE

- 3:00 – 3:25 pm      **Lecture 1: To Be Determined**  
*Åsa Gustafsson, PhD*
- 3:25 – 3:50 pm      **Lecture 2: To Be Determined**  
*Bradford G. Hill, PhD, FAHA*
- 3:50 – 4:15 pm      **Lecture 3: To Be Determined**  
*Jason M. Karch, PhD*
- 4:15 – 5:40 pm      **Lecture 4: To Be Determined**  
*Lorrie Kirshenbaum, OM, PhD, FAHA, FIACS, FISHR, FFGTB, FCAHS*
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### Session 8: THI Library

#### THE JCA SYMPOSIUM

- 3:00 – 3:25 pm      **Lecture 1: To Be Determined**  
*Yibin Wang, PhD*
- 3:25 – 3:50 pm      **Lecture 2: To Be Determined**  
*Speaker: To Be Announced*
- 3:50 – 4:15 pm      **Lecture 3: To Be Determined**  
*Speaker: To Be Announced*
- 4:15 – 5:40 pm      **Lecture 4: To Be Determined**  
*Speaker: To Be Announced*



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### **Poster Session: Location To Be Determined**

**5:45 – 7:30 pm**

**Poster Viewing/Competition for Awards**  
*Cooley Building Foyer - Level 1*

**Morris Karmazyn Best Poster Award**

**Margaret Moffat Awards for Best Poster**

**Drinks and Dinner Buffet**  
*Ansary Atrium - Cooley Building*



## **AGENDA - Day 3: September 21, 2024**

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### **Session 1: Cooley Auditorium**

#### **ADVANCES IN CARDIOVASCULAR SCIENCE**

- 7:30 am                      **Registration - Day 3 & Breakfast**
- 8:00 – 8:25 am              **Lecture 1: To Be Determined**  
*Rhian M. Touyz, MBBCh, MSc, PhD, FAHA*
- 8:25 – 8:50 am              **Lecture 2: To Be Determined**  
*Nikolaos G. Frangogiannis, MD*
- 8:50 – 9:15 am              **Lecture 3: To Be Determined**  
*Philipp E. Scherer, PhD*
- 9:15 – 9:40 am              **Cardiac Stem Cell Therapy: Do The Benefits Outnumber Risks**  
*Sanjiv Dhingra, PhD, FAHA, FIACS, FAPS*
- 9:40– 10:00 am              **Coffee Break / Exhibitor Hall**
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### **Session 2: THI Library**

#### **TOPIC: TO BE DETERMINED**

- 8:00 – 8:25 am              **Lecture 1: To Be Determined**  
*Speaker: To Be Announced*
- 8:25 – 8:50 am              **Lecture 2: To Be Determined**  
*Speaker: To Be Announced*
- 8:50 – 9:15 am              **Lecture 3: To Be Determined**  
*Speaker: To Be Announced*
- 9:15 – 9:40 am              **Lecture 4: To Be Determined**  
*Speaker: To Be Announced*
- 9:40– 10:00 am              **Coffee Break / Exhibitor Hall**





## AGENDA - Day 3: September 21, 2024

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### Session 3: Cooley Auditorium

#### HEART FAILURE

- 10:00 – 10:25 am    **Lecture 1: To Be Determined**  
*Anita Deswal, MD, MPH, MBBS*
- 10:25 – 10:50 am    **Lecture 2: To Be Determined**  
*Sherif F. Nagueh, MD, FACC, FAHA, FASE*
- 10:50 – 11:15 am    **Lecture 3: To Be Determined**  
*Leila Rouhi, MD, PhD*
- 11:15 – 11:40 am    **Lecture 4: To Be Determined**  
*Michael P. Czubryt, MD, PhD*
- 11:40– 1:00 pm      **Lunch / Exhibitor Hall**
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### Session 4: THI Library

#### TOPIC: TO BE DETERMINED

- 10:00 – 10:25 am    **Lecture 1: To Be Determined**  
*Speaker: To Be Announced*
- 10:25 – 10:50 am    **Lecture 2: To Be Determined**  
*Speaker: To Be Announced*
- 10:50 – 11:15 am    **Lecture 3: To Be Determined**  
*Speaker: To Be Announced*
- 11:15 – 11:40 am    **Lecture 4: To Be Determined**  
*Speaker: To Be Announced*
- 11:40– 1:00 pm      **Lunch / Exhibitor Hall**



## AGENDA - Day 3: September 21, 2024

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### Session 5: Cooley Auditorium

TOPIC: TO BE DETERMINED

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|----------------|---|
| 1:00 – 1:25 pm | <b>Lecture 1: To Be Determined</b><br><i>Speaker: To Be Announced</i> |
| 1:25 – 1:50 pm | <b>Lecture 2: To Be Determined</b><br><i>Speaker: To Be Announced</i> |
| 1:50 – 2:15 pm | <b>Lecture 3: To Be Determined</b><br><i>Speaker: To Be Announced</i> |
| 2:15 – 2:40 pm | <b>Lecture 4: To Be Determined</b><br><i>Speaker: To Be Announced</i> |
| 2:40 – 3:00 pm | <b>Coffee Break / Exhibitor Hall</b>                                  |
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### Session 6: THI Library

TOPIC: TO BE DETERMINED

- |                |   |
|----------------|---|
| 1:00 – 1:25 pm | <b>Lecture 1: To Be Determined</b><br><i>Speaker: To Be Announced</i> |
| 1:25 – 1:50 pm | <b>Lecture 2: To Be Determined</b><br><i>Speaker: To Be Announced</i> |
| 1:50 – 2:15 pm | <b>Lecture 3: To Be Determined</b><br><i>Speaker: To Be Announced</i> |
| 2:15 – 2:40 pm | <b>Lecture 4: To Be Determined</b><br><i>Speaker: To Be Announced</i> |
| 2:40 – 3:00 pm | <b>Coffee Break / Exhibitor Hall</b>                                  |



## **AGENDA - Day 3: September 21, 2024**

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### **Session 7: Cooley Auditorium**

#### **ROBERTO BOLLI, MD YOUNG INVESTIGATOR AWARD**

- 3:00 – 3:15 pm**      **Role of Histone Lysine Demethylase KDM5A in LMNA-Associated Dilated Cardiomyopathy**  
*Manisha Deogharia, PhD*
- 3:15 – 3:30 pm**      **Generation of Chamber-Specific Cardiomyocytes: A Safe and Effective Strategy to Address Arrhythmia in Cell-Based Therapy**  
*Arash Pezhouman, MD*
- 3:30 – 3:45 pm**      **Targeting RAGE to Modulate ECM Remodeling in Atherosclerosis**  
*Vinitha Deepu*
- 3:45 – 4:00 pm**      **Targeting Glutamine Metabolism in the Pathogenesis of HF**  
*Andrew A. Gibb, PhD*
- 4:00 – 4:15 pm**      **Coffee Break / Exhibitor Hall**
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### **Session 8: THI Library**

#### **GARY LOPASCHUK GRADUATE STUDENT AWARD**

- 3:00 – 3:15 pm**      **Lecture 1: To Be Determined**  
*Speaker: To Be Announced*
- 3:15 – 3:30 pm**      **Lecture 2: To Be Determined**  
*Speaker: To Be Announced*
- 3:30 – 3:45 pm**      **Lecture 3: To Be Determined**  
*Speaker: To Be Announced*
- 3:45 – 4:00 pm**      **Lecture 4: To Be Determined**  
*Speaker: To Be Announced*
- 4:00 – 4:15 pm**      **Coffee Break / Exhibitor Hall**



## **AGENDA - Day 3: September 21, 2024**

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### **Session 9: Location To Be Determined**

#### **BUDDHA DAWN, MD EARLY CAREER AWARDS**

- 4:15 – 4:35 pm**      **DAMPs as Novel Molecular Targets to Attenuate Plaque Vulnerability**  
*Vikrant Rai, MBBS, PhD*
- 4:35 – 4:55 pm**      **The Secret Messages Between the Heart and Skeletal Muscle During Heart Failure**  
*Samarjit Das, PhD*
- 4:55 – 5:15 pm**      **The Mitochondrial LonP1 is Indispensable for Cardiac Maturation and Function**  
*Venkatesh Sundararajan, MD*
- 5:15 – 5:35 pm**      **The Role of Cardiac Fibroblasts in the Pathogenesis of LMNA Dilated Cardiomyopathies**  
*Leila Rouhi, MD, PhD*
- 5:35 pm**              **Adjourn/Closing Ceremony/Awards/Dinner**  
*Westin Hotel*