



ISHR-LAT

Latin American Section

PRELIMINARY SCIENTIFIC PROGRAM

International Society for Heart Research
Latin American Section



International
Society for
Heart Research



ISHR
Latin American
Section

INOVA
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INSTITUTO
BUTANTAN
A serviço da vida



SCIENTIFIC PROGRAM AT A GLANCE

3-5 SEPTEMBER 2026 | SAO PAULO, BRAZIL

SEPTEMBER 3

8:30-9:00

Registration / Reception Desk

9:00-10:00

Welcome and Opening Lecture

10:00-12:00

Beyond Bioenergetics: Redox, Calcium, and Post-Translational Control of the Mitochondrion in Ischemic and Cardiometabolic Heart Disease

12:00-13:30

Lunch and Networking

13:30-15:30

Journal of Molecular and Cellular Cardiology Plus (JMCC Plus) Symposium

15:30-16:00

Coffee Break

16:00-18:00

Pathways in Cardiac Injury: From Organ Crosstalk to Environmental Stressors

SEPTEMBER 4

8:30-9:00

Registration / Reception Desk

9:00-11:00

Journal of Molecular and Cellular Cardiology (JMCC) Symposium

11:00-12:30

Cellular Mechanisms Driving Cardiac Remodeling and Dysfunction

12:30-14:00

Lunch and Networking

14:00-16:00

Novel Molecular Mechanisms and Therapeutic Targets in Cardiovascular Disease

16:00-18:00

Poster Session and Coffee Break

SEPTEMBER 5

10:00-12:00

Cultural and Scientific Visit to Instituto Butantan

12:00-14:00

Farewell Lunch



PRESENTATION FORMATS AND TIMING

Session abbreviations and presentation times

MC | MINICONFERENCE

20 min presentation | 10 min questions

OC | ORAL COMMUNICATION

12 min presentation | 8 min questions

AOC | ABSTRACT ORAL COMMUNICATION

10 min presentation | 5 min questions



SCIENTIFIC PROGRAM

September 3

9:00–10:00

Welcome and Opening Lecture

Chairs: ISHR-LAT Executive Board

Title: The Involvement of RyR2 Phosphorylation in the Positive Chronotropic Response

Speaker: Ana Maria Gomez, Université Paris-Saclay/Inserm, France.

10:00–12:00

Beyond Bioenergetics: Redox, Calcium, and Post-Translational Control of the Mitochondrion in Ischemic and Cardiometabolic Heart Disease

Chairs: Gerardo García-Rivas (Tecnológico de Monterrey, Mexico) and Ana Paula C. Davel (Universidade de Campinas, Brazil)

MC1. Mitochondrial Ca²⁺ Overload is a Pivotal Risk Factor for Lethal Ventricular Arrhythmias

Speaker: Gerardo García-Rivas, Instituto Tecnológico y de Estudios Superiores de Monterrey, Mexico

MC2. Mitochondrial Oxidative Stress Drives Myocardial Contractile and Vascular Reactivity Dysfunction After Myocardial Infarction

Speaker: Ivanita Stefanon, Universidade Federal do Espírito Santo, Brazil

OC1. Promoting Sirtuin 3 Deacetylase Activity Improves Excitation–Contraction Coupling in Ventricular Cardiomyocytes in Cardiometabolic Heart Failure with Preserved Ejection Fraction (HFpEF)

Speaker: Abraham Méndez, Instituto Tecnológico y de Estudios Superiores de Monterrey, Mexico

OC2. Role of the Mitochondrial Antiviral Signaling Protein (MAVS) in Cardiomyocyte Responses to Lipid Overload

Speaker: Camila Ortega, Universidad de Chile, Chile

AOC1. To be selected from the submitted abstracts.

12:00–13:30

Lunch and Networking



13:30–15:30

Journal of Molecular and Cellular Cardiology Plus (JMCC Plus) Symposium

Chairs: Alicia Mattiazzi (Universidad Nacional de La Plata, Argentina) and Luciana V. Rossoni (Universidade de São Paulo, Brazil)

MC3. The Heart's Clock: ROR α Links the Circadian Clock to Cav1.2 Channels

Speaker: Jean-Pierre Benitah, Université Paris-Saclay, France

MC4. T-Tubules in the Unloaded Myocardium: Structural Insights from BIN1 Regulation

Speaker: Zully Pedroso, Universidad de Chile, Chile

MC5. From Mechanoprotection to Arrhythmogenesis: Caveolar Remodeling in the Overloaded Atrium

Speaker: Alexey Glukhov, University of Wisconsin, USA

MC6. Cardiomyocyte-Targeted Gi Signaling Promotes Cardiac Repair Under Sustained Adrenergic Stress in Mice

Speaker: Silvia Guatimosim, Universidade Federal de Minas Gerais, Brazil

15:30–16:00

Coffee Break

16:00–18:00

Pathways in Cardiac Injury: From Organ Crosstalk to Environmental Stressors

Chairs: José Geraldo Mill (Universidade Federal do Espírito Santo, Brazil) and Zully Pedroso (Universidad de Chile, Chile)

MC7. Interorgan Communication Between the Kidney and the Heart in Renocardiac Syndrome

Speaker: Marcela Sorelli Carneiro Ramos, Universidade de São Paulo, Brazil

MC8. Remote Ischemic Preconditioning Beyond Cardioprotection: Inflammation, Redox Signaling, and Ventricular Remodeling

Speaker: Martín Donato, Universidad de Buenos Aires, Argentina

MC9. Pesticide-Induced Electrocardiotoxicity: Is Hypothyroidism the Missing Link in Arrhythmogenesis?

Speaker: Danilo Roman Campos, Universidade Federal de São Paulo, Brazil

MC10. Tiny Particles, Big Questions: Exploring the Impact of Nanoplastics on Drosophila Cardiac Function

Speaker: Carlos Valverde, Universidad Nacional de La Plata, Argentina



September 4

9:00–11:00

Journal of Molecular and Cellular Cardiology (JMCC) Symposium

Chairs: Danilo Roman Campos (Universidade Federal de São Paulo, Brazil) and Silvia Guatimosim (Universidade Federal de Minas Gerais, Brazil)

MC11. Rational Design of Ryanodine Receptor Modulators Based on Natural Peptides

Speaker: Héctor Valdivia, University of Wisconsin, USA

MC12. Modulation of Cardiac L-Type Calcium Channels by G Protein-Coupled Estrogen Receptor (GPER) Signaling

Speaker: Alejandro Aiello, Universidad Nacional de La Plata, Argentina

MC13. Ventricular Electrical Remodeling Upon Hemodynamic Unloading

Speaker: Diego Varela, Universidad de Chile, Santiago, Chile

MC14. Arrhythmogenic Mechanisms in Chagas Disease: A Cellular and Molecular Perspective

Speaker: Artur Santos-Miranda, Universidade Federal de Minas Gerais, Brazil

11:00–12:30

Cellular Mechanisms Driving Cardiac Remodeling and Dysfunction

Chairs: José Wilson Magalhães Bassani (Universidade de Campinas, Brazil) and Adriana Castelo Costa Girardi (Universidade de São Paulo, Brazil)

MC15. TRPV4 as a Mechanosensitive Integrator in the Myocardium: From Hemodynamic Overload to Cardiac Dysfunction

Speaker: Martín Vila Petroff, Universidad Nacional de La Plata, Argentina

MC16. Role of Leukocytes in Cardiac Pathophysiology

Speaker: Natália Senger, Universidade de São Paulo, Brazil

OC3. Modulation of Sarcoplasmic Reticulum Ca^{2+} Release and Uptake in the Context of Arrhythmogenesis

Speaker: Luis Gonano, Universidad Nacional de La Plata, Argentina

OC4. Dyslipidemic Heart: Why Cardioprotection Fails and How to Rescue It

Speaker: Verónica D'Annunzio, Universidad de Buenos Aires, Argentina

12:30–14:00

Lunch and Networking



14:00–16:00

Novel Molecular Mechanisms and Therapeutic Targets in Cardiovascular Disease

Chairs: Alejandro Aiello (Universidad Nacional de La Plata, Argentina) and Carmen Valdivia (University of Wisconsin, USA)

MC17. RyR2 Phosphorylation in the Adrenergic Response: A New Look at an Old Problem

Speaker: Francisco J. Alvarado, University of Wisconsin, USA

OC5. Role of Mineralocorticoid Receptor Signaling in Sympathetic Perivascular Neurotransmission in Renovascular Hypertension

Speaker: Patrizia Dardi, Universidade de São Paulo, Brazil

OC6. AAV9-Mediated ACE2 Gene Therapy for the Treatment of Hypertension

Speaker: Alejandro Orłowski, Universidad Nacional de La Plata, Argentina

AOC2. To be selected from the submitted abstracts.

AOC3. To be selected from the submitted abstracts.

AOC4. To be selected from the submitted abstracts.

16:00–18:00

Poster Session and Coffee Break



September 5

10:00–12:00

Cultural and Scientific Visit to Instituto Butantan

Join us for a cultural and scientific experience at Instituto Butantan, one of Brazil's leading centers for biomedical research and science communication. Participants will explore its museums, historical heritage, scientific collections, animal exhibits, and green spaces.

12:00–14:00

Farewell Lunch