## Welcome

**Héctor Valdivia, MD, PhD**  
Director, University of Wisconsin Cardiovascular Research Center  
1:00 pm – 1:05 pm

## Session I

**Keynote Speaker**  
José Jalife, MD  
Centro Nacional de Investigaciones Cardiovasculares (CNIC), Madrid, Spain

*Atrial Fibrillation Progression: A Translational Perspective*  
1:05 pm – 1:50 pm  
(40 min presentation, 5 min Q & A)

## Session II

Natalia Trayanova, PhD  
John Hopkins University

*Applications of Digital Twin Technology and Machine Learning in Translational Arrhythmia Research*  
1:50 pm – 2:35 pm  
(40 min presentation, 5 min Q & A)

2:35 – 2:40 pm  
**Break**

## Session III

Sanjiv Narayan, MD, PhD  
Stanford University

*Precision Bioengineering Approaches to Patients with Cardiac Fibrillation*  
2:40 pm – 3:25 pm  
(40 min presentation, 5 min Q & A)
## Session IV

**Ademuyiwa Aromolaran, PhD**  
Masonic Medical Research Institute

**Arrhythmias of Obesity**  
3:25 pm – 4:10 pm  
(40 min presentation, 5 min Q & A)

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<td>4:10 – 4:15pm</td>
<td>Break</td>
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## Session V

**Alexey Glukhov, PhD**  
University of Wisconsin - Madison

**Mechano-Electro-Chemical Transduction in Pathophysiology of Atrial Fibrillation: from Cardiomyocyte Nanodomains to Patients**  
4:15 pm – 5:00 pm  
(40 min presentation, 5 min Q & A)

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<th>Time</th>
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<tr>
<td>5:00 – 6:00pm</td>
<td><strong>Poster Fair</strong></td>
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| 5:05pm | **Ian Begeman**  
Decoding an Organ Regeneration Switch by Dissecting Cardiac Regeneration Enhancers |
| 5:10pm | **Margaret Jameson**  
Cotranslational Complexes Encoding Ion Channels in the Heart |
| 5:15pm | **Rashid Mukaddim**  
Bayesian Cardiac Strain Imaging Identifies Region of Infarction in Murine Model of Ischemia-Reperfusion |
| 5:20pm | **David Roberts**  
Top-down Nanoproteomics Enables Comprehensive Analysis of Low-Abundance Cardiac Troponin I Proteoforms from Human Serum |
| 5:25pm | **Rebecca Salamon**  
Spatially Mapping Cardiac Innervation During Development, Disease, and Regeneration |
| 5:30pm | **Wenxuan Cai**  
Characterization of RyR2 Mutations Linked to Long-QT Syndrome |
| 5:35pm | **Jennifer Knickelbines**  
Mechanism of mRNA Association Underlying Heteromeric hERG Channel Assembly |
| 5:40pm | **Roman Medvedev**  
Disruption of Caveolae-Confined Phosphorylation of Ryanodine Receptors Promotes Calcium Handling Abnormalities & Arrhythmogenesis in Mouse Atrial Myocytes |
| 5:45pm | **Louise Reilly**  
IK1 and β-2 Adrenergic Response: Implications for Caveolar Membranes |
| 5:50pm | **Alex Veith**  
Role of the Aryl Hydrocarbon Receptor in Hepatovascular Development |

To join the meeting click [here](#).