

X RECI FINAL PROGRAM

Monday - May 25, 2026

- 15:00-16:00 **REGISTRATION**
- 16:00-16:15 **OPENING**
- 16:15-17:00 **PLENARY LECTURE** **Niels Voigt** (University of Göttingen, Germany)
Buffer Breakdown: When Ca²⁺ Shocks Absorbers Fail in Atrial Fibrillation

SYMPOSIUM 1

Ion Channels and Calcium Homeostasis

Chairs: [Juan Antonio Rosado](#) & [Antonio Felipe](#)

INVITED LECTURES

- 17:00-17:25 **Sendoa Tajada.** *University of Valladolid*
Ion Channel Remodeling in Colon Cancer via Mitochondrial Transfer and Inhibition of Polyamine Synthesis.
- 17:25-17:50 **María Navarro-Pérez.** *University of Oxford*
Calcium-Mediated Modulation of Kv1.3 at the Immunological Synapse
- 17:50-18:15 **Juan Antonio Rosado.** *University of Extremadura*
Analysis of the Heteromerization of Orai1 Variants

SHORT COMMUNICATIONS

- 18:15-18:25 **David Soto.** *Barcelona University*
Heterogeneous AMPA Receptor Populations Regulate Calcium Signaling in Hippocampal Astrocytes.
- 18:25-18:35 **Isabel Rodríguez-Valle.** *Institute of Biomedicine and Molecular Genetics of Valladolid*
Functional and Transcriptomic Analysis of Intracellular Calcium Remodeling in Pancreatic Cancer.
- 18:35-18:45 **Celia Cordero-Sanchez.** *University of Sevilla*
ORAI1-Dependent Regulation of Macrophage Adhesion and Polarization.
- 18:45-18:55 **Isaac Jardin.** *University of Extremadura*
Orai1 Flips the SOX2-Nanog Switch to Restrain Cancer Stemness in Luminal A Breast Cancer.
- 19:45-21:00 **WELCOME RECEPTION** Real Centro Universitario María Cristina

Tuesday - May 26, 2026

SYMPOSIUM 2

Channelopathies and Rare Diseases

Chairs: [Eva Delpón](#) & [Álvaro Villarroel](#)

INVITED LECTURES

- 9:00-9:25 **Xavier Altafaj.** *University of Barcelona*
Comprehensive Delineation and Precision Medicine of NMDAR-Related Rare Neurodevelopmental Disorders: From Biophysics to Clinical Trials.
- 9:25-9:50 **Raul Estevez.** *University of Barcelona*
From Astrocyte Signaling to Therapy: Unravelling MLC Pathophysiology through GPRC5B, MLC1 and VRAC.
- 9:50-10:15 **Alvaro Villarroel.** *Instituto Biofisika, CSIC-UPV/EHU, Leioa*
Folding Defects During Translation in Rare Diseases.

SHORT COMMUNICATIONS

- 10:15-10:25 **Manel C. Hadid**, Instituto de Investigación en Biotecnología y Salud (IDiBE), UMH Elche
Developmental and Epileptic Encephalopathy Associated with KCNB1: Toward Personalized Therapies
- 10:25-10:35 **Gorane Rodríguez Urquirizar**, Universitat Pompeu Fabra, Barcelona
Inhibition as a Strategy to Counteract Pathogenic Ca_v2.1 Gain-of-Function in CACNA1A Disorders
- 10:35-10:45 **Lucía Núñez**, University of A Coruña
Functional Effects of KCNA5 p.G183R Mutation May Be Related to the Development of Ventricular Fibrillation in Acute Myocardial Infarction
- 10:45-10:55 **Gillermo Javier Pérez**, Institut d'Investigació Biomèdica de Girona Dr. Josep Trueta AE3 p.G1070d Reveals a Chansporter Interaction in Short QT Syndrome
- 11:00-12:00 **COFFE BREACK & POSTERS**

SYMPOSIUM 3

Structure and Function of Ion Channels

Chairs: Mercedes Martín & Carmen Valenzuela

INVITED LECTURES

- 12:00-12:25 **Luis O. Romero**, Universidad de la Laguna
Functional and Structural Basis of TRPC3-Mediated Cerebellar Ataxia
- 12:25-12:50 **Beatriz Herguedas**, Instituto BIFI, Universidad de Zaragoza
Reshaping the Desensitized State: Subunit- and Editing-Dependent Dynamics in AMPA Receptors

SHORT COMMUNICATIONS

- 12:50-13:00 **María Redondo-Moya**, Instituto de Investigaciones Biomédicas Sols-Morreale IIBM -UAM
New Insights in the Modulation of the Electrophysiology of Kv1.5/Kvβ2.1 Channels by Lgi4
- 13:00-13:10 **Ana Gómez Del Campo**, Instituto de Neurociencias UMH-CSIC, San Juan De Alicante
Evolutionary Tuning of TRPM8 Cold Sensitivity: Identification of Functionally Relevant Residues across Vertebrate Classes
- 13:10-13:20 **Victoria Del Pilar Ribón**, Institute for Biocomputation and Physics of Complex Systems, Zaragoza
Sybody-Based Screening for State-and Subunit-Specific Recognition in AMPA Receptors
- 13:20-13:30 **Alex Perálvarez-Marín**, Universitat Autònoma de Barcelona, Cerdanyola Del Vallés, Spain
Integrated Computational and Experimental Strategies for TRPV2 Pharmacology and Vascular Therapeutics

SPONSORSHIPS' PRESENTATIONS

- 13:30-13:45 **3Brain** **Sercan Deniz**
Label-Free Functional Imaging Platforms for Organoids, Cell Cultures and Brain Slices: 3Brain CorePlate™ Technology
- 13:45-14:00 **Sophion** **Damian Colin Bell**
From Patch Pipettes to Planar Patch: Accelerated Electrophysiology via Automated Patch Clamp
- 14:00-15:00 **LUNCH**
- 15:05-15:20 **Nanion** **Nicoletta Murciano**
High-Throughput Automated Patch Clamp of Native Lysosomes for Early Drug Discovery

SYMPOSIUM 4

Neuronal ion Channels

Chairs: [Xavier Gasull](#) & [Rosa Señarís](#)

INVITED LECTURES

- 15:20-15:45 **Guillaume Sandoz**, Institut de Biologie Valrose (iBV). CNRS UMR7277 - Inserm U1091 - Université Côte d'Azur, France.
Switching On and Off Pain with Light
- 15:45-16:10 **Nuria Comes**, Institute of Neurosciences, Universitat de Barcelona
Novel TRP and TRESK Variants Linked to Neuropathic Pain
- 16:10-16:35 **Jorge Fernández-Trillo**, Instituto de Neurociencias UMH-CSIC, Sant Joan D'Alacant
Piezo2 in Mechanical Pain: Insights from In Vivo Recordings of Nociceptors

SHORT COMMUNICATIONS

- 16:35-16:45 **Helena Lluís**, Institute of Neurosciences, Universitat de Barcelona
Loss of TRESK Potassium Channel Alters Hippocampal Neuronal Excitability, Synaptic Plasticity, and Shapes Behavior in a Sex-Specific Manner
- 16:45-16:55 **Felipe Ortega**, Universidad Complutense de Madrid
P2X Purinergic Receptors Are Required for Correct Cortical Development in Human Brain Organoids
- 16:55-17:05 **Sara López-Vázquez**, IBGM, UVA-CSIC, Valladolid
Mechanisms Involved in SARS-CoV 2 E Protein-Induced Calcium Release from Intracellular Stores in Rat Hippocampal Neurons Aged In Vitro
- 17:05-17:15 **Victor Moreno Lozano**, Instituto De Investigación en Biotecnología y Salud (IDI BE), UMH, Elche
Persistent Nociceptor Hyperexcitability and Axonal Retraction Induced by Repeated Paclitaxel Exposure
- 17:15-18:00 **PLENARY LECTURE** **José Jalife** (CNIC, Madrid)
Rescuing the Heart from the Tornadoes of Sudden Cardiac Death
- 18:30-20:00 **GUIDED VISIT TO SAN LORENZO DE EL ESCORIAL**
- 20:30-22:30 **GALA DINNER** Restaurante La Herrería

Wednesday – May 27, 2026

- 9:30-10:15 **PLENARY LECTURE** **Thomas Voets** (University of Leuven, Leuven, Belgium)
Small Molecular Modulators of TRPM3 for the Treatment of Pain and Neurological Disorders

SYMPOSIUM 5

Ion Channel Pharmacology and Therapeutics

Chairs: [Antonio R. Artalejo](#) & [Victoria Moreno](#)

INVITED LECTURES

- 10:15-10:40 **Marta Gutierrez-Rodriguez**, Instituto de Química Médica, IQM-CSIC, Madrid
Tailoring Pharmacological and Fluorescent Probes to Study Kv Channelosomes
- 10:40-11:05 **Ricardo Caballero**, Universidad Complutense de Madrid
New Mechanisms of Drug-Induced Modulation of Cardiac Ion Currents: Changing Old Paradigms
- 11:05-11:30 **Victoria Moreno Manzano**, Centro de Investigación Príncipe Felipe, Valencia
Ion Channels for Neuronal Repair

11:30-12:00 **COFFEE BREAK & POSTERS**

SHORT COMMUNICATIONS

12:00-12:10 **Angel Cogolludo**, Complutense University of Madrid

Rescuing Kv1.5 Channels In Pulmonary Arterial Hypertension By Modulating Sigma 1 Receptors With Repurposed Drugs

12:10-12:20 **Pilar Ciudad**, Universidad de Valladolid

TRPA1 and TRPM8 Mediate Intrinsic Cold Sensitivity of Cutaneous Arteries

12:20-12:30 **Francisco Rafael Nieto**, University of Granada

Tetrodotoxin (TTX) Attenuates Post-Operative Pain in Mice: Involvement of the Endogenous Opioid System

12:30-12:40 **Sara Pérez-Martín**, Universidad Complutense de Madrid

DECA-11 Selectively Restores Nav1.5 and Kir2.1 Channel Expression in the Membrane

12:40-13:25 **PLENARY LECTURE** **Antonio Ferrer-Montiel** (IDiBE-UMH, Elche)

TRP Channels Involved in Migraine Sex Dimorphism

13:30-14:00 **CLOSING CEREMONY & AWARDS**

14:00-15:00 **LUNCH & FAREWELL**