

28th Ion Channel Meeting / 6th workshop SFICT

September 10th through 13th, Sète, France

Sunday, September 10th 2017

16:00 Welcome of the meeting attendees

20:00 Dinner

Monday, September 11th 2017

8:30 **Opening session**

8:45 **Symposium 1: Ion channels in Organelles**

Co-organized by:

Sylvie Ducreux (Université Claude Bernard, Lyon- France)

Antonio Ferrer-Montiel (IBMC, Universidad Miguel Hernandez, Alicante-Spain)

Susan Treves (Basel, Switzerland): RyRs in extraocular muscles

Javier García-Sancho (Valladolid, Spain): Calcium in the Endoplasmic Reticulum: a look from the inside with GAP indicators

György Hajnoczky (Philadelphia, USA): ER-mitochondrial interface

Marina Balycheva (Philadelphia, USA): Non-canonical Role of mitofusin 2 in regulating Ca²⁺ homeostasis in the endoplasmic reticulum via interaction with Sarco/endoplasmic reticulum Ca²⁺/ATPase (SERCA)

10:30 **Coffee break**

11:00 **Oral communication 1**

Organized by Nathalie Guérineau (Institut de Génomique Fonctionnelle, Montpellier-France)

Xavier Gasull (Barcelona, Spain): Pyrethroid insecticides inhibit K_{2P} channels and activate sensory neurons producing pain and paresthesias.

Clément Verkest (Nice, France): Inhibition of ASIC1 channels in a rat model of migraine induces potent analgesic effects.

Francesco Formaggio (Bologna, Italy): Evaluation of calcium homeostasis: insights in the cellular mechanisms of neuropathic pain in Fabry disease.

Reza Sharif Naeini (Montréal, Canada): Mechanosensitive ion channels in articular nociceptors drive mechanical allodynia in osteoarthritis.

12:15 **Sponsor Communication**

Conrad Weichbrodt (Nanion Technology, Germany): Modulation of TRP channels by temperature in planar lipid bilayers

12:30 1-minute oral presentation for odd number posters

13:00 Lunch

15:00 Poster session 1

17:00 Symposium 2: Role of astrocytic ion channels in neurotransmission

Co-organized by:

Nathalie Rouach (Collège de France, Paris-France)

Felix Viana (Universitat Miguel Hernandez, Alicante-Spain)

Justin Changjoon Lee (South Korea): Role of Best1 in GABA, glutamate, d-serine release from astrocytes and modulation of neuronal activity

Raúl Estévez (Barcelona, Spain): Regulation of astrocytic chloride channels in health and disease

Jérôme Clasadonte (Lille, France): Communication between astrocytes through connexin 43-mediated gap junction channels controls the daily cycle of wakefulness

Cheng-Chang Lien (Taiwan): Background K⁺ conductance mediates rapid EPSP attenuation in oligodendrocyte precursor cells

18:45 Plenary lecture

Katsuhiko Mikoshiba (*RIKEN Brain Science Institute, Japan*): Mechanism of IP3 receptor channel gating and its role in cell function and disease

20:00 Dinner

Tuesday, September 12th 2017

8:45 Symposium 3: Ion channels and cardiovascular diseases

Co-organized by:

Hamid Moha ou Maati (Institut de Génomique Fonctionnelle, Montpellier-France)

Florian Lesage (IPMC, Sophia-Antipolis-France)

Peter Kohl (Freiburg, Germany): Fibroblast-Myocyte Electrical Interactions

María Teresa Pérez García (Valladolid, Spain): Kv channels in vascular remodelling: Novel targets against restenosis

Angelo Torrente (Montpellier, France): Role of L-type Cav1.3 Ca²⁺ channels in Ca²⁺ handling and SAN pacemaker activity altered by external conditions

Julie Briot (Montréal, Canada): Investigating the role of extracellular loops in the cardiac L-type CaV1.2 channel in mediating the physical interaction with CaV α 2 δ 1

10:30 Coffee break

11:00 Oral communication 2

Organised by Stephane Sebille (Université de Poitiers- France)

Filip Van Petegem (Vancouver, Canada): Structural and functional insights into ion channels of the muscle excitation-contraction machinery

Nolwenn Tessier (Lyon, France): Cardioprotective role of TRPV1 channels in H9C2 cell lines.

Jonathan Rojo-Ruiz (Valladolid, Spain): Endoplasmic reticulum calcium dynamic by physiological stimuli in pancreatic islets of Langerhans.

Luiza Filipis (Grenoble, France): A multisite confocal system for fast Ca²⁺ imaging from submicron structures in brain slices

12:15 IBRO fellowship session:

Andrei D. Ivanov (*Neurophysiology of Learning Laboratory, IHNA, Moscow, Russia*): NMDA and non-NMDA glutamate receptors involvement in synaptic plasticity impairment in a pilocarpine model of temporal lobe epilepsy

12:30 1-minute oral presentation for even number posters

13:00 Lunch

15:00 Poster session 2

17 :00 Symposium 4: Ion channels in endothelial and epithelial cells

Co-organized:

Thierry Chataigneau (CMB Université de Strasbourg-France)

Graça Soveral (iMed.Ulisboa, Universidade de Lisboa-Portugal)

Michel Félétou (Institut Servier, France): Endothelial ion channels in the regulation of vascular tone

Carlos Miguel Farinha (Lisboa, Portugal): Out of the ER to the membrane: regulation of CFTR trafficking

Ralf Köhler (Zaragoza, Spain): KCa3.1 channel in endothelial/epithelial cell signaling and as drug target

Claire Legendre (Angers, France): Are the expressions of voltage-gated sodium Nav Channels genes modified in mice arteries according to age, sex and hypertension?

18:45 Annual meeting of the association « Canaux ioniques »

19:30 Apéritif Sétois and special dinner

21:30 Poster and Oral Communication Prize session

22:00 Evening Party

Wednesday, September 13th 2017

10:00 Symposium 5: Ion channel and Electrical remodeling

Organized by:

Olivier Soriani (Institut de Biologie de Valrose, Nice-France)

Marco Caprini (Universita di Bologna-Italy)

Kelly McLaughlin (Boston, USA): Spatio-temporal distributions of endogenous resting potential, ion flows, and electric fields on patterning, regeneration and cell fate

Andrea Bedini (University of Bologna, Italy): Nociceptin/orphanin FQ antagonizes TLR4-mediated proliferation, migration and inflammatory signaling in human glioblastoma cells through calcium channel-dependent and independent signaling pathways

Anant Parekh (Oxford, UK): Spacial dynamic of calcium channel expression

David Crottès (San Francisco, USA): EGF-induced cell motility requires TMEM16A-dependent calcium signaling

11:45 Meeting closure

12:00 Lunch

13:00 Airport shuttle departure