



**32<sup>nd</sup> Ion Channel Meeting**  
**September 17<sup>th</sup> through 20<sup>th</sup> 2023, Sète, France**

**Sunday, September 17<sup>th</sup> 2023**

**16:00 – 19:00** Welcome of the meeting attendees

**19:00** *Welcome drink and Dinner*

**21:00** Plenary lecture

**Emilio Carbone** (Torino, Italy)

*Highlights on common gating changes in Cav1.2 and Cav1.3 channelopathies causing autism*

## Monday, September 18<sup>th</sup> 2023

### 08:30 Opening session

#### 08:45 Symposium 1: “Ion channels as Therapeutic Targets in Motor Diseases”

Organized by **Ines El Bini** (Tunis, Tunisia)

**Riadh Gouider** (Tunis, Tunisia)

*Paramyotonia congenita: from bench to bedside*

**Hilal Lashuel** (Lausanne, Switzerland)

*A spark of hope: targeting potassium channels in parkinson's disease*

**Eric Boué-Grabot** (Bordeaux, France)

*Trafficking and function of ATP P2X4 receptors in Amyotrophic Lateral Sclerosis*

**Selected speaker: Ophélie Molton** (Lausanne, Suisse)

*Determination of the Ca<sup>2+</sup> binding sites of acid-sensing ion channel 1a (asic1a)*

### 10:30 *Coffee break*

#### 11:00 Oral communication session 1: “Opening the Ca<sup>2+</sup> Floodgate”

Organized by **Fabien Brette** (Montpellier, France)

**Caterina Azzoni** (Montpellier, France)

*Control of the fight-or-flight response of heart rate and sino-atrial node automaticity by L-type Cav1.3 ( $\alpha 1D$ ) channels*

**Lea Rethore** (Angers, France)

*KB-R7943, a sodium/calcium exchanger (NCX) inhibitor, also targets voltage-gated sodium channels in GH3b6 cells*

**Federico Bertagna** (Guildford, UK)

*Effects of pharmacological ryanodine receptor modulation on voltage-gated ionic currents in murine hippocampal cornu ammonis-1 pyramidal neurons*

**Mahira Kaabeche** (Montpellier, France)

*Electrical properties and intracellular calcium signaling in cardiomyocytes from the honey bee heart*

**12:00 One-minute oral presentation for posters**

**12:30 Lunch**

**14:00 Poster session**

**15:45 Coffee break**

**16:15 Sponsors presentations**

**16:30 Symposium 2: “Hypoxia and ion channels”**

Organized by **Alban Girault** (Amiens, France)

**Luigi Catacuzzeno** (Perugia, Italy)

*Role of ion channels in the hypoxia-induced aggressiveness of glioblastoma*

**Khilian Pascarel** (Poitiers, France)

*Impact of hypoxia on ion channels in the context of cystic fibrosis*

**Bastien Masson** (Le Plessis-Robinson, France)

*Involvement of ORAI1  $Ca^{2+}$  channel in the pathogenesis of pulmonary arterial hypertension*

**Selected speaker: Anaïs Saint-Martin Willer** (Le Plessis-Robinson, France)

*Role of CRACR<sub>2</sub>A in the development of pulmonary arterial hypertension*

**18:15-18:30 Sponsors presentations**

**19:30 Apéritif dinatoire Sétois**

**Tuesday, September 19<sup>th</sup> 2023**

**08:30 Symposium 3: “Role of ion channels in stem/progenitor cells”**

Organized by **Valérie Coronas** (Poitiers, France)

**Francesco Moccia** (Pavia, Italy)

*Geneless optical stimulation generates pro-angiogenic Ca<sup>2+</sup> signals in endothelial colony forming cells.*

**Lin-Hua Jiang** (Xinxiang, China; Leeds, UK)

*Distinctive calcium channels integrate a signalling network to regulate mesenchymal stem cell function.*

**Loïc Lemonnier** (Lille, France)

*Role of store-operated calcium channels in cancer stem cells.*

**Selected speaker: Arnaud Delafenetre** (Poitiers, France)

*Functional characterization of muscle cells derived from healthy and DMD human induced pluripotent stem cells: focus on calcium regulation*

**10:15 Coffee break**

**10:45 Oral communication session 2: “ion channels and cancer”**

Organized by **Claire Legendre** (Angers, France)

**Romain Baudat** (Gif-sur-yvette, France)

*Venom peptides: emergent biological tools for lung cancer imaging*

**Mélanie Laine** (Amiens, France)

*Kv10.1 favors EMT and migration in breast cancer aggressiveness*

**Osbaldo Lopez-Charcas** (Mexico, Mexico)

*The blocking mechanism of gossypol on t-type calcium channels and its impact on colon cancer cell growth*

**Dimitra Gkika** (Lille, France)

*Non genomic regulation of trpm8: from thermosensation to cancer*

**11:45 Artem Kondratskyi** (Lille, France)

*Ion channels: global research trends, statistics, collaborations*

**12:30 Lunch**

**13:30 Appointment for Social event**

**17:00 Sponsors presentations**

**17:15 Symposium 4: “Ion channel and development”**

Organized by **Marie Demion** (Montpellier, France)

**Lucile Miquerol** (Marseille, France)

*Morphogenesis of the ventricular Purkinje network: linking architecture and function*

**Adèle Faucherre** (Montpellier, France)

*Piezo1 in heart development and function*

**Olga Andrini** (Lyon, France)

*TRK-1 sur *Caenorhabditis elegans* / mutations gain of function*

**Selected speaker: Eleonora Torre** (Montpellier, France)

*Validation of differentiated sinoatrial-like hiPSCs as a model of native sinus node myocytes*

**19:00 Annual meeting of the Association**

**20:00 Dinner**

**21:30 Evening Conference and Party**

**Caroline Strube** (CNRS Research Integrity Office)

*Scientific fraud: a long history... with potentially disastrous consequences.*

**Wednesday, September 20<sup>th</sup> 2023**

**09:30 Symposium 5: “Ionic channels in non excitable cells”**

*Organized by Isabelle Rubera (Nice, France)*

**Gilles Crambert** (Paris, France)

*ASIC<sub>2</sub> variant, a novel molecular entity involved in renal Na retention during idiopathic nephrotic syndrome*

**Laurent Beck** (Nantes, France)

*Uptake and efflux of phosphate in non-excitable cells: transporters, sensors and homeostatic regulation*

**Isabelle Callebaut** (Paris, France)

*Molecular basis of function/dysfunction/modulation of the anion channel CFTR*

**Selected speaker: Mete Kayatekin** (Nice, France)

*Activation of the LRRC8/VRAC anion channels in macrophages play a central role in micro-crystal-mediated il-1 $\beta$  release*

**11:15 Coffee break**

**11:40 Prizes and Meeting closure**

**12:00 Lunch**

**14:00 Airport shuttle departure**

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