

**30<sup>th</sup> Ion Channel Meeting**  
**September 8<sup>th</sup> through 11<sup>th</sup> 2019,**  
**Sète, France**

**Sunday, September 8<sup>th</sup> 2019**

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

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

**21:00** **Plenary lecture**

**Anne Feltz** (Institute of Biology of Ecole Normale Supérieure, Paris)

**“30 years of ion channel history”**

**Monday, September 9<sup>th</sup> 2019**

**08:15** Opening session

**08:30** **Symposium 1: “Ionic channels and autism”**

*Organized by Jean-Louis Bossu (Institut des Neurosciences Cellulaires et Intégratives, Université de Strasbourg, France)*

**Diane Papazian** (Los Angeles, USA): Altered gating in mutant Kv4.2 channel associated with autism and epilepsy

**Igor Medina** (Marseille, France) : Causal links between impaired developmental neuronal chloride homeostasis and formation of Autistic Spectrum Disorders

**Enrico Cherubini** (Roma, Italy) : *Impairment of GABAergic signalling in Autism Spectrum Disorders*

**Selected speaker: Eric Hosy** (Bordeaux, France): *Nanoscale co-organization and co-activation of AMPAR, NMDAR and mGluR at the synapse*

**10:15 Coffee break**

**10:30 Oral communication session 1: "New insights in ion channels pharmacology"**

*Organized by Sylvie Diochot (IPMC, University of Nice-Sophia Antipolis, France)*

**Ines ELBini Dhouib** (Tunis, Tunisia): Potential neuroprotective effect of bee venom on aluminum chloride-induced Alzheimer's disease on rats

**Zhong Peng** (Lausanne, Switzerland): Acid-sensing ion channels of the hypothalamus are regulated by hydrogen sulphide.

**Léa Réthoré** (Angers, France): BREVENAL PREVENTS CIGUATOXIN AND BREVETOXIN ACTIVATION OF NAV CHANNELS..

**Osbaldo Lopez-Charcas** (Tours, France): Biophysical characterization of new small-molecule blockers of nNaV1.5 channels expressed in breast cancer cells

**11:30 1-minute oral presentation for posters**

**12:15 Lunch**

**14:00 Poster session 1**

**15:30 Poster session 2**

**17:00 Symposium 2: “Ion channels and skin functions”**

*Organized by Aubin Penna (Laboratoire STIM, University of Poitier, France)*

**Hongzhen HU** (St. Louis, USA): "Cutaneous ion channel mechanisms of itch signaling".

**V'yacheslav LEHEN'KYI** (Lille, France): TRP channels and Skin homeostasis.

**Elena OANCEA** (Providence, USA): "Intracellular ion channels that regulate skin pigmentation".

**Selected speaker: Adélaïde Doray** (Tours, France): *The role of the auxiliary NaVβ4 subunit in maintaining epithelial phenotype*

**18:30 Annual meeting of the association « Canaux ioniques »**

**19:30 Apéritif Sétois**

**20:30 Dinner**

## Tuesday, September 10<sup>th</sup> 2019

### 08:30 **Symposium 3: Glutamate ligand-gated channels**

*Organized by Laurent Fagni (IGF, University of Montpellier, France)*

**Pierre Paoletti** (Paris, France): New types of NMDA receptors

**Christophe Mulle** (Bordeaux, France): Kainate receptors in temporal lobe epilepsy: a translational journey

**Ludovic Tricoire** (Paris, France): The delta family of glutamate receptors: role in excitatory synaptic transmission

**Selected speaker: Perrine Inquimbert** (Strasbourg, France): *Plasticity of inhibitory synaptic transmission under the control of NMDA receptors in the dorsal horn of the spinal cord*

### 10:15 *Coffee break*

### 10:30 **Symposium 4: Ion channels in cancer therapy resistance**

*Organized by Lise Rodat-Despoix (LPCM, University of Amiens, France)*

**Federica Wolf** (Roma, Italy): Magnesium-Specific Ion Channels in Chemoresistance: Is There a Role for Magnesium?

**Geert Bultynck** (Leuven, Belgium): *Ca<sup>2+</sup>-signaling modulation by anti-apoptotic Bcl-2 proteins: from molecular mechanisms towards translational avenues*

**Annarosa Arcangeli** (Florence, Italy): Targeting potassium channels to overcome chemoresistance in gastrointestinal cancers

**Selected speaker: Charlotte Dubois** (Lille, France): Apoptosis mediated by Mitochondrial Ca<sup>2+</sup> Overload Requires Inhibition of Autophagy Revealing a Widespread Vulnerability of Cancer Cells

**12:15 Lunch**

**14:00 Special social events for 30th anniversary of association « Canaux ioniques » : Boat excursion with Sète Croisières :** One hour guided tour of the fishing port, commercial port and marina, followed by a sea excursion along the rocky 'corniche' with underwater viewing. (<http://www.sete-croisieres.com/>).

**19:00 Poster Prize session**

**19:30 *Apéritif and special dinner***

**22:00 Evening Party**

## **Wednesday, September 11<sup>th</sup> 2019**

**09:30 *Oral communication session 2***

*Organized by Dimitra Gkika (Laboratoire de Physiologie Cellulaire, University of Lille, France)*

**Olivier Bignucolo** (Lausanne, Switzerland): BIOMOLECULAR MODELLING OF ACID-SENSING ION CHANNELS

**Côme Camus** (Bordeaux, France): PHOSPHORYLATION OF PSD95 AS POTENTIAL LINK BETWEEN SYNAPTIC AND STRUCTURAL PLASTICITIES

**Mathilde Folacci** (Grenoble, France): Design of light-modulated inward rectifying potassium channels

**Kerstin K. Viet** (Frankfurt am Main, Germany): Structure and Ca<sup>2+</sup> interaction of the Extracytosolic/Luminal Domain (ELD) of the human TRPML2 ion channel

**10:30 Coffee break**

**10:45 Symposium 5: “A-typical” Ion channels/currents**

*Organized by Pietro Mesirca (IGF, University of Montpellier, France)*

**Rajan Sah** (Iowa City, USA): SWELL1/LRRC8a mediated nutrient sensing.

**Arnaud Monteil** (Montpellier, France): The sodium leak channel: NALCN.

**Anna Moroni** (Milan, Italy): Engineering synthetic tools for the inhibition of cell excitability.

**Selected speaker: Mallory Ducrozet** (Lyon, France): *Role of Translocon in calcium exchanges in cell compartments and in cell death, during myocardial infarct*

**12:30 Meeting closure**

**13:15 Lunch**

**14:00 Airport shuttle departure**