

# PROGRAM Oléron 2013

## Sunday, september 15<sup>th</sup>

16:00 - 20:00 Welcome of the meeting attendees

20:15 « Oleron Oysters » cocktail

21:15 Dinner

## Monday, september 16<sup>th</sup>

**8:20 Meeting opening**

**8:30 Symposium 1. Chemical Engineering of Ion Channels**

Organized by Thomas Grutter, Illkirch

**Dennis Dougherty** (Pasadena, USA) Unnatural amino acid mutagenesis on pentameric receptors: what have we learned?

**Dirk Trauner** (München, Germany) Optochemical Genetics

**Klaus Benndorf** (Jena, Germany) Unravelling the intricate subunit cooperativity in the cAMP-induced gating of HCN2 channels

**Shixin Ye** (IBENS, Paris)\_Genetically encoding a light-switch in ionotropic glutamate receptors

**10:15 A talk from Explora Nova : Nicholas Mellen (Louisville, USA)** From the forest to the trees and back again: online Ca<sup>2+</sup> imaging analysis as a tool for linking cellular and network function.

**10:30 Coffee break**

**11:00-12:00 Oral communication 1. Nervous System Ragtime**

Organized by Julie Perroy, Montpellier

**Iulia Blesneac** (Montpellier, France) Profiling the phosphorylation status of T-type calcium channels reveals great complexity and fine regulation

**Lik-Wei Wong** (Melbourne, Australia) The N-Terminal  $\alpha$ -helix and preceding residues in homomeric  $\rho 1$  GABA<sub>C</sub> and heteromeric  $\alpha 1\beta 2\gamma 2$  GABA<sub>A</sub> receptors play an important role in receptor assembly and function.

**Damien Lemoine** (Strasbourg, France) A light-gated P2X receptor

**Simone Temporal** (Marseille, France) Neuromodulation maintains mRNA channel correlations in the stomatogastric ganglion pacemaker cell

**12:15 Wine tasting : « Pineau des charentes » of Vincent vineyard**

**13:00 Lunch**

**15:00-17:00 Poster session 1 (numéros impairs / odd numbers)**

**16:30 coffee break**

**17:00 Symposium 2. Plant ion channels and their regulation**

Organized by Christian Mazars, Toulouse

**Anne-Alienor Very** (Montpellier, France) Functional diversity of cation channels and transporters in rice

**Julian Schroeder** (La Jolla, USA) Guard Cell Ion Channels: Abscissic Acid and Calcium Signal

**Rainer Hedrich** (Würzburg, Germany) Excitement and movement in plants  
Selected speaker from abstract

**Daniel Tran** (Gif sur Yvette, France) Role in symbiosis of medicago root hair mechanosensitive msIs channels and clcs anion transporters

**18:45 break**

**19:00 Plenary lecture**

**John Wood** (London, UK) Pain pathways; modality-specific wiring and ion channels

**20:00 Dinner**

**Tuesday september 17<sup>th</sup>**

**8:45 Symposium 3. The family of Pannexin proteins: structure and functions of a new class of channels**

Organized by Carole Levenes, Paris

**Dale Laird** (London, Canada) The emergence of pannexins as a new class of channels"

**Isabelle Couillin** (Orléans, France) Role of ATP release through connexin/pannexin channels in Nlpr3 inflammasome activation

**Panagiotis Bargiotas** (Lubeck, Germany) Channel forming proteins in cerebral ischemia

**Sarah Lalisse** (Montpellier, France) Organotypic hippocampal slice cultures and microglia

**10 :30 Coffee break**

## **11:00-12 :00 Oral communication 2. Ion Channel Melting Pot**

Organized by Fabien Vanden Abeele, Villeneuve d'Ascq

**Rémi Peyronnet** (London, UK) Mechanoprotection by polycystins against apoptosis is mediated through the opening of stretch-activated K2P channels.

**Karima Habbout** (Nice, France) A novel skeletal muscle sodium channel mutation underlays congenital myasthenic syndrome.

**Michel Ronjat** (Grenoble, France) CACNB4 subunit of voltage-gated calcium channels promotes the formation of a nuclear protein platform that controls gene expression.

**Ludovic Bannwarth** (Paris, France) Gating of KIRBAC3.1 channels: structural investigation of mutants.

## **12:00-12:05 A word from Molecular devices**

## **12:15 Lunch**

## **15:00-17 :00 Poster session 2 (Numéros pairs – even numbers)**

## **15:30 – 16:30 Workshop of Molecular Devices**

## **16:30 Coffee break**

## **17:00 Symposium 4. Molecular and functional diversity of iGluRs**

Organized by David Stroebel, Paris

**Christophe Mulle** (Bordeaux, France) Activity-dependent plasticity of synaptic NMDA receptors

**Andrew Plested**, (Berlin, Germany) Glutamate receptors: fast, loose and full of surprises

**Ivet Bahar** (Pittsburg, USA) Allosteric dynamics and druggability of iGluRs N-terminal Domains: Insights from Computations

**Abdessattar Khlaifia** (Marseille, France) Presynaptic LTD in brainstem synapses involves anandamide

## **18:45 Annual meeting of the association Canaux ioniques**

## **20:15 Special Dinner « Menu Boyard »**

## **21:30 Poster and Oral communication prizes and « Mort Subite » session**

**22:30 Evening Party**

## **Wednesday, September 18<sup>th</sup>**

### **9:45 Symposium 5. Ion channels, from physiology to pathology**

Organized by Sylvain Feliciangeli, Valbonne

**Haijun Chen** (Albany, USA) Dynamic ion selectivity of K2P channels: physiology and pathophysiology

**Daniela Pietrobon** (Padova, Italy) Neuronal calcium channel dysfunction and migraine

**Stephane Hatem** (Paris, France) Up and down of potassium channels in cardiac myocytes

**Anne Baron** (Valbonne, France) Mamba toxins reveal new roles for Acid-Sensing Ion channels in pain

**11:30 Meeting closure**

**11:45 Lunch**

**13:00 Shuttle departure**



## **Erratum**

---

### **Erratum 1**

#### **Symposium 2 Plant ion channels and their regulation**

17:00 Anne-Alienor Very (Montpellier, France) Functional diversity of cation channels and transporters in rice

#### **17:30 Markus Gierth (Cologne, Germany) Potassium Channel and Transporter Proteins Involved in Nutrient Acquisition and Homeostasis**

18:00 Rainer Hedrich (Würzburg, Germany) Excitement and movement in plants

18:30 Daniel Tran (Gif sur Yvette, France) Role in symbiosis of medicago root hair mechanosensitive msIs channels and clcs anion transporters

---

### **Erratum 2**

#### **Symposium 4 Molecular and functional diversity of ionotropic glutamate receptors**

Organized by David Stroebe, Paris

17:00 Christophe Mulle (Bordeaux, France) Activity-dependent plasticity of synaptic NMDA receptors

17:30 Andrew Plested, (Berlin, Germany) Glutamate receptors: fast, loose and full of surprises

#### **18:00 Indira Shivastava (Pittsburg, USA) Structural Dynamics and Allosteric Potential in Ionotropic Glutamate Receptors.**

18:30 Abdessattar Khlaifia (Marseille, France) Presynaptic LTD in brainstem synapses involves anandamide

---

### **Erratum 3**

#### **Affiliation of S-07 Excitement and movement in plants**

Rainer Hedrich<sup>1</sup>; Felix Bemm<sup>2</sup>; Sönke Scherzer<sup>1</sup>; Elzbieta Krol<sup>1</sup>; Khaled Al-Rasheid<sup>3</sup>; Ines Kreuzer<sup>1</sup>; Erwin Neher<sup>4</sup>; Hubert Bauer<sup>1</sup>; Peter Ache<sup>1</sup>; **Geiger Dietmar**<sup>1</sup>

1: Julius-von-Sachs-Institute, University of Würzburg, Germany

---

## Sponsors

Nous remercions pour leur soutien :  
We thank for their support :

