## **PROGRAM Sète 2015**

## Sunday, September 13th 2015

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

20:30 Dinner

## Monday, September 14<sup>th</sup> 2015

8:30 Meeting opening

### 8:45 <u>Symposium 1</u>-Voltage-gated ion channels: Inactivation mechanisms

Organized by Céline Marionneau (Nantes, France)

8:45 Gordon Tomaselli (Baltimore, USA): Calcium and CaM Regulation of Na Channels – Role in Channelopathies

- *9:15* Martin Heine (Magdeburg, Germany): Surface dynamic of calcium channels tune neuronal communication.
- *9:45* Stephan Pless (Copenhagen, Denmark): Hydrogen bonds as molecular timers for potassium channel inactivation.
- **10:15** Selected speaker: Marc Gielen (Paris, France): The desensitization gate of inhibitory Cys-loop receptors.
- 10:30 Coffee break

#### 11:00-12:00 Oral Communication 1. Ion Channels from Pain to Heart

Talks selected by Aurélien Chatelier (Poitiers, France)

- 11:00Stéphane Lolignier (Clermont-Ferrand, France): The Nav1.9 Channel Is a Key<br/>Determinant of Cold Pain Sensation and Cold Allodynia.
- **11:15 Tiphaine Voisin** (Montpellier, France): A novel mouse model to study the zinc modulation of Cav3.2 T-type calcium channels in the pain pathway.
- 11:30Sophie Burel (Nantes, France): Phosphorylation of Cardiac NaV1.5 Channels at<br/>S1933 and S1984 Disrupts FGF13-Dependent Regulation of Channel Inactivation<br/>Properties.
- **11:45** Fiona Bartoli (Chatenay-Malabry, France): Cardiac specific expression of dominantnegative Orai1 channel in mice.

### 12:15 Lunch

15:00-17:00 Poster session 1

# 17:00 <u>Symposium 2</u>-Signal perception and transmission in plants: old questions-new answers

Organized by Wojciech Szponarski (Montpellier, France)

- **17:00 Richard Hilleary** (Madison, USA) : Catching the wave: Ca<sup>2+</sup> channels support long-range signaling in Arabidopsis.
- **17:30 Rob Roelfsema** (Würzburg, Germany) : Role of anion channels in regulating transpiration of plants.
- **18:00** Edward Farmer (Lausanne, Switzerland) : Long-distance signalling in wounded plants
- 18:30 Selected speaker: Manuel Nieves-Cordones (Montpellier, France) Epidermal cell turgor depends on a K<sup>+</sup> channel to regulate stomatal aperture.
- 18:45 Wine testing: A selection of wines from the Domaine du Peyronnet's cellar
- 20:00 Dinner

## Tuesday, September 15<sup>th</sup> 2015

# 8:45 <u>Symposium 3</u>-Synapse functioning, from de molecular organization to current properties

Organized by Eric Hosy (Bordeaux, France)

8:45	<b>Ryuichi Shigemoto</b> (Vienna, Austria): High resolution localization of voltage- dependent calcium channels and related proteins in CNS synapses.
9:15	Ingo Greger (Cambridge, UK): Synapse functioning, from de molecular organization to current properties.
9:45	<b>Mathieu Letellier</b> (Bordeaux, France): How to bring the right receptor to the right synapse: role of neuroligins in the specification of synapses.
10:15	<b>Selected speaker: Mélanie Cavalier</b> (Montpellier, France): Involvement of the PKA and ERK pathways in ghrelin-induced long-lasting potentiation of excitatory synaptic transmission in the CA1 area of the rat hippocampus.
10:30	Coffee break
11:00-12:00	Oral communication 2. Channels Corrections and Regulations

Talks selected by Claude Collet (Avignon, France)

**11:00** Michel Vivaudou (Grenoble, France) Novel regulation of GIRK potassium channels by  $\delta$ -opioid receptors

**11:15** Guillaume Sandoz (Nice, France) Phospholipase D2 specifically regulates TREK channels via direct interaction and local production of phosphatidic acid

**11:30** Frédéric Becq (Poitiers, France) A structure-based approach for the design of CFTRbinders for correction in cystic fibrosis

**11:45** Jean-François Quignard (Bordeaux, France) Endothelium-dependent relaxation and T-type voltage gated calcium channels in mice pulmonary artery

## 11:15

12:15 Lunch

15:00-17:00 Poster session 2

## 17:00 <u>Symposium 4</u> – TRP-athies

Organized by Jessica Sabourin (Paris, France)

17:00	<b>Stephen R Houser</b> (Philadelphia, USA): Canonical Transient Receptor Potential (TRPC) Channels Induce Pathological Hypertrophy and Depressed Contractility in the Diseased Heart.
17:30	Karel Talavera Pérez (Leuven, Belgium): TRP channels as sensors of bacterial endotoxins.
18:00	Thomas Gudermann (Munich, Germany): TRP channels in the kidney.
18:30	<b>Selected speaker: Thibaut Parpaite</b> (Bordeaux, France) Mechanical stress and TRPV4 channels: influence of cellular environment during pulmonary hypertension establishment.
18:45	Annual meeting of the Association Canaux Ioniques
19:45	Special Dinner 'Sétois'
21:30	Poster Prize
21:40	'Mort Subite' session
22:15	Evening Party

## Wednesday, September 16<sup>th</sup> 2015

9:45	Symposium 5 -Ion channels and transporters in spinal networks	
Organized by Emmanuel Deval (Nice, France)		
9:45	Anthony Dickenson (London, UK): Ion channels controlling spinal excitability.	
10:15	<b>Sandrine Bertrand</b> (Bordeaux, France): Activity-dependent plasticity in spinal motor synapses: from the myth to the reality.	
10:45	Marie-Pascale Côté (Philadelphia, USA) : Exercise improves spinal reflex recovery through an increase in KCC2 expression after SCI.	
11:15	<b>Selected speaker: Frédérique Scamps</b> (Montpellier, France) Motoneuron electrical activity, Na <sup>+</sup> /K <sup>+</sup> pump and neuromuscular junction defects in KCC3 <sup>-/-</sup> mice.	
11:30	Meeting closure	
11:45	Lunch	

13:00 Airport shuttle departure