

SUNDAY, SEPTEMBER 21ST

15:00-19:30 Welcome of the meeting attendees
19:45 Cocktail
20:15 Dinner

MONDAY, SEPTEMBER 22ND

8:30 Meeting opening

Symposium I: "RECENT ADVANCES TO EXPLORE MEMBRANE PROTEINS"

Organized by Christophe Duranton, CNRS-FRE 3093, Université de Nice Sophia-Antipolis, Nice, France.

8:45 **Valentina EMILIANI** (Paris, France) - Wave-front engineering microscopy to reproduce complex mechanical or chemical environments of living cells.
9:15 **Hermann SCHILLERS** (Münster, Germany) - Using atomic force microscopy to investigate CFTR in its native environment.
9:45 **Sergio GRINSTEIN** (Toronto, Canada) - Phospholipids, surface charge and the targeting of signaling proteins.

10:20 A word from HAMAMATSU

10:30 Coffee break

Oral Communications I: "POTASSIUM AND SODIUM CHANNELS"

Chair: Jean-Marie Frachisse, Vegetal Sciences Institute, Gif sur Yvette, France

11:00 **Tripti SHARMA** (Potsdam/Golm, Germany) - Physiological role of the K⁺ sensor in GORK (the guard cell outward rectifying K⁺ channel).
11:15 **Najate BENAMER** (Poitiers, France) - Evidence and functional impact of a new potassium channel in mouse ventricular fibroblasts.
11:30 **Anna BRACHET** (Marseille, France) - Role of ankyrin G in the restriction of sodium channel surface diffusion at the initial segment.
11:45 **Nathalie HAREN** (Amiens, France) - Expression of the hIKCa1 channel in breast adenocarcinomas: correlation with the grade and metastasis status.

12:30 Lunch

15:00-17:00 POSTERS SESSION I (numéros impairs - odd numbers)

Symposium II: "EPITHELIAL ION CHANNELS"

Organized by Stephan Kellenberger, Dpt. de Pharmacologie et de Toxicologie UNIL, Lausanne, Suisse.

17:00 **Paul WELLING** (Baltimore, USA) - How Kir channels find their way in Membrane Traffic.
17:30 **Joost HOENDEROP** (Nijmegen, The Netherlands) - 'Ins and Outs' of TRPV5 channel regulation.
18:00 **Lawrence PALMER** (New York, USA) - Epithelial Na⁺ Channels and their Regulation.
18:30 **Heidi FODSTAD** (Lausanne, Suisse) - Potassium secretion by cortical collecting duct (CCD) cells: effects of mineralocorticoid on ROMK expression and K⁺ secretion in a CCD cell line.

18:45 ANNUAL MEETING of the "Association Canaux Ioniques"

20:30 Dinner

21:30 "Out of frame" conference

"MOLECULAR GASTRONOMY: THE SCIENCE BEHIND COOKING AND EATING"

Christophe Lavelle (Institut Curie, Paris, France)

Chair: Hélène HIRBEC (Montpellier, France).

Symposium III: "DYNAMIC REGULATION OF ION CHANNEL TRAFFICKING"

Organized by Delphine Bichet, IPMC CNRS-UNSA UMR 6097, Valbonne-Sophia Antipolis, France

- 9:00 Lily JAN (San Francisco, USA) - Potassium channel traffic regulation.
9:30 **Bénédicte DARGENT** (Marseille, France) - Organizing ion channels at the axonal initial segment and in the nodes of Ranvier.
10:00 **Daniel CHOQUET** (Bordeaux, France) - A new function for AMPA receptor lateral diffusion in fast synaptic transmission.
10:30 **Hamed NAZZARI** (Vancouver, Canada) - N-linked glycosylation and its role in pacemaker channel regulation.

10:55 **Coffee break**

Oral Communications II: "CHANNELS IN MUSCLE AND CANCER"

Chair: Alexandre Mezghrani, IGF CNRS UMR 5203, Montpellier, France

- 11:15 **Yassine EL HIANI** (Amiens, France) - The calcium sensing receptor (CaR) transduction pathways through TRPC1 cation channel activation in MCF-7 human breast cancer cells.
11:30 **Sébastien ROGER** (Tours, France) - Functionality of P2X7 receptors in human breast cancer cells: involvement in SK3-dependent cell migration and in cathepsin-mediated invasiveness.
11:45 **Jean-Luc MOREL** (Talence, France) - Function of two RYR3 splice variants in duodenum myocytes.
12:00 **Eric ESTEVE** (Bordeaux, France) - Slow DHPR Inactivation in malignant hyperthermia (R163C) myotubes

12:30 **Lunch**

15:00-17:00 **POSTERS SESSION II (numéros pairs - even numbers)**

Symposium IV: "ION CHANNELS IN CELLULAR INTERACTIONS"

Organized by Lauriane Ulmann, Montpellier, France.

- 17:00 **Sylvia COHEN-KAMINSKY** (Lille, France) - Glutamate signaling at the immunological synapse.
17:30 **Andrea VOLTERRA** (Lausanne, Switzerland) - Astrocyte-mediated synaptic strengthening in situ requires TNF-alpha and presynaptic NMDA receptors.
18:00 **Richard ROBITAILLE** (Montréal, Canada) - Glia-neuron interactions: glial cells govern synaptic plasticity.
18:30 **Abdoulaye SENE** (Paris, France) - KIR4.1 and AQP4 channels clustering in a retinal detachment mouse model.

19:30 **Dinner**

21:00 **"MORT SUBITE" SESSION**

Symposium V : "ION CHANNELS AND DISEASES"

Organized by Fabien Van Coppenolle, INSERM U800, Villeneuve d'Ascq, France.

- 9:00 Ilya BEZPROZVANNY (Dallas, USA) - Presenilins function as ER calcium leak channels: implications for AD.
- 9:30 Veit FLOCKERZI (Hamburg, Germany) - TRPCs in smooth muscle.
- 10:00 René BINDELS (Nijmegen, Netherlands) - The epithelial Mg²⁺ channel TRPM6 and inherited Mg²⁺ disorders.
- 10:30 Saïd BENDAHHOU (Nice, France) - Role of the Kir2.1 potassium channel in skeletal muscle excitability.

10:45 Coffee Break

Oral Communications III: "CHANNELS IN BRAIN AND SENSORY NEURONS"

Chair: Eric Lingueglia, IPMC CNRS-UNSA UMR 6097, Valbonne-Sophia Antipolis, France

- 11:00 Loyal SALIBA (Marseille, France) - Synaptic and electrical properties of nucleus tractus solitarii neurons are target specific.
- 11:15 Mathieu BOUDES (Montpellier, France) - Bestrophin-1 is required for Ca²⁺-activated Cl⁻ current expression in axotomized neurons and promotes regenerative growth.
- 11:30 François David (Paris, France) - Dynamical effects of the T current potentiation upon the oscillatory activity of the thalamocortical neurons associated to sleep.

11:45 Meeting closure

12:30 Lunch