



Presqu'île de Giens
17-20 septembre 2006

<http://congres.igh.cnrs.fr/canaux-ioniques/>

Program of the 17th « Ion Channel » meeting

Sunday, September 17

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

Monday, September 18

- 8:15: Meeting opening

Symposium I: Ionic channel folding and Early trafficking.

Chair : Jean Merot, INSERM U533, Nantes.

- 8:30 **Martin Spiess** (Switzerland) "Topogenesis of membrane proteins at the Sec61 translocon"
- 9:00 **Nobuyuki Uozumi** (Japan) "Membrane topogenesis of voltage dependent K⁺ channels"
- 9:30 **Blanche Schwappach** (Germany) "Role of 14-3-3 proteins in the trafficking of KATP channels and beyond"
- 10:00 **Jean Revilloud** (France) "In search of the SUR domains mediating association and modulation between the SUR and Kir6.2 subunits of the KATP channel"
- 10:15 A word from Zeiss and Hamamatsu
- 10:30 Coffee Break

Oral communications I (Pain, Inflammation, Immune system)

Chair : Halima Ouadid-Ahidouch, Faculté des sciences, Amiens

- 11:00 **Hong-Lei Huang** (UK) "Screening for proteomic changes associated with neuroma formation"
- 11:15 **Laurianne Ulmann** (France) "Reduced inflammatory and neuropathic pain in P2X4 receptor deficient mice"
- 11:30 **Olivier Dellis** (UK) "Calcium entry through plasma membrane Inositol 1,4,5-triphosphate receptors (IP3R)"
- 11:45 **Valia Verrière** (France) "LXA4 effect on intracellular Ca²⁺, Cl⁻ secretion and IL-8 production in normal and CF airway epithelium"
- 12:30 Lunch
- 14:00 – 17:00 Posters Session I (odd numbers)

Symposium II : Voltage-dependent calcium channels : from structure to function.

Chair : Christophe Arnoult, INSERM U607, CEA, Grenoble.

- 17:00 **Dan Minor** (USA) "Ion channels in pieces: structural dissection of voltage-gated calcium channel function"
- 17:30 **Bernhard Flucher** (Austria) "The functions of auxiliary calcium channel subunits"
- 18:00 **Emmanuel Bourinet** (France) "Targeting T-type calcium channel for the treatment of pain"
- 18:30 **Jean-Louis Bossu** (France) "Deletion of P/Q channels affects the spontaneous synaptic activity recorded in Purkinje cells from the mouse cerebellar cortex in organotypic slice cultures"
- 18:45 Annual meeting of the "Association Canaux Ioniques"
- 19:30 Pre-dinner drinks on the beach offered by DIPSI
- 20:30 Dinner

Tuesday, September 19

Oral communications II (Breaking news)

Chair : Michel Roux, INSERM U592, Illkirch.

- 9 :00 **Robert Kirby** (UK) “Identification of a series of novel N-aryl-benzamide compounds as BKCa Channel Openers”
- 9:15 **Fabrice Duprat** (France) “Regulation of the resting K⁺ conductance TASK-3 in cerebellar granule neurons”
- 9:30 **Dominique Chesnoy-Marchais** (France) “Estradiol modulates spontaneous glycinergic synaptic inhibition of hypoglossal motoneurons”
- 9:45 **Mateo Velez** (France) “Functional nicotinic receptors expressed by hippocampal astrocytes”
- 10:00 A word from Microm Microtech, Bracer-Biotech, and Flyion
- 10:20 Coffee break

Symposium III : Ion channels, membrane lipids and microdomains.

Chair : Christine Berthier, CNRS UMR5123, Lyon.

- 10:45 **Irena Levitan** (USA). “Cholesterol-induced silencing of inwardly rectifying K channels in mature and progenitor endothelial cells”
- 11:15 **Nathalie Macrez** (France). “Regulation of Ca²⁺ channels by phosphatidylinositol 3,4,5-trisphosphate (PIP3) and PI3 kinases”
- 11:45 **Indu S. Ambudkar** (USA). “Role of Ca²⁺ signaling microdomains in the assembly and regulation of TRPC channels”
- 12:30 Lunch
- 14:00 – 17:00 Posters Session II (even numbers)

Symposium IV : Synergy between electrophysiology and computer models.

Chair: Gildas Loussouarn, INSERM U533, Nantes.

- 17:00 **Colin Nichols** (USA) “Inward rectification: Tightening up Long-Pore Plugging”

- 17:30 **Mark Boyett** (UK) "The sinoatrial and atrioventricular nodes: synergy between electrophysiology and computer integrative models"
- 18:00 **Peter Bond** (UK) "Ion channel interactions with lipids: simulation studies"
- 18:30 **Turgut Bastug** (Australia) "Energetics of K⁺ ion conduction through the Shaker potassium channel"
- 19:30 Dinner
- 21:00 "Mort Subite" session

Wednesday, September 20

Oral communications III (Plants and Insects)

Chair : Sabine Zimmermann, CNRS UMR5003, Montpellier

- 9 :30 **Christian Legros** (France). "Characterization of two transcripts encoding distinct putative voltage-gated sodium channels in insect neuro-secretory cells"
- 9 :45 **Jean-Marie Frachisse** (France). "The rapid-type anion channel of *Arabidopsis thaliana* is an essential element of early cell defence response"
- 10:00 **Fabien Dalmas** (France). "Toward the molecular identification of guard cell's anion channel in *Arabidopsis thaliana*."
- 10:15 **Ingo Dreyer** (Germany). "Computational simulation of the unique regulation of the plant K⁺ channel AKT2 in a cellular context - K⁺ as an energy source for sugar transport? "
- 10:30 Coffee Break

Symposium V : Glutamate receptors: from bench to clinics.

Chair : Hélène Hirbec, INSERM U583, Montpellier.

- 10:45 **Pau Gorostiza** (Spain) "Nanoengineering ionotropic glutamate receptors for remote control of neuronal activity with light"
- 11:00 **Ed Ziff** (USA). "Protein Interactions and the Trafficking of AMPA Receptors"

- 11:30 **Kumlesh Dev** (Switzerland). "PICK1 and Glutamate Receptors: a love story"
- 12:00 **Robert Fern** (UK). "New ionic conductances in old places: calcium channels and glutamate receptors in white matter and their role in injury."
- 12:30 Meeting closure
- 12:45 Lunch