

~~Canaux Ioniques d'intérêt
thérapeutique~~

SUNDAY, SEPTEMBER 23rd

- 15:00-19:30 Welcome of the meeting attendees
Bus: Toulon TGV station at 17:30 and airport at 18:00
- 19:30 Cocktail
- 20:15 Dinner

MONDAY, SEPTEMBER 24th

- 8:20 Meeting opening

Symposium I. FROM STRUCTURE TO FUNCTION: ION CHANNELS AT THE ATOMIC LEVEL

Organized by Thomas Boulin, Paris

- 8:30 **P-J. Corringer (Paris, France)** Allosteric mechanisms and regulation by general anesthetics of pentameric channel receptors.
- 9:00 **J. Payandeh (San Francisco, USA)** Structural insights into voltage-gated sodium channels.
- 9:30 **M. Leonetti (New York, USA)** Structures of cytoplasmic domains from the SLO (BK) family of K⁺ channels: mechanisms of intracellular activation.
- 10:00 **C. Vénien-Bryan (Paris, France)** X-ray crystal structure of a KirBac potassium channel in the open state highlights a mechanism of channel opening.

- 10:30 Coffee break

Oral Communications I. NERVOUS SYSTEM RAGTIME

Organized by Laurent Groc, Bordeaux

- 11:00 **K. Abdessattar (Marseille, France)** Presynaptic long-term depression at an excitatory brainstem synapse.
- 11:15 **M. Balia (Paris, France)** Post-natal down-regulation of the $\gamma 2$ subunit of GABA_A receptors in NG2 cells accompanies changes in GABAergic transmission mode.
- 11:30 **H. Hirbec (Montpellier, France)** Contribution of P2X₄ to transcriptional remodelling in an experimental mouse model of epilepsy.
- 11:45 **M. Desarménien (Montpellier, France)** Vasopressin depresses long-term potentiation in the mouse hippocampus.

- 12:00 A Word from eDAQ Europe
- 12:15 Lunch

PROGRAM

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

16:00-17:00 Workshop eDAQ Europe

16:30 Coffee Break

Symposium II. MOLECULAR MECHANISMS THAT CONTROL SYNAPTIC TRANSMISSION & PLASTICITY

Organized by Julie Perroy, Montpellier

17:00 **M. Di Luca (Milano, Italy)** A novel partner for GluN2A containing NMDA receptors, Rnf10: a spine to nucleus signal.

17:30 **C. Levenes (Paris, France)** The metabotropic glutamate receptor mGluR1 holds the key to the orphan GluRdelta2 receptors.

18:00 **E. Gundelfinger (Magdeburg, Germany)** Role of the presynaptic cytomatrix in localizing calcium channels at the active zone.

18:30 **J. Dupuis (Bordeaux, France)** Lateral crosstalk between surface dopamine and NMDA receptors regulates synaptic plasticity in hippocampal neurons.

18:45 Break

19:00 PLENARY LECTURE.

V. Lennon (Rochester, USA) Aquaporin-4 Autoimmunity: A Channelopathy of Astrocytic Synapses.

20:00 Dinner

TUESDAY, SEPTEMBER 25th

Symposium III. FUNCTION OF P2X RECEPTORS IN HEALTH AND DISEASE

Organized by Eric Boué-Grabot, Bordeaux

8:45 **P. Séguéla (Montreal, Canada)** Molecular basis for regulation of P2X receptor channels by phospholipids in pain pathways.

9:15 **I. Sarto-Jackson (Vienna, Austria)** Regulation of GABA_A receptor dynamics by interaction with purinergic P2X₂ receptors.

9:45 **P. Pelegrin (Murcia, Spain)** P2X₇ receptors in inflammation and cancer.

10:15 **T. Grutter (Illkirch, France)** Structure and Function of P2X receptors.

10:45 Coffee break

PROGRAM

Oral Communications II. ION CHANNEL MELTING POT

Organized by Massimo Mantegazza, Valbonne

11:15 K. Niescierowicz (Grenoble, France) Investigation of the K_{ATP} channel gates controlled by regulatory membrane proteins.

11:30 I. Rothenberg (Bochum, Germany) KCNQ1 regulation by PIKfyve under the influence of its beta subunit KCNE1.

11:45 C. Legros (Angers, France) Intron retention in mRNA encoding ancillary subunit of para-like voltage-gated sodium channel: biophysical and pharmacological consequences.

12:00 A. Delaunay (Valbonne, France) Human ASIC3 is a dynamic sensor of extracellular acidification, recovery from acidification and alkalization.

12:30 Lunch

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

16:30 Coffee Break

Symposium IV. ZINC IN PHYSIOLOGY AND PATHOLOGY OF ION CHANNELS

Organized by Fabien Vanden-Abeele, Villeneuve d'Ascq

17:00 P. Paoletti (Paris, France) Mechanism and function of zinc action on NMDA receptors.

17:30 A. Bouron (Grenoble, France) Roles of TRPC5 channels in the transport and storage of Zinc ions.

18:00 J. Oberwinkler (Marburg, Germany) TRPM3, TRPM1 and zinc.

18:30 G. Bidaux (Villeneuve d'Ascq, France) Cold receptor TRPM8 channel regulates skin homeostasis by modulating mitochondrial calcium-dependent ATP and ROS synthesis.

18:45 ANNUAL MEETING of the “Association Canaux Ioniques”

20:15 Dinner

21:00-21:15 Poster Prizes

21:15 “MORT SUBITE” SESSION and EVENING PARTY

WEDNESDAY, SEPTEMBER 26th

Symposium V. SHEDDING A NEW LIGHT ON ION CHANNELS AND RECEPTORS

Organized by Guillaume Sandoz, Valbonne

9:45 Y. De Koninck (Québec, Canada) An optogenetic strategy to resolve intrinsic membrane properties non-invasively from single cells *in vivo*.

10:15 M. Ulbrich (Freiburg, Germany) Single molecule observations of membrane proteins and their interactions in living cells.

10:45 S. Charpak (Paris, France) Two-photon imaging of neuronal activity.

11:15 L. Mony (Berkeley, USA) Role of the S1 transmembrane segment in the gating and cooperativity of the Hv1 proton channel.

PROGRAM

- 12.00** Oral communication Prize
- 12:10** Meeting closure
- 12:20** Lunch
- 13:45** Bus: airport at 14:00 and TGV station at 14:45

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