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22nd Ion Channel Meeting Official Program (2011)

SUNDAY, SEPTEMBER 25TH

15:00-19:30 Welcome of the meeting attendees

19:30 Cocktail

20:15 Dinner

MONDAY, SEPTEMBER 26TH

8:20 Meeting opening

Symposium I: REGULATIONS of ION CHANNELS by the EXTRACELLULAR MATRIX

Organized by Sabine LEVI, Paris

8:30 The extracellular matrix and L-type Ca²⁺ channel-dependent synaptic plasticity.

A. Dityatev (Genova, Italy)

9:00 Effect of the extracellular matrix of the brain on surface trafficking of postsynaptic glutamate receptors.

R. Frischknecht (Leibniz, Germany)

9:30 Functional interaction between integrins and potassium channels in tumor cells.

A. Arcangeli (Florence, Italy)

10:00 Sigma 1 receptor regulates HERG channels through a post-translational mechanism in leukemic cells.

D. Crottès (Nice, France)

10:15 **A word from Nanion Technologies: "Automated Patch-clamp, from organelles to primary cells, from single channels to action potentials"** M. Kreir

10:30 Coffee break

Oral Communications I: MELTING POT

Chair: Mallorie POET, Nice

11:00 Cl⁻ transporting mechanisms in gastric acid secretion.

H. Sakai (Toyama, Japan)

11:15 Proteomic analysis of the drosophila CRAC channel signalling complex in the resting and active state.

A. Penna (Rennes, France)

11:30 A second target for pharmacological agents acting on the GABAB receptor: Interactions with the CXCR4 chemokine receptor.

A. Guyon (Valbonne, France)

11:45 The size and magnitude of the coupling between ligand binding and channel gating in receptor-channel fusion proteins is controlled by the length of the linker.

A. Estrada (Grenoble, France)

12:30 Lunch

15:00–17:00 **POSTERS Session I (numéros impairs - odd numbers)**

16:30 Coffee Break

Symposium II : DIRECT CROSS-TALK BETWEEN ION CHANNELS and receptors: JUST A KISS?

Organized by Laurent GROG, Bordeaux

17:00 Multiple functions of D1-NMDA receptor complex.

F. Liu (Toronto, Canada)

17:30 Determination of the architecture of receptors and ion channels using AFM imaging.

J.M. Edwardson (Cambridge, UK)

18:00 Remodeling of scaffold interactions in space and time controls synaptic transmission.

J. Perroy (Montpellier, France)

18:30 Allosteric modulation of an ionotropic acetylcholine receptor by a novel transmembrane protein.

T. Boulin (Paris, France)

18:45 Break

19:00 Plenary lecture:

CHANNELOPATHIES of SKELETAL MUSCLE. K. Jurkat-Rott (Ulm, Germany)

20:00 Dinner

TUESDAY, SEPTEMBER 27TH

Symposium III: ION CHANNELS DISTRIBUTION and LOCALIZED CELLULAR DOMAINS

Organized by Massimo MANTEGAZZA, Valbonne

8:45 Ion channels and dendritic pathophysiology.

H. Beck (Bonn, Germany)

9:15 Localization of ion channels in the axon initial segment.

B Dargent (Marseille, FR)

9:45 Distinct macromolecular complexes determine membrane localization of sodium channels Nav1.5 in cardiac cells.

H. Abriel (Bern, Switzerland)

10:15 Through its ability to target nucleosome remodelling, $\beta 4$, a subunit of voltage-dependent calcium channels, regulates the expression of the tyrosine hydroxylase gene.

K. Fablet (Grenoble, France)

10:30 a word from Andor Technology "Mosaic : a DMD-based optical device. Principle and applications in Optogenetics and ionic channels." JM. Laurent.

10:45 Coffee break

Oral Communications II: NEURONAL COCKTAIL

Chaired by: Desdemona FRICKER, Paris

11:15 Intracellular recordings of hippocampal place and silent cells in freely moving rats.

J. Epszstein (Marseille, France)

11:30 Analysis of missense variants in the tress K^+ channel linked with common migraine.

I. Andres-Enguix (Oxford, UK)

11:45 Optical silencing of neurons targeted with an ion channel photoswitch.

A. Mourot (Berkeley, USA)

12:00 Subunit replacement with a photoswitchable TREK1 channel reveals a role in hippocampal GABAB signalling.

G. Sandoz (Valbonne, France)

12:15 A word from Zeiss "Imagerie ionique de la microscopie champ large aux confocal." F. Schmitt.

12:30 Lunch

15:00–17:00 Posters Session II (numéros pairs - even numbers)

16:00-17:00 Workshop of Nanion Technologies

16:30 Coffee Break

Symposium IV: EVOLUTION and ADAPTABILITY of MEMBRANE EXCITABILITY

Organized by Jean-Marc GOAILLARD, Marseille

17:00 Presynaptic AP implementation: from cost optimization to optimized K^+ channels.

H. Alle (Berlin, Germany)

17:30 The Effect of Ion Channels on Efficiency of Neural Information Processing.

J. Niven (Cambridge, UK)

18:00 Regulatory Evolution in Electrophysiological Systems.

D. McKinnon (New York, USA)

18:30 Deciphering the ion channels underlying electrical signalling in plants.

T.A. Cuin (Montpellier, France)

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

20:15 Dinner

21:00 "Mort Subite" Session

WEDNESDAY, SEPTEMBER 28TH**Symposium V: ION CHANNELS in CELL LIFE and DEATH***Organized by Fabrice MATIFAT, Amiens***9:45 TRP channels in cell proliferation.****N. Prevarskaya (Lille, France)****10:15 Mitochondrial ion channels in apoptosis.****K. Kinnally (New York, USA)****10:45 IP3R in the control of cell apoptosis and autophagy.****J.B. Parys (Leuven, Belgium)****11:15 Nuclear calcium controls D-erythro-sphinganine-induced Programmed Cell Death in tobacco cells****C. Mazars (Toulouse, France)****11:45 A Ca^{2+} -mediated feedback loop in the apoptotic signal CD95.****N. Khadra (Rennes, France)**

12.00: Meeting closure

12:15 Lunch

13:15 *Navette / Shuttle*

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