SUNDAY, SEPTEMBER 20TH

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

19:45 Cocktail 20:15 Dinner

MONDAY, SEPTEMBER 215T

8:30 Meeting opening

Symposic	m I: "NEURONS, ION CHANNELS AND HUMAN DISORDERS"				
Organize	ed by Sophie Nicole, UPMC, UMR_S975, Université Pierre et Marie Curie, Paris, France				
8:45	Philippe MARAMBAUD (Manhasset, USA) - CALHM1 in the Pathogenesis of Alzheimer's Disease				
9:15 Jean-Christophe PONCER (Paris, France) - Functional impact of GABAA R2 nassociated with idiopathic generalized epilepsy syndromes.					
9:45	Steven N TREISTMAN (San Juan, Porto Rico) - The BK Channel: Mediator and Model f Alcohol Tolerance.				
10:15	Jacques BARHANIN (Nice, France)-TASK2 potassium channels set central respiratory CO_2 and O_2 sensitivity.				
10:35	A word from Thermofisher				
10.45	Coffee brook				

10:45 Coffee break

Oral Communications I: "EXPLORING SODIUM AND CALCIUM CHANNELS"

Chair: Christian Legros, RCIM UPRES EA 2647/ USC INRA 2023 Angers, Université d'Angers, France

- 11:15 Ly, R. (Paris, France). Activation of the T-type calcium channels at the Purkinje cell by simulated synaptic events.
- **Jones**, C (Canbridge, UK) Development of a medium-throughput electrophysiology assay to investigate state-dependency of sodium channel blockers using apatch.
- 11:45 Gillet, L. (Tours, France) Docosahexaenoic acid reduces breast cancer cells invasiveness by regulating voltage-gated sodium channels activity.
- 12:30 Lunch
- 15:00-17:00 POSTER SESSION I (numéros impairs odd numbers)

Symposium II: "INTRACELLULAR ION CHANNELS"

Organized by Jean-Luc Morel, CNIC, UMR 5228 CNRS, Université de Bordeaux I, Talence, France

- 17:00 Andreas GUSE (Hamburg, Germany) Complexity of calcium signaling in T-lymphocyte engaging cADPr , NAADP and IP3 pathways
- 17:30 Antony GALIONE (Oxford, UK) NAADP receptor, function, regulation and pharmacology.
- **18:00** Paul ALLEN (Boston, USA) Regulation of RYR1 in physiology and physiopathology.
- 18:30 Olivier PICHON (Tours, France) Interplay between hypothetic RyR and IP3R calcium channels regulates the auxin-dependent secondary metabolism in Plant cells.
- 18:45 ANNUAL MEETING of the "Association Canaux Ioniques"
- 20:30 Dinner

21:15 Special lecture

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

William CATTERALL (Seattle, USA)

"ION CHANNELS, ELECTRICAL SIGNALING, AND NEUROPLASTICITY"

TUESDAY, SEPTEMBER 22ND

Symposium III: "ROLE OF ION CHANNELS IN PLANTS"

Organized by Anne-Aliénor Véry, BPMP, UMR5004, Montpellier, France

- 9:00 Patrick FAVRE (Fribourg, Switzerland) Electric signaling in plants.
- 9:30 Giles OLDROYD (Norwich, UK) Differential calcium oscillations during symbiosis signalling of legumes.
- 10:00 Dominique ROBY (Toulouse, France) Cyclic nucleotide-gated cation channels and the control of the hypersensitive cell death in Arabidopsis thaliana.
- 10:30 Erwan MICHARD (Oeiras, Portugal) GLR's and D-serine modulate the Ca2+ signature and growth of pollen tubes.

10:45 Coffee break

Oral Communications II: "CARDIAC ION CHANNELS AND THEIR DIVERSITY"

Chair: Fabien Van Coppenolle, CNRS-UMR 5123, Université Lyon I, Villeurbanne, France

- 11:15 AMAROUCH, MY. (Nantes, France) Mutation of cardiac Nav1.5 in a novel autosomal dominant cardiac arrhythmia of hisian type and associated with dilated cardiomyopathy.
- 11:30 KRZYSTANEK, K. (Copenhagen, Denmark). Regulation of the cardiac IKs channel complex by ubiquitylation and de-ubiquitylation.
- 11:45 KRUSE, M. (Hamburg, Germany)- Impaired endocytosis of TRPM4 channel associated with isolated cardiac conduction disorders.
- 12:00 GUSEV, K. (Bern, Switzerland) AMPK -dependent regulation of voltage-gated sodium channels in cardiomyocytes.

12:30 Lunch

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

Symposium IV: "BREAKING NEWS" IN ION CHANNELS"

Organized by Sébastien Roger, INSERM U921, Université de Tours, Tours, France

- 17:00 Thomas VOETS (Leuven, Belgium) New advances in Thermoregulated TRP channels.
- 17:30 Luis GALIETTA (Genova, Italy) TMEM16A, a membrane protein associated with calcium-dependent chloride channel activity.
- **18:00** Alan NORTH (Manchester, UK) Identification and physiological role of P2X receptors in single-celled eukaryote.
- **18:30 Jacques NOEL** (Sophia-Antipolis, France) The background K+ channels TRAAK and TREK-1 control both warm and cold perception.

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

- 19:30 Dinner
- 21:00 "MORT SUBITE" SESSION

WEDNESDAY, SEPTEMBER 23RD

Symposium V: "POST-TRANSCRIPTIONAL MODIFICATIONS OF ION CHANNELS AND PROTEIN INTERACTION"

Organized by Hélène Vacher, INSERM UMR 641, IFR Jean Roche, Marseille, France

- 9:00 James S TRIMMER (Davis, USA) Phosphorylation of Kv channels.
- 9:30 Daniela ROTIN (Toronto, Canada) Role of the Nedd4 family of ubiquitin ligases in regulating ENac and other proteins.
- 10:00 Stefan GRÜNDER (Aachen, Germany) Glycosylation of specific asparagine residues is necessary for the surface expression of acid-sensing ion channel (ASIC) 1b.

10:30 Coffee Break

Oral Communications III: "IONS CHANNELS: FROM STRUCTURE TO FUNCTION"

Chair: Christophe Duranton, CNRS-FRE3093, TIANP, Nice, France.

- 11:00 SINTRA GRILO, L. (Lausane, Suisse) Stereoselective block of hERG1 channel by bupivacaine scrutinized at molecular level.
- 11:15 CORRINGER, PJ (Paris, France) X-ray structure of bacterial Cys-loop receptor-channels: structural basis of allosteric mechanism.
- 11:30 TAKEDA A.-N. (Lausanne, Suisse) Structure and Function of the Cytosolic N-terminus of ASIC1a
- 11:45 Meeting closure
- 12:30 Lunch