

# SCIENTIFIC COMMITTEE SEMESTRAL MEETING

ELCHE 2-3 JULY 2009

## AGENDA

Thursday, July 2<sup>nd</sup>

10:00 Welcome

### Ion Channel Physiology and Pathology

Chairman: **Pilar de la Peña**

- 10:15 Rosa Planells (CIPF, Valencia) **“TRPV1 receptor modulation by two cytosolic proteins.”**
- 10:30 Dhruba Chowdhury (CIMA, Pamplona) **“Molecular mechanisms of internalization of NR3A subunit of the NMDAR family”**
- 10:45 Rafael Luján (Univ. Castilla la Mancha, Albacete) **“Subcellular compartment-specific molecular diversity of pre- and postsynaptic GABAB-activated GIRK channels in the cerebellum”**
- 11:00 Antonio Felipe (Univ. Barcelona, Barcelona) **“Oligomeric composition of the channelosome and cancer”**
- 11:15 Coffee Break
- 11:45 Antonio Rodríguez Artalejo (Univ. Complutense Madrid, Madrid) **“Ionotropic purinergic receptors and the control of exocytosis and secretory vesicle dynamics in N2a cells”**
- 12:00 M<sup>a</sup> Teresa Miras Portugal (Univ. Complutense Madrid, Madrid) **“Role of nucleotide receptor -P2X7- in the control of Axonal growth.”**
- 12:15 Vicente Felipo (CIPF, Valencia) **“Hyperammonemia increases gabaergic tone in cerebellum but decreases it in cerebral cortex. Role in cognitive impairment in hepatic encephalopathy. Therapeutic implications”**

12:30 Javier Rodríguez (CIPF, Valencia) **“Gap junctional coupling and patterns of Connexin expression after spinal cord injury”**

12:45 Luis Barrio (Hosp. Ramón y Cajal, Madrid) **“Physiological and pathogenic role of wild-type and disease-related mutants of connexins”**

### **Ion Channel Function**

Chairman: **Rosa Planells**

13:00 José M. Gonzalez Ros (IBMC-UMH, Elche) **“From Lipid-protein interactions to drug design. Is there a way?”**

13:15 Álvaro Villarroel (Unidad Biofísica, UPV/EHU-CSIC, Leioa) **“Regulation of kcnq2 potassium channels er exit by calmodulin”**

13:30 Diego Álvarez de la Rosa (Univ. La Laguna, Tenerife) **“Translational regulation of epithelial sodium channel expression”**

13:45 Francisco Ciruela (Univ. Barcelona, Barcelona) **“Evidence for oligomerization between GABAB receptors and GIRK channels containing the GIRK1 and GIRK3 subunits”**

14:00 Andrés Morales (Univ. Alicante, Alicante) **“Dissecting lidocaine inhibitory actions on Nachrs by using structural analogs of lidocaine’s hydrophilic and hydrophobic moieties”**

14:15 Lunch

15:45 Manuel Criado (INA, UMH-CSIC, Alicante) **“Structural and functional importance of loops linking different b-sheets of the extracellular region of neuronal nicotinic receptors.”**

16:00 Pilar de la Peña (Univ. Oviedo, Oviedo) **“Architecture and regulation of h-ERG potassium channel”**

16:15 José Antonio Lamas (Univ. Vigo, Vigo) **“TREK (K2P) potassium channels in sympathetic neurones”**

### **Ion Channel Structure**

Chairman: **Enrique Pérez Payá**

- 16:30 Diego Guerín (Unidad Biofísica, UPV/EHU-CSIC, Leioa) "**Preliminary Potassium Channel crystallization assays: wtKcsA (*S. lividans*); the 1-125 transmembrane portion with a single mutation L90C; and the L5,12R mutant**".
- 16:45 Gregorio Fernández (IBMC-UMH, Elche) "**Structural analysis of Snapin: an ion Channel interacting protein**"
- 17:00 Alfonso Martínez de la Cruz (BioGUNE, Derio) "**CBS domain containing proteins. Molecular Mechanisms and Biological Function**"
- 17:15 Oscar Millet (BioGUNE, Derio)"**NMR mapping of calmodulin interactions to ionic channels**"
- 17:30 Coffee Break

### **Ion Channel Drug Discovery**

Chairman: **José Manuel González Ros**

- 18:00 Enrique Pérez Payá (CIPE, Valencia) "**Modulating protein-protein interactions in apoptosis: consequences for mitochondrial transition to permeability**"
- 18:15 Rosario González Muñiz (IQM, CSIC, Madrid) "**Medicinal Chemistry Strategies to Identify New Ion Channel Modulators**"
- 18:30 Àngel Messeguer (CID, CSIC, Barcelona) "**Chemical libraries for hit identification and chemical modulation addressed to lead selection**"
- 18:45 Ricardo Borges (Univ. La Laguna, Tenerife) "**Exocytosis and drug discovery**"
- 19:00 Antonio Ferrer Montiel (IBMC-UMH, Elche) "**Identification of Ion channel modulators using HTS assays**"
- 19:15 General Discussion
- 21:30 Dinner

**Friday, July 3rd.**

**GENERAL ASSEMBLY OF SCIENTIFIC COMMITTEE WITH  
SCIENTIFIC ADVISORY BOARD**

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| 10:00 | Opening of the Assembly   |
| 10:05 | Approval of Kick off meeting minutes  |
| 10:10 | Coordinator Report (ESC and TC meeting, Consortium Internal Rules Agreement and others) |
| 11:00 | Approval of “Consortium Internal Rules Agreement”                                       |
| 11:05 | Project Manager Report (Web, and others)  |
| 11:35 | Coffee Break  |
| 12:00 | Comments and Recommendations of Scientific Advisory Board                               |
| 13:15 | Semester milestones   |
| 13:30 | Comments and questions  |
| 13:45 | Closing remarks   |
| 14:00 | Lunch and farewell  |