

Saturday, October 22nd

9:30-11:30 **Session IV. Ion Channel drug discovery**
Chairman: Angel Messeguer (IQAC- Barcelona)

Speakers:

- **M^a Jesús Pérez de Vega** (IQM- Madrid) "*Chalcones and Chalconoids: New Allosteric Modulators of the $\alpha 7$ Nicotinic Acetylcholine Receptor ($\alpha 7$ nAChR)*"
- **Ricardo Borges** (Univ. La Laguna-Tenerife) "*The vesicular transporter of nucleotides its role in the accumulation of neurotransmitters.*"
- **Antonio Rodríguez Artalejo** (Univ. Complutense Madrid) "*Alpha 2 adrenergic and P2X3 receptors from adrenomedullary chromaffin cells as novel targets for the treatment of neuropathic pain*"
- **Andrés Morales** (Univ. Alicante) "*Deciphering the complex modulation of nAChRs by local anesthetics: looking for modulating binding sites*"

11:30-12:00 **Poster session and coffee break**

12:00-13:00 **Keynote Lecture:**
Juan Tamargo (Univ. Complutense Madrid)
"Translational Research on Cardiac arrhythmias secondary to Channelopathies (The ITACA Consortium)"

13:00-13:30 **Concluding remarks and farewell**

13:30-14:00 **SICI Network meeting**

14:00-15:00 **Lunch**

Organized by:



Organizing contact: Ms . Raquel Jorquera (rjorquera@umh.es)

RED DE EXCELENCIA SICI CONSOLIDER International Workshop



**El Rancho de la Aldegüela
(Torrecaballeros, Segovia)
October, 20th-22nd, 2016**

Supported by:



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AntalGenics

PROGRAMME

14:00-15:30 Lunch

Thursday, October 20th

18:00-18:15 **Welcome by the Organizing Committee**

18:15-19:15 **Keynote Lecture:**
Pierre Paoletti (Institut de Biologie de l'Ens- IBENS-Paris)
"NMDA receptors: from molecular engineering to synaptic regulation"

20:30 **Welcome dinner**

Friday, October 21st

9:30-11:30 **Session I. Ion Channels in Physiology**

Chairman: Antonio Ferrer Montiel (UMH- Elche)

Speakers:

- **John Wesseling** (CIMA-Pamplona) *"NMDARs in electrogenesis: A new hypothesis for the special role of NMDARs in neurodegeneration."*
- **Rafael Luján** (Univ. Castilla La Mancha) *"Subcellular localization of ion channels and associated proteins along the neuronal surface"*
- **Antonio Felipe** (Univ. de Barcelona) *"Molecular interactions shaping the functional Kv1.3 channelosome"*
- **José A. Lamas** (Univ. de Vigo) *"Modulation of potassium TREK-channels by bradykinin".*

11:30-12:00 **Poster session and coffee break**

12:00-14:00 **Session II. Ion channels in disease**

Chairman: Rosario González Muñoz (IQM- Madrid)

Speakers:

- **Xavier Altafaj** (Idibell- Barcelona) *"Rett-like severe encephalopathy caused by a de novo GRIN2B mutation is attenuated by D-serine dietary supplement"*
- **Alvaro Villarroel** (Instituto Biofisika CSIC-Bilbao) *"The assembly domain couples calmodulin binding and PIP2 regulation of Kv7.2 channels"*
- **Diego Alvarez de la Rosa** (Univ. La Laguna- Tenerife) *"Ion channels and vascular dysfunction in chronic kidney disease"*
- **Luis Carlos Barrio** (Hosp. Ramón y Cajal-Madrid) *"Neuronal connexin-36 protects against sudden infant death syndrome"*

15:30-17:30 **Session III. Structure-function Ion channels**

Chairman: Pilar de la Peña (Univ. Oviedo)

Speakers:

- **Antonio Alcaraz** (Univ. Jaume I-Castellón) *"Fluctuation-driven transport in bacterial channels under acidic stress"*
- **Oscar Millet** (CIC Biogune-Bilbao) *"Structural basis for the calmodulin mediated Ca²⁺ inhibition of the Kv7.2 channel"*
- **Teresa Giráldez** (Universidad La Laguna-Tenerife) *"Using unnatural aminoacids to probe the molecular basis of BK channel modulation by Ca²⁺"*
- **Alfonso Martínez de la Cruz** (CIC Biogune-Bilbao) *"Structural basis of the oncogenic interaction of PRL-1 with the Magnesium transporter CNNM2"*

17:30-18:00 **Poster session and coffee break**

18:00-19:30 **Oral communications** (15 min.each)

Chairman: Asia Fernández Carvajal (UMH-Elche)

- **Alex Perálvarez** (Univ. Autónoma Barcelona) *"Interactomic profiles reveal neuropathological implications for TRPV2 channel."*
- **Mar Orzaez** (CIPF-Valencia) *"The Bax transmembrane domain interacts with pro-survival Bcl-2 proteins in biological membranes"*
- **Felipe Ortega** (Univ. Complutense de Madrid) *"Unravelling the mechanisms controlling neurogenic and oligodendroglial lineages in the adult subependymal zone."*
- **Sonia Marco** (CIMA-Pamplona) *"Silencing GluN3A-containing NMDA receptors to treat Huntington's disease"*
- **Katarzyna Styczeń** (Univ. Barcelona) *"Polyubiquitination mediates the voltage-gated potassium channel Kv1.3 endocytosis"*
- **Rosa Gómez-Villafuertes** (Univ. Complutense Madrid) *"Upregulation of ionotropic P2X7 receptor facilitates the survival of neuroblastoma cells under limiting growth conditions: implication of PI3K/Akt signaling pathway."*

21:00

Dinner at Rancho de la Aldegüela