



## PROGRAM RECI VI MEETING.

### RED ESPAÑOLA DE CANALES IONICOS. SANTIAGO DE COMPOSTELA

|                                                         |                                                                                                                                                                        |                                                                                                                                             |
|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Wednesday, September 6, 2017                            |                                                                                                                                                                        |                                                                                                                                             |
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| 16:00-16:30                                             | WELCOME by the organization. Faculty of Biology                                                                                                                        |                                                                                                                                             |
| 16:30-17:30                                             | OPENING PLENARY LECTURE: <b>David J Beech</b> . University of Leeds, UK.<br>Piezo1 channels- Key mechanical force sensors in the endothelium                           |                                                                                                                                             |
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| S1. ION HOMEOSTASIS IN HEALTH AND DISEASE (17:30-19:30) |                                                                                                                                                                        |                                                                                                                                             |
|                                                         | Chairs                                                                                                                                                                 | <b>Luis Angel Pardo. Max-Planck-Institute of Experimental Medicine. Göttingen</b><br><b>Antonio Felipe. Universitat de Barcelona</b>        |
| 17:30-18:00<br>Oral                                     | <u>Stine Falsig Pedersen</u> . University of Copenhagen<br>Title                                                                                                       |                                                                                                                                             |
| 18:00-18:30<br>Oral                                     | <u>David Soto</u> . Universitat de Barcelona.<br><i>CPT1C as a novel player in AMPA receptor trafficking</i>                                                           |                                                                                                                                             |
| 18:30-19:00<br>Oral                                     | <u>Oscar Millet</u> . Cicbiogune Bilbao.<br><i>Structural basis and energy landscape for the calcium-gating and calmodulation of the Kv7.2 potassium channel</i>       |                                                                                                                                             |
| 19:00-19:15<br>Short                                    | Name. Institution.<br>Title                                                                                                                                            |                                                                                                                                             |
| 19:15-19:30<br>Short                                    | Name. Institution.<br>Title                                                                                                                                            |                                                                                                                                             |
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| 20:00-21:00                                             | RECEPTION: Palacio de Fonseca                                                                                                                                          |                                                                                                                                             |
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| Thursday, September 7, 2017                             |                                                                                                                                                                        |                                                                                                                                             |
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| S2. GAP JUNCTION CHANNELS AND DISEASE (9:00-11:00)      |                                                                                                                                                                        |                                                                                                                                             |
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|                                                         | Chairs                                                                                                                                                                 | <b>Luis C. Barrio. Hospital Ramón y Cajal de Madrid</b><br><b>María D. Mayán. Instituto de Investigación Biomédica de A Coruña (INIBIC)</b> |
| 09:00-09:30<br>Oral                                     | <u>Alberto Pereda</u> . Albert Einstein College of Medicine, Yeshiva University. Bronx, USA<br><i>Plasticity of electrical synapses</i>                                |                                                                                                                                             |
| 09:30-10:00<br>Oral                                     | <u>Luis C. Barrio</u> . Hospital Ramón y Cajal de Madrid<br><i>Connexin-36 knockout mouse: A model of sudden infant death syndrome and central apneas in adulthood</i> |                                                                                                                                             |
| 10:00-10:30<br>Oral                                     | <u>María D. Mayán</u> . Instituto de Investigación Biomédica de A Coruña (INIBIC)<br><i>Growth control of human melanoma cells by exosomal connexin43</i>              |                                                                                                                                             |
| 10:30-10:45<br>Short                                    | Name. Institution.<br>Title                                                                                                                                            |                                                                                                                                             |
| 10:45-11:00<br>Short                                    | Name. Institution.<br>Title                                                                                                                                            |                                                                                                                                             |
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| 11:00-11:30                                             | Coffee break                                                                                                                                                           |                                                                                                                                             |

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| S3. NOVEL APPROACHES TO THE STUDY OF CHANNEL PHARMACOLOGY (11:30-13:30) |                                                                                                                                                                         |                                                                                                                             |
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|                                                                         | Chairs                                                                                                                                                                  | Mabel Loza. Universidad de Santiago de Compostela (CIMUS)<br>Rosario González. Instituto de Química Médica de Madrid (CSIC) |
| 11:30-12:00<br>Oral                                                     | Dr. Amadeu Llevaría. Instituto de Química Avanzada de Cataluña (IQAC-CSIC).<br><i>Precise control of native membrane receptors with light and photoactive molecules</i> |                                                                                                                             |
| 12:00-12:30<br>Oral                                                     | José Manuel Brea. CIMUS. Universidad de Santiago de Compostela<br><i>Pharmacology of neuronal excitability in the Innopharma project</i>                                |                                                                                                                             |
| 12:30-13:00<br>Oral                                                     | Dra. Marta Gutiérrez. Instituto de Química Médica (IQM-CSIC)<br><i>Tailoring chemical tools for modulating the KV4.3/KChIP3 interaction</i>                             |                                                                                                                             |
| 13:00-13:15<br>Short                                                    | Name. Institution.<br>Title                                                                                                                                             |                                                                                                                             |
| 13:15-13:30<br>Short                                                    | Name. Institution.<br>Title                                                                                                                                             |                                                                                                                             |
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| 13:30-15:00                                                             | Lunch time                                                                                                                                                              |                                                                                                                             |
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| S4. ION CHANNEL GATING MECHANISM (15:00-17:00)                          |                                                                                                                                                                         |                                                                                                                             |
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|                                                                         | Chairs                                                                                                                                                                  | Pilar de la Peña. Universidad de Oviedo<br>Álvaro Villarroel. Unidad de Biofísica del País Vasco (CSIC)                     |
| 15:00-15:30<br>Oral                                                     | Arin Marchesi. French Institute of Health and Medical Research. INSERFM. Marsella<br>Title                                                                              |                                                                                                                             |
| 15:30-16:00<br>Oral                                                     | Pilar de la Peña. Universidad de Oviedo<br><i>Split channels and gating mechanisms in the Kv11.1 (hERG) potassium channel</i>                                           |                                                                                                                             |
| 16:00-16:30<br>Oral                                                     | Álvaro Villarroel. Unidad de Biofísica del País Vasco (CSIC)<br><i>Structural basis of calmodulin gating of Kv7.2 channels</i>                                          |                                                                                                                             |
| 16:30-16:45<br>Short                                                    | Name. Institution.<br>Title                                                                                                                                             |                                                                                                                             |
| 16:45-17:00<br>Short                                                    | Name. Institution.<br>Title                                                                                                                                             |                                                                                                                             |
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| 17:00-17:30                                                             | Coffee                                                                                                                                                                  |                                                                                                                             |
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| S5. SENSORIAL CHANNELS (17:30-19:30)                                    |                                                                                                                                                                         |                                                                                                                             |
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|                                                                         | Chairs                                                                                                                                                                  | J Antonio Lamas. Centro de Investigaciones Biomédicas (UVIGO)<br>Félix Viana. Instituto de Neurociencias de Alicante        |
| 17:30-18:00<br>Oral                                                     | Ulrich Boehm. Saarland University. Homburg. Germany<br><i>TRP channel function in the reproductive axis.</i>                                                            |                                                                                                                             |
| 18:00-18:30<br>Oral                                                     | Félix Viana. Instituto de Neurociencias de Alicante<br><i>Molecular Physiology of Cold-Activated TRP Channels</i>                                                       |                                                                                                                             |
| 18:30-19:00<br>Oral                                                     | Antonio Reboresda. Leibniz Institute for Neurobiology (Magdeburg, Germany)<br><i>TRPC control of persistent firing. Neuromodulatory pathways.</i>                       |                                                                                                                             |
| 19:00-19:15<br>Short                                                    | Name. Institution.<br>Title                                                                                                                                             |                                                                                                                             |
| 19:15-19:30<br>Short                                                    | Name. Institution.<br>Title                                                                                                                                             |                                                                                                                             |
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| 21:00-23:00                                                             | CLOSING DINNER. Hostal de los Reyes Católicos                                                                                                                           |                                                                                                                             |
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Friday, September 8, 2017

**S6. ION CHANNELS IN CARDIOVASCULAR DISEASES (9:00-11:00)**

|                      |                                                                                                                  |                                                                                                    |
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|                      | Chairs                                                                                                           | <b>María T Pérez. Universidad de Valladolid</b><br><b>Mark Nelson. University of Vermont, USA.</b> |
| 09:00-09:30<br>Oral  | Mark Nelson. University of Vermont, USA.<br><i>Potassium channels and neurovascular coupling.</i>                |                                                                                                    |
| 09:30-10:00<br>Oral  | Ricardo Caballero. Universidad Complutense de Madrid<br><i>Remodeling of ion channels in atrial fibrillation</i> |                                                                                                    |
| 10:00-10:30<br>Oral  | María T Pérez. Universidad de Valladolid<br><i>Kv channels as targets and effectors for vascular remodeling</i>  |                                                                                                    |
| 10:30-10:45<br>Short | Name. Institution.<br>Title                                                                                      |                                                                                                    |
| 10:45-11:00<br>Short | Name. Institution.<br>Title                                                                                      |                                                                                                    |
| 11:00-11:30          | Coffee break                                                                                                     |                                                                                                    |

**S7. STORE OPERATED CHANNELS (11:30-13:30)**

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|                      | Chairs                                                                                                                                                                 | <b>Carlos Villalobos. Instituto de Biología y Genética Molecular de Valladolid (CSIC)</b><br><b>Diego Álvarez de la Rosa. Universidad de la Laguna</b> |
| 11:30-12:00<br>Oral  | F. Javier Martín Romero. Universidad de Extremadura. Badajoz, Spain<br><i>Role of STIM1 phosphorylation in store-operated Ca<sup>2+</sup> entry and cell migration</i> |                                                                                                                                                        |
| 12:00-12:30<br>Oral  | Jorgina Satrustegui. Centro de Biología Molecular Severo Ochoa (CSIC-UAM). Madrid, Spain<br><i>Store operated Ca<sup>2+</sup> entry in Charcot-Marie-Tooth disease</i> |                                                                                                                                                        |
| 12:30-13:00<br>Oral  | Carlos Villalobos. Instituto de Biología y Genética Molecular (IBGM, UVA-CSIC). Valladolid, Spain<br><i>Remodeling of store-operated channels in colon cancer</i>      |                                                                                                                                                        |
| 13:00-13:15<br>Short | Name. Institution.<br>Title                                                                                                                                            |                                                                                                                                                        |
| 13:15-13:30<br>Short | Name. Institution.<br>Title                                                                                                                                            |                                                                                                                                                        |
| 13:30-14:30          | <b>CLOSING PLENARY LECTURE: Luis Angel Pardo. Max-Planck-Institute of Experimental Medicine. Göttingen</b><br>Title                                                    |                                                                                                                                                        |

| Local Organizing Committee                                                                                     | Scientific Committee                                                                                                                                                                             |
|----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| J Antonio Lamas (UVIGO)<br>Pilar de la Peña (UO)<br>Carmen Vale (USC)<br>Mabel Loza (USC)<br>María Mayán (UDC) | J Antonio Lamas<br>Pilar de la Peña<br>Carmen Vale<br>Mabel Loza<br>María Mayán<br>Antonio Reboreda (Leibniz Institute for Neurobiology)<br>Félix Viana (Instituto de Neurociencias de Alicante) |



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