



PROGRAM RECI VI MEETING.

RED ESPAÑOLA DE CANALES IONICOS. SANTIAGO DE COMPOSTELA

Wednesday, September 6, 2017

16:00-16:30	WELCOME by the organization. Faculty of Biology	
16:30-17:30	OPENING PLENARY LECTURE: David J Beech. University of Leeds, UK. Piezo1 channels- Key mechanical force sensors in the endothelium	
S1. ION HOMEOSTASIS IN HEALTH AND DISEASE (17:30-19:30)		
	Chairs	Luis Angel Pardo. Max-Planck-Institute of Experimental Medicine. Göttingen Antonio Felipe. Universitat de Barcelona
17:30-18:00 Oral	Stine Falsig Pedersen. University of Copenhagen <i>The acidic tumor microenvironment as a driver of epithelial cancer progression</i>	
18:00-18:30 Oral	David Soto. Universitat de Barcelona. <i>CPT1C as a novel player in AMPA receptor trafficking</i>	
18:30-19:00 Oral	Oscar Millet. Cicbiogune Bilbao. <i>Structural basis and energy landscape for the calcium-gating and calmodulation of the Kv7.2 potassium channel</i>	
19:00-19:15 Short 1	Pilar Ciudad. Universidad de Valladolid <i>Signalling pathways involved in Kv1.3-induced proliferation</i>	
19:15-19:30 Short 2	Antonio Serrano -Albarrás. Universitat de Barcelona <i>Effects of KCNE4 on Kv1.3/Kv1.5 complexes</i>	
20:00-21:00	RECEPTION: Palacio de Fonseca	

Thursday, September 7, 2017

S2. GAP JUNCTION CHANNELS AND DISEASE (9:00-11:00)		
	Chairs	Luis C. Barrio. Hospital Ramón y Cajal de Madrid María D. Mayán. Instituto de Investigación Biomédica de A Coruña (INIBIC)
09:00-09:30 Oral	Alberto Pereda. Albert Einstein College of Medicine, Yeshiva University. Bronx, USA <i>Plasticity of electrical synapses</i>	
09:30-10:00 Oral	Luis C. Barrio. Hospital Ramón y Cajal de Madrid. <i>Connexin-36 knockout mouse: A model of sudden infant death syndrome and central apneas in adulthood</i>	
10:00-10:30 Oral	María D. Mayán. Instituto de Investigación Biomédica de A Coruña (INIBIC) <i>Growth control of human melanoma cells by exosomal connexin43</i>	
10:30-10:45 Short 3	Trond Aasen. Vall d'Hebron Institute of Research, Barcelona. <i>Channel-dependent and channel-independent functions of gap junction proteins in health and disease: alternative translation of truncated connexin isoforms.</i>	
10:45-11:00 Short 4	Juan Barios. Universidad Miguel Hernández de Elche. <i>Behavioral State Instability in Connexin-36 Knockout Mice</i>	
11:00-11:30	Coffee break	

S3. NOVEL APPROACHES TO THE STUDY OF CHANNEL PHARMACOLOGY (11:30-13:30)		
	Chairs	Mabel Loza. Universidad de Santiago de Compostela (CIMUS) Rosario González. Instituto de Química Médica de Madrid (CSIC)
11:30-12:00 Oral		Dr. Amadeu Llevaría. Instituto de Química Avanzada de Cataluña (IQAC-CSIC). <i>Precise control of native membrane receptors with light and photoactive molecules</i>
12:00-12:30 Oral		José Manuel Brea. CIMUS. Universidad de Santiago de Compostela <i>Pharmacology of neuronal excitability in the Innopharma project</i>
12:30-13:00 Oral		Dra. Marta Gutiérrez. Instituto de Química Médica (IQM-CSIC) <i>Tailoring chemical tools for modulating the KV4.3/KChIP3 interaction</i>
13:00-13:15 Short 5		Sara González-Rodríguez. Universidad Miguel Hernández de Elche (IBMC). <i>Pharmacological evaluation of new compounds on TRP receptors</i>
13:15-13:30 Short 6		Héctor Zamora-Carreras. Instituto de Química Física Rocasolano de Madrid (IQFR-CSIC) <i>The analgesic peptide DDO4107 binds to Synaptotagmin-1. Evidences from ITC and NMR experiments</i>
13:30-15:00		Lunch time
S4. ION CHANNEL GATING MECHANISM (15:00-17:00)		
	Chairs	Pilar de la Peña. Universidad de Oviedo Álvaro Villarroel. Unidad de Biofísica del País Vasco (CSIC)
15:00-15:30 Oral		Arin Marchesi. French Institute of Health and Medical Research. INSERM. Marsella <i>Direct visualization of conformational gating in a prokaryotic cyclic nucleotide-gated channel</i>
15:30-16:00 Oral		Pilar de la Peña. Universidad de Oviedo <i>Split channels and gating mechanisms in the Kv11.1 (hERG) potassium channel</i>
16:00-16:30 Oral		Álvaro Villarroel. Unidad de Biofísica del País Vasco (CSIC) <i>Structural basis of calmodulin gating of Kv7.2 channels</i>
16:30-16:45 Short 7		Ana Fernández-Mariño. NIH-NINDS. Bethesda. USA <i>Coupling of voltage-sensing and pore domains in structurally distinct voltage gated ion channels</i>
16:45-17:00 Short 8		Rosa Planells-Cases. Max-Delbrück-Centrum für Molekulare Medizin, Berlin, Germany <i>VRAC channel composition determines its substrate specificity and resistance to the induction of apoptosis.</i>
17:00-17:30		Coffee
S5. SENSORIAL CHANNELS (17:30-19:30)		
	Chairs	J Antonio Lamas. Centro de Investigaciones Biomédicas (UVIGO) Félix Viana. Instituto de Neurociencias de Alicante
17:30-18:00 Oral		Ulrich Boehm. Saarland University. Homburg. Germany <i>TRP channel function in the reproductive axis.</i>
18:00-18:30 Oral		Félix Viana. Instituto de Neurociencias de Alicante <i>Molecular Physiology of Cold-Activated TRP Channels</i>
18:30-19:00 Oral		Antonio Reboreda. Leibniz Institute for Neurobiology (Magdeburg, Germany) <i>TRPC control of persistent firing. Neuromodulatory pathways.</i>
19:00-19:15 Short 9		Antonio Rodríguez-Artalejo. Universidad Complutense de Madrid. <i>Overexpression of purinergic P2X3 and P2X7 receptors and TRPV1 channels in adrenomedullary chromaffin cells from a rat model of neuropathic pain</i>
19:15-19:30 Short 10		Paula Rivas-Ramírez. Czech Academy of Sciences, Prague, Czech Republic <i>New analgesic properties of surfen: a broad-spectrum calcium channel inhibitor</i>
21:00-23:00		CLOSING DINNER. Hostal de los Reyes Católicos

Friday, September 8, 2017

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

	Chairs	María T Pérez. Universidad de Valladolid Mark Nelson. University of Vermont, USA.
09:00-09:30 Oral		Mark Nelson. University of Vermont, USA <i>Potassium channels and neurovascular coupling</i>
09:30-10:00 Oral		Ricardo Caballero. Universidad Complutense de Madrid <i>Remodeling of ion channels in atrial fibrillation</i>
10:00-10:30 Oral		María T Pérez. Universidad de Valladolid <i>Kv channels as targets and effectors for vascular remodeling</i>
10:30-10:45 Short 11		Montserrat Santori. Instituto de Investigación Sanitaria de Santiago. <i>Familial atrial fibrillation and sudden unexplained infant death: variable phenotypes according to the combination of two KCNH2 genetic variants</i>
10:45-11:00 Short 12		Lucia Alonso-Carbajo. University of Leuven, Belgium <i>The role of TRPA1 and TRPM8 channels in vascular responses to cold</i>
11:00-11:30		Coffee break

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

	Chairs	Carlos Villalobos. Instituto de Biología y Genética Molecular de Valladolid (CSIC) Diego Álvarez de la Rosa. Universidad de la Laguna
11:30-12:00 Oral		F. Javier Martín Romero. Universidad de Extremadura. Badajoz, Spain <i>Role of STIM1 phosphorylation in store-operated Ca²⁺ entry and cell migration</i>
12:00-12:30 Oral		Paloma González-Sánchez. Centro de Biología Molecular Severo Ochoa (CSIC-UAM). Madrid, Spain <i>Store operated Ca²⁺ entry in Charcot-Marie-Tooth disease</i>
12:30-13:00 Oral		Carlos Villalobos. Instituto de Biología y Genética Molecular (IBGM, UVA-CSIC). Valladolid, Spain <i>Remodeling of store-operated channels in colon cancer</i>
13:00-13:15 Short 13		Merce Izquierdo-Serra. Universitat Pompeu Fabra, Barcelona, Spain. <i>Stroke-like episodes and cerebellar syndrome in PMM2-CDG: evidences for deglycosylation-driven channelopathy</i>
13:15-13:30 Short 14		Ralf Köhler. ARAI-Universidad de Zaragoza, Zaragoza, Spain <i>Pharmacological activation of TRPV4 induces melanoma cell death.</i>
13:30-14:30		CLOSING PLENARY LECTURE: Luis Angel Pardo. Max-Planck-Institute of Experimental Medicine. Göttingen <i>From neuronal excitability to cell cycle control: the biology of Kv10.1 potassium channels</i>

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Local Organizing Committee	Scientific Committee
J Antonio Lamas (UVIGO)	Antonio Ferrer (UMH)
Pilar de la Peña (UO)	J. Antonio Lamas
Carmen Vale (USC)	Pilar de la Peña
Mabel Loza (USC)	Carmen Vale
María Mayán (INIBIC- A Coruña)	Mabel Loza
	María Mayán
	Antonio Reboveda (Leibniz Institute for Neurobiology)
	Félix Viana (Instituto de Neurociencias de Alicante)



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