



XL National Meeting of the Spanish Society of Pharmacology

Toledo, September 6 to 8 - 2023

SCIENTIFIC PROGRAMME

Speaker names will be updated when they confirm their participation.

The official language is English

PLENARY LECTURES

Virgil Percec. University of Pennsylvania. **Targeted Delivery of mRNA with One-Component Multifunctional Sequence-Defined Ionizable Amphiphilic Janus Dendrimers.**

EPHAR LECTURE: Graeme Milligan. University of Glasgow. **Defining roles and the regulation of GPCRs for short- and medium-chain fatty acids.**

Michael Spedding. IUPHAR. **New therapies for viral infections and neurodegeneration, targeting glycosphingolipids that may have played a critical role in human evolution.**

ROUND TABLES

Round Table 1: Perspectivas relativas a la “Ley de Garantías” y evolución reciente de su contenido. Repercusiones socio-sanitarias. Chairman: Francisco Zaragozá. Universidad de Alcalá de Henares.

1. César Hernández. Director. General de Cartera Común de Servicios del Sistema Nacional de Salud y Farmacia.
2. Antonio Blanes. Director de Servicios Farmacéuticos. Consejo General de Farmacéuticos.
3. Isabel Pineros. Farmaindustria.
4. Carina Escobar. Presidente. Plataforma de Pacientes..

Round Table 2: Papel de los diversos agentes financiadores en la financiación de la investigación biomédica. Chairman: Valentín Ceña. Universidad de Castilla-La Mancha.

1. Cristóbal Belda. Director General. Instituto de Salud Carlos III.
2. Javier Ponce. Director General. Centro para el Desarrollo Tecnológico y la Innovación.
3. Ricardo Cuevas. Director General de Investigación. Junta de Comunidades de Castilla-La Mancha.
4. Isabel Amat. Laboratorios Reig-Jofré.

SESSIONS

Session 1. Advances in cardiovascular therapeutics. Chairman: Juan Tamargo. Universidad Complutense de Madrid.

1. Juan Tamargo. Universidad Complutense de Madrid. **Diabetes and Heart Failure: Therapeutic role of glifozines..**
2. Luis Rodríguez Padial. Complejo Hospitalario de Toledo. **New approaches to the treatment of thrombosis.**
3. Ricardo Caballero. Universidad Complutense de Madrid. **Treatment of dyslipidemias.**
4. Sofia Miñano. Universidad de Granada. **Role of immune cells mitochondrial metabolism in the development of cardiovascular complications in a murine model of lupus induced by TLR7 activation.**

Session 2. Neuropharmacology. Chairman: José Manuel Brea. Universidad de Santiago de Compostela.

1. Asia Fernández Carvajal. Universidad Miguel Hernández de Elche. **New pharmacological approaches to treat alterations in the sensory nervous system.**
2. Olga Valverde Granados. Universidad Pompeu Fabra. **Modulatory effects of endocannabinoids on cocaine seeking behavior in mice.**
3. Rebeca Díez-Alarcia. Universidad del País Vasco: **Inverse agonism and functional selectivity on serotonin 5-HT_{2A} receptors. Relevance for the design of new antipsychotic drugs.**
4. Mabel Loza. Universidad de Santiago de Compostela. **Novel in vitro phenotypic models in neuropharmacology.**

Session 3. Cardiovascular Pharmacology. Chairman: Carlos Sánchez-Ferrer. Universidad Autónoma de Madrid.

1. Concha Peiró. Universidad Autónoma de Madrid. **Angiotensin-(1-7), a novel anti-aging drug for the vasculature?.**

2. Susana Novella. Universidad de Valencia. **MicroRNA as potential modulators of cardiovascular function of estradiol.**
3. Ana Paula Dantas. Universidad de Barcelona. **Estrogen receptor in cardiovascular protection: the good, the bad and the ugly.**
4. Patrice Marques. Universidad de Valencia. **Platelet hyperactivity as trigger of platelet-leukocyte-endothelium interactions and subsequent cardiovascular complications in early-stage COPD.**
5. Miguel Angel Olivencia. Universidad Complutense de Madrid. **Novel role of hydrogen sulfide in erectile dysfunction: Regulation of guanylyl cyclase – redox state.**

Session 4. Lectures by 2020-2023 SEF Awards to young researchers.

2020. Marta Toral. **Aortic disease in Marfan syndrome is caused by overactivation of sGC-PRKG signaling by nitric oxide.**
2021. Jesús Cosín. **Role of metabolite-sensing GPCRs in Inflammatory Bowel Disease: Relevance of Intestinal Microbiota.**
2022. Gema Mondéjar. **Investigating the Risk of Prolonged Repolarization and Arrhythmogenesis Associated with Fentanyl Abuse Using Human iPSC-derived Cardiomyocytes**
2023. Iñaki Robles Vera. **Translocation of gut microbiota induce trained immunity in bone marrow progenitor cells**

Session 5. Nanopharmacology: a new era in therapeutics. Chairman: Valentín Ceña. Universidad de Castilla-La Mancha.

1. Valentín Ceña. Universidad de Castilla-La Mancha. **Role of siRNA and nanoparticles in glioblastoma treatment.**
2. Barbara Klajnert-Maculewicz. University of Lodz. **Dendrimers in neurodegenerative disorders – an overview.**
3. Jean-Pierre Majoral. CNRS. **Phosphorus dendrimers as nanocarriers or drugs active per se. Selected recent advances.**
4. Helena Tomás. University of Madeira. **Dendrimer-based nanomaterials for anticancer drug delivery.**

Session 6. Teaching and creativity in Pharmacology. Chairwoman: Rosario Jiménez. Universidad de Granada.

1. Michael Spedding. IUPHAR. **50 years of young pharmacology: managing and guarding creativity.**

2. Francisco Pérez Vizcaíno. Universidad Complutense de Madrid. **Database for multiple choice tests in Pharmacology. Platform for the automatic generation of exams.**
3. Carmen Montesinos Mezquita. Universidad de Valencia. **Benefits of a collaborative teaching network for improved Pharmacology education.**
4. Francisco Nieto. Universidad de Granada. **Demonstrating the placebo effect to pharmacology students.**

Session 7. Teaser poster session. Chairman: Antonio Rodríguez-Artalejo. Universidad Complutense de Madrid.

1. J. Rodrigues. University of Madeira. **Dendritic Ruthenium-based Anticancer Nanosystems: multi-step synthesis procedures coming to life.**
2. I. Valencia. Universidad Autónoma de Madrid. **Vascular smooth muscle cells-derived extracellular vesicles are conveyors of NLRP3 inflammasome and mediate inflammation in diabetes.**
3. C.González-Correa. Universidad de Granada. **The probiotic Lactobacillus fermentum CECT5716 increases the antihypertensive response of hydrochlorothiazide in spontaneously hypertensive rats.**
4. E. Domingo. Universidad de Valencia. **Deletion of CCR3 receptor in apoE^{-/-} mice subjected to an atherogenic diet accelerates atherosclerosis.**
5. A.L. Martínez. Universidad de Santiago. **A Novel Model for HTS of Drugs for Post-Acute Sequelae of COVID-19 -Related Neuronal Damage.**
6. A. Bellver Sanchis. Universidad de Barcelona. **Neuroprotective effects of G9a inhibition through modulation of PPAR γ /GADD45 α -dependent pathways by miR-128.**
7. A. Antolín. Bellvitge Biomedical Research Institute – IDIBELL. **The major metabolite of the PARP inhibitor rucaparib exhibits unique PLK2 inhibition unlocking a new anti-Parkinson strategy.**
8. R. Muñoz-García. Universidad de Sevilla. **Dietary Oleacein attenuates Lupus Nephritis in Balb/C Pristane-Induced.**
9. I. Gayo-Abeleira. Universidad de Alcalá. **Ménière disease and interleukin 17A.**
10. R.M. Giner. Universidad de Valencia. **Transferosomes loaded with cyanocobalamin effectively reduce oedema associated with atopic dermatitis in an in vivo assessment using a hypersensitivity mouse model.**

11. C. Costas. Universidad de Lugo. **Neurotoxic Shellfish Poisoning: Brevetoxin 3 acute toxicity in vivo.**
12. J. E. Baños. Universidad de Vic. **The (mis)use of scientific discourse to legitimize drug promotion in the opioid crisis in the US. An analysis for teaching purposes using TV series Dopesick.**

Session 8: New perspectives in neuropharmacology. Chairwoman: Mercè Pallàs.
Universidad de Barcelona.

1. Enrique J. Cobos. Universidad de Granada. **Sigma-1 receptors and pain: modulation of peripheral sensitization.**
2. Julia García-Fuster. Universidad de les Illes Balears. **Characterizing novel antidepressants for adolescent psychopathology from a preclinical perspective.**
3. Mercè Pallas. Universidad de Barcelona. **I2 imidazoline receptors: validation as a target for Alzheimer's disease treatment.**
4. Inmaculada Posadas. Universidad de Castilla-La Mancha. **Engineered Neutral Phosphorous Dendrimers Protect Mouse Cortical Neurons and Brain Organoids from Excitotoxic Death.**
5. Antonio Rodríguez-Artalejo. Universidad Complutense de Madrid. **From chromaffin cells to primary nociceptive neurons: a round trip from stress to pain.**

Session 9. Pulmonary fibrosis: new challenges. Chairwoman: María Jesús Sanz.
Universidad de Valencia.

1. Ana Montes. Bellvitge Biomedical Research Institute – IDIBELL. **Pathobiological features of idiopathic pulmonary fibrosis.**
2. Javier Milara. Universidad de Valencia. **Emerging Therapeutic Targets for idiopathic pulmonary fibrosis.**
3. Paula Montero. Universidad de Valencia. **Experimental Models in idiopathic pulmonary fibrosis.**
4. C. Griñán Ferré. Universidad de Barcelona. **Discovery of a Dual-Action of G9a Inhibitors for the Treatment of Alzheimer's Disease.**
5. María Jesús Sanz. Universidad de Valencia. **Normalization of metabolic and inflammatory parameters in vitro and in vivo in ob/ob mice by a novel pan-PPAR agonist (BP-2).**

Congress Timetable

6/9/2023	Parainfo Envases de cartón	Sala de Grados de Sabatini
8:00-9:30	Delivery of documentation	
9:30-11:30	Session 1	Session 2
11:30-12:00	Coffee-break and posters	
12:00-12:30	Official Opening	
12:45-13:45	Opening Lecture: Virgil Percec	
13:45-15:30	Lunch	Lunch
15:30-17:30	Round Table 1	Session 3
17:30-19:30	Session 4	

7/9/2023	Paraninfo Envases de Cartón	Sala de Grados de Sabatini
9:00-9:30	Delivery of documentation	
9:30-11:30	Session 5	Session 6
11:30-12:30	Coffee-break and Posters	
12:30-14:30	Round Table 2	
14:30-16:00	Lunch	Lunch

16:00-17:00	EPHAR Lecture: Graeme Milligan	
17:00-17:30	Coffe-Break and Posters	
17:30-18:30	Session 7	
18:30-20:00	Assembly of the SEF.	
21:30	Congress Dinner	

8/9/2023

Parainfo Envases de cartón

Sala de Grados de Sabatini

9:00-9:30

Delivery of documentation

9:30-11:30

Session 8

Session 9

11:30-12:00

Coffee and Posters

12:00-13:00

Closing Lecture: Michael Spedding

13:00-13:45

Closing