



38<sup>th</sup> Meeting Sociedad Española de Farmacología

9<sup>th</sup> Meeting Sociedad Española de Farmacogenética y Farmacogenómica

19<sup>th</sup>-22<sup>nd</sup> June 2018, Santiago de Compostela

Sociedad Española de Farmacología

SEFF GC

Invited societies:



# Welcome address

*Dear Colleagues and Friends,*

We cordially welcome pharmacologists, physicians and clinicians, scientists and researchers, health professionals, patients and representatives of the pharmaceutical industry to the **1<sup>st</sup> Meeting in Translational Pharmacology, 38<sup>th</sup> Spanish Society of Pharmacology meeting/9<sup>th</sup> Spanish Society of Pharmacogenetics and Pharmacogenomics meeting.**

We are delighted and happy to welcome you to the historical city of Santiago de Compostela, declared a World Heritage City by UNESCO and as the final destination of a thousand-year-old pilgrim route: the “Camino of Santiago” which, since the 9th century, has transformed this “finis terrae” into a meeting place of Western culture and thinking.

The Scientific Committee tried to create an attractive programme, which will give new insights into clinical research, basic science and therapeutic strategies. Recent developments and advancements in Pharmacology and Pharmacogenetics/omics will be highlighted by worldwide leading experts in the various fields. The Congress will be this year a meeting point to exchange ideas and experiences with members of the three invited societies of pharmacology (Greek, Italian and Portuguese) who kindly joined our initiative and we hope that the event also gives us opportunities for a unique interactive environment within a scientific and educational setting. We feel confident that Santiago de Compostela, with its famous history of art and culture, charm and numerous restaurants and bars, will provide an excellent background for further friendships and collaborations. The Executive Committee, the Scientific Committee, together with the Local Organising Committee, will do their best to meet all the expectations of all attendees.

We hope that your participation in the congress and your stay in Santiago will be very pleasant and inspiring.

*M<sup>a</sup> Jesús Sanz*  
*SEF President*

*Miquel Tarón*  
*SEFF President*

*Pepo Brea*  
*Oreste Gualillo*  
*Mabel Loza*

*Ángel Carracedo*  
*Miquel Tarón*  
*Olalla Maroñas*

*SEF Local Organizing Committee*

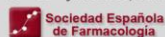
*María Torres*  
*SEFF Local Organizing Committee*



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# 38th Spanish Society of Pharmacology meeting/9th Spanish Society of Pharmacogenetics and Pharmacogenomics meeting



Tuesday June 19th 2018

14:45	Registration
15:00	<p>Scientific dissemination workshop (Room: Obradoiro I)</p> <p><i>"Communicating Science: Institutions, the Media and New Formats"</i> Dr. Alberto Aparici (University of Valencia)</p> <p><i>"Your research in one minute"</i></p>
Plenary Room	
16:00	<p>Meet the scientist session (Room: Obradoiro I)</p> <p><i>"Meet the Pharmacologist"</i></p>
17:00	<p>Opening ceremony (Room: Obradoiro I)</p>
17:30	<p>Plenary lecture (Room: Obradoiro I)</p> <p><i>"How do we more rapidly translate new genetic insights, into novel therapies for patients?"</i> Chas Bountra (University of Oxford)</p>
18:30	Reception



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Wednesday June 20<sup>th</sup> 2018



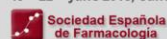
	Parallel Track 1	Parallel Track 2
9:00	<p align="center"><b>Plenary lecture</b> (Room: Obradoiro I)</p> <p align="center"><i>“Circadian Rhythm and Molecular Clocks in Pharmacology”</i> Claudia Cavadas (University of Coimbra)</p>	
10:00	<p align="center"><b>Coffee break and poster session 1</b></p>	
11:00	<p align="center"><b>Plenary roundtable (Open innovation in drug discovery)</b> (Room: Obradoiro I) <i>Chair: Mabel Loza (University of Santiago de Compostela)</i></p> <p align="center"><i>“AstraZeneca’s Open Innovation project – lessons from the first seven years”</i> Dave Smith (Astrazeneca)</p> <p align="center"><i>“AlmirallShare, a crowdsourcing platform to share science and innovation”</i> Maribel Crespo (Almirall)</p> <p align="center"><i>“Open Innovation. The J&amp;J approach”</i> Antonio Gómez (Janssen)</p> <p align="center"><i>“OIDD as a New Collaborative Model in Drug Discovery”</i> María Ángeles Martínez (Eli Lilly)</p> <p align="center"><i>“Discovery Partnerships with Academia; combining the biological expertise of academia with the drug discovery expertise of GSK to discover new medicines”</i> Danuta Mossakowska (GSK)</p> <p align="center"><i>“The innovation ecosystem of ESTEVE”</i> José Miguel Vela (Esteve)</p>	
13:00	<p align="center"><b>Lunch</b></p>	



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Invited societies:



**Roundtable: Pharmacology of cardio-metabolic diseases**

**(Room: Obradoiro I)**

*Chair: Carlos Diéguez (University of Santiago de Compostela)*

***“New therapeutic approaches in the treatment of type 2 diabetes mellitus”***

Juan Tamargo (Complutense University de Madrid)

***“Targeting mitochondria in heart failure “***

Jose Antonio Enríquez (CNIC)

***“What is new on cardiovascular prevention 2018?”***

José Ramón González Juanatey (Galician Health Service)

***O001: “Is visfatin involved in the vascular dysfunction associated with diabetes and ageing?”***

Mariella Ramos (Autonomous University of Madrid)

***O002: “Targeting metabolic and endothelial functions: the role of ALDH2”***

Ginevra Nannelli (University of Siena)

**Roundtable: Back to the future: 50 years of spanish pharmacology.**

**(Room: Obradoiro II)**

*Chair: José María Palacios (Kaertor Foundation)*

***“1968-2018. Rise and Fall of Pharmacology?”***

José María Palacios (Kaertor Foundation)

***“Five decades of evolution in vascular pharmacology research”***

Mercedes Salaices (Autonomous University of Madrid)

***“The past to the front; and the future..., where has it gone?”***

Antonio Rodríguez Artalejo (Complutense University de Madrid)

***“The new Drug Regulatory Agencies and the stakeholders enter the scene. Beyond science or Regulatory Science?”***

Fernando de Andrés - Trelles (Complutense University de Madrid)

***“Collaboration University-Pharma Industry at Instituto Fundacion Teófilo Hernando of UAM”***

Antonio García (Autonomous University of Madrid)

14:30

16:30

**Coffee and posters session 1**

**Roundtable: Natural products pharmacology**

**(Room: Obradoiro I)**

*Chair: Diego Cortés (University of Valencia)*

***“Pharmacological evaluation of the olive constituents Oleuropein and Hydroxytyrosol in cardiovascular diseases”***

Ioanna Andreadou (University of Athens)

***“Combining Natural Products and Phenotypic Discovery Platforms to deliver unique novel molecules for pharmacological development”***

Olga Genilloud (Medina Foundation)

**Roundtable: Pharmacology teaching**

**(Room: Obradoiro II)**

*Chair: Inmaculada Bellido (University of Málaga)*

***“Teaching of undergraduates in Pharmacology in Spain: Where are we? Where are we going?”***

Inmaculada Bellido (University of Málaga)

***“Digital technologies to teach and learn pharmacology”***

Claudia Cavadas: (University of Coimbra)

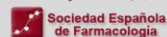
17:00



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Invited societies:



***“Marine Toxins as Drug Leads”***

Luis Botana (University of Santiago de Compostela)

***O003: “Olive oil preserves intestinal barrier function and intraepithelial lymphocytes in high-fat diet-induced obese mice”***

Sergio Montserrat De La Paz (University of Seville)

***O004: “Aporphine, 1-benzylisoquinoline and phenanthrene alkaloids as D2-dopaminergic ligands”***

Nuria Cabedo (INCLIVA)

***“Teaching pharmacology, clinical pharmacology, and pharmacogenomics in Greek Medical and Pharmacy schools”***

Vangelis Manolopoulos (University of Thrace)

***“Basic and clinical pharmacology in Italy: current challenges and opportunities”***

Rosaria Meli (University of Napoli)

***O005: “Development of a blog about pharmacology of drugs of abuse in Spanish rock and pop songs.”***

Manuel Sánchez Santos (University of Granada)

**Plenary lecture**

**(Room: Obradoiro I)**

19:00

***“Activities of EPHAR, EACPT and UEMS to support training of basic and clinical pharmacologists in Europe”***

Thomas Griesbacher (University of Graz)

20:00

**Tapas Route**

21:30

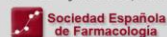
**Young Researcher´s Dinner**



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Thursday June 21<sup>st</sup> 2018

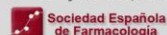
Parallel Track 1		Parallel Track 2	
9:00	<b>Plenary lecture</b> <b>(Room: Obradoiro I)</b>		
	<i>“Neutrophil breaching of venular walls in vivo: Novel insights, concepts &amp; mechanisms”</i>  Sussan Nourshargh (Queen Mary University of London)		
<b>10:00 Coffee break and poster session 2</b>			
11:00	<b>Roundtable: Immunoinflammation</b> <b>(Room: Obradoiro I)</b> <i>Chair: Oreste Gualillo (Galician Health Service)</i>		<b>Roundtable: Novel mechanisms for treating cancer</b> <b>(Room: Obradoiro II)</b> <i>Chair: Rafael López (Galician Health Service)</i>
	<i>“Emotional and environmental regulation of the immune and inflammatory response”</i> Fulvio D`acquisto (University of Roehampton)		<i>“Nanomedicine: a new approach to glioblastoma therapy?”</i> Valentín Ceña (University of Castilla-La Mancha)
	<i>“Immunometabolic Alterations in Arthritis”</i> Ali Mobasher (University of Surrey)		<i>“Protein – protein interactions: emerging oncotargets in the RAS-ERK pathway”</i> Piero Crespo (Institute of Biomedicine & Biotechnology of Cantabria)
	<i>“Innate immune responses in joint tissues and their pharmacological inhibition”</i> Rodolfo Gómez (Galician Health Service)		<i>“Novel players involved in chromatin function as targets for anticancer therapies”</i> Paco Real (CNIO)
	<b>O006: “Sodium-glucose cotransporter-2 inhibition reduces Angiotensin-II Induced Abdominal Aortic Aneurysm in Apolipoprotein E-Knockout mice”</b> Rebeca Ortega (University of Valencia)		<b>O008: “Role of exosomal Cx43 as nanovehicles to halt metastatic melanoma”</b> Adrián Varela-Vázquez (CellCOM)
<b>O007: “Pain threshold evaluation after PF-3845, a FAAH inhibitor, administration in cafeteria-induced abstinence in rat: role of cannabinoid and opioid receptors”</b> Roberto Russo (University of Naples)		<b>O009: “ALDH1A1 is a novel regulator of tumor angiogenesis in breast cancer”</b> Valerio Ciccone (University of Siena)	



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13:00

Lunch

**Snapshot Communication**  
(Room: Obradoiro I)

14:25



**"Promega screening solution with FDSS-Hamamatsu"**

David Castrillo (Area Manager Spain-Portugal de Hamamatsu)/María Jurado Pueyo (Application Support Manager de Promega)

**Roundtable: CNS pharmacology, Alzheimer**

(Room: Obradoiro I)

Chair: Manel Merlos (ESTEVE)

**"Opioid-based strategies for the treatment of chronic pain"**

Sara González (University of Miguel Hernández)

**"From bedside to bench to clinic trials: identifying new therapeutic targets for schizophrenia treatment"**

Benedicto Crespo (University of Cantabria)

**"Pharmacogenomics regulated by Epigenetics"**

Noam Shomrom (Tel Aviv University)

**O010: "Ultramicrosized palmitoylethanolamide improves learning and memory in a triple transgenic mouse model of Alzheimer disease through a combination of anti-inflammatory and neuroprotective effects"**

Caterina Scuderi (University of Roma)

**O011: "ADRA2A gene expression and epigenetic regulation in postmortem prefrontal cortex of subjects with schizophrenia"**

Guadalupe Rivero (University of Basque Country)

**Roundtable: Cardiovascular Diseases**

(Room: Obradoiro II)

Chairs: Vangelis Manolopoulos and Andreas Papapetropoulos



**"Basic science and translational potential of hydrogen sulfide in the cardiovascular system"**

Andreas Papapetropoulos (National and Kapodistrian University of Athens)

**"Ischemic Conditioning of the Myocardium: Targets, Comorbidities and Translational Studies"**

Ioanna Andreadou (National and Kapodistrian University of Athens)

**O012: "The probiotic Lactobacillus fermentum preventes dysbiosis and vascular oxidative stress in rats with"**

Iñaki Robles Vera (University of Granada)

**O013: " ApoE-/- mice without CCR3 receptor present hastened atherosclerosis"**

Aida Collado (University of Valencia)



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	Parallel Track 1	Parallel Track 2	Parallel Track 3 / SEFF Meeting
16:30	Coffee and posters session 2		
16:45	Coffee and posters session 2		SEFF Opening (Room: Obradoiro I)
17:00	<p><b>Plenary lecture</b> (Room: Obradoiro I) <i>Chair: Adrián Llerena (University of Extremadura)</i></p> <p><i>“European initiatives on Pharmacogenetics and Personalized Medicine”</i> Professor Vangelis Manolopoulos (University of Thrace)</p>		
18:00 - 19:00	SEF Assembly (Room: Obradoiro I)		SEFF Assembly (Room: Obradoiro II)
21:00	Gala Dinner		

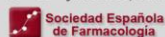




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**Parallel Track 1**

**GPCR pharmacology  
(Room: Obradoiro I)**

*Chair: Jose Manuel Brea (USC)*



***"A molecular pharmacology insight of 5-HT<sub>2A</sub> receptor pharmacogenomics based on the H452Y single nucleotide polymorphism"***  
Juan López-Giménez (CSIC)

***"Illuminating the adenosine A<sub>2A</sub>-dopamine D<sub>2</sub> receptor oligomer in parkinson's disease"***  
Víctor Fernández Dueñas (University of Barcelona)

***"Quantifying Biased Agonism at G Protein-Coupled Receptors"***  
Jesús Giraldo (Universidad Autónoma de Barcelona)

***"Discovery and pharmacological characterization of an A<sub>2A</sub> Receptor antagonist for immune-oncology development"***  
Xavier Leroy (ITEOS Therapeutics)

***O014: "Reinterpreting anomalous competitive binding experiments using G protein-coupled receptor homodimers: consequences of radioligand-competitor allosteric interactions"***  
Verónica Casadó-Anguera (University of Barcelona)

**Parallel Track 2**

**Rare diseases pharmacology  
(Room: Obradoiro II)**

*Chair: Ignacio Baanante (Institute of Health Carlos III)*

***"The evolving orphan drug development model"***  
Ana Mingorance (Dravet Syndrome Foundation)

***"Drug repurposing in Fanconi anemia therapeutics"***  
Jordi Surrallés (Sant Pau Hospital, CIBERER)

***"Axopathy and mitochondria in rare genetic neuropathies and common neurodegenerative diseases"***  
Francisco Palau (Sant Joan de Déu Hospital, CIBERER)

***O015: "Mutated Huntingtin overexpression is associated to altered excitability and exocytosis in chromaffin cells from the R6/1 mouse model of Huntington's disease"***  
Carmen Martínez Ramírez (Teófilo Hernando Institute)

***O016: "Metabotropic glutamate receptor 5 as a potential target in ALS"***  
Tiziana Bonifacino (University of Genova)

9:00



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11:00	<b>Coffee break</b>
11:30	<b>Plenary lecture</b> <b>(Room: Obradoiro I)</b>  <i>"The nonalcoholic fatty liver disease (NAFLD) conundrum: how to define it?"</i> José María Mato (CICbioGUNE and CICbioMAGUNE)
12:30	<b>SEF meeting Closing ceremony</b> <b>(Room: Obradoiro I)</b>
13:30	<b>Lunch</b>



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Friday June 22<sup>nd</sup> 2018

### Parallel Track 3: SEFF Meeting

#### Symposium I: Pharmacogenetic implementation in the Spanish Health System

##### Part I: Psychiatric diseases

(Room: Quintana)

Chairs: M<sup>a</sup> Jesús Arranz (Santa Creu i Sant Pau Hospital)

9:00

*“To evaluate the effectiveness of pharmacogenetic (PGx) testing in the selection of drug therapies in patients with major depressive disorder (MDD)”*

Dr. Víctor Pérez (Hospital del Mar, Barcelona)

*“Pharmacogenetic intervention improves the safety profile of antipsychotic treatments”*

Dra. Rosa Catalán (Hospital Clinic, Barcelona)

#### Symposium I: Pharmacogenetic implementation in the Spanish Health System

##### Part II: Transplantation

(Room: Quintana)

Chairs: Salvador Aliño (La Fe Hospital)

10:00

*“Pharmacogenetics of transplantation: Clinical implications”*

María José Herrero Cervera (IIS La Fe, Hospital La Fe)

*“Pharmacogenetics-based personalization of busulfan dose in children undergoing hematopoietic stem-cell transplantation”*

Patricia Huezó-Díaz Curtis (PhD) (University of Geneva)

11:00

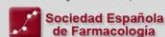
Coffee break and poster session 3



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Friday June 22<sup>nd</sup> 2018

### Parallel Track 3: SEFF Meeting

#### Symposium I: Pharmacogenetic implementation in the Spanish Health System

##### Part III: Cardiovascular diseases

(Room: Quintana)

Chairs: Luis López, Francisco Abad

*"Pharmacogenetics in cardiovascular diseases"*

11:30

Alberto Borobia (La Paz Hospital, Madrid)

*"Application of massive sequencing in cardiology"*

Raquel Yotti (Gregorio Marañón Hospital, Madrid)

#### Symposium I: Pharmacogenetic implementation in the Spanish Health System

##### Part IV: Oncology

(Room: Quintana)

Chairs: Anna González-Neira (CNIO), Cristina Rodríguez-Antona (CNIO)

*"Pharmacogenetic markers for toxicity prediction in oncological treatment"*

12:30

Luis Lopez-Tumores (Gregorio Marañón Hospital, Madrid)

*"Analysis of biomarkers in solid tumors using Next Generation Sequencing gene panels"*

Ana Patiño: (Navarra University Clinic)

13:30

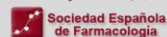
Lunch



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Friday June 22<sup>nd</sup> 2018

### Parallel Track 3: SEFF Meeting

#### Symposium II: Development of quality standards for pharmacogenetic diagnosis in Spain

(Room: Quintana)

Chairs: Ángel Carracedo (University of Santiago), Miquel Taron (Institute of Biomedicine of Seville)

14:30

*“Regulatory aspects and review of the technical sheets of medicines with PGx indications”*

Adrián Llerena (University of Extremadura)

#### Symposium II: Development of quality standards for pharmacogenetic diagnosis in Spain

(Room: Quintana)

Chairs: Ángel Carracedo (University of Santiago de Compostela), Miquel Taron (Institute of Biomedicine of Seville)

15:00

*“Implementation of quality standards for pharmacogenetic diagnosis in Spain: how, when and why?”*

Angel Carracedo (University of Santiago de Compostela)

#### Symposium II: Development of quality standards for pharmacogenetic diagnosis in Spain

(Room: Quintana)

Chairs: Ángel Carracedo (University of Santiago de Compostela), Miquel Taron (Institute of Biomedicine of Seville)

15:45

*“Implementation of quality standards for pharmacogenetic diagnosis in Spain: design of the first proficiency testing”*

María Isidoro (University Hospital Salamanca)

16:30

#### Roundtable-discussion

(Room: Quintana)

16:45

#### SEFF Closing Ceremony

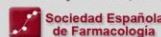
(Room: Quintana)



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***O017: "Genetic polymorphisms associated with sustained response to anti-TNF drugs in children with Inflammatory Bowel Disease"***

Sara Salvador Martín (Gregorio Marañón Intitue)

***O018: "Whole DPYD gene sequencing in patients with severe capecitabine toxicity, is current genetic screening insufficient to prevent it?"***

Xandra García-González (Gregorio Marañón Hospital)

***O019: "ABCB1 genetic variant as a risk factor for the development of docetaxel-induced permanent alopecia in breast cancer patients"***

Rocío Nuñez (CNIO)



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