# 37TH SEF NATIONAL MEETING WITH GUEST SOCIETY

### THE BRITISH PHARMACOLOGICAL SOCIETY

18-21 June 2017, Barcelona



**Programme** 

## Sunday, June 18th

15:00	Registration			
Plenary Room				
15:30	Session I: <b>The Young Pharmacologists Committees: Voice of the Future Chairs:</b> <i>Dr. Miguel Romero (Spain)</i> & <i>Dña. Mariella Ramos (Spain)</i> Young Pharmacologists Committee of the Spanish Society of Pharmacology (SEF). <i>Patrice Gomes (Spain)</i>			
	What do you want Young Pharmacologists Committee to do for you? <i>Aida Collado (Spain)</i> Session II: <b>Orientation Seminar on Academic Career for Young Doctors Chairs:</b> <i>Dr. Miguel Romero (Spain) &amp; Dr. Concha Peiró (Spain)</i>			
16:30	The pre-doctoral stage: how to prepare a good CV from the start. Sergio Montserrat-de la Paz (Spain)  How to be a post-doc and not die trying. Tania Romacho (Spain)			
	Climbing the ladder: career expectations versus academic reality. <i>Eduardo Oliver (Spain)</i> Opening Ceremony			
18.00	Plenary Lecture- Role of the endocannabinoid system in food-induced addictive-like behavior, Rafael Maldonado (Spain)			
19.00	Music and Reception			

### Monday, June 19<sup>th</sup>

08:30	Plenary Lecture- GPCR expression in health and disease identifies new therapeutic targets, Paul Insel (USA)		
09:30	Coffee Break		
	Posters Session		
	(P-1 to P-88)		
11:00 - 13:00	Symposia		
	S1. Pharmacology and toxicology of drug transporters: recent advances.		
	Chairs: Ann Daly, Newcastle University (UK) & Dan Antoine, University of Liverpool (UK)		
Room:	Pharmacogenomics and epigenetic alteration of membrane transporters. Matthias Schwab (Germany)		
Gran Salon Mediteranea	PBPK modelling of drug transporters to facilitate individualized dose prediction. Aleksandra Galetin (UK)		
	ABC transporters in drug-induced liver injury. Jose Manautou (USA)		
	Scientific Perspective on the Evaluation of Transporter-based Drug-drug Interactions, Shiew-Mei Huang (USA)		

	co neio				
	S2. Pain  Chairs: Jose Manuel Baeyens, University of Granada (Spain) & Esther Berrocoso, ESTEVE				
Room:	University of Cadiz (Spain)				
	Pharmacological associations in pain. A real life scenario. <i>Victor Mayoral (Spain)</i>				
Sitges	Implication of noradrenaline in pain and its emotional consequences. Esther Berrocoso (Spain)				
	Sigma-1 receptor blockade unmask peripheral opioid analgesia. <i>Jose Manuel Baeyens (Spain)</i>				
	Animal Models of Pain: Beyond the Evaluation of Reflexes. Enrique Portillo-Salido (Spain)				
	The second of the second of the second second of the secon				
	S3. Ischaemia & Reperfussion				
	Chairs: Anna Planas, IDIBAPS/CSIC (Spain) & I. Mhairi Macrae, University of Glasgow (UK)				
	Cerebrovascular pathology: novel pharmacological strategies. <i>M<sup>a</sup> Ángeles Moro (Spain)</i> Novel therapies for acute ischemic stroke: from pharmacological neuroprotection to vasculoprotection. <i>Sergio Amaro</i>				
Room:	(Spain)				
Favencia	Oxycyte: an intravenous oxygen carrier capable of diagnosing and treating acute ischaemic stroke. <i>I. Mhairi Macrae</i> (UK)				
	Protection against myocardial reperfusion injury by targeting mitochondrial succinate dehydrogenase. <i>Antonio</i>				
	Rodríguez (Spain)				
13:00	Lunch				
14:30					
-	Symposia				
16:30					
	S4. G Protein- Coupled Receptors Pharmacology  TOCRIS				
	Chairs: Ian McGrath, University of Glasgow (UK) & Leonardo Pardo, Autonomous				
Room:	University of Barcelona (Spain)				
Gran Salon	The drug invention template: from "crafted round the natural hormone" to sculpted to fit the receptor. <i>Ian McGrath,</i>				
Mediteranea	(UK)				
Mediteranea	(UK) New approaches to modulate GPCRs. Leonardo Pardo (Spain)				
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- 18:00	O1. Neuropharmacology I	O2. Cardiovascular & Smooth Muscle	O3. Receptors & Ion Channels	O4. Cancer, Pharmacogenomics & Toxicology
17:00	Dual-specificity phosphatase Dusp6 Regulates Long-Term Memory and Erk/MAP-Kinase signaling in Hippocampus. <i>Sindreu, C. (Spain)</i>	Protective effects of PPARβ/δ activation on endothelial dysfunction induced by plasma from lupus patients: Role of endoplasmic reticulum stress. <i>Sánchez, M. (Spain)</i>	Histochemical and functional evidence of metabotropic glutamate 5 receptor existence in brain dopaminergic neurons, with modeling of receptor interactions. <i>Ortiz, J.</i> (Spain)	Identification of differential kinase off-targets among clinical PARP inhibitors: new opportunities for precision oncology?  Antolin, A. (UK)
17:15	Black Swiss Mice: molecular alterations related to mania-like behavior <i>Cortés, E. (Spain)</i>	HIV transgene expression induces endothelial dysfunction and Kv7 channel impairment in the pulmonary vasculature.  Cogolludo, A. (Spain)	The p.P888L SAP97 polymorphism shortens the cardiac action potential duration and the QT interval. <i>Delpón, E.</i> (Spain)	Actinic keratosis: standard compounds validation in both in vitro and in vivo models. <i>Armengol, C.</i> (Spain)
17.30	Chronic $\Delta^9$ -THC administration leads to functional 5HT2A receptors supersensitivity mediated by inhbitory Gi/o proteins in mouse brain cortex <i>Ibarra-Lecue</i> , <i>I.</i> (Spain)	Senescence and late-onset estrogen therapy promote deleterious effects in common carotid artery of female mice: influence of epigenetic regulation.  Costa, T. (Brazil)	Signaling of the fractalkine receptor CX3CR1 and its natural genetic variants: impact of receptor nonsynonymous single nucleotide polymorphisms. García-Silva, A. (Spain)	Pharmacogenomic Alerts in an Electronic Medical History. <i>Simonovich, V.</i> (Argentina)
17:45	α2A- and α2C-Adrenoceptors as Significant Targets for Dopamine and Dopamine Receptor Ligands. Casadó-Anguera, V. (Spain)	Influence of lycopene on metabolic syndrome induced by fructosa in wistar rats" <i>Aparicio, R.</i> (Spain)	Rett-like severe encephalopathy caused by a de novo GRIN2B mutation is attenuated by D-serine dietary supplement. Altafaj, X. (Spain)	Drug induced liver injury assessment: acute hepatitis due to hepatitis e virus, a diagnosis to consider <i>Sanabria</i> , <i>J.</i> ( <i>Spain</i> )
18:00	Plenary Lecture- Cancer epigenetics	- Genes & drugs. <i>Manel Este</i>		
20:00	Social Activity			

### Tuesday, June 20th

08:30	Plenary Lecture- A novel pharmacological paradigm for chronic pain. <i>Antonio Ferrer- Montiel</i>					
	(Spain)					
09:30	Coffee Break					
	Posters Session					
	(P-89 to P-169)					
11:00	Symposia					
13:00	Symposia					
	S7. Being in the right place in the right time: Targeting oxidate stress					
	Chair: Martina Schmidt, University of Groningen (The Netherlands)					
Room:	Measuring ligand concentration where it matters: Assessing the "Micro PK/PD" of adenosine A2a receptor ligands.					
Gran Salon	Steven Charlton (UK)					
Mediteranea	Molecular and function impact of oxidative stress in COPD. Paul A. Kirkham (UK)					
	Targeting mitochondria in oxidative stress via modulation of potassium channels. Amalia Dolga (Netherlands)					
	Mitochondrial dysfunction is a key driver of fibroblast senescence. So what do we target? Darryl Knight (Australia)					
	S8. Inflammation					
	Chair: Ma Jesús Sanz, University of Valencia (Spain)					
	L-selectin shedding is the <sup>3</sup> go <sup>2</sup> signal for neutrophil effector function: a potential therapeutic target in sterile injury.					
	Aleksandar Ivetic (UK)					
Room:	Adipocytokines: novel therapeutic targets in endothelial dysfunction and vascular inflammation? Concha Peiró (Spain)					
Sitges	CXCL16/CXCR6 axis blockade impairs metabolic syndrome-associated endothelial dysfunction and abdominal aortic					
	aneurysm (AAA) development. <i>Mª Jesús Sanz (Spain)</i>					
	Increased platelet and T cell activation in patients with primary hypercholesterolemia is associated to enhanced					
	leukocyte-arterial adhesion. Aida Collado (Spain)					
	DPP4 deletion in adipose tissue promotes hepatic insulin sensitivity via IGF1. <i>Tania Romacho (Spain)</i>					
	S9. Psychopharmacology					
	Chairs: Javier J. Meana, Pais Vasco University (Spain) & Juan Carlos Leza, University Complutense of Madrid (Spain)					
Room:	The prolyl oligopeptidase inhibitor IPR-19 ameliorates cognitive deficits in mouse models of schizophrenia. Roger					
Favencia	Prades (Spain)					
	Role of serotonin 5-HT3 receptors in the treatment of depressive disorders. Luis F. Callado (Spain)					
	Pharmacology of new psychoactive substances. <i>Magi Farré (Spain)</i>					
	Role of inflammatory processes in depression. Lucile Capurón (France)					
13:00	Lunch					
14:30	Symposia					
- 16:30	Symposia					
10.50	S10. Therapeutic Innovation					
	Chair: Eva Martínez - Moragon, Hospital Universitario Dr. Peset, Valencia (Spain)  AstraZeneca					
Room: Gran Salon						
Mediteranea	P2Y12 inhibition in ACS: Platelet and beyond platelet effects. <i>Lina Badimon (Spain)</i> Pharmacoeconomics applied to biological drugs in the management of severe asthma. <i>Eva Martinez-Moragon (Spain)</i>					
	Targeted immunotherapy for cancer treatment, discovering a new era in Oncology. <i>Luis De la Cruz-Merino (Spain)</i>					
	S11 Gastrointestinal and Henatic Pharmacology					
	Chair: Jordi Bruix, CIBEREHD, (Spain) & Marcel Jiménez, Autonomous University of					
Room: Sitges	Barcelona (Spain)					
Jityes						
	The importance of the transportome in hepatic and gastrointestinal diseases. Marçal Pastor- Anglada (Spain)					

	Pharmacological targets for NASH. Ma Luz Martínez (Spain)					
	Immune therapy of liver cancer. Bruno Sangro (Spain)					
	Purine receptors and smooth muscle function in the gastrointestinal tract. <i>Marcel Jiménez (Spain)</i>					
	S12. Teaching Pharmacology					
	Chairs: Silvia Sánchez, Univer	Chairs: Silvia Sánchez, University of Barcelona (Spain) & Josep-Eladi Baños, Pompeu Fabra University (Spain)				
	Are TV medical dramas useful	to teach clinical pharmacolo	gy? An empirical study using	House M.D. Josep Eladi Baños		
	(Spain)					
Room: Favencia	Inter-universitary network for	Inter-universitary network for innovative education in Pharmacology: a common space to improve learning? <i>Marisa</i>				
	Ferrándiz (Spain)	Ferrándiz (Spain)				
	An experience of using E-learning in the teaching of pharmacology. Silvia Sánchez (Spain)  An academic service-learning activity in higher education to promote responsible use of antibiotics. A. Fernández,					
	Ignatova, O. Yashchenko (Spa					
16:30			e Break			
17:00		Selected Posters for	or oral presentation			
-	O5.	O6. Inflammation	<b>O7. Natural Products</b>	O8. Pain & Ischemia		
18:00	Neuropharmacology II		& Teaching Pharmacology			
	"Interleukin-1 receptor	"Suppressor of cytokine	Topical pre-treatment with	"Simvastatin blocks soluble		
	antagonist (il-1ra) and brain	signalling 3 (SOCS3)	a carotenoid from	SSAO/VAP-1 release in		
	endocannabinoids crosstalk	interaction with cavin-1	microalgae reduces	experimental models of		
17:00	to control	links SOCS3 function and	cutaneous UVB-induced	cerebral ischemia: possible		
	neurogenesis" <i>Molina-</i>	cavin-1 stability" <i>Lewis</i> ,	inflammation in hairless	benefits for stroke-induced		
	Holgado, F. (UK)	J.J. (UK)	mice" Rodrigues-Luna,	inflammation control" <i>Unzeta,</i>		
	T	F1/00	A. (Spain)	M. (Spain)		
	The mitochondrial	EVOO phenols,	"Attractive key historical	"Activation of extracellular		
	angiotensin II subtype-2	Hydroxytyrosol and	facts as a tool to teach	signal-regulated kinases (ERK		
	receptor expression declines with ageing, and modulates	hydroxytyrosol acetate, supressed IL-1β-induced	pharmacology" Serés, E. (Spain)	1/2) in the locus coeruleus contributes to pain-related		
17:15	the catecholamine secretion	proinflamamtory mediators	L. (Spaill)	anxiety in arthritic rats" Da		
	in chromaffin cells" <i>Padín-</i>	production in human		Silva, G. (Spain)		
	Nogueira, J.F. (Spain)	synovial fibroblasts" Rosillo,				
		M.A. (Spain)				
	"The effect of buspirone on	"Evaluation of the anti-	"Using cinema films as an	"Treatment of neuropathic		
	the basal ganglia output	inflammatory activity of	innovative educational	pain associated to the spared		
	nuclei is related to the	LXR agonists in in vitro and	strategy to create	nerve injury model in mice:		
17:30	dopaminergic system	in vivo models" <i>López, R.</i>	meaningful learning in	role of sigma-1		
	integrity in rats" <i>Vegas,</i>	(Spain)	pharmacology	receptors" Bravo- Caparrós, I.		
	S. (Spain)		teaching" Cabanillas,	(Spain)		
			A. (Chile)			
	"Neuroprotective effect of	"Psoriatic fibroblasts	"The last frontier: Inter	"Epigenetic mechanisms		
17.45	novel imidazoline l <sub>2</sub> receptor	polarize macrophages to a	professional learning	underlying neuropathic pain		
17:45	ligands in the senescence accelerated mouse prone 8	pro-inflammatory phenotype" <i>Montesinos,</i>	events between dentistry and pharmacy" <i>Durham,</i>	in rats" Francés, R. (Spain)		
	(SAMP8)" <i>Griñan, C. (Spain)</i>	M.C. (Spain)	L. (UK)			
	Plenary Lecture- Pharmacolog			nisms to drug discovery <i>Mª</i>		
18:00	Isabel Loza (Spain)	g, loapg over the gup. billi	ggorormational meetial	to aray alscovery. IVI		
19:00	SEF Assembly					
21:00	Gala Dinner					
21:00	Gala Dilliler					

### Wednesday, June 21st

09:00				
- 11:00	Symposia			
	S13. Neuropharmacology			
Room: Gran Salon Mediterranea	Chairs: Olga Valverde, Pompeu Fabra University (Spain) & Maruja Hurlé, Cantabria University (Spain)			
	Vulnerability factors that predispose to cocaine addiction. Julia García-Fuster (Spain)			
	Potential clinical value of microRNA-30c as biomarker and therapeutic target for neuropathic pain. Monica Tramullas			
	(Spain)			
	Behavioral and molecular alterations induced by maternal alcohol binge consumption in offspring mice. Olga Valverde			
	(Spain)			
	Therapeutic potential of conjugated siRNAs for the treatment of major depressive disorder. <i>Francisco Artigas (Spain)</i>			
	S14. Pharmacology of Anti- Cancer Drugs Chair: Ramón Salazar, IDIBELL, ICO, University of Barcelona (Spain)			
	ABTL0812 an autophagy-anticancer drug in Phase II clinical trials that inhibits PI3K/Akt/mTOR pathway by inducing			
	TRIB3 expression. José Alfón (Spain)			
Room:	Improving immunotherapy strategies in advanced endometrial carcinoma. <i>Josep Maria Piulats (Spain)</i>			
Sitges	New therapeutic proposals emerging from patient-derived preclinical platforms of pediatric solid tumors. <i>Angel</i>			
	Montero (Spain)			
	The Cancer Genome Interpreter: a tool to annotate the biological and clinical relevance of tumor alterations. <i>David</i>			
	Tamborero (Spain)			
	S15. JAK.STAT signalling: new targets and therapeutics for multiple diseases			
	Chairs: Tim Palmer, Bradford (UK) & Ana P. Costa-Pereira, Imperial College (UK)			
	Inflammatory re-tuning of IL-6 mediated Jak-STAT signaling. <i>Simon Jones (UK)</i>			
Room:	The STAT3 paradox in breast cancer: an inducer of cell death and an oncogene. <i>Cristine Watson (UK)</i>			
Favencia	JAK-STAT Pathway in myeloproliferative neoplasms: from JAK2 V617F to calreticulin mutants. <i>Stefan Constantinescu</i>			
	(Belgium)			
	Targeting STAT5 in leukemogenesis – what's new? Veronica Sexl (Austria)			
11:00	Coffee Break			
11.00	Coffee bleak			
11:30	Plenary Lecture- Present and future pharmacological treatment of Alzheimer's disease.			
	Agneta Nordberg, Karolinska Institutet, Stockholm, Sweeden			
12:30	Closing Ceremony			
13:30	Lunch & Departure			

#### **Posters Presentations**

#### Neuropharmacology I

- (P-1)Long-term consequences of treating rats with cocaine at a window of adolescent vulnerability on negative affect in adulthood. García-Fuster, M.J. (Spain)
- (P-2)Dopaminergic degeneration partially modifies the response of the locus coeruleus to noxious stimulus. Paredes, E. (Spain)
- (P-3)Brain specific carnitine palmitoyltransferase 1C (CPT1C) is involved in the hypothalamic regulation of thermogenesis by endocannabinoids-dependent mechanisms. *Rodríquez-Rodríquez, R. (Spain)*
- (P-4) Association of regulatory TPH2 polymorphisms with higher reduction in depressive symptoms in children and adolescents treated with fluoxetine. *Torres, T. (Spain)*
- (P-5) Chronic  $\Delta^9$ -THC administration leads to functional 5HT2A receptors supersensitivity mediated by inhibitory Gi/o proteins in mouse brain cortex. *Ibarra, I. (Spain)*
- (P-6)  $\alpha$ 2A- and  $\alpha$ 2C-adrenoceptor subtypes expression in postmortem prefrontal cortex of subjects with schizophrenia. *Brocos, I.* (*Spain*)
- (P-7)Ketamine-induced hypnosis in mice regulates FADD and MEK-ERK signaling in brain cortex. Salort, G. (Spain)
- (P-8)Serotonin 5-HT3 receptor antagonism potentiates the antidepressant activity of citalopram. Perez del Palomar, B. (Spain)
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- (P-25) Senescence and late-onset estrogen therapy promote deleterious effects in common carotid artery of female mice: influence

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- (P-61) Signaling of the fractalkine receptor CX3CR1 and its natural genetic variants: impact of receptor non-synonymous single nucleotide polymorphisms. *García Silva, A. (Spain)*
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- (P-64) The p.P888L SAP97 polymorphism shortens the cardiac action potential duration and the QT interval. Delpón, E.
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- (P-66) Histochemical and functional evidence of metabotropic glutamate 5 receptor existence in brain dopaminergic neurons, with modeling of receptor interactions. *Ortiz, J. (Spain)*
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- (P-69) Functional μ-Opioid-galanin receptor heteromers in the ventral tegmental area. Moreno, E. (Spain)
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- (P-76) Synthesis and Biological evaluation of novel inhibitors of Signal Transductor and Activator of Transcription (STAT) proteins in hematological malignances. *Guerra, B. (Spain)*
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- (P-83) Prospective drug-induced liver injury registry: clinical characteristics and outcomes of 915 cases. Sanabria, J. (Spain)
- (P-84) Epigenetic and genetic variants in the HTR1B gene and clinical improvement in children and adolescents treated with fluoxetine. *Gassó, P. (Spain)*
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- (P-133) Anti-inflammatory and sedative activities of peperomia galioides: in vivo studies in mice. Vila, E. (Spain)
- (P-134) Hepatoprotective effect of croton hypoleucus following thioacetamide-induced necrosis in rats. Urrutia, T. A. (Mexico)
- (P-135) The reduction in adrenergic and inflammatory serum markers in osteoarthritis patients after treatment with chondroitin sulfate/glucosamine hydrochloride and celecoxib is different according to the presence of bacterial DNA in blood. *Martínez, H.* (*Spain*)
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- (P-140) Anthelmintic activity of essential oils against Anisakis simplex L3 larvae. López, V. (Spain)
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