Acta Pharmacologica Sinica (APS) is an international peer-reviewed pharmacology journal that focuses on the latest in pharmacological research being performed around the world.

Here's a sample of some recently published articles from APS:

In vitro models for the evaluation of angiogenic potential in bone engineering free
Elisabetta Cenni, Francesca Penut, and Nicola Baldini doi:10.1038/aps.2010.143

Epithelial cell polarity and tumorigenesis: new perspectives for cancer detection and treatment
Danila Coradini, Claudia Casarsa, and Saro Oriana doi:10.1038/aps.2011.20

GPCRs and cancer
Rosamaria Lappano and Marcello Maggiolini doi:10.1038/aps.2011.183

Rare adipose disorders (RADs) masquerading as obesity

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Welcome

Dear friends and colleagues,

On behalf of the Spanish Society of Pharmacology it is a great honor to welcome you to Granada. It is my great pleasure to host the most important "pharmacological" event in Europe. This congress will be a wonderful opportunity to bring together all the pharmacologists that cover the whole process of drug development from "bench to bedside", that is basic pharmacology to clinical practice.

Every effort has been made to provide a balanced programme by inviting the most relevant speakers in the different fields of Pharmacology together with contributed oral and poster presentations. It has been planned to be attractive for all pharmacological scientists, with a special emphasis for young investigators. We will be more than 1000 people in what most certainly is going to be one of the most important events in the field.

First of all, I would like to thank the support to all the European Societies, together with the invited speakers for their efforts in promoting the congress. I also appreciate the exhibitors and sponsors participation and collaboration I would like to thank and congratulate all participants who made a scientific contribution to this conference, either by poster or oral presentation. Last but not least, I take this opportunity to thank the members of the local organizing committee and scientific committee for providing us not just an outstanding scientific programme but also a superb social programme, which will allow all participants to enjoy the magic atmosphere that makes Granada one of the most wonderful cities in the world.

I sincerely hope that the pleasant atmosphere of the conference venue and the legendary charm of Granada will be very stimulating for scientific and social exchange, and will contribute to the further development of pharmacology in Europe.

Once again: Welcome to Granada!

Antonio Zarzuelo
Chair of the 6th European Congress of Pharmacology
SS.AA.RR. los Príncipes de Asturias, accediendo a la petición que tan amablemente Les ha sido formulada, han tenido a bien aceptar la

PRESIDENCIA DEL COMITÉ DE HONOR

del "6th EUROPEAN CONGRESS OF PHARMACOLOGY, EPHAR 2012", que se celebrará en Granada del 17 al 20 de julio próximo.

Lo que me complace participarle para su conocimiento y efectos.

PALACIO DE LA ZARZUELA, 2 de mayo de 2012

EL JEFE DE LA CASA DE S.M. EL REY,

SEÑOR PRESIDENTE DEL COMITÉ ORGANIZADOR DEL CONGRESO.

GRANADA
Committees

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President: Their Royal Highnesses, The Prince and the Princess of Asturias

Members
The Honorable Health Minister, Mrs. Ana Mato
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Olga Genilloud, Scientific Director of Medina Foundation R&D, Granada
Amadeu Gavalda, Head of Integrative Pharmacology, Almirall SA, Scientific Committee

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Öner Süzer, Istanbul University, Turkey

ESSENTIAL READING IN
combinatorial
drug therapy

Drug-Acceptor Interactions – Modeling theoretical tools to test and evaluate experimental equilibrium effects by Niels Bindslev, MD, Associate Professor and Lecturer in Physiology at the Department of Biomedical Sciences, Faculty of Health Sciences, University of Copenhagen, Denmark.

An in-depth, yet controversial, exploration of existing tools for analysis of dose-response studies at equilibrium or steady state, this book is essential reading for post-graduate students and researchers engaged in the study of systems biology, networks, and the pharmacodynamics of natural or industrial drugs, as well as for medical clinicians interested in drug application and combinatorial drug therapy.

Price: €76 excl. VAT
ISBN: 978-91-977071-0-7
428 pages, 260 illustrations of which 140 in colour

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1st FLOOR
Andalucía I + II
Andalucía III
Documentation Pick Up
Exhibition & Poster Area
Lunch Area
Manuel de Falla Auditorium
Speaker Room

2nd Floor
Lunch Area

Stand 1: Granada Tourism
Stand 3: Leica Microsystems
Stand 5: ADInstruments
Stand 6: TOCRIS Bioscience / BIOGEN Cientifica
Stand 8: Spanish Society of Pharmacology
Stand 9: WILEY-BLACKWELL
Stand 11: British Pharmacological Society
Stand 12: Gen-Probe Life Science Ltd.
Stand 14-16: Ugo Basile
Stand 17: Abcam Biochemicals
Stand 18-20: Janvier
Stand 19: DMT A/S
Stand 21: Wisepress
Scientific Programme

The programme includes the following sessions:

A **Plenary Session** is a session with no contemporary parallel. Typically with invited lecturers and no oral communications

A **Main Session** is organized by the sponsor in consultation with the Scientific Committee. They run in parallel and with invited lecturers and no oral communications

An **Oral Presentation Session** is generally composed of a variable number of selected oral communications from the same field.

A **Workshop** is a session organized by an external organization with invited speakers on a specific field followed by questions from the audience. The format is autonomously chosen by the organizers.

- Cardiovascular
- Clinic Pharmacology
- Drug Safety and Toxicology
- Endocrinology
- Gastrointestinal/Respiratory Pharmacology
- Neuro/Psycho Pharmacology
- Pharmacogenetics
- Pharmacology of Pain and Inflammation
- Receptors
- Teaching
## Meeting at a Glance

### Tuesday, July 17th 2012

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<thead>
<tr>
<th>Time</th>
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<th>Sessions</th>
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<tbody>
<tr>
<td>17:00 - 20:30</td>
<td>Documentation Pick Up</td>
<td>Receptors: Biological and Therapeutic Roles of Glycine Receptors</td>
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<tr>
<td>20:30 - 21:00</td>
<td>Opening and Welcome Session</td>
<td>Pharmacology of Pain and Inflammation: Botulinum Toxin type - A and Pain</td>
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<tr>
<td>21:00 - 21:30</td>
<td>Welcome Cocktail</td>
<td>Cardiovascular Pharmacology: Novel Targets in the Control of Vascular Function</td>
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### Wednesday, July 18th 2012

<table>
<thead>
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<th>Location</th>
<th>Sessions</th>
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<tr>
<td>08:00 - 09:00</td>
<td>Documentation Pick Up</td>
<td>Pharmacogenetics: Pharmacogenetics as a Tool to Predict Drug Response. Practical Applications in Cardiovascular Therapeutics</td>
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<tr>
<td>09:00 - 10:30</td>
<td>Oral Presentations Receptors (C001-C005)</td>
<td>Pharmacology of Pain and Inflammation (C016-C020)</td>
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<tr>
<td>10:30 - 11:00</td>
<td>Coffee Break and Poster viewing</td>
<td>Oral Presentations Cardiovascular Pharmacology (C011-C015)</td>
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<td>Oral Presentations Receptors (C026-C030)</td>
<td>Oral Presentations Drug safety and Toxicology (C006-C010)</td>
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<tr>
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<td>Pharmacogenetics as a Tool to Predict Drug Response. Practical Applications in Cardiovascular Therapeutics</td>
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<td>13:30 - 15:00</td>
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<tr>
<td>15:00 - 16:00</td>
<td>Oral Presentations Receptors (C026-C030)</td>
<td>Pharmacology of Pain and Inflammation (C036-C040)</td>
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<td>16:00 - 17:30</td>
<td>Oral Presentations Pharmacology of Pain and Inflammation (C031-C035)</td>
<td>Cardiovascular Pharmacology: Protective Agents against Myocardial Ischemia/Reperfusion Injury</td>
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<td>Wine and poster viewing</td>
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<tr>
<td>18:00-19:00</td>
<td>Workshop Integration of Traditional and Modern Medicine</td>
<td>Workshop A Drug Information Tool in Spain: Bot PLUS</td>
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<tr>
<td>Time</td>
<td>Garcia Lorca Auditorium</td>
<td>Manuel de Falla Auditorium</td>
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<tr>
<td>08:30 - 09:00</td>
<td>Documentation Pick Up</td>
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<tr>
<td>09:00 - 10:30</td>
<td>Neuro/Psycho Pharmacology&lt;br&gt;New Perspectives in the Treatment of Sleep Disorders</td>
<td>Cardiovascular Pharmacology&lt;br&gt;The Carotid Body: Target for News Drugs and Advanced Therapies</td>
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<tr>
<td>10:30 - 11:00</td>
<td>Coffee Break and Poster viewing</td>
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<td>11:00 - 12:00</td>
<td>Oral Presentations Neuro/Psycho Pharmacology&lt;br&gt;(C041-C045)</td>
<td>Oral Presentations Cardiovascular Pharmacology&lt;br&gt;(C051-C055)</td>
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<td>12:00 - 13:30</td>
<td>Neuro/Psycho Pharmacology&lt;br&gt;Present and Future of Immunoglobulins in the Management of Neurological Diseases</td>
<td>Cardiovascular Pharmacology&lt;br&gt;Organic Nitrates from Molecular Mechanisms to Clinics Implications</td>
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<td>13:30 - 15:00</td>
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<td>15:00 - 16:00</td>
<td>Oral Presentations Neuro/Psycho Pharmacology&lt;br&gt;(C061-C065)</td>
<td>Oral Presentations Pharmacology of Pain and Inflammation&lt;br&gt;(C036-C040)</td>
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<td>16:00 - 17:30</td>
<td>Neuro/Psycho Pharmacology&lt;br&gt;Second Generation Antipsychotics and Serotonin 5HT 2A Receptors</td>
<td>Pharmacology of Pain and Inflammation&lt;br&gt;Novel Mechanism and Molecules for the Treatment if Inflammation</td>
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<td>17:30 - 18:00</td>
<td>Wine and Poster viewing</td>
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<tr>
<td>18:00 - 19:00</td>
<td>I Meeting of the SEF Young Researchers</td>
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### 6th European Congress of Pharmacology

**Friday, July 20th 2012**

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<th>Manuel de Falla Auditorium</th>
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<tr>
<td>09:00 - 10:30</td>
<td>Receptors</td>
<td>Neuro/Psycho Pharmacology</td>
<td>Endocrinology and Metabolism</td>
<td>Pharmacogenetics</td>
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<td></td>
<td>Novel Targeting of the 5-HT3 for Potential Therapeutic Benefit</td>
<td>The Pharmacological Modulation of Adult Neural Stem/Progenitor Cells</td>
<td>Antidiabetic Treatments and the Brain</td>
<td>Personalized Medicine: New Challenge in Osteoarthritis</td>
</tr>
<tr>
<td>10:30 - 11:00</td>
<td>Coffee Break and Poster viewing</td>
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<tr>
<td>11:00 - 12:00</td>
<td>Oral Presentations Cardiovascular Pharmacology (C081-C085)</td>
<td>Oral Presentations Pharmacology of Pain and Inflammation (C096-C100)</td>
<td>Oral Presentations Endocrinology and Metabolism (C091-C095)</td>
<td>Oral Presentations Pharmacogenetics-Metabolism (C086-C090)</td>
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<tr>
<td>12:00 - 13:30</td>
<td>Clinic Pharmacology Past, Present and Future of Oral Single Tablet Regimen in Public Health Diseases. Toward the Standard of Care Based on Valuable Outcomes</td>
<td>Pharmacology of Pain and Inflammation Sigma-1 Receptors: A New Target for Pain Treatment</td>
<td>Respiratory Pharmacology New Therapies for Pulmonary Hypertension</td>
<td>Teaching Pharmacology to Medical Students</td>
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<td>13:30 - 15:00</td>
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<td>15:00 - 16:00</td>
<td>Oral Presentations Pharmacogenetics and cancer (C101-C105)</td>
<td>Oral Presentations Respiratory Pharmacology (C106-C110)</td>
<td>Oral Presentations Teaching (C111-C115)</td>
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<td>16:00 - 17:30</td>
<td>Receptors TRP Channels</td>
<td>Pharmacology of Pain and Inflammation: A Therapeutic Target in Numerous Diseases</td>
<td>Respiratory Pharmacology Respiratory Pharmacology and Pulmonary Surfactant</td>
<td>Teaching Standards for PhD Education in Biomedicine</td>
</tr>
<tr>
<td>17:30 - 18:00</td>
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Tuesday, July 17th 2012

20.30 – 21.00
García Lorca Auditorium

Opening Session

Francisco González Lodeiro, Rector, University of Granada
Ulrich Förstermann, President, Federation of European Pharmacological Societies (EPHAR)
Teresa Tejerina, President of the Spanish Society of Pharmacology
Antonio Zarzuelo, Organizing Committee Chair of the 6th European Congress of Pharmacology
Juan Tamargo, Scientific Committee Chair of the 6th European Congress of Pharmacology

Wednesday, July 18th 2012

09.00 – 10.30
García Lorca Auditorium

Main Session

Biological and Therapeutic Roles of Glycine Receptors
Sponsor: British Pharmacological Society
Chair:
Robert J. Harvey, Department of Pharmacology, The School of Pharmacy, London, UK

Pathomechanisms of glycine receptor channelopathies and regeneration of synaptic plasticity
Carmen Villmann, Institut für Biochemie, University Erlangen-Nürnberg, Germany

Glycine receptor α2 or α3 subtypes control pain, rhythmic breathing and locomotor activity
Robert J. Harvey, Department of Pharmacology, the School of Pharmacy, London, UK

A novel role for the glycine receptor α4 subunit in spinal and hindbrain control of startle and motility
Maximiliano Suster, Sars International Centre, Bergen, Norway

Mechanisms of glycine receptor α1β subtype dysfunction in startle disease
Trevor G. Smart, Department of Neuroscience, Physiology & Pharmacology, University College London, UK
### Main Session

**Botulinum Toxin Type-A and Pain**

**Sponsor:** Croatian Pharmacological Society  
**Chair:** Zdravko Lackovic, University of Zagreb School of Medicine, Zagreb, Croatia

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<tr>
<th>Title</th>
<th>Speaker</th>
<th>Institution</th>
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<tbody>
<tr>
<td>Clinical application of Botulinum toxin A in pain: where we are now?</td>
<td>Maja Relja, Movement Disorders Center Department, University of Zagreb, School of Medicine, Zagreb, Croatia</td>
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</tr>
<tr>
<td>Behavioural evidence for central origin of the antinociceptive action of Botulinum toxin type A</td>
<td>Lidija Bach-Rojecky, Faculty of Pharmacy and Biochemistry, University of Zagreb, Croatia</td>
<td></td>
</tr>
<tr>
<td>Modulatory action of Botulinum toxin type A on neuropatic pain: behavioral and immunohistochemical studies in animal models</td>
<td>Siro Luvisetto, Institute of Neuroscience Psychobiolog and Psychopharmacology, Roma, Italy</td>
<td></td>
</tr>
<tr>
<td>Recent histochemical and physiological evidences for central effects of Botulinum toxin type A. what we know and what we don't know?</td>
<td>Zdravko Lackovic, Department of Pharmacology &amp; Croatian Brain Research Institute, University of Zagreb, School of Medicine, Croatia</td>
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### Main Session

**Novel Targets in the Control of Vascular Function**

**Sponsor:** University of Granada  
**Chairs:** Ulrich Förstermann, Johannes Gutenberg University, Mainz, Germany  
Juan Tamargo, Complutense University, Madrid, Spain

<table>
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<tr>
<th>Title</th>
<th>Speaker</th>
<th>Institution</th>
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<tr>
<td>Pharmacological approaches and mechanisms to prevent vascular oxidative stress</td>
<td>Ulrich Förstermann, Johannes Gutenberg University, Mainz, Germany</td>
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<tr>
<td>From receptor modulators to microRNAs: new therapeutic targets for vascular function</td>
<td>Chantal Dessy, Université Catholique de Lovain, Bruxelles, Belgium</td>
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<tr>
<td>Role of PPARβ in vascular tone in hypertension</td>
<td>Rosario Jiménez, University of Granada, Granada, Spain</td>
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<tr>
<td>Microparticles: the new players as tools and targets in the regulation of vascular function</td>
<td>Ramaroson Andriantsitohain, University of Angers, France</td>
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Main Session
Pharmacogenetics: from Drug Development to Clinical Practice
Sponsor: Instituto Roche
Chair:
Julio Benitez, University of Extremadura Medical School & Infanta Cristina University, Badajoz, Spain

Drug metabolism within the brain and drug response
Rachel Tyndale, Centre for Addiction and Mental Health, University of Toronto, Department of Pharmacology & Toxicology, Toronto, Ontario, USA

Rational study designs for pharmacogenetics in clinical research
Julia Stingl, University Ulm, Institute of Pharmacology of Natural Products and Clinical Pharmacology, Ulm, Germany

Pharmacogenomics and drug safety
Munir Pirmohamed, The Wolfson Centre for Personalised Medicine, Institute of Translational Medicine, University of Liverpool, UK

Pharmacogenetics role in clinical practice
Julio Benitez, University of Extremadura Medical School & Infanta Cristina University, Badajoz, Spain

Oral Presentations on Receptors
Chair:
Fermin Sanchez de Medina, University of Granada, Spain

C001 Biased agonism of Mu-Opioid receptor ligands in T Lymphocytes is involved in the induction of interleukin-4
J Kraus, S Lanciotti, C Borner

C002 E1R, a novel positive modulator of sigma 1 receptors, attenuates scopolamine-induced cognitive impairment in mice
L Zvejniec, B Shvalbe, R Vilskersts, R Mezhapuke, M Vorona, G Veinbergs, I Misane, I Stonans, I Kalvinsh, M Dambrova

C003 Uncompensated upregulation of ryanodine receptor 2 with unchanged other calcium regulating proteins expression plays a significant role in early development of anthracycline cardiomyopathy
J Klimas, D Kucerova, G Doka, J Kmecova, P Musil, K Turcekova, P Ochodnicky, P Krenek, P Babal, P Boknik, J Kyselovic

C004 Identifying the active conformation of the mGlu4 receptor positive allosteric modulator VU0155041: Implications for drug discovery
Y Harrak, X Rovira, P González-Bulnes, F Malhaire, C Goudet, J-P Pin, J Giraldo, A Llebaria
Oral Presentations on Pharmacology of Pain and Inflammation
Chair: Antonio Garcia, Universidad Autónoma de Madrid, Spain

C016 Histopathology of Inhalation of Industrial Bleach and Detergent Mixture on Lung in Mice
G Vaezi

C017 Melanocortin receptors are novel effectors of macrophage efferocytosis and promote resolution of inflammation
T Montero-Melendez, T EN Jonassen, M Seed, M Perretti

C018 Direct inhibition of cold-activated ion channel TRPM8 by Galpha q protein
X Zhang, S Mak, L Li, A Parra, B Denlinger, C Belmonte, P McNaughton

C019 Is the KH type splicing regulatory protein (KSRP) the main mediator of the anti-inflammatory effects of resveratrol?
J Art, V Besche, M Bros, H Li, N Handler, F Bauer, T Erker, F Behnke, B Mönch, VM Dirsch, O Werz, H Kleinert, A Pautz

C020 Effect of chondroitin sulfate on the factors involved in synovial inflammation
J Martel-Pelletier, F Mineau, E Montell, J Vergés, J P Pelletie

Oral Presentations on Cardiovascular Pharmacology
Chair: Pilar D’Ocón, University of Valencia, Spain

C011 Effects of α1-adrenoceptor modulation, using tamsulosin, on spontaneous activity in the guinea pig prostate gland
B Chakrabarty, A Dey, M Lam, S Ventura, B Exintaris

C012 Kv7 Channel activation reduces spontaneous excitability of mouse isolated detrusor smooth muscle, whilst leaving stimulus-evoked contractions unaffected
P Sidaway, J Bowen, F Caputo, K Brain

C013 Muscarinic receptors and adrenoceptors are means of nearly unchanged heart function in M2 KO mice
J Benes, E Varejkova, V Farar, J Rotkova, J Myslivecek

C014 A novel mechanism for the genesis of arrhythmias? The role of the low affinity β1-adrenergic receptor and CGP12177 in spontaneous calcium release in rat atrial myocytes
C S Sam, T B Bolton, I Piper, A Hoppe, D Greenhill, N S Freestone

C015 F 373280, (D)-panthenol mono-ester of DHA: a novel antiarrhythmic compound for the treatment of atrial fibrillation
E Dupont-Passelaigue, R Létienne, C Pignier, B Le Grand
11.00 - 12.00
Oral Presentations on Drug Safety and Toxicology
Chair:
Maria Isabel Lucena, University of Malaga, Spain

- C006 Control and elimination of bacterial contaminants in pharmacological experiments
  E Kmonickova, P Kostecka, P Jansa, Z Zidek

- C008 Late changes after a euglycaemic insulin clamp can lead to significant increases in QTcF in healthy subjects

- C009 Alterations on biological systems caused by in vivo PCB126 inhalation exposure in rats
  A L Shimada, S M Bolonheis, A Nakasato, S H Farsky

- C010 Medication incidents related to technology in a University-affiliated general hospital in 2006-2010
  B M Y Cheung, N R Samaranayake, C M W Chui

12.00 - 13.30
Plenary Session
Pharmacogenetics as a Tool to Predict Drug Response. Practical Applications in Cardiovascular Therapeutics
Simone Tabassome, Saint Antoine Hospital, Pierre et Marie Curie University (UPMC), Paris, France

Sponsor: European Association for Clinical Pharmacology and Therapeutics (EACPT)

13.30 - 15.00
Lunch

15.00 - 16.00
Oral Presentations on Receptors
Chair:
Ángel Cogolludo, Complutense University, Madrid, Spain

- C027 Molecular analysis of nitric oxide production by estrogen and selective estrogen receptor modulators (SERM)
  M Heras, A Paula Dantas

- C028 Activation of AMPK by metformin protects infarcted myocardium through suppression of toll-like receptor activity
  A Garjani, H Soraya, S Farajnia, M Rameshrad, A Khorrami, A Banani, N Maleki-Dizaji

- C029 Use of scintillation proximity assay (SPA) for the characterization of the specific G-protein subtypes stimulated by different GPCRs in postmortem human brain tissue
  P Miranda-Azpiazu, R Diez-Alarcia, L F Callado, J J Meana

- C030 Calcium oscillations and their inhibition by different drugs in human mesenteric arteries
  J Navarro-Dorado, M Garcia-Alonso, M Ramajo, S Redondo, U Medina-Moreno, T Tejerina
Oral Presentations on Pharmacology of Pain and Inflammation

Chair:
Carlo Ricardi, Università degli Studi di Perugia, Italy

C036 The role of transient receptor potential ankyrin 1 (TRPA1) receptor activation in hydrogen-sulphide-induced CGRP-release and vasodilation
E Pinter, Zs Hajna, G Pozsgai, T Bagoly, L Boros, A Kemeny, Zs Helyes, J Szolcsanyi

C037 5-HT7 receptors: A novel therapeutic target for inflammatory pain
A Dogrul, M Seyrek, O Yesilyurt, S Tasdemir, Z Halici

C038 Effect of agonist (Nociceptin/Orphanin FQ) and antagonist (UFP-101) of the NOP receptor system in a rat model of experimental colitis
C Petrella, C Giulì, H Eutamene, C Cartier, M Leveque, A Bedini, S Spampinato, L Bueno, V Theodorou, M Broccardo, G Improta, S Agostini

C039 Could shikonin, a drug used in traditional Chinese medicine, be effective in ulcerative colitis?
I Andújar, A Martí, J L Ríos, M C Recio

C040 Lack of geranylgeranyltransferase activity in gut epithelial cells leads to disruption of intestinal homeostasis
R López-Posadas, M Bergó, C Becker, F Sánchez de Medina, I Atreya

Oral Presentations on Cardiovascular Pharmacology

Chair:
Francisco Pérez Vizcaíno, Complutense University, Madrid, Spain

B M Y Cheung, C Li, NR Samaranayake, K L Ong, H K Wong

C032 Comparative study of myocardial infarction treatment with or without microencapsulated stem cells in a porcine model
G Gomez-Mauricio, A Acarregui, F M Sánchez-Margallo, D Celdrán, G Orive, R Hernández, J L Pedraz, M F Martín-Cancho

C033 Synergistic protection against cardiac ischemia-reperfusion injury by simultaneous inhibition of MLC1 phosphorylation and its degradation by MMP-2
V J Cadete, H B Lin, J Sawicka, G Sawicki

C034 Promoter hypomethylation Upregulates Na+-K+-2Cl-cotransporter 1 in angiotensin II-induced hypertensive rats
I K Kim
C035 Estrogens modulate contractile effect of serotonin in aorta from female middle-aged senescence-accelerated mice
S Novella, P Medina, A P Dantás, C Bueno-Beti, G Segarra, C Hermenegildo

Oral Presentations on Neuro/Psycho Pharmacology

C021 Implication of nuclear factor (erythroid-derived 2)-like 2 (Nrf2) in depressive disorders

C022 Effects of PEA and Luteolin in an animal model of anxiety/depression in neurogenesis-dependent pathway
R Crupi, A Ahmad, E Esposito, S Cuzzocrea

C023 The involvement of oxytocin in the pro-cognitive effects of angiotensin IV on one-trial learning
S Linsdall, R Payne, PR Gard

C024 Hinokiresinols reduce rat cerebral ischemic injury via stereo-specific antioxidant and anti-inflammatory activities
C Ju, S Hwang, G S Cho, I Y Choi, G Kondaji, Y Choi, W K Kim

C025 Dysregulation of 5HT2A and mGlu2 receptors in rat cortex after chronic treatment with antipsychotics

Main Session
Recent Developments in Cys-loop Receptor Structure and Function

Introduction: Cys-loop receptors in the 2nd decade of the 21st century
Sarah Lummis, University of Cambridge, UK

Structural revelations from pLGIC homologs
Chris Ulens, University of Leuven, Belgium

What single channels tell us about agonist efficacy?
Lucia Silvilotti, University College London, UK

Novel compounds to distinguish homo vs heteromeric 5-HT3 receptors
Andrew Thompson, University of Cambridge, UK
Determinants of ion conduction in cys-loop receptors
Tim Hales, University of Dundee, UK

Main Session
Novel Targets for Treatment of Inflammatory Diseases
Sponsor: Italian Society of Pharmacology
Chairs:
Carlo Riccardi, University of Perugia, Italy
Thomas Brunner, University of Konstanz, Germany

Anti-inflammatory GPCRs as novel targets to harness the resolution of inflammation
Mauro Perretti, William Harvey Research Institute, Barts and The London School of Medicine, London, UK

Nuclear receptors as new targets for inflammation
Salvatore CuzzocREA, University of Messina, Italy

Anti-inflammatory effects of antibiotics
Mª Elena Rodriguez, CIBERehd-Department of Pharmacology, University of Granada, Granada, Spain

Local glucocorticoid synthesis as a regulatory mechanism and therapeutic target in inflammatory bowel disease
Thomas Brunner, University of Konstanz, Germany

Main Session
Protective Agents Against Myocardial Ischemia/Reperfusion Injury
Chairs:
Alain Berdeaux, Creteil, France
Juan Tamargo, Complutense University, Madrid, Spain

Twenty five years of pre/postconditioning: what lessons for a pharmacological approach of cardioprotection?
Alain Berdeaux, Creteil, France

The late sodium current as a new therapeutic target in myocardial ischemia and arrhythmias
Juan Tamargo, Complutense University, Madrid, Spain

Mitochondria as a pharmacological target for cardioprotection
David Garcia-Dorado, Barcelona, Spain

Mild hypothermia and cardioprotection: Pharmacological and therapeutic applications
Renaud Tissier, Department of Pharmacology, Medicine faculty of Créteil and Inserm Unit U955, Paris-East University, France
16.00 - 17.30 Andalucia III
Main Session
Phytocannabinoid-Based Medicines: Promising Perspectives for Brain Disorders
Sponsor: Almirall
Chairs:
Vincenzo Di Marzo, Institute of Biomolecular Chemistry, CNR, Pozzuoli, Italy
Javier Fernández-Ruiz, Complutense University, Madrid, Spain

Phytocannabinoids: Ancient compounds acting on novel targets
Vincenzo Di Marzo, Institute of Biomolecular Chemistry, CNR, Pozzuoli, Italy

Phytocannabinoid-based therapy in brain tumors
Manuel Guzmán, Complutense University, Madrid, Spain

Phytocannabinoid-based therapy in psychiatric disorders
Daniela Parolaro, University of Insubria, Italy

Phytocannabinoid-based therapy in neurodegeneration
Javier Fernández-Ruiz, Complutense University, Madrid, Spain

17.30 - 18.00 Wine and Poster Viewing

18.00 - 19.00 Workshop
García Lorca Auditorium
Integration of Traditional and Modern Medicine
Chairs:
Prof. Michael Mulvany, Denmark
Prof. Arunabha Ray, India

Translational Research in Traditional Medicine: An experience in Bronchial Asthma
Dr. Kavita Gulati, Associate Professor in Pharmacology, V.P. Chest Institute, Faculty of Medicine, University of Delhi, Delhi, India

A potential of 3, 5, 7, 3’, 4'-pentamethoxyflavone from kaempferia parviflora on treatment of erectile dysfunction: study in isolated human cavernosum
Dr. Chaweewan Jansakul, Associate Professor in Physiology, Faculty of Science, Prince of Songkla University, Hatyai, Songkhla, Thailand

Neuroimmunomodulation by herbal adaptogens
Prof. Arunabha Ray, Department of Pharmacology, V.P. Chest Institute, Faculty of Medicine, University of Delhi, Delhi, India

18.00 - 19.00 Workshop
Andalucia I + II
A drug information tool in Spain: Bot PLUS
Organized by: Consejo General de Colegios Oficiales de Farmaceúticos

18.00 - 19.00 Seminar on High Content Screening
Andalucia III
Organized by: Leica Microsystems
Main Session

**New Perspectives in the Treatment of Sleep Disorders**

*Sponsor: Ferrer*

**Chairs:**
- Thomas Roth, Sleep Disorders and Research Center, Henry Ford Hospital, Detroit, USA
- Maria Antonia Quera Salva, Sleep Unit, Raymond Poincaré Hospital, Garches, France

- **Pathophysiology of sleep disorders**
  - Luc Staner, Clinical Sleep Research Unit, Rouffach Hospital, France

- **Unmet needs in sleep disorders including comorbidities**
  - Thomas Roth, Sleep Disorders and Research Center, Henry Ford Hospital, Detroit, USA

- **Advancements made in the development of Orexin for sleep disorders**
  - Luis de Lecea, Stanford University School of Medicine, Palo Alto, USA

- **Evaluation of GABA agonists for the treatment of insomnia; The good, the bad & the newer generation**
  - Maria Antonia Quera Salva, Sleep Unit, Raymond Poincaré Hospital, Garches, France

Main Session

**The Carotid Body: Target for New Drugs and Advanced Therapies**

*Sponsor: The Portuguese Society of Pharmacology*

**Chair:**
- Maria Emilia Monteiro, University of Lisbon, Portugal

- **Oxygen sensing and metabolic disturbances**
  - Silvia Conde, Nova University of Lisbon, Lisbon, Portugal

- **Hypertension in chronic intermittent hypoxia/obstructive sleep apnoea**
  - Peter W de Leeuw, University Hospital Maastricht, The Netherlands

- **Cell therapy in Parkinson disease**
  - Ricardo Pardal, Institute of Biomedicine of Sevilla (IBiS), University of Sevilla, Spain

- **Carotid body chemoreception in heart failure**
  - Harold D. Schultz, Department of Cellular & Integrative Physiology, College of Medicine, University of Nebraska, Omaha, Nebraska, USA
09.00 - 10.30  
Main Session  
**Symptomatic Slow Acting Drugs for Osteoarthritis: What’s the Evidence?**  
*Sponsor: Bioibérica Farma*

**Chairs:**  
*Maribel Lucena, Hospital Universitario Virgen de la Victoria, Faculty of Medicine, University of Málaga, Spain*  
*Antonio García, Faculty of Medicine, Universidad Autónoma de Madrid, Spain*

- **Welcome and introduction**  
  *Maribel Lucena and Antonio García*

- **The pathophysiology of osteoarthritis and treatment**  
  *Pascal Richette, Department of Rheumatology, Lariboisière Hospital Paris, Paris, France*

- **Chondroitin sulfate: review of clinical efficacy**  
  *Antonio García, Faculty of Medicine, Universidad Autónoma de Madrid, Madrid, Spain*

- **Treatment of knee osteoarthritis in patients with moderate-to-severe pain**  
  *Jordi Monfort, Hospital del Mar, Barcelona, Spain*

09.00 - 10.30  
Main Session  
**Interfering with the Crosstalk between Immune Cells in Gastrointestinal Disorders**  
*Sponsor: University of Granada*

**Chair:**  
*Julio Galvez, Department of Pharmacology, University of Granada, Spain*

- **Mechanism of action of anti-TNFs in inflammatory bowel disease**  
  *Gijs R Van den Brink, Tytgat Institute for Liver and Intestinal Research, Amsterdam, The Netherlands*

- **Therapeutic targets for chronic inflammatory intestinal diseases. Where are we and what is the future?**  
  *Eduard Stange, Department of Internal Medicine I, Robert Bosch Hospital, Stuttgart, Germany*

- **Neutrophils at the interface between innate and adaptive immunity**  
  *Marco Cassatella, Department of Pathology and Diagnostics, Division of General Pathology, University of Verona, Italy*

- **Educating the immune system with mesenchymal stem cells: a therapeutic opportunity for inflammatory bowel diseases**  
  *Mario Delgado, Instituto de Parasitologia y Biomedicina “Lopez-Neyra”, CSIC. Granada, Spain*

10.30 - 11.00  
Coffee Break and Poster Viewing
Oral Presentations on Neuro/Psycho Pharmacology

Chair: Javier Meana, University of the Basque Country, Spain

C041 Gene expression changes during zebrafish development induced by morphine exposure
I Rodriguez-Martin, M J Herrero-Turrion, R E Rodriguez

C042 Essential oil of aniseed (Pimpinella anisum, L.) influences effects of drugs acting in central nervous system in mice
I Samojlik, V Mijatovic, S Petkovic, B Skrbić, B Bozin

C043 Transient exposition to neonatal hypothyroidism increases hepatic gene expression of Suppressors of Cytokine Signaling during catch-up growth and in adulthood
L Fernández-Perez, M Mirecki-Garrido

C044 Identification of novel Neuropeptide S receptor ligands as treatments for substance abuse
S P Runyon, C Hassler, N Goeders, C Schmoutz, R Reinscheid

C045 Absence of endogenous Toll-like receptors (TLRs) worsened secondary inflammatory process after spinal cord compression injury in mice
I Paterniti, D Impellizzeri, R Crupi, A Ahmad, E Esposito, S Cuzzocrea

Oral Presentations on Cardiovascular Pharmacology

Chair: María Teresa Tejerina, Complutense University, Madrid, Spain

C051 Microparticles induce pulmonary artery contraction through activation of acid sphingomyelinase and inhibition of Kv currents
J Moral-Sanz, B Barreira, L Moreno, E Moreno, R Soleti, D Morales-Cano, R Andriantsitohaina, A Cogolludo, C Martinez, F Perez-Vizcaíno

C052 Pharmacological concentrations of mitoxantrone are able to activate caspases and dually modify glutathione pathways in HL-1 cardiomyocytes
V M Costa, J P Capela, M L Bastos, J A Duarte, F Remião, F Carvalho

C053 Novel HSF-1 mimetics as therapeutics to restore proteostasis in Atrial Fibrillation
Bianca JJM Brundel, F Hoogstra-Berneds, I Kuipers, A Heeres, H Steen, R H Henning

C054 Anger expression in patients with arterial hypertension: the influence of antihypertensive treatment
M Caramona, E Silva, Z Mendes, E Ponciano
C055 Study of cardiovascular safety profile of Budesonide/Formoterol fixed combination in treatment of chronic obstructive pulmonary disease in patients with cardiovascular diseases
L Bolieva

11.00 - 12.00
Oral Presentations on Drug Safety and Toxicology
Chairs:
Julio Benítez, University of Extremadura, Spain

C056 Sevoflurane was more effective than remifentanil controlling hemodynamic function in patients undergoing laparoscopy

C057 Autoimmunity in repeated drug-induced liver injury (DILI) episodes
C Stephens, I Medina-Cáliz, M C Fernández, H Hallal, N Hernández, F Bessone, A F González, A Sanchez, M di Pace, E Ulzurrun, R J Andrade, M I Lucena

C058 Using medications in pregnancy according to risk category
M Asceric, S Loga - Zec

C059 Multi-detection of three marine toxin groups by a solid-phase inhibition immunoassay using a microsphere-flow cytometry system
M Fraga, N Vilariño, M C Louzao, K Campbell, C T Elliott, L M Botana

C060 Assessment of drug use in special situations: evidence level to guide off-label prescribing
E Blanco, A Muñoz, M E Rodriguez-Mateos, M Saldaña, EL Márquez, M V Manzano

11.00 - 12.00
Oral Presentations on Gastrointestinal/Respiratory Pharmacology
Chairs:
Mario Delgado, López-Neyra Institute, Granada, Spain
Gijs R. Van den Brink, Tygat Institute for Liver and Intestinal Research, Amstedam, The Netherlands

C046 Mechanisms involved in the antiproliferative and proapoptotic effects of unsaponifiable fraction of extra virgin olive oil on HT-29 cancer cells
A Cárdeno, M Sánchez-Hiadalgo, C Alarcón de la Lastra

C047 Minocycline attenuates piroxicam-induced colonic damage in IL-10/- KO mice
N Garrido-Mesa, F Algieri, P Zorrilla, A Rodríguez-Nogales, J Mañe, A Zarzuelo, M Comalada, M E Rodriguez-Cabezas, J Galvez
C048 Pharmacological screening of essential oils for identification of NF-κB and iNOS inhibitors in a human intestinal epithelial cell line
I Ferreira, A T Rufino, M C Lopes, L Salgueiro, C Cavaleiro, A F Mendes

C049 Effect of neurokinin 1 (NK1) receptor antagonism and the differential role of NK1 receptors in dextran-sulfate (DSS) induced colitis in mice
I Szitter, E Pintér, A Perkecz, Á Kemény, C Pietra, J Quinn, A Zimmer, A Berger, Zs Helyes

C050 Severity of enteric nervous system neuropathy during Herpes simplex virus type 1 infection is related to viral replication
M Qesari, P Brun, P Marconi, R Manservigi, I Castagliuolo, M C Giron

Main Session
Present and Future of Immunoglobulins in the Management of Neurological Diseases
Sponsor: Grifols
Chair: J. García Sevilla, University of the Balearic Islands, Spain

Benefits of the IVIGs in the management of neuromuscular diseases
Isabel Illa, Hospital Santa Creu i Sant Pau, Barcelona, Spain

IVIGs in chronic inflammatory demyelinating neuropathies, CIDP (ICE Study) Clinical implications
Hans Peter Hartung, Heinrich-Heinze-University, Düsseldorf, Germany

IVIGs in other inflammatory neuropathies
Eduardo Nobile-Orazio, Milan University, IRCSS Instituto Clinico Humanitas, Italy

Main Session
Organic Nitrates from Molecular Mechanism to Clinic Implications
Organizer: Prof. Dr. Hartmut Kleinert.
Sponsor: Actavis Deutschland GmbH & Co. KG
Chairs:
Ulrich Förstermann. University, Mainz, Germany
Hartmut Kleinert. University, Mainz, Germany

New insights into bioactivation and effects of organic nitrates, nitrate tolerance and cross-tolerance
A. Daiber, Johannes Gutenberg University Hospital, 2nd Medical Clinic, Molecular Cardiology, Mainz, Germany
Mechanisms of action of organic nitrates: a clinician’s perspective
T. Gori, Johannes Gutenberg University Hospital, 2nd Medical Clinic, Molecular Cardiology, Mainz, Germany

Differential effects of organic nitrates on endothelial progenitor cells
T. Thum, Department of Cardiology and Angiology, Hannover Medical School, Hannover, Germany

Nitric oxide pathway in hypertrophied heart: New therapeutic uses of nitric oxide donors
C. Delgado, Department of Pharmacology, Faculty of Medicine, Complutense University, Madrid, Spain

12.00 - 13.30
Main Session
Andalucia I + II

New Frontiers in Incretin Based Drugs for the Treatment of Diabetes Mellitus
Organizer: Spanish Society of Pharmacology
Sponsor: Lilly
Chairs:
Michaela Diamant, Amsterdam, The Netherlands
Javier Salvador, Clínica Universidad de Navarra, Pamplona, Spain

The Pharmacologic Basis of incretin action. Differences Among GLP-1 Receptor Agonists and DPP-4 Inhibitors
Michaela Diamant, Department of Internal Medicine, VU University Medical Center (VUMC) Amsterdam, The Netherlands

The Role of Incretins in Glucose Homeostasis and Diabetes treatment
Manel Puig, Hospital Universitari Germans Trias i Pujol, Universitat Autònoma of Barcelona, Spain

Role of Incretin hormones in the central control regulation of energy balance and metabolism
Carlos Dieguez, Department of Physiology, School of Medicine, CIMUS-University of Santiago de Compostela, Spain

Extrapancreatic effects of incretin-based therapy
Javier Salvador, Endocrinology and nutrition Unit, Clínica Universidad de Navarra, Pamplona

12.00 - 13.30
Main Session
Andalucia III

New Perspectives in the Role of Bronchodilators for the Treatment of Airway Diseases
Organizers: Amadeu Gavaldà & Montse Miralpeix
Sponsor: Almirall
Chairs:
Montse Miralpeix, Almirall, R&D Center, Barcelona, Spain
Maria G. Belvisi, National Heart & Lung Institute, Imperial College, London, UK

New long acting muscarinic antagonists (LAMA): from preclinical to the clinical setting
Clive Page, Sackler Institute of Pulmonary Pharmacology, King’s College, London, UK
Long acting beta2 adrenergic agonists (LABA): what is coming and future hurdles
Malcolm Johnson, Respiratory Science, GlaxoSmithKline, UK

The discovery of dual muscarinic antagonist & beta2 adrenergic agonist compounds (MABA): a path for the development of triple therapies for COPD
Montse Miralpeix, Respiratory Therapeutic Area-Discovery, Almirall, R&D Center, Barcelona, Spain

Potential novel bronchodilator mechanisms for the future
Maria G. Belvisi, National Heart & Lung Institute, Imperial College, London, UK

13.30 - 15.00  Lunch

15.00 - 16.00  Oral Presentations

García Lorca
Chair: José Manuel Baeyens, University of Granada, Spain

C061 Diet supplementation by resveratrol reduces hippocampal amyloid and tau pathology in SAMP8 mice: participation of sirtuin 1 pathway
M Pallás, D Porquet, S Bayod, A Camins, A M Canudas, J del Valle

C062 ‘Ecstasy’ and amphetamine neurotoxicity to cultured rat cortical neurons in a continuous exposure model
S da Costa Araújo, V M Costa, F C Pereira, E Fernandes, M de Lourdes Bastos, F Dias Carvalho, J P Capela

C063 Effect of typical and atypical antipsychotics on DOPA transport in dopaminergic neurons
E Moura, E Silva, E Magalhães-Ribeiro, M P Serrão, M A Vieira-Coelho

C064 Adolescent delta-9-tetrahydrocannabinol administration sensitizes the development of schizophrenia-like symptoms in adult rats
E Zamberletti, P Prini, S Speziali, M Gabaglio, T Rubino, D Parolaro

C065 CB2 receptor expression is not increased in adipose tissue macrophage during obesity but mediates pro-inflammatory actions
A Gambero, E M F Gotardo, A N DosSantos, M L Ribeiro

C066 Synergistic chondroprotective effect of chondroitin sulfate and glucosamine: a pharmacoproteomic study
V Calamia, J Mateos, P Fernández-Puente, L Lourido, E Montell, J Vergés, C Ruiz-Romero, FJ Blanco

15.00 - 16.00  Oral Presentations

Manuel de Falla
Chair: José Luis Rios, University of Valencia, Spain
C067 Anti-Spasmodogenic, Paw Oedema Inhibitory and Membrane Stabilizing Activity of Yemeni Sidr Honey
A Ahmad Alzubier, P Nwabueze Okechukwu

C068 Recent histochemical and physiological evidences for central effects of Botulinum toxin type A. What we know and what we don’t know?
Z Lackovic, I Matak, L Bach-Rojecky, B Filipovic

C069 Behavioural evidence for central origin of the antinociceptive action of botulinum toxin type A
L Bach-Rojecky, V Drinovac, Z Lackovic

C070 Unsaponifiable fraction of extra virgin olive oil inhibits the induction of inducible nitric oxide synthase and cyclooxygenase-2 in murine peritoneal macrophages
M Aparicio-Soto, A Cárdeno, M Sanchez-Hidalgo, C Alarcón de la Lastra

15.00 - 16.00
Oral Presentations on Endocrinology and Metabolism
Andalucia I + II

C071 Intensive glucose lowering for diabetes: Long-term impact on absolute risk of mortality
C R Kumana, B M Y Cheung, K C B Tan

C072 Hypoglycemic activity of standardized extract of Cosinium fenestratum stem bark and its effect on liver and kidney function parameters in streptozotocin-induced diabetic rats
P N Okechukwu, G A Akowuah, A W Ndyeabura, N C Chiam

C073 Melatonin increases brown adipose tissue mass and its functionality in young Zucker diabetic fatty rats
A Jiménez-Aranda, G Fernández-Vázquez, R Ibán-Arias, A Agil

C074 Attenuation of renovascular damage in Zucker diabetic fatty rat by NWT-03, an egg protein hydrolysate with ACE- and DPP4-inhibitory activity
H Buikema, S Landheer, Y Wang, WH van Gilst, A van Amerongen, HP Hammes, RH Henning, LE Deelman

C075 Serum ferritin and transferrin saturation were independently associated with pre-diabetes among U.S. adults
T T Cheung, C L Cheung, B M Y Cheung
Oral Presentations on Receptors
Chair: María Isabel Loza, University of Santiago de Compostela, Spain

C076 Is Insulin a stimulus for carotid body activation?
M J Ribeiro, C Gonzalez, M P Guarino, E C Monteiro, S V Conde

C077 The relaxant effect of RRF is mediated by the inhibition of Ca++ sensitization and the activation of Kir channels in bovine retinal arteries
S Takir, B Sonmez, U Dogan, O Ozdemir

C078 Vascular hypoxic-preconditioning relies on TRPV4-dependent calcium influx and proper intercellular gap-junctions communication
G Rath, G Behets, M Romero-Perez, E Leon-Gomez, C Bouzin, J Vriens, B Nilius, O Feron, C Dessy

C079 Dual effects of propafenone on Kir2.x channels
P Dolz-Gaitón, R Caballero, R Gómez, A Barana, I Amorós, M González de la Fuente, J Tamargo, E Delpón

C080 Human inducible nitric oxide synthase (iNOS) expression is regulated by nonsense mediated decay (NMD)
K Schmitz, K Koch, S Hahn, J Art, I Forsch, A Pautz, H Kleinert

Main Session
Second Generation Antipsychotics and Serotonin
5HT 2A
Sponsor: Rovi Laboratories
Chair: Javier Meana, University of the Basque Country, Spain

Imaging the pharmacology of antipsychotics in the human brain
Gerhard Gründer, RWTH Aachen University, Germany
Pharmacogenetic influence of 5-HT2A receptors on antipsychotic response
Maria J. Arranz, King's College London, United Kingdom
Antipsychotic activity and 5HT2A-mGlu2 receptor complex signalling crosstalk
Javier Gonzalez-Maeso, Mount Sinai School of Medicine, New York, NY, United States
Atypical antipsychotics and Dopamine D2 receptors occupancy: the role of pharmacokinetics
Ignacio Ayani, Department of Clinical Pharmacology, Rovi Laboratories, Spain
Main Session
**Novel Mechanism and Molecules for the Treatment of Inflammation**
Sponsor: Finnish Society of Pharmacology and by and educational grant by Pfizer

Chair:
Eeva Moilanen, Finland

- Pharmacology of JAK inhibitors in auto-immune conditions: qualitative and quantitative attributes
  Pankaj Gupta, USA
- MKP - 1 as an inflammatory factor and drug target
  Riku Korhonen, Finland
- PDE4 inhibitors for asthma and COPD
  Richard Knowles, UK
- Adipokines as inflammatory mediators
  Katriina Vuolteenaho, Finland

Main Session
**New Pharmacological Approaches to Complex Diseases: Obesity, Metabolic Syndrome and T2DM**
Sponsor: University of Granada

Chair:
Juan Carlos Laguna, Pharmacology Unit, School of Pharmacy, University of Barcelona, Barcelona, Spain

- BAT activation as a therapeutic strategy for obesity and associated complications?
  Andrew Whittle, University of Cambridge, UK
- FGF21 as a new drug-target for metabolic diseases
  Francesc Villarroya, University of Barcelona, Spain
- New compounds raising HDL by interacting directly with CETP
  Eric Niesor, Pharmaceutical Division, Hoffman la Roche, Switzerland
- New drugs for T2DM: SGLT2 inhibitors
  Francisco Tinahones, Universidad de Málaga, Spain

Main Session
**Rho/Rho-kinase Signalling in Health and Diseases**
Sponsor: Turkish Pharmacological Society

Chair:
Kansu Buyukafsar , Mersin University, Turkey

- A deep insight into the smooth muscle cell contraction in terms of Rho/Rho-kinase pathway
  Avril V. Somlyo, University of Virginia, USA
- Role of Rho/Rho-kinase pathway in cardiovascular system
  Hiroaki Shimokawa, Tohoku University, Japan
- Rho/Rho-kinase signalling in respiratory system
  A. Tuncay Demiryurek, Gaziantep University, Turkey
Rho-family GTPases, Rac1 and Cdc42 in ovarian cancer
Angela Wandinger-Ness, University of New Mexico, USA

Importance of Rho/Rho-kinase pathway in gastrointestinal and urogenital systems
Kansu Buyukafsar, Mersin University, Turkey

17.30 - 18.00 Wine and Poster Viewing
18.00 - 19.00 Meeting of the SEF Young Researchers
Andalucia I + II
Friday, July 20th 2012

09.00 - 10.30
Garcia Lorca Auditorium

Main Session
Novel Targeting of the 5-HT3 for Potential Therapeutic Benefit
Sponsor: British Pharmacological Society
Chair:
Nicholas Barnes, University of Birmingham Medical School, UK

Background to 5-HT3 receptors and therapeutic potential of this molecular target
John Peters, Neurosciences Institute, University of Dundee, Dundee, UK

Potential of 5-HT3 receptor isoform-selective antagonists
Beate Niesler, Department of Human Molecular Genetics, University of Heidelberg, Germany

Partial 5-HT3 receptor agonists
Nicholas Moore, AMRI Inc, Albany, New York, USA

Allosteric modulation of the 5-HT3 receptor
Nicholas Barnes, University of Birmingham Medical School, UK

09.00 - 10.30
Manuel de Falla Auditorium

Main Session
The Pharmacological Modulation of Adult Neural Stem/Progenitor Cells
Sponsor: Italian Society of Pharmacology
Chairs:
Pier Luigi Canonico, University of Novara, Italy
Amelia Eisch, UT Southwestern Medical Center, Dallas, Texas, USA

Modulation of epileptogenesis-associated neurogenesis
Michele Simonato, University of Ferrara, Italy

Novel targets for modulation of adult neurogenesis by psychoactive drugs
Mariagrazia Grilli, University of Piemonte Orientale “Amedeo Avogadro”, Novara, Italy

CB1 cannabinoid receptor regulation of neurogenesis and its influence in emotional behaviour
Ismael Galve-Roperth, Complutense University, Madrid, Spain

New horizons for new neurons: Adult-generated neurons and implications for the normal and diseased brain
Amelia Eisch, UT Southwestern Medical Center, Dallas, Texas, USA
09.00 - 10.30
Main Session
Andalucia I + II

Antidiabetic Treatments and the Brain
Sponsor: Danish Society of Pharmacology and MSD Denmark
Chair:
Jørgen Rungby, University of Aarhus, Denmark

Introduction: Are there common denominators for metabolic diseases and neurodegeneration and can we treat them?

DPP-IV inhibitors and GLP-1 analogues, is the brain a target?
Carolyn F. Deacon, University of Copenhagen, Denmark

Insulin treatment and weight, can pharmacologically induced weight gain be avoided?
Manfred Hallschmid, University of Lubeck, Germany

Cerebrovascular disease and antidiabetic treatments
Kaare Haurvig Palnum, Department of Clinical Epidemiology, Aarhus University Hospital, Denmark

09.00 - 10.30
Main Session
Andalucia III

Personalized Medicine: New Challenge in Osteoarthritis
Sponsor: Bioiberica Farma
Chairs:
Josep Vergés, PharmaScience Bioibérica, Barcelona, Spain
Teresa Tejerina, Faculty of Medicine, Complutense University, Madrid, Spain

Role of genetics in prediction of osteoporosis risk
Xavier Nogués, Hospital del Mar de Barcelona, Spain

Arthrosischip: a DNA-based prognostic test for osteoarthritis
Josep Vergés, PharmaScience Bioibérica, Barcelona, Spain

Wet Biomarkers for osteoarthritis diagnostic and prevention
Yves Henrotin, Department University of Liege Institute of Pathology Bone and Cartilage Research Unit CHU, Liege, Belgium

Cell therapy: a novel pharmacological approach
Roke Iñaki Oruezabal, Andalusian Initiative for Advance Therapies, Sevilla, Spain

10.30 - 11.00
Coffee Break and Poster Viewing

11.00 - 12.00
García Lorca
Auditorium

Oral Presentations on Cardiovascular Pharmacology
Chair:
Eva Delpón, Complutense University, Madrid, Spain

C081 Targeting cyclooxygenase-2 and oxidant stress pathways for attenuation of radiation-induced vascular dysfunction
J Pietzsch, M Laube, S Ullm, F Sehn, FJ Pietzsch, T Kniess
C082 Retinoid X Receptor (RXR) agonists inhibits mononuclear leukocyte-endothelial cell interactions through peroxisome proliferator-activated receptor-γ (PPARγ) activation
M J Sanz, F Albertos, L Crespo, E J Morcillo, L Piqueras

C083 Nox5 is involved in angiotensin-II-induced arterial fractalkine (CX3CL1) expression and mononuclear cell arrest
C Rius, L Piqueras, F Albertos, H González, P Escudero, EJ Morcillo, MJ Sanz

C084 Inflammation promotes visfatin synthesis and release by human endothelial cells
T Romacho, L Villalobos, E Cercas, R Carraro, C F Sánchez-Ferrero, C Peiró

C085 PPARβ/δ activation prevents the high glucose-induced impairment of insulin stimulated nitric oxide production in human endothelial cells by reducing mitochondrial reactive oxygen species

11.00 - 12.00
Oral Presentations on Pharmacology of Pain and Inflammation
Chair: Clara Faura, University Miguel Hernández, Spain

C096 Melatonin inhibits nitric oxide production and microsomal prostaglandin E synthase-1 expression in LPS-activated murine peritoneal macrophages via NFKB signalling pathway
M Aparicio-Soto, C Alarcón de la Lastra, A Cárdeno, M Sánchez-Hidalgo

C097 Prevention of cisplatin induced electrophysiological alterations in A-delta fibres by SR1A, a new sigma 1 antagonist
R Girón Moreno, N A Paniagua De Veizaga, J M Vela, C Goicoechea García, M I Martin Fontelles

C098 Pinitol inhibits LPS-induced inflammatory response in murine peritoneal macrophages: Role of NFK-B signaling pathway
N H Gonzalez-Mauraza, M Sanchez-Hidalgo, M Aparicio-Soto, A Leon-Gonzalez, A Cardeno, C Alarcon de la Lastra, C Martin-Cordero

C099 Potential antipsoriatic effect of chondroitin sulphate by inhibition of NF-κB and STAT3 signalling pathways
R M Andrés, M C Terencio, M Payá, M C Montesinos, P Navalón, F Valcuende, M Herrero, J Vergés

C100 PPARα agonist fenofibrate and PPARγ agonist GW1929 differently regulate classical and alternative activation pathways in macrophages
A Pekurinen, E L Paukkeri, E Moilanen
11.00 - 12.00
Andalucia I + II

Oral Presentations on Endocrinology and Metabolism
Chair:
Juan Carlos Laguna, Pharmacology Unit, School of Pharmacy, University of Barcelona, Barcelona, Spain

C091 Water-soluble rice bran extract improves metabolic and vascular function in obese Zucker rats
M L Justo, R Rodríguez-Rodríguez, C Claro, B Martín de Soto, E Vila, M Álvarez de Sotomayor, J Parrado, M D Herrera

C092 The effect of acute caffeine administration on insulin sensitivity is mediated by A1 and A2B adenosine receptors
J F Sacramento, M J Ribeiro, M P Guarino, S V Conde

C093 Effect of N-acetylcysteine on cardiovascular function in two rat models of diabetes
J Y T Leung, C C Y Pang

C094 Fructose induces synthesis and reduces oxidation of liver fatty acids through ChREBP activation
A Rebollo, M Baena, N Roglans, M Alegret, J C Laguna

C095 AMPK-independent variation of sirtuin expression levels is correlated with the reversion of an obesity-like phenotype Caenorhabditis elegans
A Alcaide, A Cano, J J Infante, J Muñoz, S García-Mauriño, E Talero, V Motilva

11.00 - 12.00
Andalucia III

Oral Presentations on Pharmacogenetics and Metabolism
Chair:
Inmaculada Bellido, University of Málaga, Spain

C086 Syntheses and structure activity relationships of seven Manganase salen derivatives as anti-amyloidogenic agents Hen-Egg white Lysozyme aggregation
S Bahramikia, R Yazdanparast

C087 Safety assessment reevaluation of biotechnology-derived pharmaceuticals as the imperative for getting renewed marketing authorisation approval (MAA) -Experience from medicines and medical devices agency of Serbia-ALIMS
V Stanimirovic, B Stanimirovic, D Nikolic, A Nikolic, B Stanimirovic

C088 The CYP3A5 single nucleotide polymorphism on tacrolimus dose requirements in pediatric liver transplantation
R Canaparo, A Brunati, D Bongioanni, L Serpe, E Bovio, E Imbalzano, F Foglietta, PL Calvo

C089 Palmitoylethanolamide, a lipid mediator, controls feeding behaviour and restores leptin sensitivity in ovariectomized obese rats
G Mattace Raso, A Santoro, R Simeoli, R Russo, G D’Agostino, A Calignano, R Meli
C090 SOCS2 Knockout Mice Gender dimorphism in insulin resistance and hepatic steatosis induced by High Fat Diet
M Mirecki-Garrido, F Zadjali, R Santana-Farré, A Flores-Morales, L Fernandez-Perez

Main Session

Garcia Lorca Auditorium
12.00 - 13.30

Past, Present and Future of Oral Single Tablet Regimen in Public Health Diseases. Toward the Standard of Care Based on Valuable Outcomes

Antonio Portolés, SEFC President

The impact of Single Tablet Regimen on HIV infection therapy
Antonio Antela, HIV-Infectious diseases Unit. Internal Medicine Department. Hospital Clínico Universitario of Santiago de Compostela

The polypill strategy in cardiovascular prevention: improving equitable access and patient’s adherence to treatment.
Dr. Ginès Sanz, CNIC - National Center for Cardiological Diseases

The emerging epidemic of drug resistant tuberculosis and one pill only treatment - just an utopia!?
Dr. Gunar Guenther, Tuberculosis Center Borstel. Borstel, Germany

Manuel de Falla Auditorium
12.00 - 13.30

Sigma-1 Receptors: A New Target for Pain Treatment

Sponsor: Esteve

Potentials of selective or non-selective sigma-1 ligands in drug development programs
Tangui Maurice, INSERM U. University of Montpellier, France

Sigma-1 receptor blockade enhances opioid-induced antinociception
José M. Baeyens, University of Granada, Spain

Sigma-1 receptor agonists and central sensitization mechanisms
Jang-Hern Lee, College of Veterinary Medicine, Seoul National University, South Korea

Selective sigma-1 receptor antagonists: an emerging strategy for the treatment of neuropathic pain
José M. Vela. Drug Discovery and Preclinical Development, Esteve, Barcelona, Spain
12.00 - 13.30  
**Main Session**  
**New Therapies for Pulmonary Hypertension**  
*Sponsor: Danish Society of Pharmacology*  
*Chairs:*  
Roger Wadsworth, Stratchclyde University, Glasgow, Scotland  
Ulf Simonsen, Aarhus University, Denmark

Unmet needs for treatment of pulmonary hypertension  
*Ulf Simonsen, Aarhus University, Denmark*

Role of impairment of endothelial cell function in pulmonary hypertension  
*Roger Wadsworth, Stratchclyde University, Glasgow, Scotland*

New therapies for pulmonary arterial hypertension: an update on current bench to bedside translation  
*Robert Najie, Free University of Brussels, Belgium*

Treatment of right ventricular heart failure  
*Jan Harm Bogaard, VU Medisch Centrum, Amsterdam, The Netherlands*

12.00 - 13.30  
**Main Session**  
**Teaching Pharmacology to Medical Students**  
*Sponsor: EPHAR*  
*Chairs:*  
Ewan Macdonald, Kupio, Finland  
Thomas Griesbacher, Graz, Austria

Teaching the WHO Guide to Good Prescribing  
*Emilio Sanz, University of La Laguna, Spain*

Prevention of medication errors: teaching and training  
*Robert Likic, Zagreb, Croatia*

Teaching safe and effective prescribing to medical students  
*Simon Maxwell, Edinburgh, UK*

Integrating teaching of basic and clinical pharmacology  
*Ulf Simonsen, Aarhus, Denmark*

13.30 - 15.00  
Lunch

15.00 - 16.00  
**Oral Presentations on Pharmacogenetics and Metabolism**  
*Chair:*  
Carmen Iglesias, University of Salamanca, Spain

**C101** Influence of L-thyroxine on the P-glycoprotein functional activity  
*E N Yakusheva, A S Byryukova, A V Shulkin*

**C102** NICEdrug as a prominent method for the prediction of metabolic fate of drugs in the liver: study of antiplatelet drugs  
*A Zisaki, K C Soh, M Seijo, N Hadadi, V Hatzimanikatis*
C103 Comparison of Salvia miltiorrhiza and Salvia przewalskii extract treatment on ethanol voluntary intake and cognitive functions in Warsaw high-alcohol preferring and Warsaw low-alcohol preferring rats
PL Mikolajczak, M Szulc, E Kaminska, N Kukawka, A Szydlo, MOzarowski, W Dyr, P Bienkowski, E Wyszogrodzka, W Buchwald, PMrozikiewicz, T Bobkiewicz-Kozlowska

C104 Effect of zoledronic acid and leuprorelin acetate on proliferative and migratory properties of prostate cancer cells in vitro
BMognetti, GLa Montagna, MG Perrelli, CCracco, CPenna

C105 Antitumoral activity of FAC-1 and FIH-2, two hydroalcoholic extracts from plants of the Peruvian Amazonia
LS Pinedo, PIglesias, MCampos-Toimil, JA Costoya

15.00 - 16.00
Oral Presentations on Gastrointestinal/Respiratory Pharmacology
Andalucia I + II
Chair: María Jesús Sanz, University of Valencia, Spain

C106 Prophylactic surfactant treatment for respiratory distress syndrome in preterm lambs: Comparison of a novel peptide-containing synthetic surfactant (Synsurf) with porcine-derived surfactant (Curosurf®)
J Smith, JM van Zyl, DM Barry, G Maritz

C107 Montelukast prevents microparticle-induced inflammatory and functional alterations in human bronchial smooth muscle cells
SFogli, F Stefanelli, T Neri, CBardelli, ACeli, S Brunelleschi, PLPaggiaro, MC Breschi

C108 A key role for acid sphingomyelinase in pulmonary vascular dysfunction induced by lipopolysaccaride
L Moreno, B Barreira, V Lara-Acedo, E Moreno, ACogolludo, F Perez-Vizcaino

C109 Glycogen synthase kinase-3β controls autophagy during renal ischemia/reperfusion in vivo
ESposito, RCrupi, AAhmad, MCampolo, IPaterniti, SCuzzocrea

C110 An Investigation of the Effects of the Uraemic Solute Indoxyl Sulphate on Paraquat-Induced Oxidant Injury in Rat Renal Epithelial Cells
RDalsania, PSKSNallala, PK Chatterjee
Oral Presentations on Teaching Pharmacology/Drug Safety/Gastrointestinal Pharmacology

Chair:
Ulf Simonsen, University of Aarhus, Denmark
Inmaculada Bellido, University of Málaga, Spain

C111 Using Stem Cell Derived Cardiomyocytes for Safety Assessment of Pharmaceutical Compounds
Y Abassi

C113 The use of avatars to explain drugs routes administration reduced anxiety in hospital-treated paediatric patients
I Bellido, M V Bellido, S Perez-Bertolez, A M Garcia-Perez, A Gomez-Luque

C114 Differentiated learning in an advanced cardiovascular pharmacology course
N S Freestone

C115 South-East Scotland prescribing tutorials programme - 5 years on - the Tutees’ experiences
K R Gibson, Z Qureshi, M Ross, S R Maxwell

Main Session
TRP Channels

Sponsor: German Society of Pharmacology
Chair:
Thomas Wieland, Germany

TRP channels as regulators of blood pressure and fertility
Marc Freichel, Department of Pharmacology, University of Heidelberg, Germany

A TR(i)P to Magnesium Homeostasis
Thomas Gudermann, Walther-Straub-Institut fuer Pharmakologie und Toxikologie, Ludwig-Maximilians-Universitaet Muenchen, Germany

Molecular regulation of TRPV4 channel
Miguel A. Valverde, Laboratory of Molecular Physiology and Channelopathies, Dept. Ciències Experimentals i de la Salut, Universitat Pompeu Fabra, Barcelona, Spain

Recent insights on the physiological role of TRPM4
Rudi Vennekens, Laboratory of Ion Channel Research, Division of Physiology, Department Moleculaire Celbiologie, KULeuven, Belgium
Main Session

**Inflammation: A Therapeutic Target in Numerous Diseases**

Organizer: Spanish Society of Pharmacology  
Sponsors: AMGEN, BIOIBERICA and MSD  
Chairs:  
Juergen Eckel, German Diabetes Center, Duesseldorf, Germany  
Josep Verges, BIOIBERICA, Barcelona, Spain

**Inflammation and atherosclerosis, role of phosphodiesterases**  
Panayotis Fantidis, Unidad de Angiología y Cirugía Vascular, Hospital San Pedro de Alcantara-Complejo Hospitalario de Cáceres, Spain

**Inflammation and muscular insulin resistance: role of exercise**  
Juergen Eckel, Integrative Physiology, Paul-Langerhans-Group, German Diabetes Center, Duesseldorf, Germany.

**Inflammation and cancer, a target?**  
Marita Hernandez, Instituto de Biología y Genética Molecular, CSIC-University of Valladolid, Spain

**Inflammation and CORP: Role of phosphodiesterase 4 inhibitors**  
Javier Milara, Fundación de Investigación del Hospital General Universitario de Valencia, Spain, Instituto de Salud Carlos III

16.00 - 17.30  
Manuel de Falla Auditorium

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Main Session

**Respiratory Pharmacology and Pulmonary Surfactant**

Sponsor: Chiesi Farmaceutici  
Chair:  
Jesús Pérez-Gil, Complutense University, Madrid, Spain

**From biophysics to pharmacology: understanding pulmonary surfactant mechanisms to treat respiratory pathologies**  
Jesús Perez-Gil, Complutense University, Madrid, Spain

**Rescuing premature babies with exogenous pulmonary surfactant: a tale of success**  
Tore Curstedt, Karolinska Institut, Stockholm, Sweden

**Surfactant for treatment of acute respiratory distress and chronic interstitial lung diseases: rational, proof of concept and clinical experience**  
Daniel von der Beck, Giessen University, Germany

**Pulmonary surfactant and lung transplantation**  
Cristina Casals, Complutense University, Madrid, Spain

16.00 - 17.30  
Andalucia I + II
Main Session

Standards for PhD Education in Biomedicine

Sponsor: EPHAR and ORPHEUS

Chairs:
Nick Goulding, London, UK
Roland Johnsson, University of Bergen, Norway

PhD programmes in Spain
Dolores Prieto, Department of Physiology, Faculty of Pharmacology, Complutense University, Madrid, Spain

PhD programmes in Germany
Katrin Offe, TUM Medical Graduate Center, Faculty of Medicine, Technical University Munich, Germany

PhD programmes in Former Eastern Europe
Zdravko Lackovic, University of Zagreb School of Medicine, Croatia

ORPHEUS-AMSE- WFME Standards for PhD education
Michael Mulvany, Department of Pharmacology, Institute of Biomedicine, Aarhus University, Aarhus, Denmark

17.30 - 18.00 Wine and Poster Viewing
Parallel Meetings

**Meeting of the EPHAR Executive**
Tuesday, July 17th  
Time: 15.00  
Room: Board Room (2nd Floor)

**EPHAR Council Meeting**
Wednesday, July 18th  
Time: 13.30 – 15.00  
Room: Andalucía III

**EPHAR New Executive Committee Meeting**
Thursday, July 19th  
Time: 13.30 – 15.00  
Room: Andalucía III

**EPHAR Executive Committee and BPS Representatives Meeting**
Friday, July 20th  
Time: 13.30 – 15.00  
Room: Andalucía III

**Spanish Society of Pharmacology Assembly**
Friday, July 20th  
Time: 17.30 – 19.30  
Room: Andalucía I + II
The City of Granada

From the time historical records began Granada was ruled by many Caliphs, Arabic sultans and dynasties. The Arabic/Moslem Empire once stretched right up into the north of Spain. The various Christian groups settled their differences, joined together and steadily drove the Arabs out of Spain. Granada was the last stronghold and finally succumbed to Isabel and Ferdinand (the catholic monarchs) in 1492. The Moslems and the Jews were forced to leave the country or convert to Christianity. A period of what would nowadays be described as ethnic cleansing ensued. At the same time Christopher Columbus came to Granada to ask Isabel and Ferdinand for a grant to build ships so that he could conquer the Americas. They gave him the money and I am sure you already know the rest.

The Alhambra
Granada has its usual quotient of churches, museums etc. typical for a southern European city. However, Granada has the Alhambra which is considered by some to be one of the 10 wonders of the world. In case you don't know, the Alhambra is a massive castle constructed over many centuries. It consists of gardens, fortifications and sumptuous palaces. It was the home of many of the Arab Sultans who ruled the whole province so I suppose for centuries it received the optimum in interior decoration and architecture.

The Albaicín
The Albaicín is the old Arabic quarter located on the hill opposite the Alhambra. It is characterized by cobbled streets with white washed houses. Despite several centuries of neglect and architectural barbarities allowed by the town council it still retains as a strong Arabic feeling (the Arabic population was ethnically cleansed just over 500 years ago). There are many squares with terrazas and places to laze about and have a bite to eat. The Albaicín is an oil painter's paradise and almost at every turn of the head there is an attractive view, almost always involving glimpses of the Alhambra.

Sacromonte, Flamenco and the Gypsies
The English wear bowler hats and read the Times, the Swiss make good watches, wear short leather trousers, climb mountains and yodel, Americans eat hamburgers, are not shy, drive big cars, and talk loud, the typical idea of a Spaniard is of a dark haired fiery gypsy woman dancing flamenco with a red rose clenched between her teeth with a bit of bullfighting going on in the background. All the national stereotypes are based on something and the Sacromonte is one of the places that gave rise to the connection between Spain and Flamenco. The gypsies arrived about 600 years ago and one of the places where they congregated was in the caves of the Sacromonte. The mixture of Arabic influence combined with the particular lifestyle and temperament of the gypsies created Flamenco.

Gastronomy
Spanish cuisine is well known all around the world, Granada and its tapas could not be less. The province of Granada, located between mountains and sea, explains its rich and varied kitchen. The most known dishes are the Tortilla de Sacromonte, Habas Fritas con Jamón and Pollo al Ajillo. However, you cannot visit Granada without testing its Trevorélez ham, its asparagus, its tropical fruit, its olive oil and its wine.
Social Events

Welcome Cocktail
Granada Congress Centre
Tuesday, 17th July 2012
Time: 21.00h
Included in the Registration Fee. The Badge will be required at the entrance.

Congress Reception
Carmen de los Mártires
Wednesday, 18th July 2012
Time: 20.30h
Included in the Registration Fee. The Badge will be required at the entrance.

Congress Dinner
Hotel MA Nazaríes
Friday, 20th July 2012
Time: 20.30h
Price: 60€
The Badge will be required at the entrance.
General Information

Abstract Book
There is no abstract book, but you will find a pendrive including the abstracts in the Congress Bag

Alhambra Tickets
You must pick up your Alhambra tickets at the Granada Tourism stand

Banks
Banks are open from 8:30h to 14:00h from Monday to Friday during the summer months

Certificate of Attendance
A certificate of attendance will be sent by e-mail after the congress

Cloakroom, luggage and poster storage
There is a cloakroom located in Floor 0

Coffee Breaks
Coffee will be served in the exhibition area each morning

Congress Courtesies
In consideration of all congress participants, cell phones should be turned off in all session rooms. Congress participants are expected to refrain from the following:

- Inflicting personal threat or harm to any congress participant
- Inflicting damage to any property
- Preventing speakers from giving their speeches
- Photographing speakers’ slides

Credit Cards
Currency and Exchange: All major international credit cards are accepted. Foreign currency and traveler’s checks can be exchanged in Spain at banks and foreign exchange offices. Cash-point machines accepting major international credit cards and charge cards are available at most banks. The Spanish currency is the Euro

Duty Free
There are no restrictions on visitors entering Spain with goods bought in another European Union member country, as long as they are for their own use and not to sell

General Safety Advice for Visitors
Granada is a safe city, with almost no violent crime, and tourists and visitors can stroll around and sightsee at ease. However, as in any big city, some basic safety precautions should be observed. When walking around typical tourist spots, be especially vigilant of handbags and wallets

Internet Facilities
Internet facilities are available at the Internet corner located in the exhibition area. Wifi is also available on the main floor. **Password: alhambra 2012**
Language
Spanish is the main language spoken in Granada. English, and to a lesser extent French, are also fairly widely spoken. Tourist information, menus, etc. are nearly always available in English.

Liability and Insurance
The congress secretariat and organizers cannot accept liability for personal accidents or loss of or damage to private property of participants or students, either during or indirectly arising from the 6th European Congress of Pharmacology. Participants should make their own arrangements with respect to health and travel insurance.

Lunch
The registration fee includes lunch (18th, 19th and 20th July). It will be served on the 1st and 2nd floor from 13.30 to 14.30.

Public Transport and Car Rental
Granada has a good, comprehensive public transport network, with special ten-trip and one, two or three-day tickets valid on bus, metro and local trains. Taxis are abundant and reasonably priced. Free parking is very limited in the city center and car parks are expensive, so car rental is only really recommended for excursions outside the city.

Registration
The registration desk is located on the 1st floor. It will be open during the following times:

Tuesday, July 17th  17.00 – 20.30
Wednesday, July 18th  08.00 – 18.00
Thursday, July 19th  08.30 – 18.00
Friday, July 20th  08.30 – 18.00

Shopping
Normal trading hours are Monday to Saturday from 9:00 to 13:30 and 16:30 to 20:00; however, in the city center and shopping malls, many shops stay open all day from 10:00 to 22:00.

Smoking Policy
Smoking is not permitted anywhere within the congress venue.

Speaker Room
The speaker room will provide facilities for:

- Reviewing your Power Point presentation
- Making last minute alterations to your Power Point
- Receiving expert advice from technical staff

VAT
There is a variable value added tax (VAT) of 8% to 18% applied to most items and services, but most prices you see will include it. When it is not included, it should be clearly indicated.
Taxis
Taxis in Granada may be ordered by phone, picked up at authorized taxi stands, or flagged down in the street. Always check that the meter is running. Taxis must usually be paid in cash though some accept credit cards.

Tipping
In restaurants, hotels, taxis, hairdressers and so on, a gratuity is not included in the price. Although optional, tips are readily accepted and a general guideline is between 5% and 10% of the bill, depending on the quality of the service. Hotel and airport porters will take, depending on the luggage you have, 1€ to 3€.
Poster Sessions

Wednesday, July 18th 2012

P001 Serum iron and zinc changes in pulmonary tuberculosis patients during pharmacotherapy with regimens consisted of ethambutol
M Abbasinazari

P002 CHOP down-regulates cFLIP expression through promoting ubiquitin/proteasome-mediated cFLIP degradation
HJ Noh, SJ Lee, EG Sung, IH Song, JY Kim, CH Woo, TJ Lee

P003 Clinical Effectiveness of the Pharmacological Profile of a Patient in Primary Care Practice
SM Jankovic, SM Stefanovic

P004 Assessment of the use of bevacizumab in oncology patients
JF Marín Pozo, I Caba Porras, A Alcalá Sanz, L Marín Caba, A Acuña Vega, M Vargas Lorenzo, F Homo Ureña

P005 Evaluation of bacteriuria and antimicrobial susceptibility among hospitalized patients with and without catheter in Kerman province, Iran in 2011
F Sarrafzadeh, SM Sohrevardi, M Yazdizadeh

P006 Comparative effectiveness of irbesartan/hydrochlorthiazide and valsartan/hydrochlorthiazide combination in lowering blood pressure: an observational study in Oman
KA Al Balushi, J Qasim, I Al-Zakwani

P007 Gender association and low dose of Daclizumab in comparison with standard regimen to prevent rejection in kidney transplant patients
S Mojtaba Sohrevardi, J Azmandian, Z Shafiee

P008 Glucocorticoid-Induced Leucine Zipper (GILZ) controls T lymphocytes differentiation
T Frammartino, O Bereshchenko, D Sorcini, M Biagioli, M Cimino, M Di Sante, A Venanzi, S Bruscoli, C Riccardi

P009 Glucocorticoid-Induced Leucine Zipper (GILZ) and the new isoform L-GILZ mediates the anti-inflammatory effects of glucocorticoids
D Sorcini, T Frammartino, S Bruscoli, O Bereshchenko, M Di Sante, A Venanzi, M Cimino, M Biagioli, C Riccardi

P010 Study of the effects of hydro-alcoholic extract of Passiflora incarnata on morphine withdrawal syndrome in mice
M Motaghinejad, M Motevalian, O Motaghinejad

P011 Prevalence of Zinc, Magnesium, Calcium and Phosphorus deficit in breast milk in La Plata city, Argentina
MA Gulayin, E Perez, D Rosa, G Marin, JO Errecalde, N Mestorino

P012 Neuroprotective effect of senna extract in rat model of Parkinson’s disease
P Rahimi-Moghaddam, A-S Moazzam, H Rasouli

P013 Effect of cigarette smoking on calcium fluoride uptake by enamel: an in vitro study
K Basic, I Sutej, K Peros, K Rošin-Grget
Nosocomial Gram-positive infections and antimicrobial susceptibility pattern of causative microorganisms at a referral teaching hospital in Tehran, Iran
H Khalili, R Soltani, S Dashti-khavidaki

Development of trioxane-glycolipid hybrids as anti-oral cancer agents
D Min, J Ricci, M Kim, WY Chung, KK Park, M Jung

Sex differences in the use of hypnotics and benzodiazepines in patients with alcohol dependence and insomnia
K Nenadic-Sviglin, G Nedic, M Nikolac, D Muck-Seler, N Pivac

Analysis of health inequalities in the elderly and vulnerable population:
1960-2010
M Gonzalvo-Cirac, M Girabent, MV Roqué, I Morales

Trends in the utilization of nervous system drugs in Croatia during the period
2007-2010
P Draganic, V Macolic-Sarinic, S Zezelic

Application of FRAP method for the determination of the antioxidant activity
of new peptide esters of Galanthamine
DP Obreshkova, D Zheleva – Dimitrova, DD Tsvetkova, ND Danchev

Inhibition of the local effects of Bothrops pauloensis venom by steroidal alkaloids from Solanum campaniforme Roem & Schult (Solanaceae)
RJB Jorge, RM Ximenes, JSAM Evangelista, DB Menezes, PHS Costa, VGV Soares, Ebs Diz-Filho, MH Toyama, MCM Torres, ODL Pessoa, ER Silveira, HSA Monteiro

Serbia - the country without depression?
M Stojancevic, M Paut Kusturica, N Pavlovic, B Stanimirov, K Stankov, A Sabo, M Mikov

Characterization of the effect of limonene on pregnant rat myometrium in vitro
J Hajagos-Tóth, R Gáspár

A hydroalcoholic extract from the leaves of Nerium oleander inhibits glycolysis and induce selective killing of lung cancer cells
E Burgos-Morón, JM Calderón-Montaño, ML Orta, C Pérez-Guerrero, M López-Lázaro

Chronic cystitis enhances carbachol-induced calcium release in permeabilized rat detrusor smooth muscle
M Denizalti, NT Durdu-Kandilci, TE Bozkurt, I Sahin-Erdemli

Protective effect of a phenolic extract from Corema album berries against oxidative stress on HepG2 cells
AJ León-González, S Ramos, MA Martín, R Mateos, B Sarriá, M López-Lázaro, L Bravo, C Martín-Cordero, L Goya

A new aziridine compound with highly selective anticancer activity
JM Calderón-Montaño, E Burgos-Morón, C Palo-Nieto, C Morales-Pacheco, P Góngora-Vargas, ML Orta, F Iglesias-Guerra, JM Vega-Pérez, M López-Lázaro

Modulation of proliferation and tyrosine protein phosphorylation in HeLa cells by garlic derivatives
D Viña, M Lamela, E Cano, M Camiña, M Yáñez, R Laguna
P029 Chronic treatment with antidepressant drugs and memantine during abstinence following ethanol drinking in mice: Are sigma₁ receptors relevant for antidepressant-like effect? G Skuza, W Sadaj, M Kabzinski

P030 Nanoparticles loaded with meso-tetrakis (4-sulfonatophenyl) porphyrin enhance efficacy of sonodynamic therapy in an in vitro cancer model F Foglietta, R Canaparo, M Ballestri, G Sotgiu, A Guerrini, G Varchi, E Imbalzano, R Frairia, L Serpe

P031 In vitro anti-cancer efficacy evaluation of cholesteryl butyrate solid lipid nanoparticles in human cancer cell lines with different p53 status F Foglietta, R Canaparo, E Imbalzano, C Musicanti, P Gasco, GP Zara, L Serpe

P032 Comparative pharmacodynamic and HPLC study of Hypericum perforatum L Aleksandar Raskovic, Jelena Cvejic, Nebojsa Stilinovic, Svetlana Golocorbin-Kon, Sasa Vukmировић, Momir Mikov

P033 The marine sponge toxin agelasine B increases the intracellular Ca²⁺ concentration and induces apoptosis in human breast cancer cells (MCF-7) AA Pimentel, P Felibertt, F Sojo, L Colman, A Mayora, H Rojas, R Dipolo, AI Suarez, R Compagnone, F Arvelo, I Galindo, J De Santics, P Chirino, G Benaim

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Perfusion and Muscle Strip Myographs
for studies in Smooth & Striated Muscle research

PRESSURE MYOGRAPH SYSTEMS

This speciality line of myographs is used to study small vessel function under near physiological conditions of pressure and flow by digitally tracking diameter and flow in real-time. The products include single artery systems for diameter measurement under user-controlled pressure and flow conditions.

WIRE MYOGRAPH SYSTEMS

Wire Myograph Systems are used to measure force in small rings of muscle tissue with diameters as small as 40 microns. This instrument range covers systems from a single channel system with an optical window for combining electrophysiology and imaging, to 4-channel high-throughput systems for pharmacological testing of compounds.

AUTOMATIC BUFFER FILLER SYSTEM - 625FS

An add-on filler system that provides an automatic, reliable and consistent way to replace buffer in the chambers of your 4-channel Myograph System.

NEW DATA ACQUISITION SOFTWARE
- MyoVIEW II

MyoVIEW II is a new state-of-the-art software used in conjunction with Pressure and Culture Myograph Systems.

The core function of the MyoVIEW II is to acquire diameter measurements from pressurized vessels. Flow measurements using the FlowMeter 161FM are now integrated into this single software package and allow the user to perform constant flow experiments and parameters such as vascular resistance and shear stress.

MUSCLE STRIP MYOGRAPH SYSTEM

The 820MS represents a state-of-the-art 4-channel myograph system for muscle strips of up to 25 mm in length. Originally developed to give the skeletal muscle physiologist a sophisticated, high through-put muscle myograph, the rectangular design of the chamber gives this system the flexibility to mount larger, longer muscle strips of a variety of organs.
SERVICIOS DE SECUENCIACIÓN MASIVA

Exoma
Paneles de genes
Genome completo
RNA-Seq
smallRNAs
SAGE (Serial Analysis of Gene Expression)
ChiP-Seq
Methyl-Seq (metilación)

Sistemas Genómicos pone a su alcance un equipo bioinformático multidisciplinar y ampliamente especializado en:

Next-Generation Sequencing
Microarrays
Desarrollo de bases de datos
Implementación de software
Servicios de ‘hosting’ de datos
Servicios de consultoría

Sistemas Genómicos es una compañía líder en secuenciación y análisis de datos en España con más de 14 años de experiencia en técnicas moleculares aplicadas al campo de la Salud, Industria Alimentaria, Agricultura y Microbiología.

Innovación Eficiencia Experiencia
SECUENCIACIÓN DEL EXOMA COMPLETO

Descripción:
La caracterización del exoma completo de un individuo permite la búsqueda e identificación de genes causantes de enfermedad así como la determinación de variantes que incrementan el riesgo de padecer ciertas enfermedades proporcionando una herramienta de análisis de gran valor tanto en proyectos de investigación como en estudios de diagnóstico.

Ventajas:
La resecuenciación del exoma completo mediante técnicas de secuenciación masiva ofrece además las siguientes ventajas: Resultados en pocas semanas. La secuenciación es rápida y eficiente. Se capturan tanto variantes comunes como variantes raras.

Resultados:
Mapeo de las lecturas frente al genoma de referencia. Identificación y anotación de variantes mediante la integración de distintos recursos tanto públicos como privados con el fin de priorizar las variantes y genes candidatos en función de los objetivos del estudio. Identificación de relaciones gen-enfermedad. Localización de rutas metabólicas afectadas.

RNASeq: SECUENCIACIÓN DEL TRANSCRIPTOMA COMPLETO

Descripción:
Se conoce como “RNA-Seq” a la secuenciación masiva de cDNA mediante plataformas de alto rendimiento cuyo objetivo final es la obtención de la información global sobre el contenido de RNA de una muestra, incluyendo mRNAs, rRNAs, tRNAs y otros RNAs no codificantes, compuesta por una única célula o conjunto de células. Gracias a la eficacia, reproducibilidad y rendimiento de las plataformas de secuenciación masiva de última generación, la técnica de RNA-Seq proporciona a los investigadores una forma eficiente de medir niveles de expresión génica, identificar eventos de splicing alternativo, identificar eventos de fusión génica e identificar SNVs de manera simultánea a la vez que se reduce el precio por muestra.

Ventajas:
Resultados en muy pocas semanas. Es posible identificar nuevos transcriptos y genes de fusión. Aplicable en organismos no modelo.

Resultados:
In the knowledge industry people do make the difference. The professionalism, experience and “human” approach of our team at Vibo Congresos are the key to successful partnerships. We define it as “the success behind a great organisation”!

www.vibocongresos.com
Well Plate with Corning Synthemax-T Surface. H7 hESC differentiated to cardiomyocytes on Corning Synthemax-T Surface multiple well plates, as demonstrated by immunostaining of α-actinin (green, actin filaments), Nkx2.5 (red, cardiac-specific marker) and DAPI (blue, nucleus). Oct4 immunostaining of H7 hESC cells demonstrates the cells remain undifferentiated after 10 serial passages on Corning Synthemax-T Surface multiple well plates.

- Engineered to the exact same specifications of the workstation vendor's tips to ensure complete compatibility and consistent fit.
- Wide product offering combined with in-house engineering expertise guarantees optimum workstation performance.
- Complete control of manufacturing process from in-house molding to the most stringent QA and QC testing processes in the industry ensures defects are eliminated.
- Nucleic acid, nuclease and endotoxin-safe for complete protection against contamination.

Synthemax-T Surface is a unique synthetic surface coated onto multiple well plates and flasks that mimics the natural cell environment. This surface supports the expansion of Stem Cells in their undifferentiated state and enables directed differentiation into specialized cell types.
Well Plate with Corning Synthemax-T Surface.

Oct4 immunostaining of H7 hESC cells demonstrates the cells remain undifferentiated after 10 serial passages on Corning Synthemax-T Surface multiple well plates.

H7 hESC differentiated to cardiomyocytes on Corning Synthemax-T Surface multiple well plates, as demonstrated by immunostaining of α-actinin (green, actin filaments), Nkx2.5 (red, cardiac-specific marker) and DAPI (blue, nucleus).

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© Complete control of manufacturing process from in-house molding to the most stringent QA and QC testing processes in the industry ensures defects are eliminated.
© Nucleic acid, nuclease and endotoxin-safe for complete protection against contamination.

Corning® Synthemax™ Surface

Synthemax-T Surface is a unique synthetic surface coated onto multiple well plates and flasks that mimics the natural cell environment. This surface supports the expansion of Stem Cells in their undifferentiated state and enables directed differentiation into specialized cell types.
Accelerate your research with the data acquisition systems already cited in thousands of published papers*. ADInstruments PowerLab® systems are flexible, powerful and seamlessly connect to a wide range of instruments including tissue baths, isolated heart systems, wire myographs and small animal telemetry systems.

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