



Rapid Responses to Steroid Hormones 2009

2nd-5th September
Elche, Alicante, Spain

Program

Wednesday 2nd

17.00-19.00 Registration. Conference Center “Ciutat d’Elx”

19.00 City Guided Tour. Departure from Conference Center “Ciutat d’Elx”

20.45 Welcoming Reception Cocktail in Rte. “Parque Municipal”

Thursday 3rd

8.30 Registration

8.50-9.00 Introductory Remarks by the Organizing Committee

Extranuclear Actions of Steroid Hormones I

Chairpersons: Ellis R Levin (USA), Elisabetta Baldi (Italy)

9.00-9.30 **Novel Aspects of Cell Proliferation Regulated by Steroid Signalling**
Ferdinando Auricchio. Department of General Pathology, Second University of Naples, Naples, Italy.

9.30-10.00 **Rapid Signaling of Steroids Receptors to the Cytoskeleton**
Tommaso Simoncini. Department of Reproductive Medicine and Child Development, University of Pisa, Pisa, Italy

10.00-10.30 **Androgens are Powerful Non-Genomic Inducers of Calcium Sensitization in Visceral Smooth Muscle.**
Mario Díaz. Laboratory of Animal Physiology, Faculty of Biology, University of La Laguna, Tenerife, Spain.

10.30-11.00 The Many Faces of Extranuclear Androgen Signaling
Stephen R Hammes. University of Rochester School of Medicine,
Division of Endocrinology and Metabolism, Rochester, New York, USA.

11.00-11.30 Coffee Break

Extranuclear Actions of Steroid Hormones II

Chairpersons: Mario Díaz (Spain), Peter Thomas (USA)

11.30-12.00 Interaction between Mineralocorticoid Receptor and cAMP/CREB Signaling

Claudia Grossmann. Martin-Luther-Universität Halle-Wittenberg,
Halle / Saale, Germany

12.00-12.30 Protein Kinase D as Modulator of Aldosterone Action in the Kidney
Warren Thomas. Department of Molecular Medicine, Royal College of
Surgeons in Ireland, Dublin, Ireland

12.30-13.00 Nanosensor detects Aldosterone Receptor Sites on Endothelium
Hans Oberleithner. Institute of Physiology II, University of Münster,
Germany.

Short talks

13.00-13.15 RU-486 acts as Progesterone Antagonist of Non-genomic Responses but Causes Immunosuppression in Human T Cells by its Cytotoxicity

Chien EJ. Department of Physiology, National Yang-Ming
University, Taipei, Taiwan, Republic of China

13.15-13.30 In vivo Induction of Oocyte Maturation and Ovulation in Zebrafish: an Improved Model System to Distinguish between Genomic and Nongenomic Actions of Steroids.

Tokumoto T. Department of Biology, Faculty of Science, Shizuoka
University, Shizuoka, Japan

13.30-15.30 Lunch and Posters

Extranuclear Actions of Steroid Hormones III

Chairpersons: Martin Kelly (USA), Sandra Incerpi (Italy)

15.30-16.00 Evaluation of the VDR Conformational Ensemble Model: Evidence for the Involvement of the Alternative Ligand Pocket in the Mediation of Rapid Signaling Responses.

Anthony W Norman. Department of Biochemistry, University of California, Riverside, CA

16.00-16.30 Functional Vitamin D Receptor (VDR) in the T-Tubules and Sarcolemma of Cardiac Myocytes: Rapid Actions of 1,25 Dihydroxyvitamin D3 [1,25(OH)₂D₃] to Modulate Cardiac Contractile Performance via Protein Kinase-C.

Robert U Simpson. Department of Pharmacology, University of Michigan School of Medicine, Ann Arbor, USA

Short talks

16.30-16.45 TRPM3 is a Iontropic Steroid Receptor in Endocrine Cells Mediating Calcium and Zinc Influx and Hormone Release.
Wagner TFJ, Lambert S, Drews A, Loch S, Straub I, Covey DF, Mohr F, Philipp SE and Oberwinkler J. Pharmakologie and Toxikologie, Universität des Saarlandes, Homburg, Germany

16.45-17.00 Caged Progesterone: a New Tool for studying Rapid Non-genomic Actions of Progesterone.
Kilic F, Kashikar ND, Schmidt R, Alvarez L, Dai L, Weyand I, Wiesner B, Goodwin N, Kaupp B and Hagen V. Leibniz Institut Für Molekulare Pharmakologie, Berlin, Germany

17.00-17.15 Very Low Doses of Bisphenol-A Promote Human Seminoma Cell Proliferation by Activating PKA and PKG via a Membrane G Protein-Coupled Estrogen Receptor
Fenichel P, Bouskine A, Nebout M, Brücker-Davis Fr and Benahmed M. UMR INSERM 895, Team 5 University of Nice-Sophia-Antipolis, Nice, France

17.15-17.30 Combinatorial Stimulation of ER α Ligands differently affects Rapid Signals and Cell Proliferation
Bulzomi P, Galluzzo P, Acconcia F, Bolli A and Marino M. Department of Biology, University of Rome "Roma Tre", Rome, Italy

17.30-18.00 Coffee Break

18.00-19.00 Plenary Lecture

Chairperson: Angel Nadal (Spain)

Environmental Hormones: Cellular Mechanisms and Clinical Importance

John A McLachlan. Bioenvironmental Research Center, Tulane University, New Orleans, USA

19.30 Guided tour to visit the City's Archeological Museum

Friday 4th

Extranuclear Actions of 17 β -estradiol

Chairpersons: Christiane Otto (Germany), Anthony W Norman (USA)

- 9.00-9.30 ER α Methylation in E2-Induced Non Genomic Activation**
Laura Corbo. INSERM U590, Lyon, France
- 9.30-10.00 Interactions of Estrogen Receptor ER α with IGF-I Signalling in the Brain**
Luis Miguel García-Segura. Instituto Cajal-CSIC, Madrid, Spain.
- 10.00-10.30 Modulation of Longevity-Associated Genes by Estrogens or Phytoestrogens**
José Viña. Department of Physiology, School of Medicine, University of Valencia, Valencia, Spain
- 10.30-11.00 Trafficking of Membrane ER α and a Novel Function of Mitochondrial ER β in Breast Cancer**
Ellis R Levin. Division of Endocrinology, University of California, Irvine, CA, USA

Short talk

- 11.00-11.15 The Transactivating Function-1 of Estrogen Receptor Alpha is Dispensable for the Vasculoprotective Actions of 17 β -Estradiol.**
Billon A, Fontaine C, Filipe C, Flouriot G, Gourdy P, Krust A, Chambon P and Arnal JF. INSERM U858, Institute de Médecine Moléculaire de Rangueil, Toulouse, France
- 11.15-11.45 Coffee Break**

New and Old Receptors out of the Nucleus

Chairpersons: Edward J. Filardo (USA), Elias Castanas (Greece)

- 11.45-12.15 Rapid Actions of Nuclear Receptors in Platelets**
David Bishop-Bailey. The William Harvey Research Institute, Queen Mary University of London, London, UK
- 12.15-12.45 Short-Term Effects of Thyroid Hormones during Development: focus on Signal Transduction**
Sandra Incerpi. Department of Biology, University of Rome "Roma Tre", Rome, Italy

12.45-13.15 Peroxisome Proliferator-Activated Receptor-Gamma (PPARgamma): Is the Genomic Activity the only answer?
Michaela Luconi. Department of Clinical Physiopathology, University of Florence, Florence, Italy

Short talk

13.15-13.30 Proteomic analysis of Phosphorylated Nuclear Proteins underscores Novel Roles for Rapid Actions of Retinoic Acid in the Regulation of mRNA Splicing and Translation.
Laserna EJ, Valero ML, Sanz L, Sánchez del Pino MM, Calvete JJ and Barettino D. Instituto de Biomedicina de Valencia (CSIC) and Centro de Investigación Príncipe Felipe (CIPF), Valencia, Spain

13.30-15.30 Lunch and Posters

The Role of GPR30 as a Novel Estrogen Receptor

Chairpersons: Laura Corbo (France), Jeffrey R. Bender (USA)

15.30-16.00 Estrogen-Dependent Fibrillogenesis by GPR30/GPER-1 and its Influence on Breast Tumor Progression.
Edward J Filardo. Department of Medicine, Division of Hematology & Oncology, Rhode Island Hospital and Brown University Medical School, Providence, USA

16.00-16.30 Unravelling the Cellular and Physiological Functions of GPR30
Eric Prossnitz. Department of Cell Biology and Physiology, University of New Mexico, Health Sciences Center, Albuquerque, USA.

16.30-17.00 Conserved Estrogen Binding and Signaling Functions of GPR30 in Vertebrates
Peter Thomas. Marine Science Institute, University of Texas at Austin, Port Aransas, Texas, USA

17.00-17.30 GPR30, a G Protein-Coupled Estrogen Receptor?
Christiane Otto. Therapeutic Research Group Women's Healthcare, Bayer Schering Pharma AG, Müllerstrasse 178, 13342 Berlin, Germany.

17.30-18.00 Coffee Break

Short talks

Chairpersons: Stephen Hammes (USA), Brian Harvey (RoI)

18.00-18.15 GPR30 activation Protects the Heart From Ischemia/Reperfusion Injury by Inhibiting the Opening of the Mitochondria Permeability Transition Pore

Bopassa JC, Eghbali M, Toro L and Stefani E. Department of Anesthesiology, Division of Molecular Medicine, UCLA, Los Angeles, USA

18.15-18.30 Evidence for a Function of GPER in Vascular Control, Blood Pressure, and Obesity

Matthias Barton. Department of Internal Medicine, University Hospital Zurich and University of Zurich, Switzerland

18.30-18.45 GPR30/GPER1 Signaling in vivo and in vitro

Olde B, Sandén C, Salehi A, Martesson U, Ohlsson C and Leeb-Lundberg F. Department of Experimental Medical Science, Lund University and Department of Medicine, Göteborg University.

18.45-19.15 General discussion about the Structure and Function of Novel Steroid Receptors

21.00 Gala Dinner. Restaurante Los Canónigos, Hotel Huerto del Cura, Elche

Saturday 5th

Translational Research on Rapid Steroid Actions

Chairpersons: Enrico Stefani (USA), Martin Wehling (Germany)

- 10.00-10.30 Endothelial Membrane Estrogen Receptors: Splice Forms and Relevance in Cardiovascular Pathology**
Jeffrey R Bender. Cardiovascular Medicine and Immunobiology, Yale University School of Medicine, New Haven, Connecticut, USA
- 10.30-11.00 Rapid Estrogen Signaling in Hypothalamic Neurons and Homeostasis**
Martin Kelly. Department of Physiology and Pharmacology, Oregon Health & Science University, Portland, Oregon, USA
- 11.00-11.30 Pro- and Anti-apoptotic Actions of Sex Steroids in the Breast: Crosstalk with other Growth Factors**
Elias Castanas. University of Crete, School of Medicine, Laboratory of Experimental Endocrinology, Heraklion, Greece.
- 11.30-12.00 Translational Research of Rapid Steroid Actions**
Martin Wehling. Clinical Pharmacology Mannheim, University of Heidelberg, Mannheim, Germany
- 12.10 Closing Remarks: Angel Nadal.** Institute of Bioengineering and CIBERDEM, Miguel Hernández University, Elche, Alicante, Spain
- 12.15 Future Meetings Announcement: FASEB 2010 (S R Hammes) and RRSB 2011 (J Bender)**