



**JOINT FEPS &
SPANISH PHYSIOLOGICAL
SOCIETY SCIENTIFIC
CONGRESS 2012**

**SANTIAGO DE COMPOSTELA (SPAIN)
SEPTEMBER 8-11, 2012**



Congress Venue: School of Medicine



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Program



PROGRAMME AT A GLANCE

September 8th

10,00-12,00	ROOM B	PRE-MEETING SYMPOSIUM: Sensory physiology, a window to the brain
12,30-14,00	ROOM B	PRE-MEETING SYMPOSIUM: Sensory physiology, a window to the brain
13,40-14,00	ROOM A	WELCOME AND INTRODUCTION YIPS
14,00-14,30	ROOM A	KEYNOTE SPEAKER 1: Cellular sensors and Mtor
14,30-15,30	ROOM A	YOUNG INVESTIGATOR AWARD COMPETITION
16,00-16,30	ROOM A	KEYNOTER SPEAKER 2: Gastrointestinal signals
16,30-17,30	ROOM A	YOUNG INVESTIGATOR AWARD COMPETITION
17,40-18,10	ROOM A	OPENING CEREMONY
18,10-19,00	ROOM A	FEPS LECTURE: ATP-sensitive K channels, from molecule to disease
19,30-22,00	PAZO DE FONSECA	WELCOME RECEPTION

September 9th

09,00-10,40	ROOM B	SYMPOSIUM: Updates on reproductive physiology
09,00-10,40	ROOM A	SYMPOSIUM: Joint American Physiological Society and FEPS/ Spanish Physiological Society Symposium
11,00-11,45	ROOM A	PLENARY LECTURE: Pathophysiology of Hypertension in Preeclampsia: A lesson in Integrative Physiology
12,00-13,00	ROOM B	ORAL PRESENTATIONS: Transport Physiology
12,00-13,00	ROOM A	ORAL PRESENTATIONS: Cardiovascular, respiratory and autonomic control
12,00-13,00	ROOM C	ORAL PRESENTATIONS: Microvascular and endothelial physiology
13,00-14,00	CORRIDOR	POSTERS SESSION
14,00-15,40	ROOM B	SYMPOSIUM: Targeting glucose homeostasis: novel players
14,00-15,40	ROOM A	SYMPOSIUM: Advances in Aging and Mitochondria Research
16,10-17,50	ROOM A	SYMPOSIUM: Aquaporins and Epithelial channels in health and diseases.
16,10-17,50	ROOM C	FEPS WORKSHOP
17,50-18,35	ROOM A	“PLENARY LECTURE: The neurobiology of food intake and food addiction”
18,45	ROOM A	GENERAL ASSEMBLY

September 10th

09,00-10,40	ROOM B	SYMPOSIUM: Molecular physiology of ageing and longevity
09,00-10,40	ROOM A	SYMPOSIUM: The cardiac sarcoplasmic reticulum in health and disease.
09,00-10,40	ROOM C	SYMPOSIUM: Energy Homeostasis
11,10-11,55	ROOM A	PLENARY LECTURE: Dendritic Spines and Distributed Circuits
12,00-13,00	CORRIDOR	POSTERS SESSION
14,00-15,40	ROOM B	SYMPOSIUM: Brain peripheral interaction in reproduction during life span
14,00-15,40	ROOM A	SYMPOSIUM: Endothelium in diseased states
14,00-15,40	ROOM C	WORKSHOP: Proteomics
16,00-17,40	ROOM B	SYMPOSIUM: Energy sensors, thermoregulation and brown adipose tissue
16,00-17,40	ROOM A	SYMPOSIUM: Pathophysiology of the cardiac electrical activity
16,00-17,40	ROOM C	WORKSHOP: Superresolution microscopy
17,40-18,40	ROOM B	ORAL PRESENTATIONS: Teaching in Physiology
17,40-18,40	ROOM A	ORAL PRESENTATIONS: Neurophysiology
17,40-18,40	ROOM C	ORAL PRESENTATIONS: Skeletal, cardiac, and smooth muscle physiology
20.30		HOTEL MONUMENTO SAN FRANCISCO. GALA DINNER

September 11th

09,00-10,40	ROOM B	SYMPOSIUM: Calcium Activated Cl ⁻ Channels in Health and Disease
09,00-10,40	ROOM A	SYMPOSIUM: New insights in thyroid hormone action
09,00-10,40	ROOM C	SYMPOSIUM: Teaching physiology: Pros and cons of traditional vs. innovative methods and curricula
11,00-12,30	ROOM B	ORAL PRESENTATIONS: Cellular and molecular physiology: Ion channels
11,00-12,30	ROOM A	ORAL PRESENTATIONS: Endocrinology and metabolism
11,00-12,30	ROOM C	ORAL PRESENTATIONS: Pathophysiology and Integrative Physiology
14,00-15,40	ROOM B	SYMPOSIUM: Intracellular calcium signalling
14,00-15,40	ROOM A	SYMPOSIUM: Progress in Respiratory Physiology
14,00-15,40	ROOM C	WORKSHOP: Tumor suppressor genes in the biology of stem cells
16,00-17,00	ROOM A	PLENARY LECTURE: Spying the molecular workings of ion channels using fluorescence
17,00-17,30	ROOM A	Closing Session and Award Ceremony

Pre-meeting symposium

Sensory physiology, a window to the brain

September 8, 2012 (Supported by University of A Coruña, Spain)

10.00 -12.00h • Room B (Aula Castelao)

Chairman:

Kenneth Grieve (The University of Manchester, UK) and **Antonio Canedo** (University of Santiago de Compostela, Spain)

Speakers:

Ángel Acebes (Instituto Cajal. Madrid, Spain)

"Olfactory perception: Synapse number as a key modulator"

Miguel Maravall (Instituto de Neurociencia de Alicante, Spain)

"Sensory response diversity and thalamocortical communication in the whisker system"

Juan de los Reyes Aguilar (Hospital Nacional de Paraplégicos. Toledo, Spain)

"Functional changes in the somatosensory system after a spinal cord injury"

Manuel Malmierca (Instituto de Neurociencias de Castilla y León. Salamanca, Spain)

"Functional mechanisms that mediate stimulus-specific adaptation in subcortical auditory nuclei"

12.00-12.30 Coffee-break

12.30h-14.00 • Room B (Aula Castelao)

Chairman:

Kenneth Grieve (The University of Manchester, UK) and **Antonio Canedo** (University of Santiago de Compostela, Spain)

Speakers:

Casto Rivadulla (University of A Coruña. Spain)

"To burst or not to burst: Stimulus detection in the visual thalamus"

Adam Sillito (UCL, London. UK)

"The iterative cortical refinement of information transfer through the visual thalamus in the primate"

Alex Thiele (Newcastle University. UK)

"Cholinergic and glutamatergic control of attention in V1: a double dissociation"

PROGRAM

Saturday, September 8th

- 09:30 **Room D (Secretaria)**
Registration
- 13:40-14:00 **Room A (Salon de Actos)**
Welcome and Introduction
FEPS Young Investigator Symposium
- 14:00-14:30 **Cellular sensors and mTOR**
Keynote Speaker 1:
Daniela Cota,
Université de Bordeaux, France
- 14:30-15:30 Young Investigator Award Competition
- 15:30-16:00 Coffee Break
- 16:00-16:30 **Gastrointestinal signals**
Keynote Speaker 2:
Matthias Tschöp,
Technical University of Munich, Germany
- 16:30-17:30 Young Investigator Award Competition
- 17:40-18:10 **FEPS Opening Ceremony**
- 18.10-19.00 **ATP-sensitive K channels, from molecule to disease**
FEPS Lecture
Frances Ashcroft
University Laboratory of Physiology, Oxford
- 19.30-22.00 **Welcome Reception.** Pazo de Fonseca

PROGRAM

Sunday, September 9th

09.00-10.40

Room B (Aula Castelao)

SYMPOSIUM

Updates on reproductive physiology.

Chairperson: *Susan Wray; Karen Noble;*
Speakers: *Karen Noble Abigail Fowden;*
Mats Brännström; Alexander Sirotkin

Room A (Salon de Actos)

SYMPOSIUM

Joint American Physiological Society and FEPS/ Spanish Physiological Society Symposium

Chairperson: *Joey Granger; Jose Miguel Lopez-Novoa*
Speakers: *Curt Sigmund; Ananth Karumanchi; Jennifer Pollock;*
Javier Salazar

10.40-11.00

Coffee Break

11.00-11.45

Room A (Salon de Actos)

Pathophysiology of Hypertension in Preeclampsia: A lesson in Integrative Physiology

Joey P. Granger, Ph. D. Billy, S. Guyton, Distinguished Professor
Professor of Physiology and Medicine Director,
Center for Excellence in Cardiovascular-Renal Research
Dean, School of Graduate Studies in Health Sciences
University of Mississippi Medical Center

12.00-13.00

Oral Presentations

Room B (Aula Castelao)

Transport Physiology

155 — 17 β -estradiol rapidly promotes KCNQ1 internalization and post-endocytic trafficking in HT29 colonic epithelial cells.
R Rapetti-Mauss, V Urbach, B J Harvey*

282 — Epinephrine stimulation of calcium-activated chloride channels in airway epithelia. *B. L. Blazer-Yost, S. Lewis and A. Banga*

340 — Heterogeneous Nuclear Ribonucleoprotein A2/B1 is a Tissue-Specific Aldosterone Target Gene with Prominent Induction in the Rat Distal Colon. *I Hernandez-Diaz, T Giraldez, S Morales, G Hernandez, E Salido, CM Canessa, D Alvarez de la Rosa**

PROGRAM

373 — Is the gasotransmitter hydrogen sulphide a novel regulator of Na⁺ transport across the pulmonary epithelium?

M Althaus, K Urness, W Clauss, D Baines, M Fronius*

Room A (Salon de Actos)

Cardiovascular, respiratory and autonomic control

32 — Excretion of KLK9 in the urine is associated to sustained hypertension, aorta wall thickening and cardiac hypertrophy.

Ana M. Blázquez-Medela, O García-Sánchez, Y Quiros, FJ López-Hernández, JM López-Novoa, C Martínez-Salgado*

143 — Carotid body function in animal models of obstructive sleep apnoea. *A Obeso*, S Gaytan, Olea E, Gonzalez-Martín, MC, Pasaro, MR, Gonzalez C.*

232 — Oxygen sensing in pulmonary vessels: from physiology to pathology. *F Perez-Vizcaino**

290 — Zinc supplementation leads to greater erythrocytosis and increased right ventricular hypertrophy (RVH) in rats exposed to hypoxia and related genes up-regulation. *P Siques*, K Arriaza, J Brito, K Flores, R San Martín, F Leon-Velarde*

Room C (Aula 3)

Microvascular and endothelial physiology

418 — Estradiol induces differential production of cell mediators in arterial and venous endothelial cells. *C Hermenegildo*, C Bueno-Betí, M de Lázaro-Franco, N Martínez-Gil, D Pérez-Cremades, E Monsalve, S Novella*

40 — Role of endoglin in wound repair in adult endoglin heterozygous mice. *J Lopez-Novoa*, M Jerkic, M Prieto, M Letarte, F Perez Barriocanal*

23 — Vascular function and nitric oxide bioavailability in young normotensive and borderline hypertensive female rats exposed to chronic crowding. *I Bernatova*, A Puzserova, I Dovinova, P Balis, P Slezak, N Sestakova, M Majzunova, V Ilovská, M Kluknavsky*

369 — Effect of Selective Serotonin Reuptake Inhibitors on Blood Viscosity Parameters. *O Arihan*, N Dikmenoglu*

13.00-14.00 Poster Session

13.00-14.00 **Lunch.** Cafetería (School of Medicine)

PROGRAM

14.00-15.40

Room B (Aula Castelao)

SYMPOSIUM

Targeting glucose homeostasis: novel players

Chairperson: *M Paula Macedo, Luis Medina*

Speakers: *F. Mallo, Young B Kim, MP Macedo, J Jones*

Room A (Salon de Actos)

SYMPOSIUM

Advances in Aging and Mitochondria Research

Chairperson: *Darío Acuña; Luis C López.*

Speaker: *Russel J Reiter; Erich Gnaiger; Paolo Bernardi; Germaine Escames*

15.40-16.10

Coffee Break

16.10-17.50

Room A (Salon de Actos)

SYMPOSIUM

Aquaporins and Epithelial channels in health and diseases

Chairperson: *Miriam Echevarría; Diego Alvarez.*

Speakers: *Gema Frühbeck; Giovanna Valenti;*

Graça Soveral; Gustavo Frindt

Room C (Aula 3)

FEPS Workshop

In silico physiological models

Guillermo Alvarez de Toledo, Universidad de Sevilla

Theo Arts Maastricht University

"Modeling of the cardiovascular system".

Nic Smith, St Thomas' Hospital, Kings College London

"Modeling of cellular calcium induced excitation contraction"

17.50-18.35

Room A (Salon de Actos)

The neurobiology of food intake and food addiction

Plenary lecture:

Suzanne Dickson, University of Gothenburg, Sweden

18:45

Room A (Salon de Actos)

Award of the Antonio Gallego's Prize to Prof. C. Belmonte.

General Assembly of the SECF

PROGRAM

Monday, September 10th

09.00-10.40

Room B (Aula Castelao)

SYMPOSIUM

Molecular physiology of ageing and longevity

Chairperson: *Jose Vina, Giovanni E. Mann*

Speakers: *David Sasson, Claudio Franceschi, Jose Vina, Giovanni E. Mann*

Room A (Salon de Actos)

SYMPOSIUM

The cardiac sarcoplasmic reticulum in health and disease

Chairperson: *Katharine Dibb; David Eisner*

Speakers: *Andrew Trafford; Gudrun Antoons; Stephan Lehnart; Sian Harding*

Room C (Aula 3)

SYMPOSIUM

Energy Homeostasis

Chairman: *Rosa Señaris, SM Luckman*

Speakers: *K. Herzig, J.Hidalgo; SM. Luckman; R. Señaris*

10.40-11.10

Coffee Break

11.10-11.55

Room A (Salon de Actos)

Dendritic Spines and Distributed Circuits

Plenary lecture:

Rafael Yuste, Columbia University New York

12.00-13.00

Poster Session

13.00-14.00

Lunch. Cafetería (School of Medicine)

14.00-15.40

Room B (Aula Castelao)

SYMPOSIUM

Brain peripheral interaction in reproduction during life span

Chairperson: *Manuel Tena-Sempere*

Speakers: *Matti Poutanen, Manuel Tena-Sempere, Caroline Ancel*

Room A (Salon de Actos)

SYMPOSIUM

Endothelium in diseased states

Chairperson: *Iveta Bernatova; Silvia Arribas*

PROGRAM

Speakers: *Ramaroson Andriantsitohaina; Nicole Lüneburg; Julio Brito; Josef Zicha*

Room C (Aula 3)

Workshop Proteomics

Manuel Mayr

King's College, University of London

15.40-16.00

Coffee Break

16.00-17.40

Room B (Aula Castelao)

SYMPOSIUM

Energy sensors, thermoregulation and brown adipose tissue.

Chairperson: *Rubén Nogueiras; B. Cannon*

Speakers: *Barbara Cannon; Antonio Vidal-Puig; David Carling; S. Enerback*

Room A (Salon de Actos)

SYMPOSIUM

Pathophysiology of the cardiac electrical activity

Chairperson: *José Jalife, Antonio Alberola.*

Speakers: *Francisco Chorro; Héctor Valdivia; Luis Such; José Jalife*

Room C (Aula 3)

Workshop Superresolution microscopy

Silvio Rizzoli

European Neuroscience Institute, Göttingen

17.40-18.40

Oral Presentations

Room B (Aula Castelao)

Teaching in Physiology

28 — Teaching physiology in a traditional curriculum: pros.
T Ivanics, L Kiss.*

65 — Proposal of generation, editing and distribution of multimedia learning tools as a resource for teaching and study of the Pathophysiology in the Degree of Physiotherapy. *L Such-Miquel*, J Benitez, Y Alakhdar, F Miguel, J Sanchez, L Villaplana, J Casaña*

268 — Single neuron and short neuronal network simulation:
NeuroD, El. T. Giráldez, D Álvarez de la Rosa, N Rodríguez



PROGRAM

428 — Integrated Technologies in a Student-Centered Medical Classroom for Teaching Physiology. *L Fuentes-Broto**, *M Castro López*, *J Miana-Mena*, *F Soteras*, *I Pinilla*

Room A (Salon de Actos)

Neurophysiology

26 — A gene expression fingerprint of *C. elegans* embryonic motor neurons. *ANYE*, *CHI JUIDE*

38 — Role of astrocytic glutamatergic signaling in Abeta oligomers toxicity. *S Sanz-Blasco**, *G Dziewczapolski*, *DG Stoufer*, *B Lee*, *H Wolosker*, *SF Heinemann*, *LH Parsons*, *JC Piña Crespo*, *SA Lipton*

99 — Caffeine-releasable calcium content of large voltage-clamped snail neurones. *C. Thomas**

305 — Functional mapping of multisynaptic state functions during the acquisition and storage of associative learning tasks. *R Sánchez-Campusano**, *JM Delgado-García*, *A Gruart*

Room C (Aula 3)

Skeletal, cardiac, and smooth muscle physiology

138 — Role of calcium channel remodeling in the reversal phenotypic switch of human coronary artery smooth muscle cells, and the effects of NSAIDs. *E Muñoz-Conejero**, *D Sobradillo-Luengo*, *M Hernández-Morales*, *A Rocher*, *L Núñez*, *C Villalobos*

339 — FKBP12.6 activates the skeletal ryanodine receptor and antagonises the inhibitory effects of FKBP 12E Venturi*. *E Galfre*, *SJ Pitt*, *R Sitsapesan*

224 — Electrophysiological effects of TMEM16A modulators and niflumic acid in rabbit pulmonary artery smooth muscle cells. *H.A.T Pritchard**, *J Shi*, *A.P Albert*, *I.A Greenwood*

341 — Urotensin-II Signaling Mechanisms of Smooth Muscle Cell Proliferation: Role of Orai1, TRPC1 and Stim1M. *Rodriguez-Moyano*, *I Díaz*, *N Dionisio*, *J Rosado*, *A Ordoñez*, *T Smani**

20.30-23.30

Gala Dinner (Hotel Monumento San Francisco)

PROGRAM

Tuesday, September 11th

09.00-10.40

Room B (Aula Castelao)

Calcium Activated Cl⁻ Channels in Health and Disease

Chairperson: *Bonnie Blazer-Yost Deborah Baines*

Speakers: *Alan Verkman, Anna Menini, Iain Greenwood, Bonnie Blazer-Yost*

Room A (Salon de Actos)

SYMPOSIUM

New insights in thyroid hormone action

Chairperson: *J Nedergaard; M. López*

Speakers: *Jan Nedergaard; Krish Chatterjee; Ana Aranda; Eric Fliers*

Room C (Aula 3)

SYMPOSIUM

Teaching physiology: Pros and cons of traditional vs. innovative methods and curricula

Chairperson: *C. Gonzalez. G van der Vusse*

Speakers: *Tamas Ivanics; Suncana Kukolja Taradi; Victor Arce; Beatriz Gal*

10.40-11.10

Coffee Break

11.00-12.30

Oral Presentations

Room B (Aula Castelao)

Cellular and molecular physiology: Ion channels

177 — Novel regulation of Kv1.3 channel inactivation by intracellular Ca²⁺. *J Martinez-Pinna*, C McCloskey, V Fernandez-Martinez, J Wright, I Forsythe, L Kaczmarek, A Morales, M Mahaut-Smith*

191 — Role of the voltage-dependent K⁺ channel Kv1.5 in B lymphocytes. *A Vallejo-Gracia*, J Bielanska, C Soler, J Manils, J Hernández-Losa, J Castellví, M Ruiz-Marcellan, S Ramón y Cajal, J C. Ferreres, N Comes, A Felipe*

322 — TPC1 is a Ca²⁺-permeable cation channel with ion-conducting and gating properties distinct from those of TPC2S. *J Pitt*, A Lam, K Rietdorf, A Galione, R Sitsapesan*

379 — RVD regulation in mouse oocyte by amino acids transportM Pogorelova*

PROGRAM

474 — alpha and delta ENaC constitute mechanosensitive ion channels with different functional properties. *F Knoepp, M Bednarz, A Gorenflo, W Clauss, M Fronius**

477 — Regulation of the voltage gated K⁺ Kv7.2/3 channels by the neuronal serum-and glucocorticoids-regulated kinase 1.1. *P Miranda, A Cadaveira-Mosqueira, A Villarroel, JA Lamas, D Alvarez de la Rosa, T Giraldez**

Room A (Salon de Actos)

Endocrinology and metabolism

113 — The inhibition of TNF-alpha-induced leucocyte apoptosis by melatonin involves membrane MT1/2 receptors. *J Espino*, AB Rodriguez, JA Pariente*

189 — The pancreatic beta-cell is regulated by the clock gene Rev-erb-alpha: modulation by leptin and obesity. *I Quesada*, L Marroquí, T Batista, E Caballero-Garrido, E Carneiro, A Boschero, Á Nadal, E Vieira*

216 — Dopamine D2 receptors regulate leptin in adipocytes. *S Cuevas*, Y Yang, Y Zhang, I Armando, P Jose*

326 — Effects of Day and Night - Time Food Restriction on Metabolic and Hormonal Parameters in Adult Golden Hamsters (*Mesocricetus auratus*). *B Gündüz*, N Hasanoglu, Z Günes*

491 — NESFATIN-1 AMELIORATES INDOMETHACIN-INDUCED GASTRIC DAMAGE IN RATS VIA ITS ANTIOXIDANT EFFECTS. *M Kolgazi*, C Cantali, R Ozcelik, R Deniz, ZN Ozdemir Kumral, M Yuksel, S Sirvanci, B Yegen*

167 — Maternal undernutrition in rats induces early heart hypertrophy in young male and female offspring. *SM Arribas*, AL López de Pablo, P Prachaney, L Condezo-Hoyos, P Rodriguez-Rodríguez, JF Regadera, M R López, MC González*

Room C (Aula 3)

Pathophysiology and Integrative Physiology

75 — Effect of Platelet-Activating Factor Receptor Antagonist (PAFRA) on Endotoxin-induced Disseminated Intravascular Coagulation (DIC) in RatsR. *COL*, E KESKIN*

135 — CoQ deficiency: molecular and pathophysiological consequences. *M Luna-Sánchez*, L García Corzo, C Doerrier, A López, J Bullejos, G Escames, D Acuña-Castroviejo, LC López*

PROGRAM

262 — Acute and chronic effects of *S. Cerevisiae* and *S. Boulardii* on gastrointestinal organs for inflammatory parameters. *G Memi**, *M Deniz*, *A Uludag*, *D Deniz*, *N Imeryüz*

206 — Study of the effect of IKATP blockade with glibenclamide on physiological heterogeneity of the ventricular myocardium. An experimental research. *I del-Canto*, *N Gallego*, *C Soler*, *L Brines*, *M Koninckx*, *L Such-Miquel*, *G Parra*, *J Guerrero*, *J Barber*, *FJ Chorro*, *A Alberola**, *L Such*

405 — Age- and sex-dependent differences in the hypertension and renal hemodynamic changes in rats with an altered nephrogenesis. Role of angiotensin II. *V Reverte*, *A Tapia*, *I Gimenez*, *J Moreno*, *J Gambini*, *M Llinás*, *FJ Salazar**

429 — The Protective Effects of Chitosan on Liver Damage in Experimental Acute Extrahepatic Cholestasis. *M DUDEA**, *S CLICHICI*, *D OLTEANU*, *A NAGY*, *S DUDEA*, *M CUCOS*, *R MOLDOVAN*, *A MURESAN*

12.30-14.00 Lunch. Cafetería (School of Medicine)

14.00-15.40 **Room B (Aula Castelao)**

SYMPOSIUM

Intracellular calcium signalling

Chairperson: *Ole H. Petersen*; *Gines M. Salido*

Speakers: *Ole H. Petersen*; *Anant Parekh*;
Javier García-Sancho; *Fabiana Perocchi*

Room A (Salon de Actos)

SYMPOSIUM

Progress in Respiratory Physiology

Chairperson: *Prem Kumar*; *M^a Rosario Pásaro*

Speakers: *Paul Kemp*; *Silvia Conde*;
Ana Obeso; *Francisco Perez-Vizcaino*

Room C (Aula 3)

Workshop

"Tumor suppressor genes in the biology of stem cells"

Manuel Collado, Instituto de Investigaciones Sanitarias (IDIS), Spain

15.40-16.00 **Coffee Break**

PROGRAM

16.00-17.00

Room A (Salon de Actos)

Spying the molecular workings of ion channels using fluorescence

Juan Negrin Lecture

Ramon Latorre

Director del Centro Interdisciplinario de Neurociencia de Valparaíso

Profesor Adjunto, University of California, Los Angeles

17.00-17.30

Closing Session and Award Ceremony

Posters



- 1** – Deleterious effects of CaMKII delta; upregulation in the ischemic/reperfused hearts: a role of oxidative stress and Ca²⁺-handling disorders promoting contractile dysfunction, arrhythmias and cell death
ADAMEOVA ADRIANA
Cardiovascular, respiratory and autonomic control • 110
- 2** – Cardiovascular and respiratory modulation of heart rate and EEG in full term neonates at risk during sleep
GONZALEZ JULIAN
Cardiovascular, respiratory and autonomic control • 235
- 3** – Lidocaine down-regulates inflammatory response secondary to one lung ventilation
Rancan Lisa
Cardiovascular, respiratory and autonomic control • 237
- 4** – Biological activity of Borago officinalis on isolated rat smooth muscle and antioxidant capacity
Marta Sofia Valero Gracia
Cardiovascular, respiratory and autonomic control • 317
- 5** – The dynamics of skeletal muscle oxygen extraction during exercise at simulated altitude
JUAN GABRIEL RÍOS KRISTJÁNSSON
Cardiovascular, respiratory and autonomic control • 448
- 6** – CoQ Biosynthesis and Genotype-Phenotype Relationships in New Mouse Models of Primary CoQ Deficiency
LUIS CARLOS LÓPEZ GARCÍA
Cellular and molecular physiology: Ion channels, signalling pathways and regulation of gene expression • 15
- 7** – Interleukin-10 reverses the oxidative damage induced by serotonin and TNF-alpha in human enterocyte-like Caco-2 cells
Latorre Eva
Cellular and molecular physiology: Ion channels, signalling pathways and regulation of gene expression • 52
- 8** – The effect of melatonin on NOS and SOD upregulations in the model of metabolic syndrome.
Parohova Jana
Cellular and molecular physiology: Ion channels, signalling pathways and regulation of gene expression • 58
- 9** – K-Ras isoform modulates extracellular matrix synthesis through Erk and Akt signalling
Isabel Fuentes-Calvo
Cellular and molecular physiology: Ion channels, signalling pathways and regulation of gene expression • 129
- 10** – K-RAS ISOFORM REGULATES FIBROBLASTS PROLIFERATION AND CELL MOTILITY THROUGH ERK AND AKT ACTIVATION
MUÑOZ FÉLIX JOSÉ MANUEL
Cellular and molecular physiology: Ion channels, signalling pathways and regulation of gene expression • 159
- 11** – THE EFFECTS OF NEW ALIBERNET RED WINE EXTRACT ON NITRIC OXIDE AND SUPEROXID DISMUTASE ACTIVITIES IN SPONTANEOUSLY HYPERTENSIVE RATS.
Kováčsová Mária
Cellular and molecular physiology: Ion channels, signalling pathways and regulation of gene expression • 173
- 12** – Different NO and ROS generation in the models of metabolic syndrome
Vrankova Stanislava
Cellular and molecular physiology: Ion channels, signalling pathways and regulation of gene expression • 193
- 13** – Changes in ROS/NO balance in left ventricle of young Wistar rat heart after treatment with NOS inhibitors
Majzúnová Miroslava

- Cellular and molecular physiology: Ion channels, signalling pathways and regulation of gene expression • 203
- 14** – Possible protective effect of Xanthohumol against liver damage secondary to aging
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