

FEPS MEETING PROGRAMME

THURSDAY, 12. NOVEMBER 2009:

10:00-16:45 **Session I - EYPS**

LECTURE
THEATRE 1

European Young Physiologist Symposium

Chairs: *Jernej Jorgačevski, Elisa Luin*

Key note EYPS: Astrocytes potentiate hippocampal synaptic transmission

Gertrudis Perea

Feasibility of non-quantal release of acetylcholine from the postganglionic parasympathetic nerves in the right atrium of rat

Denis V. Abramochkin

Role of potassium currents in the repolarization of canine ventricular myocardium under action potential clamp conditions

Balazs Horvath

TMEM16B is a novel Ca^{2+} -activated Cl^- channel candidate in vertebrate olfactory transduction

Michele Dibattista

Break 11:20-11:40

Chairs: *Michele Dibattista, Giada Cellot*

The significance of lipid raft/caveolae microdomains in several aspects of the NK1-R biology

Alenka Hrovat

Actin-dependent volume recovery of embryonic cell subjected to hypoosmotic shock

Maria Pogorelova

The role of reactive oxygen species on proliferation and Ca^{2+} signalling of skeletal muscle cells during *in vitro* ageing

Elisa Luin

Embryonic organotypic cultures: An *in vitro* model for excitotoxicity-due spinal cord injury

Graciela L. Mazzone

Nicotine enhances sub threshold resonance behavior of oriens-lacunosum moleculare interneurons in the mouse hippocampus

Marilena Griguoli

Lunch 12:55-13:55

Chairs: *Gertrudis Perea, Denis V. Abramochkin*

Key note EYPS: Role of substrates, metabolites and transcriptional regulation of metabolism in cardiac arrhythmia

Iman S Gurung

Differential molecular consequences of excitotoxicity and metabolic dysfunction after *in vitro* experimental spinal cord injury

Anujaianthi Kuzhandaivel

Effect of free oxygen radicals on excitability of rat hypoglossal motoneurons *in vitro*

Francesca Nani

Early in postnatal development, tonic activation of kainate receptors by ambient glutamate reduces GABA release from mossy fiber terminals

Maddalena Delma Caiati

Break 15:10-15:30

Chairs: *Iman S Gurung, Balazs Horvath*

The effect of gender and hand skin perfusion on tissue insulation during cold exposure

Boris RM Kingma

Loss of LTD at MF-CA3 synapses overexpressing GLT-1

Victoria Safiulina

Neuronal functional differentiation in mammalian postnatal stem/precursor cells

Alberto Montalbano

Carbon nanotubes direct interactions with neuronal membranes ignite post spike excitability

Giada Cellot

Gephyrin regulates both GABAergic and glutamatergic synaptic transmission in cultured hippocampal neurons

Rocco Pizzarelli

14:00-16:45

LECTURE
THEATRE 2

Educational Workshop (organised by FEPS):
Reappraisal of basic sciences in the construction of medical curricula and how to evaluate study progress by portfolio

Chairs/Organizers:

Liisa Peltonen, Helsinki, Finland

Luc Snoeckx, Maastricht, The Netherlands.

What science should be included within integrated curricula?

Karen Mattick, Exeter, UK

Teaching in physiology and pathophysiology in the medical curriculum

Brigitte Velkeniers, Brussels, Belgium

Break 15:15-15:45

Portfolio-based assessment of medical and generic competencies in the physician – clinical investigator master program at the Maastricht University

Sylvia Heeneman, Maastricht, The Netherlands

Perspectives on test-enhanced learning and basic science

Charlotte Ringsted, Copenhagen, Denmark

17:00-17:30

LECTURE
THEATRE 3

FEPS 2009 Opening Ceremony

17:45-19:00

LECTURE
THEATRE 3

FEPS Keynote Lecture

Measuring and manipulating second messenger levels in cellular organelles of living cells

Tullio Pozzan, Padova, Italy

19:00-

Welcome and get-together party

FRIDAY, 13. NOVEMBER 2009:

09:00-11:00 **Session IIa - Symposium**

LECTURE ***Astrocyte dynamics in health and disease***

THEATRE 1

Chair/Organizer:

Milos Pekny, Gothenburg, Sweden

Glial fibrillary acidic protein and vimentin are negative regulators of the neurogenic niche

Milos Pekny

Reactive astrogliosis and post neurotrauma recovery: Human neural stem cell-reactivated proneuronal circuitry in GFAP^{-/-}Vimentin^{-/-} mice following spinal cord injury

Yang (Ted) D. Teng

Astrocyte subtypes and GFAP isoforms in the developing and adult brain

Elly M. Hol

Properties of regulated exocytosis and vesicle trafficking in astrocytes

Marko Kreft

09:00-11:00 **Session IIb - Symposium**

LECTURE ***Assessment and consequences of asynchronous activation of the ventricles***

THEATRE 2

Chair/Organizer:

Frits W. Prinzen, Maastricht, The Netherlands

The quest for ventricular pacing sites that preserve cardiac contractility and efficiency

Frits W. Prinzen

Contraction patterns in dyssynchronous hearts

Borut Kirn

Pacing-induced protection in the embryonic chick heart model

Eric Raddatz

Role of ventricular activation for arrhythmogenesis in the CAVB dog model

Thom R.G. Stams

09:00-11:00

Session IIc - Symposium

LECTURE
THEATRE 3

The physiology of endocrine pancreas

Chair/Organizer:

Marjan Rupnik, Maribor, Slovenia

The physiology of rodent beta-cells in pancreas slices

Marjan Rupnik

Ion channels and the regulation of insulin secretion: of mice and men

Patrik Rorsman

Protein serotonylation modulates insulin secretion

Diego J. Walther

Cell swelling-mediated stimulus-secretion-coupling and actions of insulin in clonal insulinoma cells

Martin Jakab

09:00-11:00

Session II d - Symposium

LECTURE
THEATRE 4

Serpins: A family of proteins regulating a variety of physiological processes

Chair/Organizer:

Margarethe Geiger, Vienna, Austria

Structure and function of serpins in blood coagulation system

Wei Li

Protein C inhibitor: A serpin with multiple functions

Margarethe Geiger

Serpin in cancer: Maspin as a paradigm

Ming Zhang

09:00-11:00

Session IIe – Symposium

LECTURE
THEATRE 5

Molecular Physiology of Hearing

Chair/Organizer:

Tina Pangršič, Göttingen, Germany

Ca²⁺ signals regulating hair cell transmitter release

Tobias Moser

Pathology of cochlear ion transport: Insights from deaf mice and humans

Thomas J. Jentsch

Roles for prestin in amplification and frequency tuning in the cochlea

Ian Russell

Molecular perturbation of a large CNS auditory synapse yields new insights into transmitter release and active zone function

Ralf Schneggenburger

11:30-13:00

Session IIIa - Educational Workshop

LECTURE
THEATRE 2

Computer models in physiology

Chair:

Luc Snoeckx, Maastricht, The Netherlands

An interactive model for oxygen transport and acid base physiology in human body

Vito Starc

High altitude adaptation in the respiratory control system. A mathematical model simulation

Vito Starc

11:30-13:00

Session IIIb - Oral Presentations

LECTURE
THEATRE 3

Exercise physiology

Chair:

Jørgen Jensen, Oslo, Norway

Changes in the venous blood oxygen stores at the onset of exercise

Maria Pia Francescato

Effects of grape seed extract on oxidative damage and antioxidant defense induced by acute and chronic exercise in rats

Hakkı Gökbel

The effect of interval training combined with external pressure on thighs on maximal and submaximal performance

Michail E. Keramidas

The levels of leptin, ghrelin and resistin after chronic exercises in rats: The effect of caffeic acid phenethyl ester (CAPE) on these parameters

H. Serdar Gergerlioğlu

11:30-13:00

LECTURE
THEATRE 4

Session IIIc - Oral Presentations

Diabetes, obesity, pancreas-physiology

Chair:

Jan Kopecky, Prague, Czech Republic

The role of endocrine tissue network topology in beta-cell bursting oscillations patterns

Dean Korošak

Cardiac ryanodine receptors: A novel therapeutic target in diabetic cardiomyopathy

Belma Turan

The contribution of Stim1 and Orai1 to Ca²⁺ homeostasis and insulin secretion in INS1-R9 β -cells

Ismene Fertschai

Effects of grape seed extract supplementation on plasma oxidative stress and antioxidant defense markers in diabetic rats

Nilsel Okudan

Possible involvement of leptin-AMPK axes in induction of muscle nonshivering thermogenesis by high-fat diet in mice: Association with obesity-resistance

Jan Kopecky

Body composition and body fat percentage of students at the University of Latvia in 2007-2009

Liga Ozolina-Moll

11:30-13:00

LECTURE
THEATRE 5

Session III d - Oral Presentations

Respiratory and cardiovascular physiology

Chair:

Ger J. van der Vusse, Maastricht, The Netherlands

The impact of family history for vascular pathology on the autonomic cardiovascular function in young normotensive individuals

Nina Belova

Lung mechanics measurements by the end-inflation occlusion method in mice

Alessandro Rubini

Hemifusion states of variable duration precede exocytotic fusion pores in alveolar type II cells

Pika Miklavc

Postnatal changes in the cardiomyocyte- contractility and calcium transients

Sarah Martin

14:00-15:30

POSTER AREA
MF

Session IV Poster Session and Exhibition

15:30-16:30

LECTURE
THEATRE 3

Keynote Lecture

The Glial Regulation of Sleep and Memory

Philip Haydon, Boston, USA

Break 16:30-17:00

17:00-19:00

LECTURE
THEATRE 1

Session Va - Symposium

Glia in neurodegenerative processes

Chair/Organizer:

José Julio Rodríguez Arellano, Manchester, UK

Astroglial atrophy and hypertrophy in the hippocampus and entorhinal cortex during the progression of Alzheimer's disease: A combined process

José Julio Rodríguez Arellano

Diffusion parameters of the extracellular space in health and disease

Eva Sykova

Glutamate and ATP excitotoxicity in white matter damage

Carlos Matute

Microglial responses to acute spinal cord injury in vivo

Frank Kirchhoff

17:00-19:00

Session Vb - Symposium

LECTURE
THEATRE 2

Calcium signals in cell death and disease

Chairs/Organizers:

Alexei Verkhratsky, Manchester, UK

Ole H. Petersen, Liverpool, UK

Physiology and pathophysiology of calcium signalling in pancreatic acinar cells

Ole H. Petersen

Alteration of nucleocytoplasmic transport occurs during calcium-mediated cell death

Daniele Bano

Aberrant calcium signalling in amyotrophic lateral sclerosis

Julian Grosskreutz

Dynamic calcium stores, calcium signalling and neurodegeneration

Alexei Verkhratsky

17:00-19:00

Session Vc - Symposium

LECTURE
THEATRE 3

Regulation of synaptic transmission

Chair/Organizer: Stephen Smith, Portland, USA

Regulation of nerve terminal function by the extracellular Calcium-sensing receptor

Stephen M. Smith

Trafficking and function of v-SNARE protein VAMP4 at central synapses

Jesica Raingo

Quantal size and multivesicular exocytosis at the hair-cell synapse: Paired recordings with membrane capacitance measurements

Henrique von Gersdorff

Regulation of synaptic transmission by the ubiquitin-proteasome system

Felix E. Schweizer

17:00-19:00

Session Vd - Symposium

LECTURE
THEATRE 4

Histamine and CNS

Chair/Organizer: *Mojca Kržan, Ljubljana, Slovenia*

Is brain histamine involved in the response to antidepressant drugs?

Patrizio Blandina

The role of neuronal histamine and H3 receptors in alcohol-related behaviour

Pertti Panula

Interactions between histaminergic and cannabinoid systems; a potential therapeutic target for cognitive and feeding behaviour impairments?

Maria Beatrice Passani

Histamine as a regulator of astrocyte function

Metoda Lipnik-Štangelj

Astrocytes as a site for histamine inactivation

Mojca Kržan

17:00-19:00

Session Ve - Symposium

LECTURE
THEATRE 5

Obesity and cardiac cellular physiology

Chair/Organizer: *M.-Saadeh Suleiman, Bristol, UK*

What has MR told us about the heart in obesity and diabetes?

Kieran Clarke

Mice fed high-fat diet display altered metabolic characteristics of their hearts and myocytes and increased vulnerability to cardiac insult

Anabelle Chase

Differential analysis of the cardiac proteome of rats artificially selected for either low or high aerobic capacity

Jatin Burniston

High-Fat diet, coronary disease and myocardial protection

M.-Saadeh Suleiman

20:30-

Young Physiologists' Party

Optional Wine Tasting

SATURDAY, 14. NOVEMBER 2009:

09:00-11:00 **Session VIa - Symposium**

LECTURE
THEATRE 1 ***AMP-activated protein kinase: Regulation of energy supply at cellular and whole body level***

Chair/Organizer:

A. Mark Evans, Edinburgh, UK

AMP-activated protein kinase and hypoxia-response coupling in the carotid body and pulmonary artery

A. Mark Evans

Role of hypothalamic fatty acids, AMPK and ghrelin in the regulation of food intake

Miguel López

5 AMP-activated protein kinase (AMPK): A role in female reproduction?

Joëlle Dupont

AMP-activated protein kinase serves as a universal regulator of autophagy

Maria Høyer-Hansen

09:00-11:00 **Session VIb - Symposium**

LECTURE
THEATRE 2 ***Ion transporters in cell migration and apoptosis***

Chair/Organizer:

Markus Ritter, Salzburg, Austria

The Na⁺/H⁺ exchanger NHE1 generates a pericellular pH-nanoenvironment required for cell migration

Christian Stock

Ion channels keep mobile cell on the go

Albrecht Schwab

The functional role of the non-gastric H⁺/K⁺-ATPase ATP12A (ATP1AL1) as anti-apoptotic ion transporter

Markus Ritter

Interaction of Bax with a mitochondrial potassium channel is crucial for its action in apoptosis

Ildikò Szabò

09:00-11:00

Session VIc - Symposium

LECTURE
THEATRE 3

The physiology of neural stem cells in the healthy and diseased brain

Chair/Organizer:

Ludwig Aigner, Salzburg, Austria

Stem cells and neurogenesis in the adult brain

Ludwig Aigner

The physiology of neural stem cells in the healthy and diseased brain

Jürgen Winkler

The rise of cancer stem cells in high-grade gliomas – a matter of a pathological stem cell niche?

Peter Hau

Glutamatergic excitation of mature and newly generated young hippocampal granule cells

Josef Bischofberger

09:00-11:00

Session VIId - Symposium

LECTURE
THEATRE 4

Physiology of deconditioning Supported by European Space Agency (ESA)

Chair/Organizer:

Igor Mekjavic, Ljubljana, Slovenia



Effects of prolonged bed rest on mechanical properties of peripheral blood vessels

Ola Eiken

Chest wall mechanics during exercise in hypobaric hypoxia

Andrea Aliverti

Determinants of bone loss during immobilization

Jörn Rittweger

Physiology of deconditioning – nutritional aspects

Ian A Macdonald

09:00-11:00

Session VIe - Symposium

LECTURE
THEATRE 5

Exocytosis and fusion pore physiology

Chair/Organizer:

François Darchen, Paris, France

What drives fusion pore enlargement?

François Darchen

Different roles of the SNARE-complex in neuronal exocytosis: From vesicle docking to the fusion pore

Jakob B. Sørensen

Ca dependence of exo and endocytotic coupling at a glutamatergic synapse

Takeshi Sakaba

Fusion pore regulation of peptidergic vesicles

Robert Zorec / Nina Vardjan

11:30-13:00

Session VIIb – Discussion forum

LECTURE
THEATRE 3

Organized by Zeiss: Discussion forum on high resolution microscopy



Practical superresolution microscopy: Theory and applications of PAL-M and SR-SIM

Annette Bergter

11:30-13:00

Session VIIc - Oral Presentations

LECTURE
THEATRE 4

Endocrinology

Chair:

Marjan Rupnik, Maribor, Slovenia

Expression of 11 β -HSD1 and H6PDH during ontogeny

Lenka Rehakova

The adaptive response of leydig cells to immobilization stress: Stimulation of PKA and StAR protein

Tatjana S. Kostic

Intracellular chloride ions modulate secretory activity of mouse chromaffin cells

Jurij Dolenshek

GPCR-mediated signaling-induced paracrine transactivation of CB1 receptor, an interaction between the effects of calcium-mobilizing hormones and cannabinoid system

László Hunyady

Lysophospholipids modulate voltage-gated calcium channel currents in pituitary cells; effects of lipid-stress

Itzhak Nussinovitch

Behavioural effects of growth hormone replacement therapy in aged Wistar rats

Rubén V. Rial

11:30-13:00

Session VIId - Oral Presentations

LECTURE
THEATRE 5

Neurophysiology and sensory system

Chair/Organizer: *Tina Pangršič, Goettingen, Germany*

Habitual characteristics of auditory Go-P3 and NoGo-P3 responses are different

Rezan Hatungil

Arrestin in *Drosophila* phototransduction

Gregor Belušič

Dose dependent nicotine effects on brain excitability in immature rats

Dana Maresova

Otoferlin, a synaptotagmin-like calcium sensor?

Ellen Reisinger

Function of prestin as a bicarbonate-chloride antiporter

Pavel Mistrík

14:00-15:30

Session VIII

POSTER AREA
MF

Poster Session and Exhibition

15:30-16:30

Keynote Lecture:

LECTURE
THEATRE 3

Structure-function relationship of the endocrine pancreas at a glance

Per-Olof Berggren, Stockholm, Sweden

17:00-19:00

Session IXa - Symposium

LECTURE
THEATRE 1

Human cutaneous microcirculation in health and disease

Chair/Organizer:

Helena Lenasi, Ljubljana, Slovenia

Skin perfusion and human heat exchange: How, why and use

Wouter van Marken Lichtenbelt

Local regulation of human cutaneous microcirculation: Impact of endothelium-dependent vasodilatation

Helena Lenasi

Skin vasomotion investigation in different human pathological conditions

Marco Rossi

Skin microcirculation in the upper and lower extremities of diabetic patients with and without large vessel disease

Vilma Urbančič-Rovan

17:00-19:00

Session IXb - Symposium

LECTURE
THEATRE 2

Rhythmic oscillations of spinal networks in health and disease models

Chair/Organizer:

Andrea Nistri, Trieste, Italy

Pathophysiology of experimental spinal injury *in vitro*

Andrea Nistri

Cellular and network mechanisms of rhythm generation in spinal cord circuits

Jürg Streit

Temporal evolution of spontaneous Ca²⁺ signals generated by ventral neurons is a marker of spinal cord maturation *in vitro*

Laura Ballerini

Exploring the early damage to the locomotor circuits with an *in vitro* model of acute Spinal Cord Injury

Giuliano Taccola

17:00-19:00

Session IXc - Symposium

LECTURE
THEATRE 3

Vasopressin and Oxytocin receptors: Looking for new tools, pharmacology, physiology and therapeutic agents.

Chair/Organizer:

Govindan Dayanithi, Prague, Czech Republic

Vasopressin receptor-mediated calcium signals and peptide release in the supraoptic nucleus neurons: Contradictions and compromises

Govindan Dayanithi

Functional consequences of vasopressin and corticotropin-releasing hormone receptors co-expression in native and heterologous models

Gilles Guillon

Oxytocin receptor coupling to different G-proteins: Role in receptor trafficking

Bice Chini

Novel oxytocin receptor-linked signaling networks

Hans H. Zingg

17:00-20:00

Session IXd - Symposium

LECTURE
THEATRE 4

Muscle and fat: Molecular mechanisms of signaling and crosstalk

COST BM0602 WG3-meeting



Chair/Organizers:

Jørgen Jensen, Oslo, Norway

Marko Kreft, Ljubljana, Slovenia

Molecular mechanisms of the fat and muscle crosstalk

Juergen Eckel

Bridging mitochondrial dynamics and metabolism in muscle

Antonio Zorzano

PIKfyve regulates glucose uptake in skeletal muscles

Jørgen Jensen

Reduced AMP-activated protein kinase activity in mouse skeletal muscle does not exacerbate the development of insulin resistance with obesity

Sebastian Beck Jørgensen

Redox regulation of glucose metabolism

Tarja Kokkola

Zooming out on AMPK substrates: A phosphoproteomic approach

Didier Vertommen

17:00-19:00

Session IXe - Symposium

LECTURE
THEATRE 5

Ca^{2+} , a miraculous messenger - an update

Chair/Organizer:

Wolfgang Graier, Graz, Austria

Can we reveal an agonist-induced Ca^{2+} entry hidden by the ubiquitous store-operated Ca^{2+} entry in endothelial cells?

Maud Frieden

Endoplasmic reticulum-mitochondria crosstalk and cellular stress signaling

Gyorgy Szabadkai

Mitochondrial Ca^{2+} uptake is differentially determined by the Ca^{2+} source and the expression-level of the novel uncoupling proteins UCP2 and UCP3

Roland Malli

Spatial Ca^{2+} Signaling in Cardiac Myocytes

Jens Kockskämper

20:00-

Special Event

SUNDAY, 15. NOVEMBER 2009:

09:00-10:30 **Session Xb - Oral Presentations**

LECTURE
THEATRE 3

Gravitational physiology

Chair/Organizer: *Nandu Goswami, Graz, Austria*

Patterns of cardiovascular control during repeated tests of orthostatic loading

Jerry Joseph Batzel

Multiparametric structural analysis of retinal vessels induced by pathological states: Possible space flight applications?

Laszlo Simon

Continuous epinephrine infusion modulates passive head-up tilt induced cardiovascular responses

Andreas Roessler

Predicting pulsatile variations in finger arterial pressure using a novel cardiovascular system model

Aurelio de los Reyes V

Cardio-postural interactions: Wavelet analysis of gastrocnemius electromyographic activity and blood pressure variation with respect to postural sway during quiet stance

Andrew P. Blaber

Effects of mental challenge applied before passive head up tilt on orthostatic neurohormonal responses

Nandu Goswami

09:00-10:30 **Session Xc - Oral Presentations**

LECTURE
THEATRE 4

Tissue/cell damage and apoptosis

Chair/Organizer: *Markus Ritter, Salzburg, Austria*

The lysosomal pathway of apoptosis: A complex biological network

Veronika Stoka

The non-gastric H⁺/K⁺-ATPase ATP12A exerts an anti-apoptotic effect on butyrate-treated myelomonocytic HL60 cells

Sabine Schmidt

The possible effects of topically administered carvacrol on physiological mechanisms in wound healing

M. Yalçın Günal

Apoptosis without karyorrhexis in microglia

Barbara Klein

Role of cell swelling-induced peptide secretion in ischemia-reperfusion injury and preconditioning

Vladimír Štrbák

09:00-10:30

Session Xd - Oral Presentations

LECTURE
THEATRE 5

Neurophysiology and sensory system

Chair/Organizer: *Marjan Rupnik, Maribor, Slovenia*

Nicotine protects against kainic acid induced hippocampal damage

Vladimir Riljak

Distinguishing between the sub- and superthreshold regime of neuronal firing

Aleš Škorjanc

Maturation and functional plasticity of cellular respiratory apparatus in flies' eyes

Gregor Zupančič

Improving effects of chronic melatonin treatment on 5-HT neurotransmission and spatial memory task in old rats

Susana Esteban

11:00-13:00

Session XIa - Symposium

LECTURE
THEATRE 1

Gravitational Physiology

Chairs/Organizers: *Helmut Hinghofer-Szalkay, Graz, Austria & Nandu Goswami, Graz, Austria*

Gravity, the hydrostatic indifference concept, and the heart

Helmut Hinghofer-Szalkay

Cardiovascular responses to the upright posture

Neil H. Secher

Cardiovascular control, exercise and gravity

Dag Linnarsson

Neuroendocrine responses to orthostasis combined with other stress stimuli

Daniela Jezova

11:00-13:00

Session Xlb - Symposium

LECTURE
THEATRE 2

Osmoregulation, osmosensing and mechanotransduction

Chair/Organizer:

Markus Ritter, Salzburg, Austria

Ion and water channels involved in cell volume control: Regulation and physiological roles

Else Kay Hoffmann

The hypertonicity-induced cation channel (HICC) in human hepatocytes: Role in proliferation vs. apoptosis and molecular characterization

Frank Wehner

Osmosignaling in the liver

Dieter Häussinger

Kinetics of force-induced cell reorganization depends on microtubules and actin

Ralf Kemkemer

11:00-13:00

Session Xlc - Symposium

LECTURE
THEATRE 3

Physiology and pathophysiology of purinergic signalling

Chair/Organizer:

Elsa Fabbretti, Nova Gorica, Slovenia

Overview of the pathophysiology of purinergic signalling

Geoffrey Burnstock

ATP-mediated signalling in trigeminal neurons in a migraine animal model

Elsa Fabbretti

Nucleotide receptors at the neuro-vascular interface

Stefan Boehm

Purinergic signaling in the pulmonary neuroepithelial body microenvironment unraveled by live cell imaging

Dirk Adriaensen

Extracellular ATP and P2 receptors in neurodegenerative diseases: P2X7 is an obligate component of microglia response to amyloid beta

Francesco Di Virgilio

11:00-13:00

Session XIId - Symposium

LECTURE
THEATRE 4

Pain: Role of glutamate and GABA metabotropic receptors

Chairs/Organizers: *Marcella MOTTA, Milano, Italy & Valerio MAGNAGHI, Milano, Italy*

Transcriptional regulation of type-2 metabotropic glutamate receptors: A potential strategy for chronic pain treatment

Ferdinando Nicoletti

GABA_B impairment in the dorsal horn of neuropathic rats: Possible roles for associated proteins

Marc Landry

Metabotropic GABA-B receptor-mediated effects in nociception

Valerio Magnaghi

Development of potential antihyperalgesic drugs targeting group III mGluRs

Cyril Goudet

14:00-15:30

Session XII

POSTER AREA
MF

Poster Session and Exhibition

15:30-16:00

FEPS Best Poster and Best Lecture Award

LECTURE
THEATRE 3