



FEPS

Federation of European Physiological Societies

FEPS NEWSLETTER

DECEMBER 2005, #4

<http://www.feps.org>

Secretariat

FEPS Newsletter:

Sonia Froidmont
Dept. of Physiology
University Maastricht
P.O. Box 616
6200 MD Maastricht
The Netherlands

Phone: +31-43-3881200

Fax: +31-43-3884166

s.froidmont@fys.unimaas.nl

Executive Board of FEPS:

Hans Hultborn
Copenhagen, Denmark
President

Ger van der Vusse
Maastricht, The Netherlands
Secretary General

Peter Bie
Odense, Denmark
Treasurer

Heini Murer
Zurich, Switzerland
President Elect

Eva Sykova
Prague, Czech Republic
Member

Carlo Di Benedetta
Bari, Italy
Member

<u>Letter of the Secretary General</u> of FEPS	1
Information about the <u>Joint meeting German Physiological Society and FEPS</u> in Munich 2006	2
Information about the <u>Joint meeting of the Slovak Physiological Society, the Physiological Society and FEPS</u> in Bratislava 2007. Call for Symposia proposals	11
Report of the <u>First Congress of Physiological Sciences of Serbia and Montenegro</u> in Belgrade, November 9-12, 2005	14
List of contents of the November issue of <u>Acta Physiologica</u>	16

**Don't forget to register for the
Joint German Physiological Society and FEPS meeting
in Munich March 26-29, 2006**

Letter of the Secretary General of the FEPS

Dear colleagues

Herewith I happily announce the December issue of the FEPS Newsletter. This Newsletter contains important information about the upcoming Joint meeting of the German Physiological Society and the Federation of European Physiological Societies.

If you are under the age of 35 years : DON'T miss the European Young Physiologists Symposium (EYPS) on Sunday March 26, 2006. The EYPS Symposium is fully dedicated to the highly relevant issue of "Molecular Biology as a tool in Physiological research".

If you are 35 and older : DON'T miss the joint scientific meeting either.

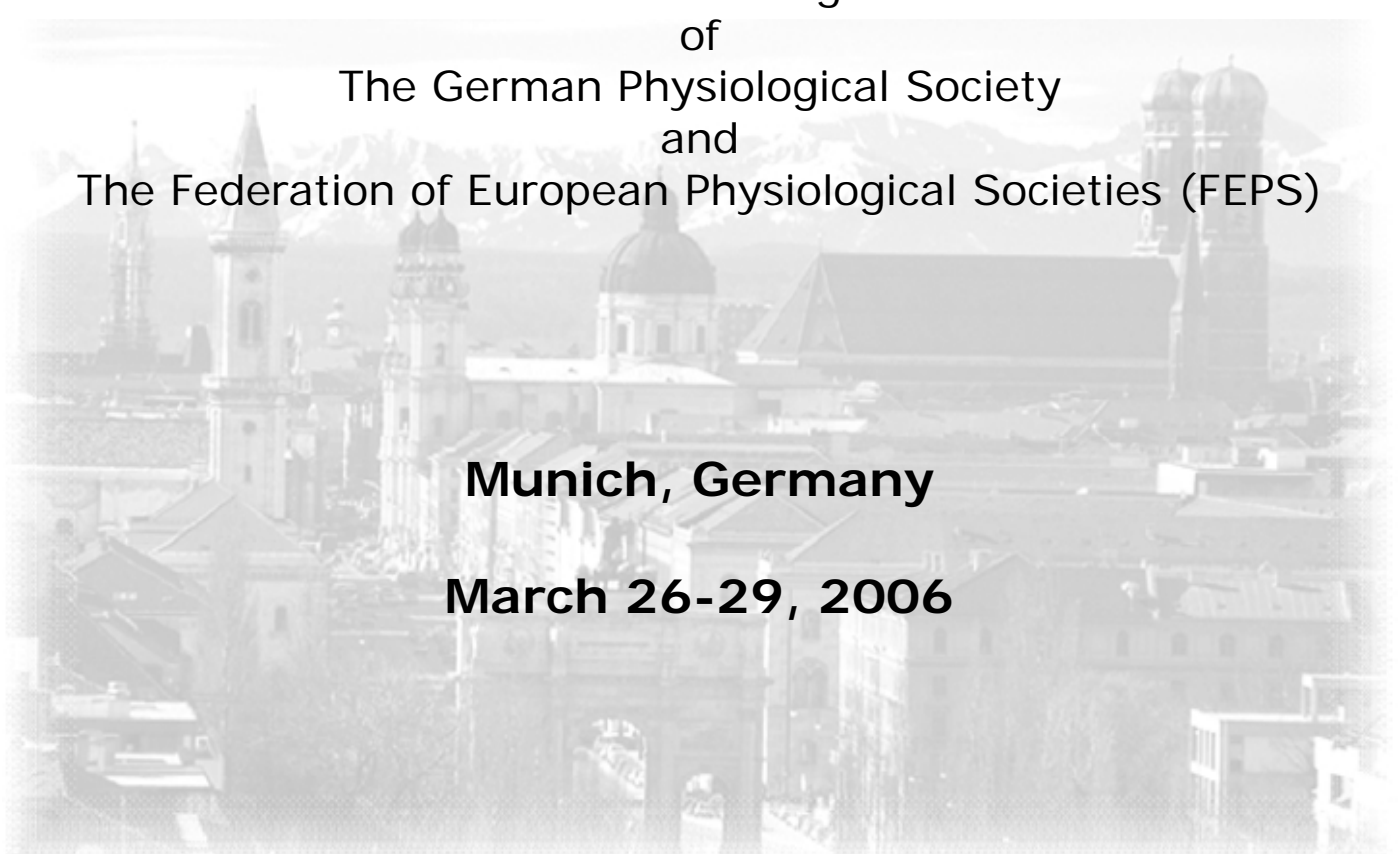
About 16 symposia will deal with important Physiological subjects in addition to the annual FEPS lecture delivered by Dr. Verrey, plenary lectures, oral communications and poster sessions. The Munich meeting will be a platform for scientists from Europe and other continents to present their latest findings and to exchange their ideas about hot topics in present day's Physiological science.

This Newsletter also contains the announcement of the 2007 Joint FEPS meeting in Bratislava, including the call for symposia proposals, a report of the First Scientific meeting organized by the Physiological society of Serbia and Montenegro in November 2005, and the content of the December issue of the Acta Physiologica, the official journal of the Federation.

Ger J. van der Vusse
Secretary General of the FEPS



[Back to Table of contents](#)



Joint Meeting
of
The German Physiological Society
and
The Federation of European Physiological Societies (FEPS)

Munich, Germany

March 26-29, 2006

See for registration and abstract submission :

<http://physinst.web.med.uni-muenchen.de/dpg06/>

Deadline for submission of abstracts :

January 10, 2006

Joint Meeting of
The German Physiological Society and
The Federation of European Physiological Societies (FEPS)

Munich, March 26 - 29, 2006

Program

Program Committee

Prof. Dr. Busse, Frankfurt
Prof. Dr. Deußen, Dresden
Prof. Dr. Jelkmann, Lübeck
Prof. Dr. Jonas, Freiburg
Prof. Dr. Pfitzer, Köln
Prof. Dr. Pott, Bochum
Prof. Dr. Richter, Göttingen
Prof. Dr. Misgeld, Heidelberg

Prof. H. Hultborn, Copenhagen, Denmark
Prof. G. van der Vusse, Maastricht, Netherlands
Prof. B. Lumb, Bristol, United Kingdom
Prof. E. Sykova, Prag, Czech Republic
Prof. H. Murer, Zürich, Switzerland

Program Scheme

Time	Saturday, March 25th	Sunday, March 26th	Monday, March 27th	Tuesday, March 28th	Wednesday, March 29th
8:15-10:30	10:00 Satellite Symposium New and Emerging Techniques in Electrophysiology	Young FEPS	Symposia (6x)	Symposia (6x)	Symposia (6x)
Pause					
10:45-11:45		Young FEPS	Main Lecture	Main Lecture	Main Lecture
11:45-12:30			Poster	Poster	Poster
Pause					
13:30-15:00	Satellite Symposium	Workshops (2x), Symposia (4x)	Orals (7x)	Orals (7x)	Orals (7x)
15:00-15:45			Poster	Poster	Poster
Pause					
16:00-17:30		Young investigators	Orals (7x)	Orals (7x)	Orals (7x)
Pause					
17:45-18:45		Young investigators	Main Lecture	Main Lecture	Main Lecture
18:45		Opening/Welcome	Member's Assemblies	Congress Dinner	

List of Symposia and Symposia speakers Munich 26-29, 2006

Sunday, March 26, 2006

	Symposia Titles	Chairmen/ Poppers	Speakers	Title Topic
SS1	Innovative methods in Teaching Physiology - Experiences with Problem Based Learning	Snoeckx/ Di Benedetta	Luc Snoeckx Carlo di Benedetta Gillian Maudsley Anne Custers To be announced Mascha Verheggen	Teaching Physiology via Problem Based Learning. An introduction The pros and contras in our experience for implementing the PBL and COE methodology in traditional Medical Schools Tutoring medical students in a problem-based curriculum : roles and realities How do students experience PBL as a vehicle for learning Physiology The relation between computer technology and PBL How can we reliably evaluate knowledge acquired via PBL
SS2	Purinergic mechanisms in muscle nociception	Ellrich	Alan North Ulrich Hoheisel Eike D. Schomburg Jens Ellrich	Purinergics and peripheral pain mechanisms Excitatory effects of ATP on muscle afferents Spinal sensorimotor control and purinergics P2X receptors and neck muscle pain
SS3	New insights in cerebellar physiology	Kolb	Christopher H. Yeo Steve A. Edgley Dagmar Timmann Matthias Maschke Hans-Peter Thier	Cerebellar function in motor memory formation Information processing in cerebellar cortex Cerebellum and Cognition Influence of cerebellar dysfunction on motor learning. The cerebellar basis of motor learning
SS4	Gas channels in membranes	Gros	H Ehmke R Kaldenhoff WF Boron AE Hill G Gros JP Cartron TP Jahn	Evidence for transport of molecular CO ₂ across the red cell membrane by aquaporin 1 and AE1 The tobacco aquaporin NtAQP1 is a membrane CO ₂ pore with physiological functions Role of aquaporin 1 for CO ₂ permeation across the luminal membrane of the rat kidney proximal tubule What are aquaporins for? Contribution of aquaporin 1 and Rh proteins to the CO ₂ permeability of the human red cell membrane Rhesus proteins constitute a pathway for gaseous NH ₃ Aquaporin homologues in plants and mammals transport ammonia
SS5	Cardiovascular Genomics	Raizada	Andrew Baker Robin Davisson Julian Paton David Paterson Mohan Raizada	Viral vectors for cardiovascular gene therapy Physiological genomics of the cardiovascular system Central cardiovascular control and neural gene transfer NO and cardiac functions Gene therapy for hypertension

Monday, March 27, 2006

	Symposia Titles	Chairmen/ Poppers	Speakers	Title Topic
SM1	Purinergic transmission in the nervous system	Verkhatsky	A. North, A. Verkhatsky H. Zimmermann Peter Illes O. Krishtal A. Nistri	Unitary purinergic EPSCs in cortical neurones Nucleotide signalling in adult neurogenesis Purinoreceptors in neuropathology P2X receptors as targets for opiates and cannabinoids Molecular physiology of P2X receptors
SM2	The mouse model for investigation of motor control in health and disease	Schomburg	Jens Ellrich Bror Alstermark Ole Kiehn Eike D. Schomburg	Long term depression of nociceptive reflexes in mice In vivo recordings of bulbospinal excitation in adult mouse forelimb motoneurons Physiological, anatomical, and genetic identification of CPG neurones in the developing spinal cord of the mouse Fatigability of spinal motor reflexes in the SOD1-G93A mouse – a model for ALS
SM3	The hypoxia response : from mussel to man	Gassmann	Doris Abele Thomas A. Gorr Roland Wenger Max Gassmann Joachim Fandrey Patrick Maxwell	The hypoxia response in mud clam and fish Drosophila and Daphnia in hypoxia The molecular response to hypoxia in mammals Hypoxia, HIF, Epo and excessive erythrocytosis Imaging hypoxia in mammalian cells The impact of HIF and CAIX in tumorigenesis
SM4	Cardio-mechano electric feedback: from pipette to patient	Kohl	Gerrit Isenberg Jean-Luc Balligand André Klebér Uli Schotten Peter Kohl	Effects of different modalities of mechanical stimulation (stretch, compression) on ion handling in cardiac myocytes and non-myocytes Endogenous Nitric Oxide mediates regulation of cardiac contractility and Ca ²⁺ responses to stretch Mechanical effects on cardiac action potential propagation Role of mechanical factors in initiation and sustenance of atrial fibrillation Mechanical interventions for initiation and termination of ventricular tachyarrhythmia
SM5	Alveolar fluid transport: new insights into lung edema and injury	Kübler	Sadis Matalon Stuart Wilson Christine Clerici Thomas Jonassen Ardeschir Ghofrani	Function and regulation of alveolar fluid transport Ion channels regulating alveolar fluid transport Alveolar fluid transport and the resolution of pulmonary edema Adaptation of alveolar fluid transport in congestive heart failure Impaired alveolar fluid clearance in acute lung injury
SM6	Development of the cardiovasc. system: plasticity through genetic and environmental factors	Dragon	Prof. Dr. Rob Poelmann Prof. Dr. A.F Moorman Prof. Carlos E. Blanco Prof. Dr. Bernd Pelster Prof. Dr. Bernd Fleischmann Prof. Dr. Peter Carmeliet	Development-related changes in the expression of shear stress responsive genes in the developing cardiovascular system of chicken embryos. Architectural plan for the heart: early patterning and delineation of the chambers and the nodes. Effect of prenatal hypoxia on cardiovascular function of the adult Developmental plasticity of the cardiovascular system; blood distribution of the zebrafish incubated under hypoxic conditions in vivo. Embryonic stem cell-derived pacemaker and cardiomyocytes. Role of VEGF during cardiovascular development

Tuesday, March 28, 2006

	Symposia Titles	Chairmen/ Poppers	Speakers	Title Topic
ST1	Blood vessels and nerves: common signals and pathways in development	NN	DG. Wilkinson HG. Augustin NN EB Pasquale	Diverse roles of eph receptors and ephrins in the regulation of cell migration and tissue assembly EphB receptors and ephrinB ligands: regulators of vascular assembly and homeostasis to be announced Eph receptors in the adult brain
ST2	Calcium handling in normal and diseased heart	Sipido	Andrew Trafford Peter Vangheluwe Natal van Riel Andras Varro Laszlo Ligeti	Adapting the systolic calcium transient to the influences of age and day length. The critical role of SERCA2 affinity in the regulation of calcium handling and cardiac function Computational analysis of disturbed calcium handling in the intact heart To be announced Calcium handling in the diabetic heart
ST3	GABA and epilepsy	Köhling	Kai Kaila Matthew Walker George Kostopoulos Marco de Curtis	KCC2 and CA7 and their role in epilepsy Tonic activation of GABA receptors and epilepsy Functional differentiation along the axis of the hippocampus and its relevance for epileptogenesis Parahippocampal circuits and epileptogenesis
ST4	Mechanisms of glia axon communication and nervous system repair	Hülsmann	Arthur Butt Michael Sereda Eva Sykova Jacqueline Trotter Norbert Weidner	Calcium signalling in NG2-expressing glia Genetic defects of myelination: molecular pathogenesis of hereditary neuropathies (CMT1A) Glia, stem cells and biomaterials - working together to repair spinal cord injury NG2-expressing cells in glial-axonrecognition and myelination. Cell-contact mediated axonal regeneration in the injured spinal cord.
ST5	Molecular mechanisms operating in the normal and diseased proximal tubule: new insights and perspectives	Devuyst	Heini Murer / Carsten Wagner Olivier Devuyst / Pierre Courtoy Erik I. Christensen Thomas Willnow / Anders Nykjaer	Transport of amino acids, phosphate, and organic cations/anions in the proximal tubule Endocytosis in the proximal tubule: Insights from mouse models of renal Fanconi syndrome Lysosomal storage and Fabry disease Multiligand receptors-derived strategies to prevent aminoglycoside-induced nephrotoxicity
ST6	Physiology and biophysics of KCNQ potassium channels	Friedrich	Holger Lerche Guiscard Seeböhm Thomas Jentsch Jacques Barhanin Álvaro Villarreal Michael Schwake	The retigabine interaction site of KCNQ channels KCNQ1 kinetics and influence of the beta subunit KCNE1 Insights into systems biology of KCNQ channels Gain-of-Function Mutations of KCNQ1 and KCNE2 in familial atrial fibrillation ? Mechanisms underlying KCNQ2/3 heteromeric potassium M-channel potentiation? Interaction of antiepileptic drugs with KCNQ channels?

Wednesday, March 29, 2006

	Symposia Titles	Chairmen/ Poppers	Speakers	Title Topic
SW1	Versatility of intracellular signalling pathways: From receptor to network plasticity	Ponimaskin	Stefan Offermanns Nevin Lambert Guillermina Lopez-Bendito Evgeni Ponimaskin Weiqi Zhang Maria Waldhoer	Mouse models for study G-protein-mediated signalling GABAB-receptor and IRK interactions GRCRs in developing brain New signaling pathways mediated by 5-HT receptors GABAB-receptor signalling in postnatal development GPCR heterodimer-selective agonists
SW2	Cardiac physiology and pathophysiology in transgenic mice	Suleiman	K. Zacharowski D. Escande K. Willecke Chris Jackson Costanza Emanuelli	Knock-out mice and the role of cardiac Toll-like receptors Mouse models of cardiac arrhythmias and conduction defects Expression and function of connexins in mouse heart Cardiac characteristics of ischaemically diseased mouse heart Cardiovascular pathology of kallikrein-kinin system in mouse
SW3	Aldosterone and vascular function	Skott	Martin Wehling Michael Gekle Hans Oberleithner Ole Skøtt Allan D. Struthers	Rapid effects of aldosterone on vascular function Aldosterone signaling mechanisms: the role of EGFR. Aldosterone and endothelial cell function; lessons from the atomic force microscope. Rapid effects of aldosterone on renal afferent arterioles. Effects of aldosterone blockade on endothelial function in patients; type 2 diabetes and heart failure
SW4	Chloride channels: structure function disease	Schwarz	Thomas Jentsch Michael Pusch Anselm A. Zdebik Alessandro Sardini Sheppard David N. Sheppard	Introduction and overview about CIC channels Biophysics and molecular pharmacology of Cl--transporting CIC proteins. Chloride-Proton exchanged mediated by CIC Proteins Cell volume-regulated chloride channels CFTR: from physiology to clinic
SW5	Amino acid transporters: expression regulation and physiological role	King	Matthias Bransch Hannelore Daniel Hari Hundall David Thwaites	Transporters for proline and proline-containing peptides Biology of proton-driven amino acid (and peptide) transporters Sensing and signalling mechanisms underlying the regulation of the System A amino acid transporter in response to changes in amino acid availability The SLC36 family of amino acid transporters
SW6	Calcium Signalling	Garaschuk/ Parekh	Arthur Konnerth Ole Petersen Jose Lopez-Barneo Anant Parekh Franz Hoffmann	Synapses/ Calcium and Neurotransmitter release Calcium Oscillations, Calcium Waves and the Pancreas Calcium Signalling and Hypoxia Store-operated Channels and Cell Signalling Calcium Channels

European Young Physiologist Symposium (EYPS) Munich, March 26, 2006

*Are you a young European Physiologist up to the age of 35?
Then Munich on March 26 is the place to be!!!*

Preceding the joint meeting of The German Society of Physiology and the Federation of European Physiological Societies a special platform for all European Young Physiologists will be held.

The theme of this symposium will be:

“Molecular Biology as a tool in Physiological Research”

The scientific program will consist of:

- Two Keynote Lectures by outstanding young post docs:
Diether Lambrechts (Leuven, Belgium), VEGF in neurologic disease
Esther Lutgens (Maastricht, Netherlands), Atherosclerotic plaque rupture
- Additional lectures selected from the submitted abstracts by young scientists
- A moderated poster session during lunch break
- Workshops on:
Quantitative PCR
RNA interference
Stem cells
Career Planning for young physiologists
- Young Investigators' competition (competitors selected from submitted abstracts)

The EYPS will be concluded with a party, which gives you the opportunity to get together with your European colleagues in a very informal environment!

We hope you will take the chance to come to the beautiful city of Munich to enjoy a whole day of outstanding science together with other young physiologists!

More information about the program, administration and submission of abstracts you can find at:
<http://physinst.web.med.uni-muenchen.de/dpg06/> .

***There is no extra fee for the EYPS and we have several travel awards available!
Abstract deadline will be on January 10, 2005!***

The organizing committee,

Heike Beck (Institute of Physiology, Ludwig Maximilians University, Munich, Germany)
Katarina Likavcanova (Institute of Experimental Medicine ASCR, Prague, Czech Republic)
Jörg Niehüser-Saran (Cardiovascular Division, King's College London, United Kingdom)
Adam Steensberg (Copenhagen Muscle Research Centre, Copenhagen, Denmark)
Birgit Teunissen (Department of Physiology, University of Maastricht, The Netherlands)

Joint Meeting of
The German Physiological Society and
The Federation of European Physiological Societies (FEPS)

**FEPS-supported Symposium on Innovative methods in Teaching Physiology -
Experiences with Problem Based Learning**

March 26, 2006

The main topic of this symposium is the implementation of Physiology Teaching in a Medical Curriculum making use of Problem Based Learning.

Speakers and subjects :

Luc Snoeckx	Teaching Physiology via Problem Based Learning. An introduction
Carlo di Benedetta	The pros and contras in our experience for implementing the PBL and COE methodology in traditional Medical Schools
Gillian Maudsley	Tutoring medical students in a problem-based curriculum: roles and realities
Anne Custers	How do students experience PBL as a vehicle for learning Physiology
To be announced	The relation between computer technology and PBL
Mascha Verheggen	How can we reliably evaluate knowledge acquired via PBL

Join the Annual FEPS Lecture in Munich 2006!



François Verrey
Institute of Physiology,
University of Zurich.

The Annual FEPS Lecture 2006 is given by
Professor François Verrey
“New Epithelial Amino Acid Transporters”

Professor Verrey has made seminal contributions to our present understanding of amino acid transporters. In his lecture he will cover this topic broadly – as seen from just the most recent publications his works does not only cover the kidney, but also as diverse organs and cells as the gastric mucosa; muscles and neurons in *C. Elegans* - and bacterial membrane transporters!

Recent publications:

Kirchhoff P, Dave MH, Remy C, Kosiek O, Busque SM, Dufner M, Geibel JP, Verrey F, Wagner CA. An amino acid transporter involved in gastric acid secretion. *Pflugers Arch.* 2005 Nov 25

Lourdel S, Loffing J, Favre G, Paulais M, Nissant A, Fakitsas P, Creminon C, Feraille E, Verrey F, Teulon J, Doucet A, Deschenes G. Hyperaldosteronemia and Activation of the Epithelial Sodium Channel Are Not Required for Sodium Retention in Puro-mycin-Induced Nephrosis. *J Am Soc Nephrol.* 2005;16:3642-3650.

Ramadan T, Camargo SM, Summa V, Hunziker P, Chesnov S, Pos KM, Verrey F. Basolateral aromatic amino acid transporter TAT1 (Slc16a10) functions as an efflux pathway. *J Cell Physiol.* 2005 Oct 21

Ristic Z, Camargo SM, Romeo E, Bodoy S, Bertran J, Palacin M, Makrides V, Furrer EM, Verrey F. Neutral amino acid transport mediated by ortholog of imino acid transporter SIT1/SLC6A20 in opossum kidney cells. *Am J Physiol Renal Physiol.* 2005 Oct 18

Staub O, Verrey F. Impact of Nedd4 Proteins and Serum and Glucocorticoid-Induced Kinases on Epithelial Na⁺ Transport in the Distal Nephron. *J Am Soc Nephrol.* 2005; 16:3167-3174.

Romeo E, Dave MH, Bacic D, Ristic Z, Camargo SM, Loffing J, Wagner CA, Verrey F. Luminal kidney and intestine SLC6 amino acid transporters of B0AT-cluster and their tissue distribution in *Mus musculus*. *Am J Physiol Renal Physiol.* 2005 Sep 20;

Camargo SM, Makrides V, Virkki LV, Forster IC, Verrey F. Steady-state kinetic characterization of the mouse B(0)AT1 sodium-dependent neutral amino acid transporter. *Pflugers Arch.* 2005 ;451:338-48

Verrey F, Ristic Z, Romeo E, Ramadan T, Makrides V, Dave MH, Wagner CA, Camargo SM. Novel renal amino acid transporters. *Annu Rev Physiol.* 2005;67:557-72. Review.

Veljkovic E, Bacconi A, Stetak A, Hajnal A, Stasiuk S, Skelly PJ, Forster I, Shoemaker CB, Verrey F. Aromatic amino acid transporter AAT-9 of *Caenorhabditis elegans* localizes to neurons and muscle cells. *J Biol Chem.* 2004;279:49268-73.

Lahoutte T, Cavelliers V, Camargo SM, Franca R, Ramadan T, Veljkovic E, Mertens J, Bossuyt A, Verrey F. SPECT and PET amino acid tracer influx via system L (h4F2hc-hLAT1) and its transstimulation. *J Nucl Med.* 2004;45:1591-6.

Joint Meeting
of
The Slovak Physiological Society
and
The Physiological Society
and
The Federation of European Physiological Societies



BRATISLAVA, September 11-14, 2007

Dear colleagues

We are delighted to invite you to this Joint Meeting in the capital of Slovakia.

With your help, suggestions and participation the most rapidly developing areas and hot topics will be adequately represented in plenary lectures, symposia, and open oral & poster presentations. A special platform will be organized for young European scientists. We will soon be asking for Symposium proposals, so that you can identify your recent fields of interest and help us to organize what will be an outstanding meeting.

We hope you will enjoy the science presented at the Joint Meeting and the friendly atmosphere in Bratislava, as well as its history, cultural life and beauty.

On behalf of the local organizers, Vladimír Strbák

Call for Symposia Proposals
at the Joint Meeting of

The Slovak Physiological Society
The Physiological Society
and
The Federation of European Physiological Societies

To be held in Bratislava (Slovakia)
Tuesday, September 11th to Friday, September 14th, 2007

The Bratislava meeting will be the third annual meeting that FEPS has held jointly with one or more of its constituent societies. The meeting will consist of:

- Symposia
- Oral and Poster Communications
- State of the art Lectures
- Young FEPS Symposium
- Trade Exhibition

Format of the main scientific programme

Parallel symposia will be held in the mornings and afternoons are reserved for free oral communications and poster sessions.

Symposia may be arranged under the following broad themes:

- Cardiovascular Physiology
- Muscle: Muscle Contraction, Heart & Cardiac Muscle, Smooth Muscle
- Cellular and Molecular Physiology: Cellular Signalling and Ion Channels
- Renal and Gastrointestinal Physiology, Transport Physiology
- Respiratory Physiology
- Endocrinology, Neuroendocrinology, Metabolism
- Gravitational Physiology
- Neurophysiology – Cellular and Integrative
- Teaching Physiology

Some of the themes listed above will certainly attract many proposals, and thus may generate more than one symposium. The intention is to cover as many physiological fields as possible in the listed themes. It is, however, not the intention to restrict any field from which proposals can be made.

How are the Symposia chosen, selected and organized?

The Scientific Programme Committee is now inviting members of all FEPS constituent Societies for proposals. It is most likely that the number of proposals will far exceed the framework of the meeting. Therefore a selection has to be made, and each symposium has to be tailored to be of scientific excellence, and at the same time represent the FEPS member Societies.

Call for Proposals:

In order to start the process of organizing the symposia, the Scientific Programme Committee is therefore now inviting all member Societies to forward suggestions for Symposia and speakers (maximum of 5 speakers for a 2 and a half hour's symposium).

Proponents should check whether the suggested speakers are available at the time of the meeting. In order to achieve the time plan given below the proposals should reach the Scientific Programme Committee **before February 15, 2006.**

Proposals should be forwarded on copies of the attached form to Daniela Jezova (daniela.jezova@savba.sk).

General timetable:

February 2006 – deadline for submission of proposed symposia

March 2006 – selection of symposia and formation of provisional programme by Scientific Programme Committee at the Munich meeting

With best wishes from the organizers
The Scientific Programme Committee

(David Eisner, Hans Hultborn, Daniela Jezova, Bridget Lumb, Tana Ravingerova, Eva Sykova)

**Proposal of a Symposium for the
Joint Meeting of the Slovak Physiological Society
and the Physiological Society
and the Federation of European Physiological Societies**

Completed application forms should be returned the latest by February 15th, 2006
via e-mail to Daniela Jezova (daniela.jezova@savba.sk)

1. Name, address, phone and email of person(s) organising the Symposium:

2. Details of proposed Symposium:

a) Title of symposium:

b) Brief statement on symposium topic and justification for its timeliness:

3. Provisional Scientific Programme:

The symposium should comprise of 4-5 speakers, talking for 20 minutes each (+ time for discussion), drawn from FEPS constituent societies and other international societies. Once finalised, each symposium will be funded to a limited extent.

Speaker	Affiliation	Topic/Title

THE FIRST CONGRESS OF PHYSIOLOGICAL SCIENCES OF SERBIA AND MONTENEGRO WITH INTERNATIONAL PARTICIPATION

(November 9-12, 2005, Belgrade, Serbia and Montenegro)

R E P O R T

The First Congress of Physiological Sciences of Serbia and Montenegro with International Participation was held between November 9-12, 2005 at Military Medical Academy, Belgrade, Serbia and Montenegro. This congress was organized by Serbian Physiological Society and Serbian Medical Society-Physiology and Pathophysiology Section after 17 years (the last one was held in former Yugoslavia in 1988). The congress has been supported by Military Medical Academy, Faculty of Medicine University of Kragujevac, Ministry of Science and Environmental Protection, Ministry of Health, ADInstruments GmbH, Experimetria Ltd, Perutnina Ptuj, Special Hospital for Cerebrovascular Disease »Sveti Sava« and a few small sponsors. Prof. Dr. Dragan Djuric, School of Medicine University of Belgrade served as a congress president (programme/organizing committee), congress vice-president was Doc. Dr. Vladimir Jakovljevic, Faculty of Medicine University of Kragujevac while honorary congress president was Academician Ljubisa Rakic, Serbian Academy of Sciences and Arts.

Abstract book (regularly CIP indexed) was published in English and consisted of 216 accepted abstracts. 26 abstracts were rejected on the base of *ad hoc* scientific committee evaluation. From total number of abstracts about 75% came from basic research (160 abstracts) while the rest of abstracts came from clinical physiology, exercise physiology and/or functional diagnostics. Scientific work was presented in seven free communications sessions and six international symposia (cardiovascular research, neuro-endocrinology research, transport studies, emotions and motivation, hyperbaric oxygenation and vascular research) as well as in three poster sessions (64 and 152 abstracts, respectively). 90 abstracts were accepted from abroad which were presented by 60 participants from abroad (32 oral presentations). Three the best posters were awarded. In addition two workshops were held: 1) harmonization and standardization of medical physiology teaching with EU standards, and 2) experiences from graduate programs in physiological sciences in USA and Canada and how to implement it.

The total number of participants was more than 300 from 24 countries. The invited participants have been also: President, International Society for Pathophysiology (Emil Monos, Budapest, Hungary), Secretary General, Federation of European Physiological Societies (Ger van der Vusse, Maastricht, Netherland), Executive Director and CEO, International Academy for Cardiovascular Sciences (Naranjanan S. Dhalla, Winnipeg, Canada), President, Slovakian Physiological Society (Vladimir Strbak, Bratislava, Slovak Republic), Secretary General, Czech Physiological Society (Jaroslav Pokorny, Prague, Czech Republic), Former Secretary General, Federation of European Physiological Societies (Christofer Fry, London, UK), the editors of journals *Physiological Research* (Josef Zicha, Prague, Czech Republic), *Molecular and Cellular Biochemistry*, *General Physiology and Biophysics*, *Acta Physiologica Hungarica* etc.

The congress was announced at web sites of: *Federation of European Physiological Societies, International Union of Physiological Sciences, American Physiological Society, Khrunichev Space Center, Serbian Ministry of Science and Environmental, Serbian Physiological Society and Serbian Medical Society*. We appreciate very much that congress has been held under the auspices of *Federation of European Physiological Societies, International Union of Physiological Sciences and International Society for Pathophysiology*.





List of contents of Acta Physiologica Scandinavica November 2005, Volume 185 Issue 3

Matti Vornanen A mutation of ion-conducting pore without effect on ion selectivity of the sodium channel	257
Maurice H. Laughlin Cardiac gene expression profiling may reveal key differences between physiologic and pathologic cardiac hypertrophy	257
M. Iemitsu, S. Maeda, T. Miyauchi, M. Matsuda, H. Tanaka Gene expression profiling of exercise-induced cardiac hypertrophy in rats	259
F. Jørgensen, A. B. A. Kroese Ion channel regulation of the dynamical instability of the resting membrane potential in saccular hair cells of the green frog (<i>Rana esculenta</i>)	271
A. S. Amin, A. O. Verkerk, Z. A. Bhuiyan, A. A. M. Wilde, H. L. Tan Novel Brugada syndrome-causing mutation in ion-conducting pore of cardiac Na ⁺ channel does not affect ion selectivity properties	291
J. Reinsberg, S. Christoffel, A. Kumar, H. van der Ven Escherichia coli derived factors modulate human granulosa cell steroidogenesis	303
J. Henriksson, M. Knol A single bout of exercise is followed by a prolonged decrease in the interstitial glucose concentration in skeletal muscle	313
G. Sarre, R. Lepers Neuromuscular function during prolonged pedalling exercise at different cadences	321
R. A. Venosa Protein kinases A and C stimulate the Na ⁺ active transport in frog skeletal muscle without an appreciable change in the number of sarcolemmal Na ⁺ pumps	329
M. Kaikkonen, S. Hyyppä Comparison on plasma caesium kinetics in goats and horses with special emphasis on exercising horses	335