VIENNA · AUSTRIA
SEPTEMBER
13th – 15th, 2017

FEPS 2017

PROGRAM

JOINT MEETING OF THE FEDERATION OF EUROPEAN PHYSIOLOGICAL SOCIETIES AND THE AUSTRIAN PHYSIOLOGICAL SOCIETY WITH PARTICIPATION OF THE CZECH, FRENCH, ITALIAN, SLOVAK, SLOVENIAN, SWISS AND TURKISH PHYSIOLOGICAL SOCIETIES

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Dear Fellow Physiologists,

It is a pleasure and an honor to welcome you to this year's FEPS Congress in Vienna. It is the 14th since 1995 and notably the 7th consecutive one following an annual schedule. Notably, because at a first, and rather fleeting glance, a congress such as this seems out of time for a number of reasons. From the news one could get the impression that Europe, or at least some of its political structures, is somewhat drifting apart. That a meeting with such a strong focus on European science can be sustainably held at alternating locations all over this continent on a regular basis unquestionably proves, though, that on a professional and operational level Europe is alive and strongly kicking. Conferences in general, and this one is no exception, also underline that in spite of the increasingly pervasive use of all the amenities modern technology offers to facilitate and speed up the transfer of information nothing can beat the personal exchange to discuss research results, generate new scientific ideas in the process, and hopefully initiate fruitful multinational collaborations. And finally, bringing hundreds of researchers together under the broad umbrella "physiology" when there are so many more specialized meetings one can attend shows that there is not only a high demand for an exchange across national, but also professional borders.

So I invite you to use this congress to talk with fellow researchers from other nations and other disciplines in the scientific sessions, during the breaks, and of course while sipping on a *Wiener Melange*, *Einspänner* or *Kleiner Brauner* in one of the famous coffee houses in the beautiful city of Vienna.

Markus Hecker
President of FEPS

GENERAL INFORMATION
WEDNESDAY
THURSDAY
FRIDAY

Dear Colleagues and Friends – Dear Guests,

It is our great pleasure to welcome you here in Vienna at FEPS 2017, the joint meeting of the Federation of European Physiological Societies, the Austrian Physiological Society, and our conference partners, the Physiological Societies from the Czech Republic, France, Italy, Slovakia, Slovenia, Switzerland, and Turkey. We are eagerly looking forward to this festival of Physiology in the heart of Vienna.

When organizing this meeting we tried to cover all important aspects of Physiology from modern Physiology teaching techniques to Cell- and Molecular Physiology. A special focus will be on Vascular and Cardiac Physiology, on Neuroscience, and on Molecular and Cellular Physiology. As in previous FEPS meetings there will again be a European Young Physiologists' Symposium (EYPS) and a Teaching Symposium on the first day of the meeting. We are pleased to announce that Acta Physiologa, the official Journal of FEPS, will sponsor a rising star award at this meeting, and that the winner of this rising star award, Jose Maya-Vetencourt, will deliver a special plenary lecture right after the opening ceremony. What is also new at this FEPS conference is that one of the plenary lectures will be a "public lecture", delivered by Bente Klarlund Pedersen, and open to the interested general public.

We would like to thank all members of the International Scientific Program Committee and abstract reviewers for their most valuable contributions to the organization of the scientific program. Let me also thank the invited keynote speakers Marian Joëls (FEPS lecture), Bente Klarlund Pedersen (public lecture), Martin Biel, Barbara Demeneix, and Lora Heisler for sharing their exciting research with us. Thank you also to all symposium organizers and symposium speakers, and all those who submitted abstracts for oral and poster presentations. Your contributions will assure that the conference will be scientifically challenging, exciting, and enjoyable. Many thanks also to our conference partners, the Physiological Societies from the Czech Republic, France, Italy, Slovakia, Slovenia, Switzerland, and Turkey. It was really a pleasure working with you.

We would also like to thank the Medical University of Vienna and the Federation of Austrian Scientific Societies (VWGÖ) for their valuable support. Special thanks go to the German Physiological Society (DPG), the Scandinavian Physiological Society (SPS), The Physiological Society (UK), and the Austrian Vascular Biology Organization (AVBO) for their financial support. We would also like to thank all those who contributed to the organization of the meeting, especially Kathleen Schäfer (K.I.T. Dresden), Florian Weber (University Vienna), as well as Uma Bulusu, Sabine Komnenovic, and Gabriele Hassan-Kani (all Medical University Vienna).

Last but not least we would like to express our gratitude to all exhibitors and industrial sponsors for their generous support.

Welcome again on behalf of the local organizing committee, enjoy the science and enjoy an exciting conference and a pleasant stay in Vienna.
Sincerely yours,
Margarethe Geiger
Congress President

Acknowledgement

The organizers of FEPS 2017 gratefully acknowledge the collaboration and the support of the following partners:

Freunde der Gefäßbiologie
AVBO
Austrian Vascular Biology Organisation

DEUTSCHE PHYSIOLOGISCHE GESELLSCHAFT

SCANDINAVIAN PHYSIOLOGICAL SOCIETY 1925

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MEDICAL UNIVERSITY OF VIENNA

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General Information

Congress President:
Univ.-Prof. Dr. med. univ. Margarethe Geiger
Medical University of Vienna
Center for Physiology and Pharmacology
Institute of Vascular Biology and
Thrombosis Research
Schwarzspanierstrasse 17
1090 Vienna, Austria

Organization
Austrian Physiological Society
c/o Institute of Vascular Biology
and Thrombosis Research
Medical University of Vienna
Schwarzspanierstrasse 17
1090 Vienna, Austria
www.physiologie.at

The Federation of European Physiological Societies (FEPS)
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Professor Dr. Bayram Yilmaz /Head of Department of Physiology
Kayisdagi cad. Atasehir 34755
Istanbul, Turkey
www.feps.org

K.I.T. Group GmbH Dresden
Bautzner Strasse 117–119
01099 Dresden, Germany
www.kit-group.org

Congress Venue
Campus of the University of Vienna
Auditorium Centre
Spitalgasse 2–4
1090 Vienna, Austria

Registration Desk
Opening hours
September 13, 2017: 08:30 – 18:30
September 14, 2017: 08:00 – 18:30
September 15, 2017: 08:00 – 18:30

On-site Registration Fees

Regular:	370.00 €
Student/PhD Student:	150.00 €
Congress Dinner:	39.00 €
Day Ticket:	
Regular:	250.00 €
Student/PhD Student:	100.00 €
Congress Dinner:	39.00 €

Industrial Exhibition
Opening hours
September 13, 2017: 10:30 – 17:30
September 14, 2017: 09:30 – 17:30
September 15, 2017: 09:30 – 17:30

Abstracts
The congress abstracts will solely be published in electronic form in a supplement of Acta Physiologica. A PDF version is available for download on the congress website. Abstracts are also available via the interactive online program. Out of the highest rated abstracts there have been selected some abstracts for presentation in symposia. These contributions are marked with an (O) in the program.

Badge
Congress badges need to be picked-up on-site at the registration desk upon arrival. All participants must wear the congress identification badge visibly at any time on-site at the venue. Please note that if an attendee loses, misplaces or forgets the name badge, a handling fee of 15.00 € will be charged for a new name bagde.

Certificate of Attendance
Certificates of attendance will be sent to every participant by e-mail after the conference.

Certification (The Austrian Medical Association – Österreichische Ärztekammer, ÖAK)
The conference was approved by the Austrian Medical Association for the DFP (Diplomfortbildungsprogramm der Österr. Akademie der Ärzte) with 30 training points.
Please have your ÖAK number ready.

Conference Language
The official language of the conference is English. No simultaneous translation will be provided.

Internet Access
Wireless internet access will be available free of charge. Additionally, the Eduroam wireless network is available throughout the university campus. You will get vouchers at the registration desk.

Instructions for Speakers
Please go to your session room in due time (at least 15 minutes prior to the start of your session). We expect you to submit your presentation in due time directly at the session room - latest during the break before the respective session starts.

Photography and Copyright
Taking pictures and recording any kind in the lecture halls and poster exhibition without the prior written consent of the presenter of the work recorded are prohibited. The official conference photographer is exempt from this rule and will be recording and taking pictures during the conference. If you do not want to be recorded, please address your objection to the conference secretariat.

Social Program

Welcome Reception
(Wednesday, 13 September 2017// 19:30)
We invite all conference participants to join us for the Welcome Reception which will take place on Wednesday evening at the Vienna City Hall. It states the perfect opportunity to meet colleagues and friends or start new networks in a relaxed atmosphere.

Meeting Point
Vienna City Hall
Lichtenfelsgasse 2
1010 Vienna
(Public transportation: Subway: Line U2, Station: Rathaus// Tram: Line 1, 2, D, J)

Congress Dinner
(Thursday, 14 September 2017 // 20:00)
The congress dinner will take place at the Heuriger „Schuebel-Auer“.

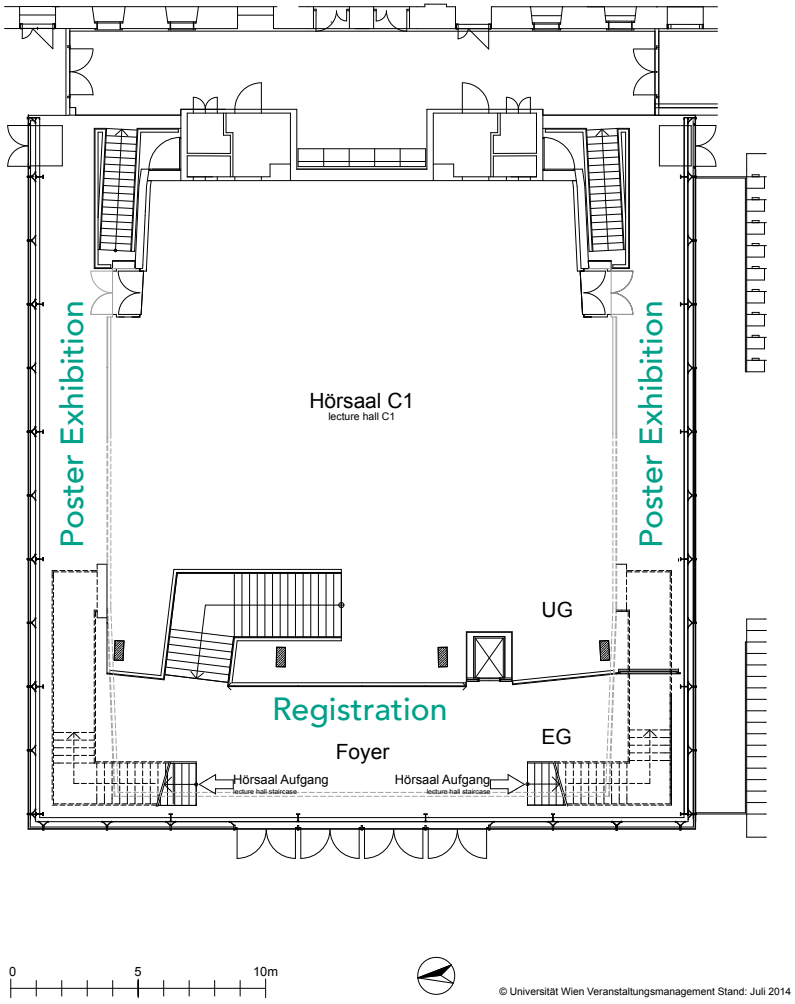
Ticket price: 39.00 €
The ticket price includes buffet dinner as well as a selection of drinks (provided on tables). Further drinks and beverages have to be paid extra.

Meeting Point
Heuriger „Schuebel-Auer“
Kahlenberger Str. 22
1190 Wien-Nussdorf

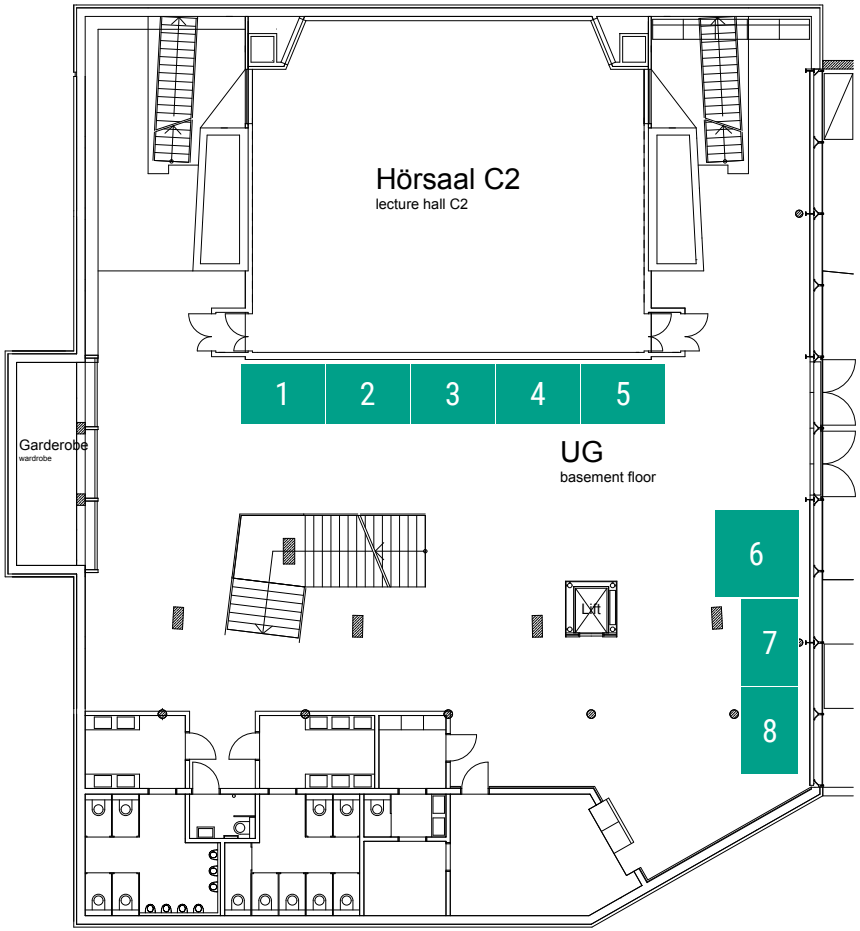
Public transportation
Take the Tramline 5 or 33 (towards Praterstern or Friedrich-Engels-Platz, respectively), change at ‘Franz-Josefs-Bahnhof’ to the Tramline D and get off at the final station ‘Nussdorf’. You just have to cross the street and are at the back entrance of Schuebel-Auer. There is a sign labeled “Heuriger Schuebel-Auer”.

You will find more detailed information about getting there with public transportation on the congress website.

Floorplan (Entrance level)



Floorplan (Ground floor)



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ADInstruments Ltd	6	LGC Group – ATCC	1
Accela s.r.o	2	Multi Channel Systems MCS GmbH	3
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emka TECHNOLOGIES SAS	2	TSE Systems GmbH	8
		World Precision Instruments Germany GmbH	5

Wednesday, 13 September 2017

	Hall C1	Hall C2	Hall A	Hall B
09:00 – 09:30				
09:30 – 10:00	**EYPS** *p. 16*			
10:00 – 10:30				
10:30 – 11:00		**TEACHING SYMPOSIUM** *p. 18*		
11:00 – 11:30	**BREAK**			
11:30 – 12:00	**EYPS** *p. 17*			
12:00 – 12:30				
12:30 – 13:30	**LUNCH BREAK** for EYPS & Teaching Symposium participants			
13:30 – 14:00	**OPENINGCEREMONY**			
14:00 – 14:30	**PLENARY LECTURE** "Rising star lecture": J. F. Maya-Vetencourt *p. 19*			
14:30 – 15:00				
15:00 – 17:00	**SYMPOSIUM 1:** Mitochondrial and cell membrane Ca^{2+} and Na^{+} signaling in health and disease *(Kindly supported by The Physiological Society (UK))* *p. 19*	**SYMPOSIUM 2:** Structure and function in islets of Langerhans in health and disease *p. 20*	**SYMPOSIUM 3:** Cerebrovascular disorders: Pathophysiological and pharmacological approaches *p. 21*	**SYMPOSIUM 4:** Current developments in the pulmonary circulation *p. 22*
17:00 – 17:15	**BREAK**			
17:15 – 18:15	**FEPS KEYNOTE LECTURE:** M. Joëls *p. 23*			
19:30 – 22:00	**RECEPTION AT THE VIENNA CITY HALL**			

Thursday, 14 September 2017

	Hall C1	Hall C2	Hall A	Hall B
09:00 – 10:00	**PLENARY LECTURE:** M. Biel *p. 24*			
10:00 – 11:00	**POSTER SESSION A / BREAK** *p. 24*			
11:00 – 13:00	**SYMPOSIUM 5:** Exhale negativity-chloride currents in the cardiovascular system *(Kindly supported by the SPS)* *p. 37*	**SYMPOSIUM 6:** Microvascular mechanisms under different pathophysiological conditions *p. 38*	**SYMPOSIUM 7:** Recent advances in molecular physiology: metabolomics and beyond *p. 39*	**SYMPOSIUM 8:** Pain induced by local acidosis *p. 40*
13:00 – 14:00	**LUNCH BREAK**			
14:00 – 16:00	**SYMPOSIUM 9:** Brute force and signaling: concepts in vascular mechanotransduction *(Kindly supported by the DPG)* *p. 41*	**SYMPOSIUM 10:** Intracellular Ca^{2+}-compartments in cardiac physiology and disease *p. 42*	**SYMPOSIUM 11:** Pancreas: Physiology and disease *p. 43*	**SHORT TALKS 1:** High-rated abstracts *p. 44*
16:00 – 17:00	**POSTER SESSION B / BREAK** *p. 45*			
17:00 – 18:00	**PUBLIC LECTURE:** B. K. Pedersen *p. 58*			
20:00 – 23:00	**CONGRESS DINNER**			

Friday, 15 September 2017

	Hall C1	Hall C2	Hall A	Hall B
09:00 – 10:00	**PLENARY LECTURE:** L. Heisler *p. 59*			
10:00 – 11:00	**POSTER SESSION C / BREAK** *p. 59*			
11:00 – 13:00	**SYMPOSIUM 12:** Current trends in cell therapy for functional recovery of the diseased heart *(Kindly supported by the DPG)* *p. 72*	**SYMPOSIUM 13:** Place navigation in dynamic world in healthy and disordered brain *p. 73*	**SYMPOSIUM 14:** Cardiovascular oscillations: from signal to physiological interpretation *p. 74*	**SYMPOSIUM 15:** The cellular and molecular mechanisms controlling skeletal muscle plasticity *p. 75*
13:00 – 14:00	**LUNCH BREAK**			
14:00 – 16:00	**SYMPOSIUM 16:** Exciting mechanisms of neuroglial excitability *p. 76*	**SYMPOSIUM 17:** Monocyte subsets in cardiovascular biology *(Kindly supported by the AVBO)* *p. 77*	**SYMPOSIUM 18:** Retina Degeneration: New technologies for the bionic retina *p. 80*	**SHORT TALKS 2:** High-rated abstracts *p. 81*
16:00 – 17:00	**POSTER SESSION D / BREAK** *p. 81*			
17:00 – 18:00	**PLENARY LECTURE:** B. Demeneix *p. 94*			
18:00 – 18:15	**CLOSING SESSION**			

Wednesday, 13 September 2017

09:30–11:00 / Hall C1

European Young Physiologists' Symposium (EYPS)

Chairs: A. Assinger (Vienna, Austria); N. D. Ullrich (Heidelberg, Germany)

09:30

Synthetic Peptides restore the Epithelial Sodium Channel Function in Pseudohypoaldosteronism Type 1B Mutants (EYPS-01)

A. Willam[1,2], M. Aufy[1], S. Tzotzos[2], B. Fischer[2], H. Fischer[2], H. Pietschmann[2], I. Czikora[3], R. Lucas[3], R. Lemmens-Gruber[1], W. Shabbir[1,2]

[1]University of Vienna, Department of Pharmacology and Toxicology, Vienna, Austria, [2]APEPTICO GmbH, Vienna, Austria, [3]Augusta University, Vascular Biology Center, Medical College of Georgia, Augusta, United States

09:45

Different modulation of ion currents in hippocampal pyramidal neurons and NG108-15 cell line by delta opioid receptor antagonist naltrindole (EYPS-02)

L. Lapinova[1], E. Dremencov[1,2], L. Lacinova[1]

[1]Centre of Biosciences SAS, Institute of Molecular Physiology and Genetics, Bratislava, Slovakia, [2]Biomedical Research Center SAS, Institute of Experimental Endocrinology, Bratislava, Slovakia

10:00

Investigation of the extracellular Ca^2 entry in mouse pancreatic ductal cells (EYPS-03)

M. Görög[1], A. Grassalkovich[1], A. Balázs[1], P. Pallagi[1], P. Hegyi[2], J. Maléth[1]

[1]University of Szeged, First Department of Medicine, Szeged, Hungary, [2]Univ. of Pécs, Szeged, Institute for Transl. Med. & 1st Dep. of Medicine, MTA-SZTE Transl. Gastroenterology Research Group, Szeged, Szeged, Hungary

10:15

Blockage of exosome generation reduces tau protein caused neuronal loss and microglia proliferation (EYPS-04)

K. Pampuscenko[1], R. Morkuniene[1], V. Smirnovas[2], V. Borutaite[1]

[1]Lithuanian University of Health Sciences, Neuroscience Institute, Kaunas, Lithuania, [2]Vilnius University, Institute of Biotechnology, Vilnius, Lithuania

10:30

TRPA1 and TRPV1 photosensitization by 7-dehydrocholesterol – connections to the Smith-Lemli-Opitz syndrome (EYPS-05)

C.I. Ciotu[1,2], A. Babes[2,3], T. Kichko[2], T. Selescu[3], C. Neacsu[3], S.K. Sauer[2], P.W. Reeh[2], M.J.M. Fischer[1,2]

[1]Medical University of Vienna, Center for Physiology and Pharmacology, Vienna, Austria, [2]Friedrich-Alexander University Erlangen-Nuremberg, Institute of Physiology and Pathophysiology, Erlangen, Germany, [3]Faculty of Biology, University of Bucharest, Department of Anatomy, Physiology and Biophysics, Bucharest, Romania

11:00–11:30

Break

11:30–12:30 / Hall C1

European Young Physiologists' Symposium (EYPS)

11:30

Advanced-level analysis of spiking EEG activity potentiated by high dietary methionine: contribution of purinergic signaling (EYPS-06)

D. Hrncic[1], A. Rasic Markovic[1], N. Sutulovic[1], Z. Grubac[1], M. Vorkapic[1], A. Ademovic[1], M. Colovic[2], D. Krstic[3], B. Rankov Petrovic[1], V. Susic[1,4], D. Djuric[1], O. Stanojlovic[1]

[1]Belgrade University Faculty of Medicine, Institute of Medical Physiology "Richard Burian", Belgrade, Serbia, [2]Institute of Nuclear Sciences VInca, Belgrade, Serbia, [3]Belgrade University Faculty of Medicine, Department of Medical Chemistry, Belgrade, Serbia, [4]Serbian Academy of Sciences and Arts, Belgrade, Serbia

11:45

Platelet PI3K in Acute Lung Injury (EYPS-07)

J.B. Kral-Pointner[1], W.C. Schrottmaier[1], M. Salzmann[1], B. Birnecker[1], Y. Ekici[1], S. Heber[2], A. Assinger[1], G. Schabbauer[1]

[1]Medical University of Vienna, Department for Vascular Biology and Thrombosis Research, Vienna, Austria, [2]Medical University of Vienna, Institute of Physiology, Vienna, Austria

12:00

The role of Aflibercept and Ranibizumab against oxidative stress in Retinal Pigment epithelium cells (ARPE-19). Mechanisms related to nitric oxide release and apoptosis, autophagy modulation. (EYPS-08)

S. Farruggio

University of Eastern Piedmont, Novara, Italy

12:15

Influence of compression aids on baroreflex function in patients with cervical spinal cord injury (EYPS-09)

J. Svacinova[1], K. Ondrusova[1], M. Javorka[2,3], M. Novakova[1], Z. Novakova[1]

[1]Faculty of Medicine, Masaryk University, Department of Physiology, Brno, Czech Republic, [2]Jessenius Faculty of Medicine, Comenius University in Bratislava, Department of Physiology, Martin, Slovakia, [3]Jessenius Faculty of Medicine, Comenius University in Bratislava, Biomedical Center Martin, Martin, Slovakia

10:30–12:30 / Hall C2

Teaching Symposium: "Has Physiology the right to exist in a 21st century Medical Curriculum"

Chairs: G. van der Vusse (Maastricht, Netherlands); G. Andries (Maastricht, Netherlands)

10:30

Physiology in a classical curriculum in the 21st century: Flexner 2.0 (TS-01)

L. Kiss

Semmelweis University, Department of Physiology, Budapest, Hungary

11:00

Structural and functional integration of physiology teaching: the view from Cardiff (TS-02)

S. Hall

Cardiff University, School of Biosciences, Cardiff, United Kingdom

11:30

Organizational consequences of discipline-oriented versus integrated teaching (TS-03)

M.G.A. oude Egbrink

Maastricht University, Physiology, Maastricht, Netherlands

12:00

General Discussion

12:30–13:30

Lunch break for EYPS & Teaching Symposium participants

13:30–14:00 / Hall C1

Opening Ceremony

14:00–15:00 / Hall C1

Plenary Lecture (Rising star lecture)

Chair: P. B. Persson (Berlin, Germany)

A fully organic retinal prosthesis reinstates vision in blind animals (PL-01)

J. F. Maya-Vetencourt

Italian Institute of Technology, Synaptic Neuroscience and Technologies, Genova, Italy

15:00–17:00 / Hall C1

Symposium 1: Mitochondrial and cell membrane Ca^{2+} and Na^{+} signaling in health and disease

Kindly supported by The Physiological Society

Organizers: I. Sekler (Be'er Scheva, Israel); Alexej Verkhratsky (Manchester, United Kingdom)

15:00

Systematic identification of MCU modulators by orthogonal interspecies chemical screening (S01-1)

F. Perocchi

LMU, Biochemistry, Munich, Germany

15:30

Shaping cell motility and metabolism by coordinated Ca^{2+} and Na^{+} signals (S01-2)

M. Trebak

Penn State University, Cellular and Molecular Physiology, Hershey, United States

16:00

Dynamic aspects of calcium-dependent regulation in mammalian isoform/splice variants of the sodium-calcium exchanger (S01-3)

D. Khananshvili

Tel-Aviv University Medical School, Physiology and Pharmacology, Ramat-Aviv, Tel-Aviv, Israel

16:30

Adrenergic stimulation leads to distinct intracellular Ca^{2} and cAMP-dependent PKA responses in single rat astrocytes (S01-4 (O))

A. Horvat[1], R. Zorec[1,2], N. Vardjan[1,2]

[1]University of Ljubljana, Medical Faculty, Institute of Pathophysiology, Laboratory of Neuroendocrinology-Molecular Cell Physiology, Ljubljana, Slovenia, [2]Celica Biomedical, Ljubljana, Slovenia

16:45
Function and distribution of the mitochondria in pancreatic ductal epithelial cells (S01-5 (O))

E. Tóth[1], J. Maléth[1], R. Erdos[1], Z. Rázga[2], L. Tretter[3], G. Horváth[3], Z. Rakonczay[4], P. Hegyi[5,6]
[1]University of Szeged, First Department of Medicine, Szeged, Hungary, [2]University of Szeged, Department of Pathology, Szeged, Hungary, [3]Semmelweis University, Department of Medical Biochemistry, Budapest, Hungary, [4]University of Szeged, Department of Pathophysiology, Szeged, Hungary, [5]University of Szeged, MTA-SZTE Momentum Translational Gastroenterology Research Group, Szeged, Hungary, [6]University of Pécs, Institute for Translational Medicine/1st Department of Medicine, Pécs, Hungary

15:00–17:00 / Hall C2

Symposium 2: Structure and function in islets of Langerhans in health and disease

Organizer: M. Slak Rupnik (Vienna, Austria); Co-chair: O. Pechanova (Bratislava, Slovakia)

15:00
β cell diversity is required for normal islet function (S02-1)

D. Nasteska[1,2], N.H.F. Fine[1,2], G.A. Rutter[3], Q. Zhou [4], D.J. Hodson[1,2]
[1]University of Birmingham, Institute of Metabolism and Systems Research (IMSR), Birmingham, United Kingdom, [2]Birmingham Health Partners, Centre for Endocrinology, Diabetes and Metabolism, Birmingham, United Kingdom, [3]Imperial College London, Section of Cell Biology and Functional Genomics, Department of Medicine, London, United Kingdom, [4]Harvard University, Department of Stem Cell and Regenerative Biology, Harvard Stem Cell Institute, Cambridge, United States

15:25
Induction of pancreatic beta-cell neogenesis (S02-2)

P. Collombat
INSERM U1091, Nice, France

15:50
The patterns of synchronicity and functional connectivity in islets of Langerhans (S02-3)

A. Stozer
University of Maribor, Institute of Physiology, Maribor, Slovenia

16:15
Heterogeneity on all levels: insight into pancreatic islet function with modeling (S02-4)

M.G. Pedersen
University of Padova, Information Engineering, Padova, Italy

16:40
Investigating SNAP-25b (Synaptosomal-associated protein 25) function in mouse islet physiology beyond its classical role in membrane fusion (S02-5 (O))

T. Daraio[1], L. Križančić Bombek[2], M. Gosak[2,3], I. Valladolid-Acebes[1], M. Skelin Klemen[2], E. Refai[1], P.-O. Berggren[1], K. Brismar[1], M. Slak Rupnik[2,4], C. Bark[1]
[1]Karolinska Institutet, The Rolf Luft Research Center for Diabetes and Endocrinology, Department of Molecular Medicine and Surgery, Stockholm, Sweden, [2]Institute of Physiology, Faculty of Medicine, University of Maribor, Maribor, Slovenia, [3]Department of Physics, Faculty of Natural Sciences and Mathematics, University of Maribor, Maribor, Slovenia, [4]Center for Physiology and Pharmacology, Medical University of Vienna, Vienna, Austria

15:00–17:00 / Hall A

Symposium 3: Cerebrovascular disorders: Pathophysiological and pharmacological approaches

Organizer: E. Agar (Samsun, Turkey); Co-chair: E. Fabbri (Ravenna, Italy)

15:00
Post-acute effects of CDNF and MANF on brain plasticity and repair (S03-1)

E. Kilic
Istanbul Medipol University, Physiology, Istanbul, Turkey

15:30
Pericytes as an important target in Stroke and other Neurological Diseases' Pathophysiology (S03-2)

Y. Gürsoy-Özdemir
Koç University, Neurology, Istanbul, Turkey

16:00
Neuroregenerative approaches using neural progenitor cells to counteract cerebral ischemia (S03-3)

T.R. Döppner
University Medical Center Goettingen, Neurology, Goettingen, Germany

16:30
Internal carotid artery blood flow response to isometric handgrip and head-down tilt in healthy volunteers. (S03-4 (O))

M. Skytioti[1], S. Søvik[2], M. Elstad[1]
[1]Institute of Basic Medical sciences, UiO, Physiology, Oslo, Norway, [2]Akershus University Hospital, Oslo, Norway

16:45
The role of angiotensin -1 receptors in vasodilator responses of middle cerebral arteries in Sprague-Dawley rats (S03-5 (O))

I. Drenjancevic, A. Cosic, I. Jukic, Z. Mihaljevic, A. Stupin
Faculty of Medicine University of Osijek, Physiology and Immunology, Osijek, Croatia

15:00–17:00 / Hall B

Symposium 4: Current developments in the pulmonary circulation

Organizers: A. Olschewski (Graz, Austria); G. Kwapiszewska (Graz, Austria); Co-chair: P. Enyedi (Budapest, Hungary)

15:00
Sphingolipids - new players in pulmonary vasoconstriction and lung vascular remodeling (S04-1)

W. Kübler
Charité-Universitätsmedizin Berlin, Institute of Physiology, Berlin, Germany

15:30
FoxO transcription factors in pulmonary hypertension: Pathophysiology and therapeutic implications (S04-2)

S. S. Pullamsetti[1,2]
[1]Max-Planck-Institute for Heart and Lung Research, Bad Nauheim, Germany, [2]Justus-Liebig University, Department of Internal Medicine, Giessen, Germany

16:00
Adapting to high altitude (S04-3)

M. Gassmann
University of Zurich, Zurich, Switzerland

16:30
Alveolar oxygen respiratory oscillations measured in arterial blood (S04-4 (O))

F. Formenti[1,2], N. Bommakanti[2], R. Chen[2], J. Cronin[1], H. McPeak[2], D. Holopherne-Doran[3], G. Hedenstierna[4], C. Hahn[2], A. Larsson[4], A. Farmery[2]
[1]King's College London, London, United Kingdom, [2]University of Oxford, Oxford, United Kingdom, [3]University of Bristol, Bristol, United Kingdom, [4]University of Uppsala, Uppsala, Sweden

16:45
Brain-derived neurotrophic factor mRNA expression in peripheral and cerebral vessels: Impact of physical training (S04-5 (O))

C. Marina, Q. Aurore, M. Christine, P.-T. Anne, G. Philippe
Université de Bourgogne Franche-Comté, Dijon, France

17:00–17:15

Break

17:15–18:15 / Hall C1

FEPS Keynote Lecture

Chair: D. Eisner (Manchester, United Kingdom)

The stressed brain of rodents and humans (KL-01)

M. Joëls
University Medical Center Groningen, Groningen, Netherlands

19:30

Reception at the Vienna City Hall

We invite all conference participants to join us for the Welcome Reception – which will take place at the Vienna City Hall. It states the perfect opportunity to meet colleagues and friends or start new networks in a relaxed atmosphere.

Meeting Point:
Vienna City Hall
Lichtenfelsgasse 2
1010 Vienna
(Public transportation: Subway: Line U2, Station: Rathaus // Tram: Line 1, 2, D, J)

Thursday, 14 September 2017

09:00–10:00 / Hall C1

Plenary Lecture

Chair: U. Pohl (Planegg-Martinsried, Germany)

Endolysosomal two-pore channels: from genes to function (PL-02)

M. Biel
University of Munich, Pharmacy, Munich, Germany

10:00–11:00

Poster Session A

PLEASE NOTE:

Posters can be mounted from 08:30, should be mounted until 09:30 and have to be removed at the end of the corresponding poster session at 13:15; otherwise they can be removed by the following presenters or by the organizers.

Fixing material will be provided and distributed in the poster area. There will be no guided poster tour but presenting authors are requested to stay at their posters during the viewing session for discussions.

A01: Cardiac physiology

Cardiovascular parameters, mood behaviour and atmospheric pressure (A01-1)

S.L. Gotia, C. Borza, A. Roi, E. Zbircea, S.R. Gotia
University of Medicine and Pharmacy Victor Babes, Physiology, Timisoara, Romania

Blood pressure modification and students lifestyle (A01-2)

S.L. Gotia, C. Borza, A. Roi, S.R. Gotia
University of Medicine and Pharmacy Victor Babes, Physiology, Timisoara, Romania

Reversed ratio of peripheral monocyte subsets in spontaneously hypertensive rats (A01-3)

M. Okuliarova, N. Hodonova, V. Krajcirovicova, M. Zeman
Faculty of Natural Sciences, Comenius University Bratislava, Animal Physiology and Ethology, Bratislava, Slovakia

Baroreflex sensitivity: an algebraic dilemma (A01-4)

A. Taboni[1], N. Fagoni[2], G. Vinetti[1], G. Ferretti[3,4]
[1]University of Brescia, Department of Clinical and Experimental Sciences, Brescia, Italy, [2]University of Brescia, Department of Medical and Surgical Specialties, Radiological Sciences, and Public Health, Brescia, Italy, [3]University of Brescia, Department of Molecular and Translational Medicine, Brescia, Italy, [4]University of Geneva, Departments APSI and NEUFO, Geneva, Switzerland

Vasopressin V1a receptors are present in the carotid body and contribute to the control of breathing (A01-5)

T. Zera[1], J. Przybylski[2], T. Grygorowicz[3], K. Kasarello[1], D. Mirowska-Guzel[3], A. Cudnoch-Jedrzejewska[1]
[1]The Medical University of Warsaw, Department of Experimental and Clinical Physiology, Warsaw, Poland, [2]The Medical University of Warsaw, Department of Biophysics and Physiology, Warsaw, Poland, [3]The Medical University of Warsaw, Chair and Department of Experimental and Clinical Pharmacology, Warsaw, Poland

Effect of voluntary lung hyperinflation on central blood volume (A01-6)

T. Mijacika[1], K. Kyhl[2], D. Frestad[2], O. Barak[3], I. Drvis[4], N. Secher[5], Z. Dujic[1], P. Lav Madsen[2]
[1]University of Split School of Medicine, Department of Integrative Physiology, Split, Croatia, [2]University of Copenhagen, Cardiology, Copenhagen, Denmark, [3]University of Novi Sad, Physiology, Novi Sad, Serbia, [4]University of Zagreb Faculty of Kinesiology, Zagreb, Croatia, [5]University of Copenhagen, Anesthesiology, Copenhagen, Denmark

Sympatho-vagal balance is higher in nurses following night-shift works (A01-7)

P. Çakan, C. Ucar, O. Barutcu, S. Yildiz
Inonu University, Malatya, Turkey

High blood pressure in spontaneously hypertensive rats is accompanied by altered cardiovascular reflexes and changes in the expression of TNF, interleukin 10, and their receptors in the brainstem (A01-8)

P. Smykiewicz, A. Segiet, M. Keag, T. Żera
Medical University of Warsaw, Department of Experimental and Clinical Physiology, Laboratory of Centre for Preclinical Research, Warsaw, Poland

Intrabrain administration of TNF and interleukin 10 differently affect arterial blood pressure in normotensive and spontaneously hypertensive rats (A01-9)

A. Segiet, P. Smykiewicz, M. Keag, T. Żera
Medical University of Warsaw, Department of Experimental and Clinical Physiology, Laboratory of Centre for Preclinical Research, Warsaw, Poland

Disturbances in mitochondrial metabolism of energy substrates in left ventricle of patients with type 2 diabetes (A01-10)

M. Ljubkovic[1], M. Cavar[1], C. Bulat[1,2], D. Bakovic[1,3], J. Marinovic[1]
[1]University of Split School of Medicine, Physiology, Split, Croatia, [2]Split University Hospital, Cardiac Surgery, Split, Croatia, [3]Split University Hospital, Cardiology, Split, Croatia

Amplification of peripheral arterial pressure as a marker of cardiovascular risk (A01-11)

N. Belova, N. Stoynev, R. Mileva-Popova
Medical University of Sofia, Physiology, Sofia, Bulgaria

A02: Vascular physiology

Relationship between peripheral regional blood flow and heart rate recovery at one minute (HRR1) after constant-load exercise in lower-limb ischaemia (A02-1)

N. Ouédraogo[1], G. Mahé[2], P. Abraham[2]

[1]Institut Supérieur des Sciences de la Santé /Université polytechnique de Bobo-Dioulasso, Bobo-Dioulasso, Burkina Faso, [2]Faculté de Médecine, Université d'Angers, Physiology, Angers, France

One week of high salt dietary intake increased peripheral blood monocytes' intracellular hydrogen peroxide and peroxynitrite level in young healthy women (A02-2)

A. Stupin[1], L. Rasic[1], A. Cosic[1], S. Novak[1], M. Stupin[1,2], I. Jukic[1], I. Drenjancevic[1]

[1]Faculty of Medicine Josip Juraj Strossmayer University of Osijek, Department of Physiology and Immunology, Osijek, Croatia, [2]Osijek University Hospital, Department for Cardiovascular Disease, Osijek, Croatia

Short-term high-salt intake causes increased oxidative stress in young healthy women (A02-3)

L. Rasic, A. Cosic, I. Drenjancevic, M. Stupin, Z. Mihaljević, I. Jukic, A. Stupin

Faculty of Medicine Osijek, Josip Juraj Strossmayer University of Osijek, Osijek, Croatia, Department of Physiology and Immunology, Osijek, Croatia

Hyperthyroidism and vascular function: the impact of local and systemic mechanisms (A02-4)

H. Lenasi, N. Bedernjak, S. Gaberščček, K. Zaletel

University Medical Centre Ljubljana, Slovenia, Department of Nuclear Medicine, Ljubljana, Slovenia

Acute exhausting exercise session affects endothelium-dependent, but not endothelium-independent vasodilation in professional rowers (A02-5)

M. Stupin[1], A. Stupin[2], L. Rasic[2], A. Cosic[2], L. Kolar[2], H. Lenasi[3], I. Drenjancevic[2]

[1]University Hospital Center Osijek, Department of Cardiovascular Medicine, Osijek, Croatia, [2]Faculty of Medicine University of Josip Juraj Strossmayer University of Osijek, Department of Physiology and Immunology, Osijek, Croatia, [3]Medical Faculty University of Ljubljana, Institute of Physiology, Ljubljana, Slovenia

The effect of a short term high salt diet on cerebrovascular reactivity in response to breath holding test in young healthy subjects (A02-6)

D. Kibel[1,2], A. Kibel[1,3], K. Steiner[1], M. Kozul[1], B. Brix[4], I. Trozic[4], N. Goswami[4], I. Drenjancevic[1]

[1]Faculty of Medicine Osijek, Department of Physiology and Immunology, Osijek, Croatia, [2]Clinical Hospital Center Osijek, Department of Diagnostic and Interventional Radiology, Osijek, Croatia, [3]Clinical Hospital Center Osijek, Department of Heart and Vascular Diseases, Osijek, Croatia, [4]Medical University Graz, Institute of Physiology, Graz, Austria

Investigation of Relations Between GSTT1 Polymorphism and Lower Extremity Varix (A02-7)

D. Saribal Kanber[1], N. Bahtiyar[1], M.A. Kilic[2], E.M. Kanber[3], K.A. Kirectepe Aydin[4], S. Toplan[1], M.C. Akyolcu[1]

[1]Istanbul University Cerrahpasa Medical Faculty, Biopysics, Istanbul, Turkey, [2]Adnan Menderes University Medical Faculty, Biopysics, Aydın, Turkey, [3]Ersin Aslan Hospital, Cardiovascular Surgery, Gaziantep, Turkey, [4]Istanbul Technical Uni, Molecular Biology and Genetical Research Center, Istanbul, Turkey

The relationship between soluble lectin-like oxidized low-density lipoprotein-1 and carotid intima-media thickness in patients with diabetes mellitus without cardiovascular diseases (A02-8)

O. Tabak[1], G. Simsek[2], A. Oruc[2], A. Senyigit[3], M. Cengiz[4], C. Kacmaz[1], I. Dogan[1], R. Gelisgen[5], S. Durmus[5], H. Uzun[5]

[1]Istanbul Kanuni Sultan Suleyman Education and Research Hospital, Internal Medicine, Istanbul, Turkey, [2]Istanbul University, Cerrahpasa Faculty of Medicine, Physiology, Istanbul, Turkey, [3]Medicine Hospital, Internal Medicine, Istanbul, Turkey, [4]Istanbul University, Cerrahpasa Faculty of Medicine, Internal Medicine, Istanbul, Turkey, [5]Istanbul University, Cerrahpasa Faculty of Medicine, Biochemistry, Istanbul, Turkey

Non-invasive estimation of arterial stiffness in healthy and asthmatic children – comparison of the methods: a pilot study. (A02-9)

K. Budinskaya[1], J. Svačinová[1], H. Hrstková[2,3], J. Hrušková[1,4], Z. Kubecová[1], V. Svízela[1], P. Dobšák[5,6], J. Rydlová[7], K. Linhartová[8], Z. Nováková[1]

[1]Masaryk university, Physiology, Brno, Czech Republic, [2]Faculty Hospital Brno, Pediatric Oncology, Brno, Czech Republic, [3]Masaryk university, Pediatric Oncology, Brno, Czech Republic, [4]St Ann`s Faculty Hospital Brno, International Clinical Research Centre, Brno, Czech Republic, [5]St Ann's Faculty Hospital Brno, Physiotherapy and Rehabilitation, Brno, Czech Republic, [6]Masaryk University, Physiotherapy and Rehabilitation, Brno, Czech Republic, [7]Children's Medical Institution Miramonti, Spa Luhačovice,, Luhačovice, Czech Republic, [8]Masaryk University, Hygiene, Preventive Medicine and Epidemiology, Brno, Czech Republic

Vitamin D deficiency impairs geometrical structure and function of cerebral arteries (A02-10)

V. Pál[1], Z. Fontányi[2], L. Hadjadj[1], A. Monori-Kiss[1], L. Danics[1], E. Monos[1], G. Nádasy[3], Z. Benyó[1], S. Várbíró[2]

[1]Semmelweis University, Institute of Clinical Experimental Research, Budapest, Hungary, [2]Semmelweis University, 2nd Department of Obstetrics and Gynaecology, Budapest, Hungary, [3]Semmelweis University, Department of Physiology, Budapest, Hungary

Arterial stiffness in obese adolescents – a relation to vascular resistance and sympathetic nervous system activity (A02-11)

B. Czippelová[1], Z. Turianiková[1], J. Krohová[1], Z. Lazarová[1], K. Pozorčiaková[2], M. Čiljaková[2], M. Javorka[1]

[1]Comenius University in Bratislava, Jessenius Faculty of Medicine in Martin, Department of Physiology and Biomedical Centre Martin, Martin, Slovakia, [2]Comenius University in Bratislava, Jessenius Faculty of Medicine in Martin and University Hospital Martin, Clinic of Children and Adolescents, Martin, Slovakia

About the human vascular response to hyperoxia (A02-12)

H. Silva[1,2], H. Vieira[2], M. Bento[2], I. Frazão[2], L. Monteiro Rodrigues[1,2]

[1]CBIOS / Universidade Lusófona, Lisboa, Portugal, [2]Universidade de Lisboa / Faculty of Pharmacy, Pharmacol. Sc. Dep., Lisboa, Portugal

A04: Endocrine, neuroendocrine and metabolism

Arginase-II promotes tumor necrosis factor-α release from pancreatic acinar cells causing β-cell apoptosis in aging (A04-1)

Y. Xiong, G. Yepuri, J.-P. Montani, Z. Yang, X.-F. Ming

[1]University of Fribourg, Fribourg, Switzerland

Effects of melatonin or ghrelin treatment on angiotensin II - induced intestinal motility in diabetic rats (A04-2)

P. Hadzhibozheva[1], T. Georgiev[1], R. Kalfin[2], A. Tolekova[1]

[1]Faculty of Medicine/Trakia University, Physiology, Pathophysiology and Pharmacology, Stara Zagora, Bulgaria, [2]Institute of Neurobiology, Bulgarian Academy of Sciences, Sofia, Bulgaria

L-Arginine has dual effect on Electrical and Calcium Activity in Mouse Beta Cells in Tissue Slices (A04-3)

L. Križančić Bombek[1], M. Gosak[1,2], M. Slak Rupnik[1,3], A. Stožer[1]

[1]University of Maribor, Faculty of Medicine, Institute of Physiology, Maribor, Slovenia, [2]University of Maribor, Faculty of Natural Sciences and Mathematics, Maribor, Slovenia, [3]Medical University of Vienna, Centre for Physiology and Pharmacology, Vienna, Austria

Metabolic Syndrome among Adult Population in Kirkuk (A04-4)

A. Ahmed, O. Ridha

College of Technology, Medical Laboratory Scienes, Kirkuk, Iraq

Effects of apelin levels, apelin gene polymorphism and apelin receptor gene polymorphism to metabolic control for children with type I diabet (A04-5)

D. Keles[1], B. Ozhan[1], F. Altintas[2], B. Akdag[3]

[1]Pamukkale University Faculty Of Medicine, Paediatrics, Denizli, Turkey, [2]Pamukkale University Faculty Of Medicine, Physiology, Denizli, Turkey, [3]Pamukkale University Faculty Of Medicine, Biostististics, Denizli, Turkey

Cyclic AMP Enhances Beta Cell Network Activity in Mouse Pancreatic Slices through PKA-dependent pathway (A04-6)

M. Skelin Klemen[1], M. Gosak[1,2], V. Pohorec[1], J. Dolensek[1], L. Krizancic Bombek[1], A. Stozer[1], M. Slak Rupnik[1,3]

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Western Diet-Induced Early Dysfunction of Mouse Pancreatic Beta Cells (A04-7)

J. Dolenšek[1], I. Valladolid-Acebes[2], M. Gosak[1], M. Skelin Klemen[1], L. Križančić Bombek[1], V. Pohorec[1], P.-O. Berggren[2], K. Brismar[2], A. Stožer[1], M. Slak Rupnik[1,3]

[1]Medical Faculty, University of Maribor, Maribor, Slovenia, [2]Department of Molecular Medicine and Surgery, Karolinska Institute, Stockholm, Sweden, [3]Institute of Physiology, Centre for Physiology and Pharmacology, Medical University of Vienna, Vienna, Austria

The metabolic syndrome in hypertensive elderly patients (A04-8)

C. Borza[1], S.R. Gotia[2], A. Roi[2], S.L. Gotia[2]

[1]University of Medicine and Pharmacy Victor Babes, Pathophysiology, Timisoara, Romania, [2]University of Medicine and Pharmacy Victor Babes, Physiology, Timisoara, Romania

Glucose-Stimulated Beta Cell Calcium Dynamics in Acute Pancreas Tissue Slices from C57BL/6 Mice (A04-9)

V. Pohorec[1], J. Dolenšek[1], M. Gosak[1,2], M. Skelin Klemen[1], L. Križančić Bombek[1], M. Perc[2], M. Slak Rupnik [1,3], A. Stožer[1]

[1]Faculty of Medicine, University of Maribor, Institute of Physiology, Maribor, Slovenia, [2]Faculty of Natural Sciences and Mathematics, University of Maribor, Maribor, Slovenia, [3]Center for Physiology and Pharmacology, Medical University Vienna, Vienna, Austria

Inhibition of NMDA receptors provokes qualitative changes in intercellular communication patterns among pancreatic beta cells: Novel insights from multilayer network approaches (A04-10)

M. Gosak[1,2], L. Križančič Bombek[1], A. Stožer[1], J. Dolenšek[1], M. Slak Rupnik[1,3]

[1]Faculty of Medicine, University of Maribor, Institute of Physiology, Maribor, Slovenia, [2]Faculty of Natural Sciences and Mathematics, University of Maribor, Department of Physics, Maribor, Slovenia, [3]Medical University of Vienna, Center for Physiology and Pharmacology, Vienna, Austria

Metabolic and behavioral consequences of cola intake during pregnancy (A04-11)

V. Borbélyová[1], J. Čonka[1], J. Hodosy[1], P. Celec[1], L. Vokálová[1], S. Trubačová[2]

[1]Institute of Molecular Biomedicine, Bratislava, Slovakia, [2]Institute of Pathological Physiology, Bratislava, Slovakia

Effects of Selenium Supplementation on Cytokines in Experimental Hyperthyroidism (A04-12)

A. Yoldas[1], N. Bahtiyar[1], N. Dariyerli[2], M.C. Akyolcu[1], S. Toplan[1]

[1]Istanbul University Cerrahpasa Medical Faculty, Biophysics, Istanbul, Turkey, [2]Istanbul University Cerrahpasa Medical Faculty, Physiology, Istanbul, Turkey

A06: Respiratory physiology

The effect of ML204, a blocker of TRPC4/5 on cholinergic responses in mouse bronchus (A06-1)

V. Bihun, G. Sergeant, M. Hollywood, K. Thornbury
Dundalk Institute of Technology, Smooth Muscle Research Centre, Dundalk, Ireland

Radon in the exhalation air of patients in radon therapy (A06-2)

M. Gaisberger[1,2,3], H. Lettner[4], A. Hubmer[4], W. Hofmann[4], J. Landrichinger[1,2,3], M. Ritter[1,2,3], R. Winkler[4]
[1]Paracelsus Medical University, Institute of Physiology and Pathophysiology, Salzburg, Austria, [2]Paracelsus Medical University, Gastein Research Institute, Salzburg, Austria, [3]Ludwig Boltzmann Cluster for Arthritis and Rehabilitation, Department for Radon Therapy Research, Salzburg, Austria,[4]University of Salzburg, Department of Chemistry and Physics of Materials, Environmental Physics and Biophysics, Salzburg, Austria

Correlation between Muscle Mass loss and spirometric abnormalities in COPD (A06-3)

K. Ayed, S. Ben Jemaa, I.I. Hadj Khalifa, S. Mokaddem, S. Ben Khamsa Jamaleddine
Abderrahman Mami Hospital Ariana Tunisia, Department of Respiratory Fonctionnal Explorations, Ariana, Tunisia

BODE index: an interesting survival prediction tool in obesity? (A06-4)

K. Ayed, I.L. Hadj Khalifa, D. El Guiche, S. Mokaddem, S. Ben Khamsa Jamaleddine
Abderrahman Mami Hospital, Department of Respiratory Fonctionnal Explorations, Ariana, Tunisia

Immature lungs exposed to endotoxin: the effect of exogenous surfactant/ polymyxin B (A06-5)

A. Calkovska[1,2], M. Haegerstrand-Björkman[2], B. Linderholm[2], T. Curstedt[2]
[1]Comenius University in Bratislava, Jessenius Faculty of Medicine in Martin, Department of Physiology and BioMed, Martin, Slovakia, [2]Karolinska Institutet at Karolinska University Hospital, Department of Molecular Medicine and Surgery, Laboratory for Surfactant Research, Stockholm, Sweden

Is the p-glycoprotein polymorphism a risk factor for smoking dependence (A06-6)

N. Bozkurt[1], F. Altintas[2], A.I. Bozkurt[3], G. Turgut[2], S. Turgut[2]
[1]Pamukkale University Faculty Of Medicine, Pulmonology, Denizli, Turkey, [2]Pamukkale University Faculty of Medicine, Physiology, Denizli, Turkey, [3]Pamukkale University Faculty Of Medicine, Public Health, Denizli, Turkey

Diagnosis strategy of Asthma-Chronic Obstructive Pulmonary Disease Overlap Syndrome (A06-7)

S. Mokaddem Mohsen, S. Ben Jemaa, K. Ayed, I.I. Hadj Khelifa, D. El Guiche, S. Jameleddine Ben Khamsa
Abderrahmane Mami Hospital, Pulmonary Lung Function Test Laboratory, Ariana, Tunisia

Evaluating Of Systemic Inflammatory Biomarkers As A Result Of Intermittent Hypoxia In Obstructive Sleep Apnea Syndrome (A06-8)

E. Isıksel[1], V. Sozer[1], E. Atahan[2], B. Musellim[2], A. Oruc[3], G. Simsek[3], R. Gelisgen[4], H. Uzun[4]
[1]Yildiz Technical University, Biochemistry, Istanbul, Turkey, [2]Istanbul University, Cerrahpasa Faculty of Medicine, Department of Pulmonary Diseases, Istanbul, Turkey, [3]Istanbul University, Cerrahpasa Faculty of Medicine, Physiology, Istanbul, Turkey, [4]Istanbul University, Cerrahpasa Faculty of Medicine, Biochemistry, Istanbul, Turkey

Asthma and bronchiectasis : Spirometric features (A06-9)

S. Mokaddem Mohsen, I.I. Hadj Khelifa, K. Ayed, S. Ben Jemaa, D. El Guiche, S. Ben Khamsa Jameleddine
Abderrahmane Mami Hospital, Physiology And Lung Function Tests, Ariana, Tunisia

Spirometric and Six-minute walk test findings in pulmonary sarcoidosis (A06-10)

S. Mokaddem Mohsen, S. Ben Jemaa, D. El Guiche, K. Ayed, I.I. Hadj Khelifa, S. Ben Khamsa Jameleddine
[1]Abderrahmane Mami Hospital, Physiology And Lung Function Tests, Ariana, Tunisia

Increased ragweed exposure and air pollution are associated with subsequent respiratory allergies to indoor and outdoor allergens in children (A06-11)

C. Panaitescu[1,2], T.-P. Tamas[1,2], M. Buzan[2], L. Zbarcea[2], L. Marusciac[1,2]
[1]University of Medicine and Pharmacy Victor Babes Timisoara, Physiology, Timisoara, Romania, [2]Emergency Clinical County Hospital „Pius Branzeu" Timisoara, Center for Gene and Cellular Therapies in the Treatment of Cancer (OncoGen), Timisoara, Romania

A07: Gastrointestinal physiology

Sinapic acid heals experimentally induced colitis in rats on behalf of its anti-inflammatory effects (A07-1)

M. Kolgazi[1], A.M. Gunal[2], B. Yuksel[2], B.B. Ozmen[2], C. Unal[2], E. Kilinc[3], M. Acıkel-Elmas[4], S. Arbak[4]
[1]Acibadem University, Physiology, Istanbul, Turkey, [2]Acibadem University, Medical School 3rd year student, Istanbul, Turkey, [3]Acibadem University, Biophysics, Istanbul, Turkey, [4]Acibadem University, Histology and Embryology, Istanbul, Turkey

Chronic lesions in trinitrobenzene-sulfonic acid colitis (A07-2)

L. Zouiten[1], M. Naouar[1], L. Charfi[2], R. Ben Ali[1], A. Laabidi[3], J. Boubaker[3], A. Filali[3]
[1]Faculté de medecine de Tunis, Tunis, Tunisia, [2]Institut national de cancerologie, Tunis, Tunisia, [3]Hôpital La Rabta, Service de gastroenterology, Tunis, Tunisia

Anti-inflammatory effect of Lentisc Oil in experimental colitis (A07-3)

L. Zouiten[1], M. Naouar[1], L. Charfi[2], A. Laabidi[3], J. Boubaker[3], A. Filali[3]
[1]Faculté de medecine de Tunis, Tunis, Tunisia, [2]Institut national de cancerologie, Tunis, Tunisia, [3]Hôpital La Rabta, Service de gastroenterology, Tunis, Tunisia

Esophageal anomalies in chest pain-suffering patients with a normal coronary catheterization (A07-4)

W. Kacem
University of medicine of Tunis, Physiology, Tunis, Tunisia

Stress monitoring on gastrointestinal smooth muscle by electromyography (A07-5)

K.F. Szucs[1], A. Sztojkov-Ivanov[1], E. Ducza[1], A. Kothencz[1], A. Seres-Bokor[1], M. Süle[2], G. Grosz[2], R. Gaspar[1]
[1]University of Szeged, Department of Pharmacodynamics and Biopharmacy, Szeged, Hungary, [2]MDE GmbH, Budapest, Hungary

The relation between helicobacter pylori and Iron deficiency anaemia in Sulaimani city (A07-6)

F. Ahmed, N. Rashid, A. Ahmed
College of Technology, Laboratory Sciences, Kirkuk, Iraq

Transient receptor potential melastatin 2 functional characterization in mouse pancreatic acinar cells (A07-7)

P. Biró[1], J. Fanczal[1], T. Madácsy[1], P. Hegyi[2], J. Maléth[1]
[1]University of Szeged, 1st Department of Medicine, Szeged, Hungary, [2]University of Pécs, Institute for Transl. Med. &1st Dep. of Medicine, Pécs, Hungary

The effect of primary sensory neuron desensitization on experimental acute pancreatitis models (A07-8)

E.R. Bálint[1], Z. Balla[2], L. Kiss[2], A. Molnár[1], C. Marsollier[3], R. Marc[4], V. Venglovecz[5], J. Maléth[1], P. Hegyi[1,6,7], Z. Helyes[8], Z. Rakonczay Jr[2]
[1]University of Szeged, First Department of Medicine, Szeged, Hungary, [2]University of Szeged, Department of Pathophysiology, Szeged, Hungary, [3]University of Angers, Angers, France, [4]University of Nantes, Nantes, France, [5]University of Szeged, Department of Pharmacology and Pharmacotherapy, Szeged, Hungary, [6]University of Pécs, Institute for Translational Medicine, Pécs, Hungary, [7]University of Szeged, MTA-SZTE Transl. Gastroenterology Research Group, Szeged, Hungary, [8]University of Pécs, Department of Pharmacology and Pharmacotherapy, Pécs, Hungary

A08: Behavioral and cognitive neuroscience

Physical Exercise Performed to Chronic Social Isolated Rats Regulate Anxiety Behavior Without Improving Learning (A08-1)

O. S. Cevik, L. Sahin
Mersin University, Physiology, Mersin, Turkey

Effect of Riluzole on Social Behavior and Anxiety in Valproic Acid-Induced Autism-Like Rat Model (A08-2)

C. Orak[1], S. Karakoc Demirkaya[2], F. Sirinyildiz[1], G. Tasli Yesilcayir[1], G. Cesur[1], R.O. Ek[1]
[1]Adnan Menderes University, Physiology, Aydin, Turkey, [2]Adnan Menderes University, Child and Adolescent Psychiatry, Aydin, Turkey

Investigation of the Process of Response Activation by Using a Visual Go-Nogo Task with Varying Task Difficulty (A08-3)

T. Ergenoglu, D. D. Koyuncu, G. Ceylan
Mersin University, Faculty of Medicine, Department of Physiology, Mersin, Turkey

Time-dependent changes in behavioural and molecular parameters after post-weaning social isolation (A08-4)

S. Vrankova[1], Z. Matuskova[1], R. Rehakova[1], M. Cebova[1], J. Murinova[2], I. Riecansky[2], O. Pechanova[1]
[1]Institute of Normal and Pathological Physiology Slovak Academy of Sciences, Laboratory of Neuro-cardiovascular Interactions, Bratislava, Slovakia, [2]Institute of Normal and Pathological Physiology Slovak Academy of Sciences, Laboratory of Cognitive Neuroscience, Bratislava, Slovakia

Effect of Protein Carbonylization on cognitive Functions in diabetic Rat Model (A08-5)

K. Tanbek, E. Ozerol
Inonu University, Faculty Of Medicine, Malatya, Turkey

Effects of Chronic Caffeine Consumption on Cognitive Performance and Hippocampal Gene Expression on REM Sleep Deprived Rats (A08-6)

L. Sahin, O.S. Cevik, D.D. Koyuncu, N. Ezgin
Mersin University, Physiology, Mersin, Turkey

Effects of Treadmill Exercise on Hippocampal Dependent Learning and NMDA Subunit Gene Expression on Social Isolated Rats (A08-7)

S. Musuroglu[1], L. Sahin[2], O. S. Cevik[2]
[1]Amasya University, School of Health, Amasya, Turkey, [2]Mersin University Faculty of Medicine, Department of Physiology, Mersin, Turkey

The brain-tumor related protein podoplanin regulates synaptic plasticity and hippocampus-dependent learning and memory (A08-8)

A. Cicvaric[1], J. Yang [1], S. Krieger[2], D. Khan[1], E.-J. Kim[3], M. Dominguez-Rodriguez[1], M. Cabatic[1], B. Molz[4], J.P. Acevedo Aguilar[1], R. Milicevic[1], T. Smani[5], J.M. Breuss[6], D. Kerjaschki[2], D.D. Pollak[1], P. Uhrin[6], F.J. Monje[1]

[1]Medical University of Vienna, Neurophysiology and Neuropharmacology, Vienna, Austria, [2]Medical University of Vienna, Clinical Pathology, Vienna, Austria, [3]Inje University College of Medicine, Clinical Research, Busan, South Korea, [4]Psychology University of York, Heslington York, United Kingdom, [5]Hospital Universitario Virgen del Rocío/CSIC/Universidad de Sevilla, de Biomedicina de Sevilla, Seville, Spain, [6]Medical University of Vienna, Vascular Biology and Thrombosis Research, Vienna, Austria

A10: Renal physiology

Properties of Cell Surface $P2X_7$ Receptors in Chronic Kidney Disease (A10 –1)

I. Lajdova[1], V. Spustova[1], A. Oksa[1], D. Chorvat[2], A. Marcek Chorvatova[2,3]

[1]Slovak Medical University, Department of Clinical and Experimental Pharmacotherapy, Bratislava, Slovakia, [2]International Laser Centre, Department of Biophotonics, Bratislava, Slovakia, [3]University of Ss. Cyril and Methodius, Department of Biotechnology, Trnava, Slovakia

Role of arginase-II in regulation of water balance (A10–2)

J. Huang[1], J.-P. Montani[1], F. Verrey[2], E. Feraille[3], X.-F. Ming[1], Z. Yang[1]

[1]University of Fribourg, Department of Physiology, Fribourg, Switzerland, [2]University of Zurich, Institute of Physiology, Zurich, Switzerland, [3]University of Geneva, Department of Cell Biology and Metabolism, Geneva, Switzerland

Use of electromagnetic field shielding fabric for prenatal care (A10–3)

A.G. Polat[1], A. Metin Tellioglu[1], M. Bilgen[2], S. Karakas[1]

[1]Adnan Menderes University Health Sciences Institute, Anatomy, Aydin, Turkey, [2]Adnan Menderes University Health Sciences Institute, Biophysics, Aydin, Turkey

CFTR as a regulator of the epithelial–mesenchymal transition (A10–4)

J. Friard, M. Cougnon, M. Tauc, C. Duranton, I. Rubera

LP2M UMR CNRS 7370, Faculty of Medicine, Nice, France

Kidney regulation of inorganic pyrophosphate plasma level: Impact of chronic kidney disease (A10–5)

A. Laurain[1], L. Albano[2], G. Favre[2], C. Duranton[1], F. Szeri[3], T. Wine[2], J. Friard[1], G. Leftheriotis[1]

[1]LP2M 7370, Cellular Physiology, Nice, France, [2]Hospital, Nephrology, Nice, France, [3]Institut Of Enzymology, Molecular And Cellular Biology, Budapest, Hungary

Effect of Resveratrol Application on Lipid Peroxidation in Experimental Renal Ischemia-Reperfusion Injury in Rats (A10–6)

A.K. Baltaci[1], H. Gokbudak[2], R. Mogulkoc[2], M.C. Avunduk[1], E. Menevse[3]

[1]Faculty of Meram Medicine, Necmettin Erbakan University, Pathology, Konya, Turkey, [2]Selcuk University Medical School, Physiology, Konya, Turkey, [3]Selcuk University Medical School, Biochemistry, Konya, Turkey

The effects of relaxin on myoglobinuric acute kidney injury in rats (A10–7)

A. Ilhan Tarhan[1], N. Aydogdu[1], E. Tastekin[2], N. Sut[3]

[1]Trakya University, Faculty of Medicine Dept Of Physiology, Edirne, Turkey, [2]Trakya University, Faculty of Medicine Dept Of Pathology, Edirne, Turkey, [3]Trakya University, Faculty of Medicine Dept Of Bioistatistics, Edirne, Turkey

Renal proximal tubular cells under the influence of the female hormone cycle (A10–8)

J. Lechner[1], S. Prajczer[1], M.-M. Doerler[1], O. Eiter[1], D. Hekl[2], M. Nevinny-Stickel[2], I. Skvortsova[2], G. Gstraunthaler[1], P. Lukas[2], T. Seppi[2]

[1]Medical University of Innsbruck, Physiology, Innsbruck, Austria, [2]Medical University of Innsbruck, Univ.-Clinics of Radiation Oncology, Innsbruck, Austria

Immunosuppressant dosing accuracy. Residual drug concentration versus estimation of the area under the curve (A10 –9)

A. Noreikaitė[1], F. Saint-Marcoux[2,3,4], P. Marquet[2,3,4], J.B. Woillard[2,3,4], E. Kaduševičius[1], E. Stankevičius[1]

[1]Lithuanian University of Health Sciences, Institute of Physiology and Pharmacology, Kaunas, Lithuania, [2]Limoges University Hospital, Department of Toxicology, Limoges, France, [3]Limoges University Hospital, Department of Pharmacology and Toxicology, Limoges, France, [4]University of Limoges, INSERM UMR 850, Limoges, France

Serum fibroblast growth factor-21 is associated with renal sinus fat increasment independently of total intraabdominal obesity (A10 –10)

G. Krievina[1,2], P. Tretjakovs[1,2], I. Skuja[1], V. Silina[1], G. Bahs[1]

[1]Riga Stradins University, Human Physiology and Biochemistry, Riga, Latvia, [2]University of Latvia, Institute of Cardiology and Regenerative Medicine, Riga, Latvia

The relationship between Saxagliptin and renal ischemia/reperfusion: A morphological approach (A10 –11)

S. Tekin[1], A. Beytur[1], A. Taslidere[2], M. Cakir[3], S. Sandal[1]

[1]Inonu University, Physiology, Malatya, Turkey, [2]Inonu University, Histology and Embryology, Malatya, Turkey, [3]Bozok University, Physiology, Yozgat, Turkey

Clinical and urodynamic neurogenic bladder secondary to myelomeningocele (MMC) (A10 –12)

I.L. Hadj Khalifa[1,2], R. Baati[1,2], M. Imen[3], M. Chebil [2], C. Dziri [3,] Salma Mokaddem Mohsen[4]

[1]Medicine Faculty Tunis, Physiologie, Tunis, Tunisia, [2]Hospital Charles Nicolles, Urology, Tunis, Tunisia, [3]Kassab Institute, Physical Medecine, Tunis, Tunisia, [4]Abderrahmane Mami Hospital, Physiology and Lung Function Tests, Ariana, Tunisia

A13: Skeletal muscle physiology

The effects of Zinc and Melatonin on Muscle Ischemia-Reperfusion Damage in Rat (A13-1)

M. Celer, R. Mogulkoc, A.K. Baltaci, D. Dasdelen
Selcuk University, Konya, Turkey

Radon Registry Study (A13-2)

J. Landrichinger[1,2,3], B. Hölzl[4,5], J. Untner [5], W. Foisner[6], S. Edtinger[7], M. Knapp[8], M. Ritter[1,2,3], M. Gaisberger[1,2,3]
[1]Paracelsus Medical University, Gastein Research Institute, Salzburg, Austria, [2]Paracelsus Medical University, Institute of Physiology and Pathophysiology, Salzburg, Austria, [3]Ludwig Boltzmann Cluster for Arthritis and Rehabilitation, Department for Radon Therapy Research, Salzburg, Austria, [4]SALK, Paracelsus Medical University, Department of Internal Medicine, Landesklinik St. Veit im Pongau, Salzburg, Austria, [5]Gastein Healing Gallery, Bad Gastein, Austria, [6]Cure and Rehabilitation Center, Bad Hofgastein, Austria, [7]Baerenhof Health Care & Rehabilitation Center, Bad Gastein, Austria, [8]Stiftung Kurtherme Badehospiz, Bad Gastein, Austria

The effects of stress on the action potential of skeleton muscles (A13-3)

Y. Z. Dogru
Atatürk University medical School, Department of Physiology Human, Erzurum, Turkey

Functional evaluation in post-viral myositis (A13-4)

C. Borza[1], S.R. Gotia[2], A. Roi[2], S.L. Gotia[2]
[1]University of Medicine and Pharmacy Victor Babes, Pathophysiology, Timisoara, Romania, [2]University of Medicine and Pharmacy Victor Babes, Physiology, Timisoara, Romania

Cartilage Marker Plots for Monitoring of Osteoarthritis Patients. A Pilot study (A13-5)

M. Winklmayr[1,2,3], J. Landrichinger[1,2,3], S. Edtinger[4], B. Hölzl[5,6], M. Riedl[7], M. Ritter[1,2,3], M. Gaisberger[1,2,3]
[1]Paracelsus Medical University, Gastein Research Institute, Salzburg, Austria, [2]Paracelsus Medical University, Institute of Physiology and Pathophysiology, Salzburg, Austria, [3]Ludwig Boltzmann Cluster for Arthritis and Rehabilitation, Department for Radon Therapy Research, Salzburg, Austria, [4]Baerenhof Health Care & Rehabilitation Center, Bad Gastein, Austria, [5]SALK, Paracelsus Medical University, Department of Internal Medicine, Landesklinik St. Veit im Pongau, Salzburg, Austria, [6]Gastein Healing Gallery, Bad Gastein, Austria, [7]Paracelsus Medical University, Department of Orthopedics and Traumatology, Salzburg, Austria

The Novel Adipokine Vaspin is Associated with Increased Adiposity in Humans and Impacts on Human Skeletal Muscle Insulin Signalling (A13-6)

T. Nicholson[1], C. Chruch[2], D. Baker[2], S. Jones[1]
[1]University of Birmingham, Institute of Inflammation and Ageing, Birmingham, United Kingdom, [2]Medimmune, Cardiovascular and Metabolic Disease (CVMD), Cambridge, United Kingdom

Energy production and transfer in oxidative muscles of mice with deleted wolframin (wfs1) gene (A13-7)

M. Eimre[1], K. Paju[1], N. Peet[1], S. Kasvandik[2], E. Orlova[1], M. Ivask[1], S. Kõks[1]
[1]University of Tartu, Institute of Biomedicine and Translational Medicine, Department of Pathophysiology, Tartu, Estonia, [2]University of Tartu, Institute of Technology, Tartu, Estonia

Increased proton leak and expression of mitochondrial proteins in white skeletal muscle of mice with deleted wolframin (wfs1) gene. (A13-8)

E. Orlova[1], M. Eimre[1], K. Paju[1], N. Peet[1], L. Kadaja[1], M. Tarrend[1], S. Kasvandik[2], M. Ivask[1], S. Kõks[1]
[1]Institute of Biomedicine and Translational Medicine, University of Tartu, Pathophysiology, Tartu, Estonia, [2]Institute of technology University of Tartu, Tartu, Estonia

11:00–13:00 / Hall C1

Symposium 5: Exhale negativity-chloride currents in the cardiovascular system

Kindly supported by

Organizer: M. B. Thomsen (Copenhagen, Denmark); Co-chair: N. Khan (Dijon, France)

11:00

What keeps Cl- out of equilibrium in the muscle cells of the cardiovascular system? (S05-1)

C. Aalkjaer
Aarhus University, Biomedicine, Aarhus, Denmark

11:30

Calcium-activated chloride channels and vascular smooth muscle: AN(y)O1 know the answer? (S05-2)

I. Greenwood
St George's, London, United Kingdom

12:00

Recent advances in research of cardiac calcium-activated chloride channels (S05-3)

N. Szentandrássy[1,2], B. Hegyi[1], B. Horváth[1,3], K. Váczi[1], M. Gönczi[1,4], B. Dienes[1], K. Kistamás[1], R. Veress[1], F. Ruzsnavszky[1], T. Bányász[1], J. Magyar[1,5], I. Baczkó[6], A. Varró[6,7], G. Seprényi[8], L. Csernoch[1], P. Nánási[1,2]
[1]University of Debrecen, Department of Physiology, Debrecen, Hungary,[2]University of Debrecen, Department of Dental Physiology and Pharmacology, Debrecen, Hungary, [3]University of Debrecen, Faculty of Pharmacy, Debrecen, Hungary, [4]MTA-DE Momentum, Laboratory of Protein Dynamics, Department of Biochemistry and Molecular Biology, Debrecen, Hungary, [5]University of Debrecen, Department of Physiology, Division of Sport Physiology,, Debrecen, Hungary, [6]University of Szeged, Department of Pharmacology and Pharmacotherapy, Szeged, Hungary, [7]Hungarian Academy of Sciences, MTA-SZTE Research Group of Cardiovascular Pharmacology, Szeged, Hungary, [8]University of Szeged, Department of Medical Biology, Szeged, Hungary

12:30

Cardioprotective Action of Intermittent Hypoxia on Left Ventricle Function in Type I Diabetic Rats (S05-4 (O))

F. Akat[1], H. Fıçıcılar[1], M. Baştuğ[1], E. Tuncay[2], A. Durak[2], A.D. Dursun[1], F. Topal Çelikkan[3], B. Sabuncuoğlu[3], B. Turan[2]

[1]Ankara University Faculty of Medicine, Physiology, Ankara, Turkey, [2]Ankara University Faculty of Medicine, Biophysics, Ankara, Turkey, [3]Ankara University Faculty of Medicine, Histology and Embriology, Ankara, Turkey

12:45

Cardioprotection of the ischemic myocardium induced by preconditioning in the distant organ: the role of peroxisome proliferator-activated receptors (S05-5 (O))

T. Ravingerová[1], V. Farkašová[1], L. Griecsová[1], M. Muráriková[1], L. Lonek[1], J. Neckář[2], F. Kolář[2], A. Lazou[3], V. Zohdi[4]

[1]Institute for Heart Research, Slovak Academy of Sciences, Bratislava, Slovakia, [2]Institute of Physiology, Academy of Sciences of the Czech Republic, Prague, Czech Republic, [3]Aristotle University of Thessaloniki, School of Biology, Thessaloniki, Greece, [4]Comenius University, Faculty of Medicine, Bratislava, Slovakia

11:00–13:00 / Hall C2

Symposium 6: Microvascular mechanisms under different pathophysiological conditions

Organizer: A. Colantuoni (Naples, Italy); Co-chair: G. Leftheriotis (Nice, France)

11:00

Cardiovascular peptides in coronary modulation: focus on Chromogranin-A and its derived peptides (S06-1)

M.C. Cerra, T. Pasqua, R. Mazza, B. Tota, T. Angelone

University of Calabria, Dept. of Biology, Ecology and Earth Science, Arcavacata di Rende (CS), Italy

11:30

High blood pressure-induced cerebrovascular failure leads to dementia (S06-2)

K. Akos

University of Physical Education, Natural Sciences, Budapest, Hungary

12:00

Intestinal microcirculation during hemorrhagic shock and resuscitation (S06-3)

E. Vicaut, N. Libert, N. Oru, E. Laemmel, J. Duranteau

Medical University Diderot, Paris, France

12:30

Acetylsalicylic acid (aspirin) induces endothelium-dependent, cyclic nucleotide-dependent vasodilation of uterine arteries. (S06-4 (O))

M. Mandala[1], H. Helgadottir[2], L. Barberio[1], M. Wang[1], G. Osol[3], S. Gizurarson[2]

[1]University of Calabria, Biology, Ecology and Earth Sciences, Arcavacata di Rende, CS, Italy, [2]University of Iceland, Pharmaceutical Sciences, Reykjavik, Iceland, [3]University of Vermont, Department of Ob/Gyn and Reproductive Sciences, Burlington, VT, United States

12:45

Salt-sensitive hypertension: role of vascular endothelial growth factor C and lymphangiogenesis (S06-5 (O))

N. Fares[1], S. Beaini[1], Y. Saliba[1], J. Hajal[1], V. Smayra[2], J.-J. Bakhos[1], D. Chelala[2]

[1]Université Saint Joseph - Faculté de Médecine, Laboratoire de Recherche en Physiologie et Physiopathologie, Beirut, Lebanon, [2]Université Saint Joseph - Faculté de Médecine, Beirut, Lebanon

11:00–13:00 / Hall A

Symposium 7: Recent advances in molecular physiology: metabolomics and beyond

Organizer: Luc Pénicaud (Dijon, France); Co-chair: J. Lechner (Innsbruck, Austria)

11:00

The Role of Metabolic Profiling in Cardiovascular Medicine (S07-1)

E. Holmes

Imperial College, Computational and Systems Medicine, London, United Kingdom

11:30

Gut microbiota and derived metabolites in metabolic disorders (S07-2)

K. Clement

Pitié-Salpêtrière hospital, Nutrition department, Paris, France

12:00

Metabolomics approaches to study NAFLD (S07-3)

M. Oresic

University of Turku, Turku Centre for Biotechnology, Turku, Finland

12:30

Effects of tumor necrosis factor alpha inhibition on streptozotocin-induced mitochondrial damage in pancreatic β -cells S07-4(O)

C. Guven[1], E. Taskin Guven[2], P. Yazgan[3], A. Rezvani[4], Y. Sevgiler[5]

[1]Omer Halisdemir University, Biophysics, Nigde, Turkey, [2]Omer Halisdemir University, Physiology, Nigde, Turkey, [3]Okan University, Physical Medicine and Rehabilitation, Istanbul, Turkey, [4]Bezmi Alem University, Physical Medicine and Rehabilitation, Istanbul, Turkey, [5]Adiyaman University, Biology, Adiyaman, Turkey

12:45

Effect of hypoxia on adiponectin pathway in murine and cellular models: which involvement in COPD-associated cardiovascular risk? (S07-5 (O))

M. Pierard[1], S. Conotte[1], A. Tassin[1], K. Zouaoui Boudjeltia[2], A. Legrand[1]

[1]UMons, Respiratory Physiology and Rehabilitation, Mons, Belgium, [2]CHU Charleroi, Experimental Medicine Laboratory (ULB 222 Unit), Montigny-le-Tilleul, Belgium

11:00 – 13:00 / Hall B

Symposium 8: Pain induced by local acidosis

Organizer: P. Holzer (Graz, Austria); Co-chair: J. Pokorny (Prague, Czech Republic)

11:00

Pain induced by tissue acidosis (S08-1)

M. Fischer

Medical University of Vienna, Physiology, Vienna, Austria

11:30

Oligodendrocyte acidification contributes to TRPA1-mediated damage in ischaemia (S08-2)

N. Hamilton-Whitaker[1], K. Kolodziejczyk[2], E. Kougioumtzidou[2], D. Attwell[2]

[1]King's College London, Wolfson Centre for Age Related Diseases, London, United Kingdom, [2]University College London, Neuroscience, Physiology and Pharmacology, London, United Kingdom

12:00

Pharmacological modulation of TRPA1 for the treatment of neuropathic pain and neurological disease modification (S08-3)

A.-P. Koivisto

Orion Corporation, Turku, Finland

12:30

Pain threshold evaluation requires to record the speed of stimulus intensity variation (S08-5 (O))

A. Viggiano[1], L. Lorusso[1], M. Monda[2]

[1]University of Salerno, Dept. Medicine, Surgery and Dentistry, Baronissi, Italy, [2]Second University of Naples, Dept. Experimental Medicine, Naples, Italy

13:00 – 14:00

Lunch break

14:00 – 16:00 / Hall C1

Symposium 9: Brute force and signaling: concepts in vascular mechanotransduction

Kindly supported by

Organizer: I. Fleming (Frankfurt, Germany); Co-chair: M. Ritter (Salzburg, Austria)

14:00

Piezo1 mechanical force sensor in the endothelium (S09-1)

D. Beech

University of Leeds, Medicine, Leeds, United Kingdom

14:30

Adjusting G-protein signaling to enable vascular smooth muscle cell phenotype changes during hypertension (S09-2)

T. Korff

Heidelberg University, Institute of Physiology and Pathophysiology, Heidelberg, Germany

15:00

The response of the dysfunctional endothelium to elevated flow – implications for plaque disruption (S09-3)

S. White

Manchester Metropolitan University, School of Healthcare Science, Manchester, United Kingdom

15:30

Endothelial cells are sensitive to shear stress via Wnt/Planar Cell Polarity pathway (S09-4 (O))

E. Roux[1], G. Cullot[1], P. Dufourcq[1], T. Couffinhal[1,2], C. Duplaa[1]

[1]Univ. Bordeaux, Inserm, UMR1034, Biology of Cardiovascular Diseases, Pessac, France, [2]Centre Hospitalier Universitaire de Bordeaux, Service des Maladies Cardiaques et Vasculaires, Pessac, France

15:45

Investigating the role of Gβγ subunits in Kv7 dependent relaxations (S09-5 (O))

J. Stott, I. Greenwood

St George's University of London, Clinical and Molecular Sciences, London, United Kingdom

14:00–16:00 / Hall C2

Symposium 10: Intracellular Ca^{2+}-compartments in cardiac physiology and disease

Organizer: Antonio Zaza (Milan, Italy); Co-chair: A. Calkovska (Martin, Slovakia)

14:00

T-tubules in physiological and pathological intracellular Ca^{2+} dynamics (S10-1)

W. Louch

University of Oslo, Institute for Experimental Medical Research, Oslo, Norway

14:30

Mitochondrial redox regulation in heart failure (S10-2)

C. Maack

University, Deutsches Zentrum für Herzinsuffizienz, Würzburg, Germany

15:00

Effect of Troponin Ca^{2+} Binding Properties on Myofibril Force Kinetics (S10-3)

N. Piroddi[1], B. Scellini[1], C. Ferrantini[1], C. Tesi[1], M. Regnier[2], C. Poggesi[1]

[1]University of Florence, Experimental and Clinical Medicine, Florence, Italy, [2]University of Washington, Seattle, United States

15:30

Spermidine feeding reduces high blood pressure and improves diastolic function in Dahl salt-sensitive rats (S10-4 (O))

S. Sedej[1], M. Abdellatif[1], T. Eisenberg[2], U. Primessnig[1,3], T. Pendl[2], M. von Frieling-Salewsky[4], C. Magnes[5], V. Herbst[1], A. Kirsch[6], A. Meinitzer[6], W.A. Linke[4], S. Kiechl[7], G. Kroemer[8], F. Madeo[2]

[1]Medical University of Graz, Graz, Austria, [2]University of Graz, Graz, Austria, [3]Charité–University Medicine Berlin, Berlin, Germany, [4]Ruhr University Bochum, Bochum, Germany, [5]Joanneum Research/ Health, Graz, Austria, [6]Medical University of Graz, Graz, Austria, [7]Medical University of Innsbruck, Innsbruck, Austria, [8]INSERM, Paris, France

15:45

Towards the role of store-operated Ca^{2+} entry in skeletal muscle physiology (S10–5 (O))

X. Koenig[1], B.S. Launikonis[2]

[1]Medical University of Vienna, Vienna, Austria, [2]University of Queensland, Brisbane, Australia

14:00–16:00 / Hall A

Symposium 11: Pancreas: Physiology and disease

Organizer: S. M. Rodrigues Camargo (Zurich, Switzerland), Co-chair: Z. Cervinkova (Hradec Kralove, Czech Republic)

14:00

Pancreatic cancer: a case of lost identity (S11-1)

P. Martinelli

Medical University Vienna, Institute of Cancer Research, Vienna, Austria

14:30

Multiple roles of purinergic signalling in pancreas (S11-2)

I. Novak

University of Copenhagen, Department of Biology, Copenhagen, Denmark

15:00

Pharmacological targeting of cell type identity in the endocrine pancreas (S11-3)

S. Kubicek

CeMM Research Center for Molecular Medicine of the Austrian Academy of Sciences, Vienna, Austria

15:30

Reversal of premature aging markers after bariatric surgery (S11-4 (O))

P. Hohensinner, B. Ebenbauer, C. Kaun, M. Prager, J. Wojta, G. Rega-Kaun

Medical University of Vienna, Vienna, Austria

15:45

The impaired function of the plasma membrane Ca^{2+} pump causes Ca^{2+} overload and cell damage in CFTR knock out pancreatic ductal cells (S11-5 (O))

T. Madacsy[1], J. Fanczal[1], P. Pallagi[2], Z. Rakonczay[3], P. Hegyi[4,5], Z. Rázga[6], M. Gray[7], J. Maleth[1]

[1]University of Szeged, First Department of Medicine, Szeged, Hungary, [2]University of Szeged, Department of Pharmacology, Szeged, Hungary, [3]University of Szeged, Department of Pathophysiology, Szeged, Hungary, [4]University of Pécs, Institute for Transl. Med. &1st Dep. of Medicine, Pécs, Hungary, [5]MTA-SZTE Transl. Gastroenterology Research Group, Szeged, Hungary, [6]University of Szeged, Department of Pathology, Szeged, Hungary, [7]Newcastle University, Institute for Cell and Molecular Biosciences, Newcastle, United Kingdom

14:00 – 16:00 / Hall B

Short Talks 1: High-rated abstracts

Chairs: N. Goswami (Graz, Austria); N. Vardian (Ljubljana, Slovenia)

14:00

G-protein mediated regulation of TRPM3 channel activity (ST1-1)

M. Behrendt, S. Dembla, F. Mohr, C. Goecke, J. Oberwinkler

Philipps University Marburg, Department of Physiology and Pathophysiology, Marburg, Germany

14:15

Role of KCa3.1 channels in glioblastoma induced angiogenesis (ST1-2)

B. Fioretti[1], S. Cataldi[1], F. Ragonese[2], L. Mancinelli[1], L. Barberini[1], E. Albi[3], T. Beccari[3]

[1]University of Perugia, Department of Chemistry, Biology and Biotechnology, Perugia, Italy, [2]University of Perugia, Department of Experimental Medicine, Perugia, Italy, [3]University of Perugia, Department of Pharmaceutical Science, Perugia, Italy

14:30

Model of brain cellular edema in the study of neuroprotection by methylprednisolon (ST1-3)

J. Pokorny, D. Marešová, P. Kozler

Charles University, 1st Faculty of Medicine, Institute of Physiology, Prague 2, Czech Republic

14:45

The role of hyaluronan-based brain extracellular matrix (bECM) in stabilization of neural network activity via regulation of GluR1-containing AMPA receptor synaptic pool (ST1-4)

A. Balashova[1], R. Sokolov[1], V. Pershin[1,2], S. Korotchenko[1,2], E. Guryev[1,2], M. Gainullin[1,2], I. Mukhina[1,2]

[1]Lobachevsky State University of Nizhni Novgorod, Nizhny Novgorog, Russian Federation, [2]Nizhny Novgorod State Medical Academy, Nizhny Novgorod, Russian Federation

15:00

Identification of the biomarkers for low and high grade astrocytoma patients outcome prognosis based on the analysis of gene activity and function (ST1-5)

G. Steponaitis, D. Skiriute, P. Vaitkiene, K. Skauminas, A. Tamasauskas, A. Kazlauskas

Lithuanian University of Health Sciences, Neuroscience Institute, Kaunas, Lithuania

15:15

Does the activity of the proteasome decline during human ageing and in the brains of Parkinson"s disease patients? (ST1-6)

D. Wayne[1], K. Lawler[1], L. Bedford[1], L. Callado[2], W. Carter[1]

[1]University of Nottingham, School of Medicine, Derby, United Kingdom, [2]University of the Basque Country, Basque Country, Spain

15:30

Kynurenic acid and it"s amid analogue could be possible drug candidates for controlling the activity of opioid system (ST1-7)

R. Samavati

Medical University of Szeged, Neurology, Szeged, Hungary

15:45

A relation between mitochondria and epileptiform discharges (ST1-8)

M. Hotka[1], M. Cagalinec[2], H. Kubista[1]

[1]Medical University of Vienna, Department of Neurophysiology and Neuropharmacology, Centre of Physiology and Pharmacology, Vienna, Austria, [2]Centre of Biosciences, Slovak Academy of Sciences, Department of muscle cell research, Bratislava, Slovakia

16:00 – 17:00

Poster Session B

PLEASE NOTE:

Posters can be mounted from 13:45, should be mounted until 15:30 and have to be removed at the end of the corresponding poster session at 18:30; otherwise they can be removed by the following presenters or by the organizers.

Fixing material will be provided and distributed in the poster area. There will be no guided poster tour but presenting authors are requested to stay at their posters during the viewing session for discussions.

B01: Cardiac physiology

Chronobiological aspects of general anesthesia in rat myocardial electrophysiology (B01-1)

P. Svorc[1], I. Bacova[1], J. Stimmelova[1], S. Gresova[1], D. Petrasova[1], P. Svorc, Jr.[1,2]

[1]Medical Faculty, Safarik University, Department of Physiology, Košice, Slovakia, [2]Medical Faculty Ostrava University, Department of Physiology and Pathophysiology, Ostrava, Czech Republic

Physiological and biochemical alterations of experimental systolic heart failure in mice overexpressing a serotonin receptor in the heart (B01-2)

N. Joachim, T. Gerigk, D. Mahnkopf, H. Edler, U. Gergs

Univ Hospital, Pharmacology and Toxicology, Halle, Germany

Uniaxial strain of cardiac tissue parallel to impulse propagation slows conduction more than in the perpendicular direction: untangling the effects of stretch on tissue resistance (B01-3)

A. Buccarello[1], M. Azzarito[1], F. Michoud[2], S. Lacour[2], J.P. Kucera[1]

[1]University of Bern, Department of Physiology, Bern, Switzerland, [2]Swiss Federal Institute of Technology, Lausanne, Laboratory for Soft Bioelectronic Interfaces, Lausanne, Switzerland

The selective late sodium current inhibitor GS967 reduces modifications of ventricular fibrillation activation complexity induced by mechanical stretch (B01-4)

P. Genoves[1], I. del Canto[1,2], O. Arias-Mutis[1], L. Santamaria[3], C. Soler[3], M. Zarzoso[4], L. Such-Miquel[4], J.S. Cuñat[3], M. Muñoz[3], Y. Lopez[3], A. Alberola[1], L. Such[1], F.J. Chorro[5]

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Role of the late sodium current on ventricular refractoriness and electrophysiological heterogeneity modifications induced by acute local stretch. A study in isolated rabbit heart. (B01-5)

I. del Canto[1,2], M. Zarzoso[3], L. Such-Miquel[3], L. Santamaria[4], O. Arias-Mutis[5], P. Genovés[5], M. Muñoz[4], C. Soler[4], M. Heras[4], G. Parra[4], A. Alberola[5], F.J. Chorro[6,7], L. Such[5]

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The effects of paced breathing on heart rate variability parameters (B01-6)

D. Dimitriev, E. Saperova, A. Ivanova

Chuvash State Pedagogical University, Department of Biology, Cheboksary, Russian Federation

Mechanisms of beta-adrenergic regulation of bioelectric activity in murine pulmonary veins myocardium (B01-7)

V. Karimova, V. Kuzmin

Lomonosov Moscow State University, Moscow, Russian Federation

Effect of mesenchymal stem cells administration on electrophysiological and contractile properties of ventricular myocardium in clinically relevant porcine model of sepsis (B01-8)

D. Jarkovska[1,2], J. Sviglerova[1,2], F. Bartak[1,2], L. Nalos[1,2], J. Horak[2,3], J. Benes[2,4], M. Matejovic[2,3], M. Stengl[1,2]

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Heart-rate variability did not affect subsequent night sleep parameters and cortisol awakening response (B01-9)

C. Uçar, T. Ozgöçer, S. Yildiz

İnonu University, Faculty of Medicine, Department of Physiology, Malatya, Turkey

Simultaneous electro-optical endocardial and epicardial mapping of mechanoelectric feedback by left ventricular stretch in the isolated rabbit heart. An experimental validation of a custom-made endocardial balloon array with volume control. (B01-10)

C.J. Calvo[1,2], A. Tormos[2], E. Roses[2], L. Such-Miquel[3], M. Zarzoso[3], S. Jimenez[2], L. Such[1], J. Millet[2], J. Chorro[4], A. Guill[2]

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The effect of CHAMBER-REST on electrophysiology of the heart in young people (B01-11)

T. Ekrtová[1], V. Jarkuliš[1], M. Malůš[2], Z. Vavřina[1], D. Škrda[1], M. Kempný[1], T. Michalčák[1], P. Švorc Jr.[1]

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SYSTOLIC time intervals: effect of mental arithmetics (B01-12)

J. Krohova, B. Czippelova, Z. Turianikova, Z. Lazarova, R. Wiszt, M. Javorka

Comenius University, Jessenius Faculty of Medicine, Department of Physiology and Biomedical Centre Martin, Martin, Slovakia

Heart rate variability of premature neonates from 28 weeks of amenorrhea to term equivalent as responses to painful or stressful cares in Neonatal Intensive Care Unit. (B01-13)

T. Jeanne[1,2], F. Jouen[3], M. Molina[1], C. Alexandre[2], J. Leveneur[1], B. Guillois[2]

[1]University of Caen, Laboratoire de Psychologie Caen Normandie EA7452, Caen, France, [2]CHU of Caen, Neonatal Intensive Care Unit, Caen, France, [3]Ecole Pratique des Hautes Etudes, Laboratoire "Cognition Humaine et Artificielle" EA 4004, Paris, France

B02: Vascular physiology

Effect of sexual dimorphism on the role of perivascular adipose tissue-derived chemerin in regulation of vascular tone of porcine coronary artery (B02-1)

A. Ahmad, R. Roberts, M. Randall

University of Nottingham, Nottingham, United Kingdom

Modulation of meningeal and medullary blood flow upon noxious stimulation of rat cranial dura mater (B02-2)

M. Dux[1], K. Messlinger[2]

[1]University of Szeged, Institute of Physiology, Szeged, Hungary, [2]University of Erlangen-Nürnberg, Institute of Physiology & Pathophysiology, Erlangen, Germany

The vasoactive role of nitric oxide and hydrogen sulphide in adult spontaneously hypertensive rats (B02-3)

A. Berenyiova[1], A. Puzserova[1], M. Grman[2], F. Kristek[1], S. Cacanyiova[1]
[1]Institute of Normal and Pathological Physiology SAS, Bratislava, Slovakia, [2]Institute of Clinical and Translational Research, BMC, SAS, Bratislava, Slovakia

Expression of cellular machinery responsible for acetylcholine synthesis, transport and degradation in rat aorta (B02-4)

Z. Kilianova, K. Krajcovicova, K. Szmicsekova, A. Hrabovska
Faculty of Pharmacy, Department of Pharmacology and Toxicology, Bratislava, Slovakia

The role of NO-H_2S interaction in vasoactive responses of rat and human isolated arteries (B02-5)

S. Cacanyiova[1], A. Berenyiova[1], F. Kristek[1], K. Ondrias[2], M. Grman[2], J. Breza Sr.[3], J. Breza Jr.[3]
[1]Institute of Normal and Pathological Physiology, Laboratory of Vascular Disorders Etiopathogenesis, Bratislava, Slovakia, [2]Institute for Clinical and Translational Research BMC, Slovak Academy of Sciences, Bratislava, Slovakia, [3]Department of Urology, Derer's University Hospital, Bratislava, Slovakia

Effect of melatonin on blood pressure and fibrosis enlargement in the heart and aorta in experimental metabolic syndrome (B02-6)

O. Pechanova, M. Cebová, R. Rehakova, M. Kosutova, S. Vrankova, A. Barta
Institute of Normal and Pathological Physiology, Slovak Academy of Sciences, Department of Neuro-cardiovascular Interactions, Bratislava, Slovakia

Protective role of melatonin against caspase depended apoptosis in thoracic aorta tissue of pinealectomised rat. (B02-7)

Z.B. Doğanlar[1], O. Doğanlar[1], M. Uzun[2], M.A. Ovalı[2], G. Ongoren[1]
[1]Trakya University, Faculty of Medicine, Medical Biology, Edirne, Turkey, [2]Canakkale 18 Mart University, Faculty of Medicine, Physiology, Canakkale, Turkey

Acute exposure to hyperbaric oxygenation impaires endothelial nitric oxide production in Sprague-Dawley healthy male rats (B02-8)

I. Jukić, Z. Mihaljević, L. Rašić, A. Ćosić, A. Stupin, I. Ezgeta, I. Drenjančević
Faculty of Medicine Osijek, Dept of Physiology and Immunology, Osijek, Croatia

Hydrogen sulfide restores redox status of heart tissues, diastolic heart function and endothelium dependent vasorelaxation in old animals (B02-9)

V. Sagach, K. Drachuk, N. Dorofeyeva
Bogomolez Inst.of Physiology NAS of Ukraine, Department of Blood Circulation, Kiev, Ukraine

The role of nitric oxide in endothelium-dependent control of murine basilar artery under conditions of acidosis (B02-10)

O.O. Kiryukhina[1], O.S. Tarasova[1,2]
[1]M.V. Lomonosov Moscow State University, Faculty of Biology, Department of Human and Animal Physiology, Moscow, Russian Federation, [2]SRC RF Institute for Biomedical Problems RAS, Moscow, Russian Federation

Premature senescence of endothelial cells upon chronic exposure to TNFα can be prevented by N-acetyl cysteine and plumericin (B02-11)

S.Y. Khan[1], E. Awad[1], A. Oszwald[1], M. Mayr[2], X. Yin[2], B. Waltenberger[3], H. Stuppner[3], M. Lipovac[4], P. Uhrin[1], J.M. Breuss[1]
[1]Medical University of Vienna, Vascular Biology and Thrombosis Research, Vienna, Austria, [2]King's College London, London, United Kingdom, [3] University of Innsbruck, Innsbruck, Austria, [4]Karl Landsteiner Institute for Cell-based Therapy in Gynecology, Korneuburg, Austria

Obesity impairs vascular reactivity and Ca^{2+} homeostasis in in situ endothelial cells from rat aorta (B02-12)

R. Berra-Romani[1], B. Mani-Zaca[1], V.A. Vargaz-Guadarrama[1], F. Moccia[2], F. Tanzi[2], A. Trujillo-Hernandez[1]
[1]Benemerita Universidad Autonoma de Puebla, Cardiovascular Physiology, Puebla, Mexico, [2]Universita di Pavia, Dipartimento di Biologia e Biotecnologie L. Spallanzani, Pavia, Italy

B03: Molecular & cellular physiology

Radiofrequency Radiation Emitted from Cell Phone induces DNA Damage and Oxidative Stress in Rat Brain Tissue (B03-1)

M.E. Alkış[1], M.Z. Akdağ[2], H. Bilgin[3], V. Akpolat[2], S. Daşdağ[4]
[1]Muş Alpaslan University, Faculty of Engineering, Department of Electrical & Electronics Engineering, Muş, Turkey, [2]Dicle University Faculty of Medicine, Department of Biophysics, Diyarbakır, Turkey, [3]Dicle University Faculty of Medicine, Department of Physiology, Diyarbakır, Turkey, [4]Istanbul Medeniyet University Faculty of Medicine, Department of Biophysics, Istanbul, Turkey

Decreased inward rectifier potassium current IK1 in dystrophin-deficient ventricular cardiomyocytes (B03-2)

L. Rubi, X. Koenig, H. Kubista, H. Todt, K. Hilber
Medical University of Vienna, Center for Physiology and Pharmacology, Vienna, Austria

Effect of Glycine on Microglia during oxidative stress (B03-3)

F. Egger[1,2,3,4], M. Gaisberger[1,2,3], M. Ritter[1,2,3], M. Jakab[1,2], H. Kerschbaum[4]
[1]Paracelsus Medical University, Institute of Physiology and Pathophysiology, Salzburg, Austria, [2]Paracelsus Medical University, Gastein Research Institute, Salzburg, Austria, [3]Ludwig Boltzmann Cluster for Arthritis and Rehabilitation, Department for Radon Therapy Research, Salzburg, Austria, [4]University of Salzburg, Department of Cell Biology, Salzburg, Austria

Oxidative stress in the liver and heart induced by thioacetamide in male and female rats – effect on heart innervation (B03-4)

M. Chottova Dvorakova[1,2], D. Jarkovska[1,2], E. Mistrova[1,2], V. Krizkova[3], D. Kotyzova[2,4], J. Slavikova[2], M. Bludovska[2,4]

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Role of TASK-3 channels in the mitochondria of melanoma cells (B03-5)

M. Gönczi[1], D. Nagy[2], P. Bai[3,2], B. Pál[4], G. Kis[5], M. Antal[5], L. Csernoch[4]

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Effects of Different Timing in Clamping of Umbilical Cord on Oxidative Markers (B03-6)

N. Bahtiyar[1], D. Saribal Kanber[1], T.B. Bildaci[2], M.C. Akyolcu[1], S. Toplan[1]

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Prevention of doxorubicin-induced cardiotoxicity through atp sensitive potassium channel opening (B03-7)

C. Guven[1], E. Taskin Guven[2], O. Aydin[3], Y. Sevgiler[3]

[1]Omer Halisdemir University, Biophysics, Nigde, Turkey, [2]Omer Halisdemir University, Physiology, Nigde, Turkey, [3]Adiyaman University, Biology, Adiyaman, Turkey

Effects of melatonin on acute pancreatitis induced by doxorubicin in human pancreatic cell lines (B03-8)

C. Guven[1], E. Taskin Guven[2], Y. Sevgiler[3]

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Effect of Trans-3 Hydroxycinnamic Acid Against Liver Damage Induced-Methotrexate: An Experimental Study (B03-9)

O. Arslan, F.N. Ekinci Akdemir

Ağrı İbrahim Çeçen University, Department of Nutrition and Dietetics, Ağrı, Turkey

The effect of ferulic acid against myocardial damage induced by methotrexate (B03-10)

F.N. Ekinci Akdemir[1], Y. Bayır[2]

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The role of p-Coumaric acid in methotrexate-induced neurotoxicity (B03-12)

F.N. Ekinci Akdemir[1], C. Bingöl[2], Y. Bayır[3], M. Gül[4]

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The effects of chronic intraperitoneally infusion of irisin on liver antioxidant balance in rats (B03-13)

S. Tekin[1], M. Cakir[2], A. Beytur[1], S. Sandal[1]

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B04: Endocrine, neuroendocrine and metabolism

Energy homeostasis in a hypovitaminosis D-hypoirisinemic rat model (B04-1)

S. Mansour[1], M. Abulmeaty[1,2], A. Almajwal[2], M. ElSadek[2], S. Razak[2]

[1]Zagazig University, Medical Physiology, Zagazig, Egypt, [2]King Saud University, Riyadh, Saudi Arabia

Effects of oxidative stress and insulin on (pro)renin receptor expression in cultured human breast cancer cells (B04-2)

K. Takahashi, K. Tajima, S. Sato, K. Ohba

Tohoku University Graduate School of Medicine, Department of Endocrinology and Applied Medical Science, Sendai, Japan

An Experimental Rat Model for the Effects of High Fat Diet-Induced Obesity on Spatial Learning (B04-3)

F. Sirinyildiz, C. Orak, G. Tasli Yesilcayir, R. O. Ek, G. Cesur

Adnan Menderes University, Physiology, Aydın, Turkey

Traumatic brain injury induces plasma resistin levels in rat (B04-4)

M. Tunc-Ata, F. Altintas, G. Turgut, S. Turgut

Pamukkale University Faculty Of Medicine, Physiology, Denizli, Turkey

Identification of potential biomarkers for autism spectrum disorders using urinary metabolomics (B04-5)

G. Repiska[1], K. Babinska[1], L. Siklenkova[1], H. Celusakova[1], A. Kovac[2], S. Katina[3], J. Galba[2], D. Ostatnikova[1]

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Ghrelin prevents skeletal muscle damage in septic rats (B04-6)

G. Ates Ulucay[1,2], H. Yorulmaz[3], G. Unverengil[4], E. Ozkok[5], S. Tamer[2]

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Effects of intracerebroventricular fgf21 infusion on the energy metabolism (B04-7)

U. Yilmaz[1], S. Tekin[1], M. Demir[1], Y. Cigremis[2], S. Sandal[1]

[1]Inonu University, Department of Physiology, Malatya, Turkey, [2]Inonu University, Department of Medical Biology and Genetics, Malatya, Turkey

Effects of short-term and long-term of obesity on RETN, IAPP, and DRD5 mRNA levels (B04-8)

O. Timirci Kahraman[1], U. Yilmaz[2], C. Horozoglu[1], A. Cevik[3], F. Celik[1], M.O. Gokce[1], A. Ergen[1], A. Melekoglu[4], U. Zeybek[1]

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Comparison of Methods for Alpha-Amylase Measurement in Saliva (B04-9)

Z. Barutçu, T. Ozgocer, P. Cakan, C. Ucar, S. Yildiz

Inonu University, Malatya, Turkey

Late-night eating increased cortisol awakening response but did not affect heart rate variability in the next morning (B04-10)

C. Uçar, T. Ozgöçer, S. Yildiz

İnonu University, Faculty of Medicine, Physiology, Malatya, Turkey

Afamin, a potential marker of metabolic syndrome associated with lipid accumulation in liver, is not affected by 3-months exercise intervention (B04-11)

T. Kurdiova[1], S. Tyciakova[1], L. Jackova[1], V. Belan[2], R. Berberich[3], D. Gasperikova[1], G. Schmitz[4], H. Dieplinger[3], B. Ukropcova[1,5], J. Ukropec[1]

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Effects of Zinc and Melatonin Supplements on Immunity Parameters of Rats with Breast Cancer (B04-12)

S.B. Baltaci[1], R. Mogulkoc[1], A.K. Baltaci[1], A. Emsen[2], H. Artac[2]

[1]Selcuk University, Konya, Turkey, [2]Selcuk University, Pediatric Immunology, Konya, Turkey

B05: Sports & exercise physiology

Concurrent exercise training improves anthropometric measures in schizophrenic individuals by engaging epigenetic mechanism and inflammatory modulation (B05-1)

V. Elsner[1], C. Lavratti[1], G. Dorneles [2], D. Pochmann[1], A. Peres [1,2], A. Bard[3], L.D.L. Schipper[3], P. Dal Lago[4], L. Wagner[1]

[1]Centro Universitário Metodista Ipa, Porto Alegre, Brazil, [2]Cellular and Molecular Immunology Lab., Department of Health Basic Sciences, Federal University of Health Sciences of Porto Alegre, Porto Alegre, Brazil, [3]Curso de Fisioterapia do Centro Universitário Metodista-IPA, Porto Alegre, Brazil, [4]Programa de Pós Graduação em Ciências da Reabilitação, Universidade Federal de Ciências da Saúde de Porto Alegre, Porto Alegre, Brazil

How the walking dynamics of obese individuals change by low vs fast walking speed with respect to the normal-weight counterparts? (B05-2)

D. D. Koyuncu, U. Dal, Z. Altinkaya

Mersin University, Faculty of Medicine, Department of Physiology, Mersin, Turkey

No hemodynamic effects after one-month ischemic training during the muscle metaboreflex activation (B05-3)

A. Crisafulli[1], G. Mulliri[1], R. Oliveira[2], R. Farias[2], K. Lopes[2], R. Milia[1], G. Sainas[1], V. Pinna[1], G. Palazzolo[1], A. Doneddu[1], G. Ghiani[1], S. Magnani[1], P. Farinatti[2], S. Roberto[1]

[1]University of Cagliari, Medical Science and Public Health, Cagliari, Italy, [2]Universidade do Estado do Rio de Janeiro, Rio de Janeiro, Brazil

Influence of exercise on aging process (B05-4)

B. Dejanova, S. Petrovska, S. Mancevska, J. Pluncevic, P. Dejanov

Medical Faculty Skopje, Institute of Physiology, Skopje, Macedonia, The former Yugoslav Republic of Macedonia

Time Course of Hemorheological Alterations Following an Acute Bout of Isokinetic Exercise in Active Male Subjects (B05-5)

E. Kilic-Toprak[1], F. Unver[2], O. Kilic-Erkek[1], H. Korkmaz[3], Y. Ozdemir[1], B. Oymak[1], A. Oskay[4], M. Bor-Kucukatay[1]

[1]Pamukkale University Faculty of Medicine, Physiology, Denizli, Turkey, [2]Pamukkale University, School of Physical Therapy and Rehabilitation, Denizli, Turkey, [3]Pamukkale University, Faculty of Sport Sciences, Denizli, Turkey, [4]Denizli State Hospital, Department of Emergency Medicine, Denizli, Turkey

A 12-week vigorous exercise protocol in a healthy group of persons over 65: Study of physical function by means of the Senior Fitness Test (B05-6)

F. Tocco[1], F. Melis[1], A. Crisafulli[1], M. Pau[2], F. Todde[1]

[1]University of Cagliari, Medical Science and Public Health, Cagliari, Italy, [2]University of Cagliari, Mechanical Engineering, Cagliari, Italy

Hemorheological Alterations Following an Acute Bout of Nordic Hamstring Exercise in Active Male Subjects (B05-7)

A. Oskay[1], H. Korkmaz[2], Y. Ozdemir[3], B. Oymak[3], E. Kilic-Toprak[3], O. Kilic-Erkek[3], F. Unver[4], M. Bor-Kucukatay[3]

[1]Denizli State Hospital, Department of Emergency Medicine, Denizli, Turkey, [2]Pamukkale University Faculty of Sport Sciences, Denizli, Turkey, [3]Pamukkale University Faculty of Medicine, Department of Physiology, Denizli, Turkey, [4]Pamukkale University School of Physical Therapy and Rehabilitation, Denizli, Turkey

Comparatively Determination of Ventilatory Efficiency from Constant Load and Incremental Exercise Tests (B05-8)

S. Algul, O. Ozcelik, F.a. Uğur, A. Ayar

Karadeniz Technical University, Physiology, Trabzon, Turkey

Cardiopulmonary test parameters in patients with coronary artery disease (B05-9)

S. Magnani, S. Roberto, G. Sainas, G. Palazzolo, V. Pinna, A. Doneddu, R. Milia, F. Tocco, A. Crisafulli

University of Cagliari, Department of Medical Sciences and Public Health, Cagliari, Italy

Cardioprotective Effects of Exercise on the Experimental Type 1 Diabetes Mellitus; Investigating the Oxidative and Antioxidative Status (B05-10)

A.D. Dursun, H. Colaker, G. Omercioglu, Y. Tatar, F. Akat, H. Ficicilar, M. Bastug

Ankara University School of Medicine, Department of Physiology, Ankara, Turkey

Effect of Progressive Resistance Exercise, Targeting Muscles with High Type 1 Fiber, on Aerobic Capacity of Young Sedentary Individuals (B05-11)

E. Sahin, A. Ayar

Karadeniz Technical University, Physiology, Trabzon, Turkey

Influence of Rhodiola Rosea product and physical training, on acute physical stress (B05-12)

R.-N. Jurcau[1], I.-M. Jurcau[2], N.-A. Colceriu[3]

[1]"Iuliu Hatieganu" University of Medicine and Pharmacy, Pathophysiology, Cluj-Napoca, Romania, [2]Emergency Clinical Hospital for Children, Pathology, Cluj-Napoca, Romania, [3]University of Agricultural Sciences and Veterinary Medicine, Viticulture, Cluj-Napoca, Romania

The Impact of Physical Exercise Performed at Different Times of Day on Serum Nesfatin-1 and Irisin Levels in Trained and Untrained Young Male Subjects (B05-13)

O. Ozcelik[1], S. Algul[1,2], B. Yilmaz[3]

[1]Firat University, Medical School, Physiology, Elazig, Turkey, [2]Yuzuncu Yil University, Medical School, Physiology, Van, Turkey, [3]Yeditepe University, Medical School, Physiology, Istanbul, Turkey

B09: Neurobiology

The relationship between global acetylation histone H4 levels and spinal cord injury: an experimental study (B09-1)

V. Elsner[1], M.F. de Menezes[2,3], F. Nicola[4], I.R.V. da Silva[1], L. Xavier[2,3], A. Vizuete[4], C.A. Gonçalves[4], C.A. Netto[4], R. Mestriner[2,3]

[1]Programa de Pós Graduação em Ciências da Reabilitação, Universidade Federal de Ciências da Saúde de Porto Alegre, Porto Alegre, Brazil, [2]Neurorehabilitation and Neural Repair Research Group, Pontifical Catholic University of Rio Grande do Sul, Porto Alegre, Brazil, [3]Post Graduate Program in Cellular and Molecular Biology, Pontifical Catholic University of Rio Grande do Sul, Porto Alegre, Brazil, [4]Department of Biochemistry, Basic Science Institute, Federal University of Rio Grande do Sul, Porto Alegre, Brazil

The role of P2X7 receptors in penicillin-induced epileptiform activity* (B09-2)

G. Arslan[1], S.E. Kocacan[2], M. Ayyildiz[2], E. Rzayev[3], B. Avci[3], E. Agar[2]

[1]Cumhuriyet University, Medical School, Physiology, Sivas, Turkey, [2]University of Ondokuz Mayis, Medical School, Physiology, Samsun, Turkey, [3]University of Ondokuz Mayis, Medical School, Biochemistry, Samsun, Turkey

The effect of hemopressin on ECoG activity of absence epilepsy model in WAG/Rij rats* (B09-3)

H. Aygun[1], Y. Kabak[2], M. Ayyildiz[3], A.Z.K. Al Khaleel[3], L. A. K. Kamil[3], S. Beyazkilinc Inal[2], A. Him[4], E. Agar[3]

[1]University of Gazi Osmanpasa, Medical School, Physiology, Tokat, Turkey, [2]University of Ondokuz Mayis, Faculty of Veterinary Medicine, Pathology, Samsun, Turkey, [3]University of Ondokuz Mayis, Medical School, Physiology, Samsun, Turkey, [4]University of Ondokuz Mayis, Medical School, Biophysic, Samsun, Turkey

The difference of gastrointestinal microbiota of children with and without autism in Slovakia (B09-4)

A. Tomova, K. Babinska, A. Kubranska, P. Kemenyova, J. Radosinska, D. Ostatnikova

Comenius University Bratislava, Slovakia

The effect of melatonin on the experimentally produced alzheimer in rats and relationship with FEZ1 gene expression (B09-5)

M. Demir[1], U. Yilmaz[1], S. Sandal[1], C. Colak[2], Y. Cigremis[3], B. Tekedereli[3]

[1]Inonu University, Department of Physiology, Malatya, Turkey, [2]Inonu University, Department of Biostatistics and Medical Informatics, Malatya, Turkey, [3]Inonu University, Department of Medical Biology and Genetics, Malatya, Turkey

Role of alpha-adrenoceptor agonists in meningeal nociception (B09-6)

J. Manchen, B. Vogler, K. Messlinger

University of Erlangen-Nürnberg, Institute of Physiology & Pathophysiology, Erlangen, Germany

The Evidences of Electrophysiological Symptoms of Acute Toxoplasmosis in Rats (B09-7)

E. Ayaz[1], H.S. Orallar[1], S.A. Türkoglu[1], A. Çetinkaya[1], S. Demir[1,2]
[1]Abant Izzet Baysal University, Bolu, Turkey, [2]Duzce University, Physiology, Duzce, Turkey

Dynamics of changes in heart rate variability after prolonged exposure to dark (B09-8)

P. Svorc Jr.[1], T. Ekrtova[1], V. Jarkulis[1], M. Malus[2], D. Skrda[1], M. Kempny[1], T. Michalcak[1], Z. Vavrina[1]
[1]Faculty of Medicine, University of Ostrava, Department of Physiology and Pathophysiology, Ostrava, Czech Republic, [2]Faculty of Arts, University of Ostrava, Department of Psychology, Ostrava, Czech Republic

Muscarinic acetylcholine receptors activation enhances neurite outgrowth in cultured hippocampal neurons and exerts anxiolytic-like effects by modulating BDNF and FGF2 in the rat hippocampus (B09-9)

N. Belluardo[1], V. Di Liberto[1], M. Frinchi[1], V. Verdi[1], A. Vitale[1], D.O. Borroto Escuela[2], K. Fuxe[2], G. Mudò[1]
[1]University of Palermo, Department of Experimental Biomedicine and Clinical Neurosciences, Palermo, Italy
[2]Karolinska Institute, Department of Neurosciences, Stockholm, Sweden

Neurospecific proteins determination in plasma of newborns with perinatal hypoxic lesion of the central nervous system (B09-10)

P. Pchelin[1], N. Shchelchkova[2], T. Mishchenko[1,2], E. Mitroshina[1], K. Terentieva[2], O. Khaletskaya[2], M. Vedunova[1]
[1]Lobachevsky State University of Nizhny Novgorod, Institute of Biology and Biomedicine, Nizhny Novgorod, Russian Federation, [2]Nizhny Novgorod State Medical Academy, Nizhny Novgorod, Russian Federation

Do the activities of redox regulating enzymes decline during ageing and in the brains of Parkinson"s disease patients? (B09-11)

L.-N. Schaffert[1], C. Schupfer[1], A.-C. Raulin[1], M. Periera[2], L. Callado[3], W. Carter[1]
[1]University of Nottingham, School of Medicine, Derby, United Kingdom, [2]Federal University of Rio, Rio de Janeiro, Brazil, [3]University of the Basque Country, Basque Country, Spain

Chemogenetics modulation of kisspeptin neuron activity and its role in anxiety behavior in mice (B09-12)

S. Eyuboglu[1], S. Agus[1], O. Baser[1], D. Atasoy[2], B. Yilmaz[1]
[1]Yeditepe University, Medical School, Physiology, Istanbul, Turkey, [2]Istanbul Medipol University, Medical School, Physiology, Istanbul, Turkey

B12: Sensory and motor neurophysiology

Intrinsic discharge patterns of floccular Purkinje cells in rats (B12-1)

C.-H. Kim, Y.-G. Kim
Konkuk University School of Medicine, Seoul, Republic of Korea

The intra-limb anticipatory postural adjustments and their role in movement performance (B12-2)

P. Cavallari, F. Bolzoni, C. Bruttini, R. Esposti
Università degli Studi di Milano, Section Human Physiology - Dep. Pathophysiology and Transplantation, Milan, Italy

Impact of photoreceptor failure on inner retinal function (B12-3)

S. Di Marco
Università degli studi dell'Aquila, Dipartimento di Scienze cliniche applicate e biotecnologiche, L'Aquila, Italy

Dynamic weight bearing test for assessing effects of acute intramuscular administration of botulinum neurotoxin type A1 in the rat (B12-4)

S. Cornet[1], C. Périer[1], L. Gorj[2], S. Wagner[2], E. Andriambeloson[2], B. Pouzet[3], M. Kalinichevl[1]
[1]Ipsen-Innovation, Neurology, Les Ulis, France, [2]Neurofit SAS, Illkirch, France, [3]BeVivo GmbH, Reinach (BL), Switzerland

Are psychogenic startles anxiety-enhanced physiological startles? A latencies-based answer (B12-5)

W. Kacem
University of Medicine of Tunis, Physiology, Tunis, Tunisia

Shared neural input between muscles activated during shoulder abduction and adduction (B12-6)

T. Richards, P. Sriya, S. Astill, S. Chakrabarty
University of Leeds, Faculty of Biological Sciences, Leeds, United Kingdom

On genito-urological pathophysiology I (B12-7)

E. Neu[1], M.C. Michailov[1], U. Welscher[1], U. Härlin[1], H.W. Bauer[1,2], A. Hofstetter[1,3], G. Hohlbrugger[1,4], H. Madersbacher[1,4], G. Weber[1,5]
[1]Inst. Umweltmedizin (IUM) c/o ICSD/IAS e.V., Munich, Germany, [2]FU Berlin & Univ. Munich, Munich, Germany, [3]Univ. Munich, Kl. Großhadern, Munich, Germany, [4]Med. Univ. Innsbruck, Innsbruck, Austria, [5]Fac. Psychol. (Dean), Univ. Luxembourg & Vienna, Vienna, Austria

Changes in static perimetry during chamber-rest: a pilot study (B12-8)

D. Škrda[1], T. Michalčák[1], M. Maluš[2], Z. Vavřina[1], T. Ekrtová[1], M. Kempný[1], V. Jarkuliš[1], P. Švorc Jr.[1]
[1]Faculty of Medicine, University of Ostrava, Department of Physiology and Pathophysiology, Ostrava, Czech Republic, [2]Faculty of Arts, University of Ostrava, Department of Psychology, Ostrava, Czech Republic

B17: Stem cells

Development of a multi-layer scaffold for artificial tissue with mesenchimal stem cells (B17-1)

V. Mikalayeva[1], I. Antanavičiūtė[1], T. Tamulevičius[2], V.A. Skeberdis[1], E. Stankevičius[3]
[1]Lithuanian University of Health Sciences, Institute of Cardiology, Kaunas, Lithuania, [2]Kaunas University of Technology, Institute of Materials Science, Kaunas, Lithuania, [3]Lithuanian University of Health Sciences, Institute of Physiology and Pharmacology, Kaunas, Lithuania

Synergistic effects of TGF-ß and IGF-1 on chondrogenic potential of adipose tissue derived stem cells (B17-2)

D. Taskiran[1], E. Taskiran[2]
[1]Ege University School of Medicine, Physiology, Izmir, Turkey, [2]Ege University School of Medicine, Orthopaedics and Traumatology, Izmir, Turkey

17:00 – 18:00/ Hall C1

Public Lecture

Chair: B. Yilmaz (Istanbul, Turkey)

Exercise as Medicine – the role of myokines mediating muscle-organ cross-talk (PL-03)

B.K. Pedersen
Rigshospitalet and University of Copenhagen, Centre of Inflammation and Metabolism (CIM) and Centre for Physical Activity Research (CFAS), Copenhagen, Denmark

20:00

Congress Dinner

The congress dinner will take place at the Heuriger "Schuebel-Auer".

Meeting Point:
Heuriger Schuebel-Auer
Kahlenberger Str. 22
1190 Wien-Nussdorf

Please refer to page 10 for further information about public transportation.

Friday, 15 September 2017

09:00 – 10:00 / Hall C1

Plenary Lecture

Chair: W.E. Louch (Oslo, Norway)

Targeting Brain Circuits to Reverse Obesity and Type 2 Diabetes (PL-04)

L. Heisler
University of Aberdeen, Rowett Institute, Aberdeen, United Kingdom

10:00 – 11:00

Poster Session C

PLEASE NOTE:
Posters can be mounted from 08:30, should be mounted until 09:30 and have to be removed at the end of the corresponding poster session at 13:15; otherwise they can be removed by the following presenters or by the organizers.
Fixing material will be provided and distributed in the poster area. There will be no guided poster tour but presenting authors are requested to stay at their posters during the viewing session for discussions.

C01: Cardiac physiology

The cardioprotective remote ischemic preconditioning in SHR rats: role of age and activation of RISK signaling pathway (C01-1)

V. Farkašová[1], L. Griecsová[1], M. Muráriková[1], S. Čarnická[1], U. Lonek[1], M. Ferko[1], A. Adameová[2], T. Ravingerová[1]
[1]Institute for Heart Research, Slovak Academy of Sciences, Department of Cardiovascular Physiology and Pathophysiology, Bratislava, Slovakia, [2]Faculty of Pharmacy, Comenius University, Department of Pharmacology and Toxicology, Bratislava, Slovakia

Remote ischemic preconditioning: protection of myocardial energetics (C01-2)

M. Ferko[1], I. Kancirová[1], M. Jašová[1], J. Kucharská[2], O. Uličná[2], O. Vančová[2], M. Muráriková[1], T. Ravingerová[1], I. Waczulíková[3]
[1]Institute for Heart Research, Slovak Academy of Sciences, Biochemistry, Bratislava, Slovakia, [2]Pharmacobiochemical Laboratory, Third Department of Internal Medicine, Faculty of Medicine, Comenius University, Bratislava, Slovakia, [3]Division of Biomedical, Physics, Department of Nuclear Physics, Biophysics, Faculty of Mathematics, Physics and Informatics, Comenius University, Bratislava, Slovakia

Hypertension and oxidant stress: Effects of angiotensin II receptor antagonists and calcium-channel antagonists on oxidant status in Algerian hypertensive men. (C01-3)

N. Malti, C. El Hassar, H. Merzouk, S.A. Merzouk, A. Meziane
Laboratory of PPABIONUT, University of Tlemcen, Tlemcen, Algeria

Role of altered Ca^{2+} homeostasis during adverse cardiac remodeling after ischemia and reperfusion (C01-4)

A. Dominguez-Rodriguez[1], I. Díaz[1], E. Sánchez de Rojas-de Pedro[1], I. Mayoral-Gonzalez[1], A. Hmadcha[2], E. Calderón-Sánchez[1], J. Avila-Medina[1], A.M. Gomez[3], J.-P. Benitah[3], A. Ordóñez[1], T. Smani[1]
[1]Institute of Biomedicine of Seville, Seville, Spain, [2]CABIMER, Department of Stem Cells, Seville, Spain, [3]UMR S1180, Inserm, Univ. Paris-Sud, Université Paris-Saclay, Châtenay-Malabry, France

Fluoxetine Attenuates Remote Myocardial Ischemia Reperfusion Injury (C01-5)

M.O. Yaman[1], I. Guner[1], H. Erman[2], O.E. Tok[3], M. Pala[4], M. Esrefoglu[3], R. Gelisgen[5], H. Uzun[5], N. Yelmen[1], G. Sahin[1]
[1]University of Istanbul, Cerrahpasa Medical Faculty, Physiology, Istanbul, Turkey, [2]Medeniyet University, Istanbul, Turkey, [3]Bezmialem University, Histology and Embryology, Istanbul, Turkey, [4]Biruni University, Physiology, Istanbul, Turkey, [5]University of Istanbul, Cerrahpasa Medical Faculty, Biochemistry, Istanbul, Turkey

Benefitial effect of molecular hydrogen and hypoxic postconditioning on ischemia reperfusion injury of isolated rat hearts (C01-6)

M. Zálešák, J. Graban, B. Kura, D. Pancza, T. Ravingerová, J. Slezák
Institute for Heart Research, SAS, Department of Cardiovascular Physiology and Pathophysiology, Bratislava, Slovakia

The effects of zofenopril on cardiac function and pro-oxidative parameters in the streptozotocin-induced diabetic rat heart (C01-7)

V. Zivkovic[1], P. Ristic[2], I. Srejovic[1], T. Nikolic[3], I. Stojic[3], D. Ristic[4], V. Jakovljevic[1]
[1]Faculty of Medical Sciences, University of Kragujevac, Physiology, Kragujevac, Serbia, [2]Military Medical Academy, Belgrade, Endocrinology, Belgrade, Serbia, [3]Faculty of Medical Sciences, University of Kragujevac, Pharmacy, Kragujevac, Serbia, [4]Military Medical Academy, Belgrade, Ophthalmology, Belgrade, Serbia

The long-term effects of atorvastatin on oxidant/antioxidant status of hypehomocysteinemic rats (C01-8)

T. Nikolic[1], V. Zivkovic[2], N. Jeremic[1], J. Jeremic[1], I. Stojic[1], I. Srejovic[2], D. Djuric[3], V. Jakovljevic[2]
[1]Faculty of Medical Sciences, University of Kragujevac, Pharmacy, Kragujevac, Serbia, [2]Faculty of Medical Sciences, University of Kragujevac, Physiology, Kragujevac, Serbia, [3]School of Medicine, University of Belgrade, Institute of Medical Physiology Richard Burian, Belgrade, Serbia

The effects of chronic administration of cisplatin on oxidative stress in isolated rat heart (C01-9)

J. Jeremic[1], I. Stojic[1], T. Nikolic[1], J. Smigic[2], V. Zivkovic[2], I. Srejovic[2], T. Sabo[3], V. Jakovljevic[2]
[1]Faculty of Medical Sciences, University of Kragujevac, Department of Pharmacy, Kragujevac, Serbia, [2]Faculty of Medical Sciences, University of Kragujevac, Department of Physiology, Kragujevac, Serbia, [3]Faculty of Chemistry, University of Belgrade, Department of General and Inorganic Chemistry, Belgrade, Serbia

The effects of modulation of N-methyil-D-aspartate receptors on oxidative status in isolated rat heart (C01-10)

I. Srejovic[1], V. Zivkovic[1], N. Jeremic[2], I. Stojic[2], T. Nikolic[2], D. Djuric[3], V. Jakovljevic[1]
[1]Faculty of Medical Sciences University of Kragujevac, Department of Physiology, Kragujevac, Serbia, [2]Faculty of Medical Sciences University of Kragujevac, Department of Pharmacy, Kragujevac, Serbia, [3]Institute of Medical Physiology "Richard Burian," Faculty of Medicine, University of Belgrade, Belgrade, Serbia

Effect of maturation on resistance of rat hearts to ischemia and effects of classical and remote ischemic preconditioning. study of potential molecular mechanisms (C01-11)

L. Griecsova[1], V. Farkasova[1], L. Lonek[1], I. Gablovsky[1], I. Bernatova[2], T. Ravingerová[1]
[1]Institute for Heart Research SAS, Department of Cardiovascular Physiology and Pathophysiology, Bratislava, Slovakia, [2]Institute of Normal and Pathological Physiology SAS, Bratislava, Slovakia

EMAP II provides restoration of heart function in Langendorff ischemia-reperfusion model. (C01-12)

R. Fedichkina[1], Y. Goshovska[1], A. Kornelyuk[2], V. Sagach[1]
[1]Bogomoletz Institute of Physiology, Circulation, Kyiv, Ukraine, [2]Institute of Molecular Biology and Genetics, Kyiv, Ukraine

Oxidative stress and deficient of nitric oxide synthesis as possible reasons of impaired Frank-Starling low in rat heart due to prolonged lighting (C01-13)

Y. Goshovska, V. Sagach
Bogomoletz Institute of Physiology, Circulation, Kyiv, Ukraine

C02: Vascular physiology

Impaired expression of voltage-gated K^+ channel during early phase of diabetes in the rat mesenteric arterial smooth muscle (C02-1)

W.S. Park
Kangwon National University School of Medicine, Department of Physiology, Chuncheon, Republic of Korea

The vasodilatory effect of repaglinide, a member of meglitinide class anti-diabetic drugs, via activation of PKG and PKA in aortic smooth muscle (C02-2)

M.S. Seo, W.S. Park
Kangwon National University School of Medicine, Physiology, Chuncheon, Republic of Korea

Inhibitory effect of nortriptyline, a tricyclic antidepressant, on voltage-dependent K^+ channels in coronary arterial smooth muscle cells (C02-3)

S.E. Shin, W.S. Park
Kangwon National University School of Medicine, Department of Physiology, Chuncheon, Republic of Korea

The vasorelaxant effect of nateglinide, a member of meglitinide class of anti-diabetic drugs, via activation of voltage-gated K^+ channels in aortic smooth muscle (C02-4)

H. Li, W.S. Park
Kangwon National University School of Medicine, Department of Physiology, Chuncheon, Republic of Korea

The inhibitory effect of dapoxetine, a selective serotonin reuptake inhibitor on voltage-gated K^+ channels in rabbit coronary arterial smooth muscle cells (C02-5)

J.R. An, W.S. Park
Kangwon National University School of Medicine, Department of Physiology, Chuncheon, Republic of Korea

Direct inhibition of the class III anti-arrhythmic agent, amiodarone on voltage-dependent K^+ channels in coronary arterial smooth muscle cells from rabbit (C02-6)

H. Li, S.E. Shin, M.S. Seo, J.R. An, W.S. Park
Kangwon National University School of Medicine, Department of Physiology, Chuncheon, Republic of Korea

CaV1.2 L-type Ca^{2+} channel form a signal complex with Orai1 and TRPC1 in vascular smooth muscle cells: Role in vascular tone regulatio (C02-7)

J. Avila-Medina[1,2,3], E. Calderon-Sanchez[2,3], P. Callejo-García[2], J.A. Rosado[4], T. Smani[1,2,3]
[1]University of Seville/Institute of Biomedicine of Seville, Medical Physiology and Biophysic, Sevilla, Spain, [2]Institute of Biomedicine of Seville, Groupo de Fisiopatología Cardiovascular, Sevilla, Spain, [3]CiberCV, Madrid, Spain, [4]University of Extremadura, Physiology, Caceres, Spain

Effects of PCSK9 inhibitor in obese Zucker (fa/fa) rats. (C02-8)

M. Kosutova, R. Rehakova, M. Cebova, Z. Matuskova, O. Pechanova
Institute of Normal and Pathological Physiology Slovak Academy of Sciences, Bratislava, Slovakia

Protective effects of nanoparticle-loaded renin inhibitor in experimental hypertension (C02-9)

O. Pechanova, M. Cebová, R. Rehakova, S. Vrankova, A. Barta
Institute of Normal and Pathological Physiology, Slovak Academy of Sciences, Department of Neuro-cardiovascular Interactions, Bratislava, Slovakia

Ranolazine improves vascular sensitivity to insulin in rabbit femoral arteries. (C02-10)

C. Aldasoro[1], S. Guerra Ojeda[2], A. Jorda[2], P. Marchio[2], M. Gimeno-Raga[2], M.D. Mauricio[2], S. Valles[2], M. Aldasoro[2], J.M. Vila[2]
[1]Hospital General de Castellon, Medicina Familiar y Comunitaria, Castellon, Spain, [2]University of Valencia, Physiology, Valencia, Spain

Renal vascular Kv7.1 channels – potential targets for renoprotection (C02-11)

R. Schubert, F. Stocker, S. Braun, N. Schmidt
Medical Faculty Mannheim, Heidelberg University, Mannheim, Germany

The Effects of Nifedipine in Heart Injury Induced by Renal Ischemia Reperfusion (C02-12)

A. Tanyeli[1], E. Eraslan[1], E. Polat[2], E. Polat[3], N. Kurt[2]
[1]Atatürk University, Physiology, Erzurum, Turkey, [2]Atatürk University, Biochemistry, Erzurum, Turkey, [3]Atatürk University, Histology and Embryology, Erzurum, Turkey

C03: Molecular & cellular physiology

Iron oxide nanoparticles increase nuclear textural entropy in buccal epithelial cells (C03-1)

I. Pantic[1,2]
[1]University of Belgrade, Faculty of Medicine, Institute of Medical Physiology, Belgrade, Serbia, [2]University of Haifa, Haifa, Israel

Gender-dependent expression of miRNA in human colorectal cancer and adjacent colonic tissues (C03-2)

K. Voglova[1], J. Bezakova[1], R. Reis[2], M. Vician[2], M. Zeman[1], I. Herichova[1]
[1]Faculty of Natural Sciences Comenius University in Bratislava, Department of Animal Physiology and Ethology, Bratislava, Slovakia, [2]University Hospital, Comenius University Bratislava, First Surgery Department, Bratislava, Slovakia

Nanoparticles at the neurovascular unit: in vitro and in vivo studies to assess the blood-brain barrier permeability and function (C03-3)

G. Forcaia[1], R. Dal Magro[1], E. Cesana[1], B. Albertini[2], P. Blasi[2], F. Re[1], G. Sancini[1]
[1]University of Milan Bicocca, School of Medicine and Surgery, Monza, Italy, [2]University of Perugia, Department of Pharmaceutical Sciences, Perugia, Italy

In Vitro Cell Death Discrimination and Screening Method by Simple and Cost-Effective Viability Analysis. (C03-4)

K. Helm[1], M. Beyreis[1], C. Mayr[1,2], M. Ritter[1], M. Jakab[1], T. Kiesslich[1,2], K. Plätzer[3]
[1]Paracelsus Medical University Salzburg, Institute of Physiology and Pathophysiology, Salzburg, Austria, [2]Salzburger Landeskliniken - SALK, Paracelsus Medical University, Department of Internal Medicine I, Salzburg, Austria, [3]University of Salzburg, Department of Materials Science and Physics, Salzburg, Austria

Progesterone and selective membrane progesterone receptor ligands as immunomodulators in human T-lymphocytes (C03-5)

A. Polikarpova[1], I. Levina[2], L. Kulikova[2], I. Morozov[3], P. Rubtsov[3], I. Zavarzin[2], A. Guseva[1], O. Smirnova[1], T. Shchelkunova[1]

[1]Lomonosov Moscow State University, Faculty of Biology, Moscow, Russian Federation, [2]Zelinsky Institute of Organic Chemistry Russian Academy of Sciences, Moscow, Russian Federation, [3]Engelhardt Institute of Molecular Biology Russian Academy of Sciences, Moscow, Russian Federation

Tolfenamic Acid Induces Apotosis by Increasing TNF-alpha Gene Expression in rat hepatocellular carcinoma cells (C03-6)

S. Akın, M. Özkurt, R. Uyar[1], S. Kabadere

Eskişehir Osmangazi University, Physiology, Eskişehir, Turkey

The apoptotic effect of quercetin in human hepatoma cell line HEP3B that Nf-KB pathway suppressed by CAPE (C03-7)

M. Kasit, O. Doğanlar

Trakya University, Faculty of Medicine, Medical Biology, Edirne, Turkey

Trancriptional regulation of metabolic reactions in breast cancer cells (C03-8)

I. Cesleviciene, I. Antanavičiūtė, V. Mikalayeva, G. Milašiūtė, V.A. Skeberdis, S. Bordel Velasco

Lithuanian University of Health Sciences, Institute of Cardiology, Kaunas, Lithuania

Synthesis of New 1,1,3,3-Tetra(4'-oxy-3-substituted-chalcone)-5,5-diphenyl-cyclotriphosphazene Derivatives and Investigation of Their Anti-Cancer Activities (C03-9)

S. Tekin[1], I. Tekin[2], K. Koran[3], A.O. Gorgulu[3], S. Sandal[1]

[1]Inonu University, Physiology, Malatya, Turkey, [2]Inonu University, Public Health, Malatya, Turkey, [3]Firat University, Chemistry, Elazig, Turkey

Effects of N-(p-amylcinnamoyl) anthranilic acid (ACA) on various human cancer cell lines (C03-10)

S. Tekin[1], M. Cakir[2], A. Beytur[1], S. Sandal[1]

[1]Inonu University, Physiology, Malatya, Turkey, [2]Bozok University, Physiology, Yozgat, Turkey

Effects of saxagliptin on human prostate and breast cancer: An in vitro study (C03-11)

S. Tekin[1], A. Beytur[1], M. Cakir[2], S. Sandal[1]

[1]Inonu University, Physiology, Malatya, Turkey, [2]Bozok University, Physiology, Yozgat, Turkey

The influence of enzyme matrix metalloproteinase-9 and innate immune cells in the pathogenesisi of tumor response (C03-12)

I. Mrakovcic-Sutic[1], M. Petkovic[2], A. Bulog[3,4], V. Micovic[3,4], I. Sutic[5], V. Pavisic[1], I. Sutic[3]

[1]Medical Faculty, Department of Physiology and Immunology, Rijeka, Croatia, [2]Medical Faculty, Department of Oncology and Radiotherapy, Rijeka, Croatia, [3]Medical Faculty, Rijeka, Croatia, [4]Medical Faculty, Department of Public Health, Rijeka, Croatia, [5]Medical Faculty, Department of Family Medicine, Rijeka, Croatia

Investigation of the effects of a sulfite molecule on human neuroblastoma cells via a novel oncogene URG4/URGCP (C03-13)

Y. Dodurga[1], M. Seçme[1], C. Eroğlu[2], G. Gündoğdu[3], C. Biray Avcı[4], G. Bağcı[1], V. Küçükatay[1], N.L. Şatıroğlu-Tufan[5], C. Biray Avcı[4]

[1]Pamukkale University Medical Faculty, Denizli, Turkey, [2]Necmettin Erbakan University Medical Faculty, Konya, Turkey, [3]Atatürk University Medical Faculty, Erzurum, Turkey, [4]Ege University Medical Faculty, İzmir, Turkey, [5]Ankara University Medical Faculty, Ankara, Turkey

C04: Endocrine, neuroendocrine and metabolism

The Effects of Thyroid Dysfunction on Nesfatin-1 Levels in Rats (C04-1)

E. Atici[1], E. Menevse[2,1], A.K. Baltaci[2], R. Mogulkoc[2]

[1]Baskent University, Ankara, Turkey, [2]Selcuk University, Konya, Turkey

Experimental Hypothyroidism and Hyperthyroidism Have Similar Affects on Cardiac Irisin Levels in Rats (C04-2)

E. Atici[1,2], E. Menevse[1], A.K. Baltaci[1], R. Mogulkoc[1]

[1]Selcuk University, Konya, Turkey, [2]Baskent University, Ankara, Turkey

Effect of bisphenol a and diethylhexyl phthalate on progesterone secretion by luteal cells (C04-3)

R. Kabakci, A.A. Yigit

Kirikkale University, Faculty of Veterinary Medicine, Department of Physiology, Kirikkale, Turkey

c-AMP during oestrus cycle in rats (C04-4)

V. Antevska

Medical Faculty Skopje, Institute of Physiology, Skopje, The Former Yugoslav Republic of Macedonia

Effect of Zinc and Melatonin on Oxidative Stress and Serum Inhibin-B Levels in a Rat Testicular Torsion-Detorsion Model (C04-5)

A. Semercioz[1], A.K. Baltaci[2], R. Mogulkoc[2], M.C. Avunduk[3]

[1]Bagcilar Training and Research Hospital, Urology, Istanbul, Turkey, [2]Selcuk University Medical School, Physiology, Konya, Turkey, [3]Faculty of Meram Medicine, Necmettin Erbakan University, Pathology, Konya, Turkey

Combined Effects of Flavonoid Fisetin and Endocrine Disruptor Bisphenol A on Progesterone Production by Granulosa Cells (C04-6)

A. Bujnakova Mlynarcikova, S. Scsukova
Biomedical Research Center SAS, Institute of Experimental Endocrinology, Bratislava, Slovakia

Determining the Correlation between Thyroid Hormone and Adropine Hormone in Rats which received Cold Restraint Stress (C04-7)

M.C. Guler[1], A. Tanyeli[1], E. Eraslan[1], T. Nacar[1], E. Polat[2]
[1]Ataturk University, Physiology, Erzurum, Turkey, [2]Ataturk University, Biochemistry, Erzurum, Turkey

Thyroid axis functioning is associated with health status and shorter survival of brain tumor patients (C04-8)

A. Bunevicius, S. Tamasauskas, V. Deltuva, A. Tamasauskas
Lithuanian University of Health Sciences, Kaunas, Lithuania

Pregnancy induced changes in innate immuniy during autoimmune thireoid disease (C04-9)

I. Mrakovcic-Sutic[1], T. Bogovic Crncic[1], S. Grbac Ivankovic[1], V. Pavisic[2], I. Sutic[3]
[1]Medical Faculty, Department of Nuclear Medicine, Rijeka, Croatia, [2]Medical Faculty, Department of Physiology and Immunology, Rijeka, Croatia, [3]Medical Faculty, Department od Family Medicine, Rijeka, Croatia

Comparison of extraction methods for measurement of hair cortisol (C04-10)

T. Atçali[1], S. Yildiz[2], C. Uçar[2], S. Uğraş[2]
[1]Bingöl University, Bingöl, Turkey, [2]İnönü University Faculty of Medicine, Physiology, Malatya, Turkey,

Lengths of the menstrual cycle and menstruation are positively correlated with general tiredness in long-term entrained students (C04-11)

S. Uğraş, C. Uçar, T. Atçalı, S. Yildiz
İnönü University Faculty of Medicine, Malatya, Turkey

C05: Sports & exercise physiology

The Effect of Resveratrol Supplementation on Element Metabolism in Bone Tissue of Rats with Acute Swimming Exercise (C05-1)

A.K. Baltaci[1], D. Cinarli[1], R. Mogulkoc[1], S. Patlar[2], S.B. Baltaci[1]
[1]Selcuk University Medical School, Physiology, Konya, Turkey, [2]Selcuk University, Sport Sciences, Konya, Turkey

Cardiorespiratory fitness effect on cerebral oxygenation in chronic obstructive pulmonary patients (C05-2)

O. Dupuy[1], Q. Bretonneau[1], J.-C. Meurice[2], F. Caron[2,3], C. de Bisschop[1]
[1]Université de Poitiers, Laboratoire MOVE EA 6314, Poitiers, France, [2]Service de Pneumologie, Centre Hospitalier Universitaire de Poitiers, Poitiers, France, [3]Centre de réadaptation du Moulin Vert, Nieuil l'Espoir, France

Effects of Acute Exhaustive Exercise on Oxidant and Antioxidant System Parameters in Rats with Streptozotocin Induced Diabetes Mellitus (C05-3)

A.M. Sahin[1], O.F. Sonmez[1], M. Mengi[1], M. Altan[1], M.S. Toprak[2], H. Ekmekci[2], G. Metin[1], L. Cakar[3]
[1]Istanbul University Cerrahpasa Faculty of Medicine, Physiology, İstanbul, Turkey, [2]Istanbul University Cerrahpasa Faculty of Medicine, Biochemistry, İstanbul, Turkey, [3]Sanko University School of Medicine, Physiology, Gaziantep, Turkey

Diving response after a one-week diet and overnight fasting (C05-4)

A. Di Giacomo, G. Ghiani, G. Palazzolo, S. Roberto, F. Tocco
University of Cagliari, Cagliari, Italy

Relationship between regular exercise-induced cardiac hypertrophy and microRNA (C05-5)

M. Pala[1], M. Altan[2], O.F. Sonmez[2], M. Mengi[2], S. Dincer[3], F. Akbas[4], M. Yıldız[5], M. Kumaş[6], M. Esrefoglu[6], G. Metin[2]
[1]Biruni University Faculty of Medicine, Physiology, Istanbul, Turkey, [2]Istanbul University Cerrahpasa Faculty of Medicine, Physiology, İstanbul, Turkey, [3]Istanbul University Istanbul Medical Faculty, Sports Medicine, İstanbul, Turkey, [4]Bezmialem Vakıf University Medical Faculty, Medical Biology, Istanbul, Turkey, [5]Istanbul University, Institute of Cardiology, İstanbul, Turkey, [6]Bezmialem Vakıf University Medical Faculty, Histology, Istanbul, Turkey

Prognostic Value of 6-Minute Walk Test in children with congenital anemia (C05-6)

K. Ayed[1], S. Yahyaoui[2], S. Mokaddem[1], S. Ben Jemaa[1], I. L. Hadj Khalifa[1], S. Ben Khamsa Jamaleddine[1]
[1]Abderrahman Mami Hospital, Department of Respiratory Fonctionnal Explorations, Ariana, Tunisia, [2]Bechir Hamza Children's Hospital, Service of Infantile Medicine, Bab Saadoun, Tunisia

Case Study of a Male Ocean Racer: body composition and nutritional intake during world solo sailing record attempt (C05-7)

G. Ghiani, S. Magnani, V. Pinna, A. Doneddu, G. Sainas, F. Tocco, A. Crisafulli
Università Cagliari, Scienze mediche e sanità pubblica, Cagliari, Italy

Vtamin C supplementation mitigates diving-induced changes in cerebral circulation (C05-8)

O. Barak[1], K. Caljkusic[2], R. Hoiland[3], S. Thom[4], P. Jovanov[5], T. Mijacika[2], Z. Dujic[2]
[1]Faculty of Medicine University of Novi Sad, Department of Physiology, Novi Sad, Serbia, [2]University of Split School of Medicine, Split, Croatia, [3]University of British Columbia, Okanagan Campus, Kelowna, Canada, [4]University of Maryland, School of Medicine, Baltimore, Maryland, Baltimore, United States, [5]Institute of Food Technology in Novi Sad, Novi Sad, Serbia

The Investigation of the Effects of Mask and Mouthpiece Types with Different Dead Space Volumes on the Energy Expenditure Measurements (C05-9)

Z. Altinkaya[1], U. Dal[1], N. Ozel[2]
[1]Mersin University, Faculty of Medicine, Department of Physiology, Mersin, Turkey, [2]Mersin University, Faculty of Medicine, Department of Biostatistics and Medical Informatic, Mersin, Turkey

The contraction-induced hypertrophic response of myostatin suppression is intrinsically impaired in myotubes from obese individuals. (C05-10)

T. Nicholson[1], H. Palfrey[1], C. Chruch[2], D. Baker[2], S. Jones[1]
[1]University of Birmingham, Institute of Inflammation and Ageing, Birmingham, United Kingdom, [2]Medimmune, Cardiovascular and Metabolic Disease (CVMD), Cambridge, United Kingdom

The Effects of Voluntary Physical Activity in Female Rats Fed with Fructose Rich Diet (C05-11)

P. Tayfur[1], K. Gokce[2], S. Yilmaz[2], O. Barutcu[2], E.O. Ozgur[2], N. Sut[3], S.A. Vardar[1]
[1]Trakya University Medical Faculty, Physiology, Edirne, Turkey, [2]Trakya University Medical Faculty, Edirne, Turkey, [3]Trakya University Medical Faculty, Biostatistics, Edirne, Turkey

Effects of Exercise on ADAMTS-4 and ADAMTS-5 Levels in Sport Horses (C05-12)

S. Kandir[1], G. Tekin[2], C. Er[3], S. Karakurt[2]
[1]Cukurova University, Ceyhan Faculty of Veterinary Medicine, Physiology, Adana, Turkey, [2]Selcuk University, Faculty of Science, Biochemistry, Konya, Turkey, [3]Petibör Veterinary Clinic, Internal Medicine, Istanbul, Turkey

Eight-weeks of treadmill exercise ameliorates neuropathic pain in diabetic rats (C05-13)

O. F. Kalkan, Y. E. Surmeneli, O. Aktas, B. P. Yucel, A. Ayar
Karadeniz Technical University, Physiology, Trabzon, Turkey

C07: Gastrointestinal physiology

Effect of Pinealectomy and Melatonin Supplementation on Metallothionein, Zinc Transport Protein Levels in the Small Intestine Sections of the Rat (C07-1)

O. Unal[1], A.K. Baltaci[1], R. Mogulkoc[1], M.C. Avunduk[2]
[1]Selcuk University Medical School, Physiology, Konya, Turkey, [2]Necmettin Erbakan University, Pathology, Konya, Turkey

Comparative study between esophageal hypomotility and inefficient esophagus about 420 cases (C07-2)

W. Kacem
University of Medicine of Tunis, Physiology, Tunis, Tunisia

Investigation of anticancer mechanism of isoorientin isolated from eremurus spectabilis leaves in HT-29 human colorectal adenocarcinoma cells (C07-3)

G. Gundogdu[1], Y. Dodurga[2], L. Elmas[2], S. Yilmaz Taşci[1], E. S. Karaoglan[3]
[1]Ataturk University, Physiology, Erzurum, Turkey, [2]Pamukkale University, Medical Biology, Denizli, Turkey, [3]Ataturk University, Department of Pharmaceutical Botany, Faculty of Pharmacy, Erzurum, Turkey

Association between chromatin fractal lacunarity and nuclear envelope circularity in mice hepatocytes (C07-4)

J. Paunovic[1], D. Vucevic[1], T. Radosavljevic[1], I. Pantic[2,3]
[1]University of Belgrade, Faculty of Medicine, Institute of Pathological Physiology, Belgrade, Serbia, [2]University of Belgrade, Faculty of Medicine, Institute of Medical Physiology, Belgrade, Serbia, [3]University of Haifa, Haifa, Israel

VX-809 restores the alcohol-induced expression defect of cystic fibrosis transmembrane conductance regulator in Capan-1 cells (C07-5)

A. Grassalkovich[1], J. Maléth[1], T. Madácsy[1], P. Pallagi[1], V. Venglovecz[2], Z. Rakonczay Jr.[3], P. Hegyi[3]
[1]University of Szeged, 1st Department of Medicine, Szeged, Hungary, [2]University of Szeged, Department of Pharmacology and Pharmacotherapy, Szeged, Hungary, [3]University of Pécs, Institute for Translational Medicine and 1st Department of Medicine, Szeged, Hungary

The cytotoxic and genotoxic effects of daidzein in MIA PaCa-2 human pancreatic carcinoma cells (C07-6)

G. Gundogdu [1], Y. Dodurga [2], M. Cetin[3], M. Secme [2], B. Cicek[1]
[1]Atatürk University, Physiology, Erzurum, Turkey, [2]Pamukkale University, Department of Medical Biology, Faculty of Medicine, Denizli, Turkey, [3]Atatürk University, Department of Pharmaceutical Technology, Faculty of Pharmacy, Erzurum, Turkey

Mechanism of glutamate secretion on the pancreatic juice by acinar cells (C07-7)

D. Gluch, S. Camargo
University of Zurich, Physiology, Zurich, Switzerland

Investigation of the pancreatic ductal ion secretion in pancreatic ductal organoid cultures (C07-8)

R. Molnár, L. Alsardih, J. Fanczal, T. Madácsy, P. Hegyi, J. Maléth
University of Szeged, First Department of Internal Medicine, Szeged, Hungary

Role Of Vagal Afferents On High Fat Diet Induced Alterations in Rat Behaviour And Gut Motility (C07-9)

Y. Öztürk[1], B. Akgün[1], O. Çetin[1], H. Karataş[1], B. Güney[1], Z.N. Özdemir Kumral[2], D. Özbeyli[2], S. Arabacı Tamer[2], H. Zortul[3], F. Arıcıoğlu[3], B. Ç Yeğen[2], N. İmeryüz[4,2]
[1]Marmara University, Medicine, Istanbul, Turkey, [2]Marmara University, Physiology, Istanbul, Turkey, [3]Marmara University, Pharmacy, İstanbul, Turkey, [4]Marmara University, Gastroenterology, Istanbul, Turkey

Fluid and HCO3-secretion and CFTR activity are inhibited by cigarette smoke extract in guinea pig pancreatic ductal cells (C07-10)

D. Tálas[1], P. Pallagi[1], V. Venglovecz[2], E. Gál[1,2], K. Tóth[1], A. Schnúr[1], J. Maléth[1], D. Csupor[3], Z. Rakonczay Jr.[1,4], P. Hegyi[1,5,6]

[1]University of Szeged, First Department of Medicine, Szeged, Hungary, [2]University of Szeged, Department of Pharmacology and Pharmacotherapy, Szeged, Hungary, [3]University of Szeged, Department of Pharmacognosy, Szeged, Hungary, [4]University of Szeged, Department of Pathophysiology, Szeged, Hungary, [5]University of Pécs, Institute for Translational Medicine & First Department of Medicine, Pécs, Hungary, [6]MTA-SZTE, Translational Gastroenterology Research Group, Szeged, Hungary

C14: Ion channels

Different modulation of the excitability of hippocampal and cerebellar neurons by a fibrotic scar model (C14-1)

L. Lacinova[1], K. Ondacova[1], L. Lapinova[1], D. Jurkovicova[2]

[1]Center of Biosciences, Institute of Molecular Physiology and Genetics, Bratislava, Slovakia, [2]Biomedical Research Center, Cancer Research Institute, Bratislava, Slovakia

Glycine Uptake via Sodium/Neutral Amino Acid Transporters Activates a Swelling-Dependent Anion Conductance in Microglial Cells (C14-2)

M. Jakab[1], M. Kittl[1,2], M. Beyreis[1], H. Dobias[1,3], M. Gaisberger[1,3], M. Ritter[1,4], H. Kerschbaum[2]

[1]Paracelsus Medical University, Institute of Physiology and Pathophysiology, Salzburg, Austria, [2]University of Salzburg, Department of Cellular Biology, Division of Molecular and Cellular Neurobiology, Salzburg, Austria, [3]Paracelsus Medical University, Gastein Research Institute, Salzburg, Austria, [4]Ludwig Boltzmann Cluster for Arthritis and Rehabilitation, Department for Radon Therapy Research, Salzburg, Austria

Noradrenaline Suppresses a Cl^- Current as well as Phagocytosis in Murine Microglia (C14-3)

K. Michael[1,2], M. Jakab[3], T.S. Steininger[2], M. Beyreis[1], M. Ritter[1,4], H.H. Kerschbaum[2]

[1]Paracelsus Medical University, Institute of Physiology and Pathophysiology, Salzburg, Austria, [2]University of Salzburg, Department of Cellular Biology, Division of Molecular and Cellular Neurobiology, Salzburg, Austria, [3]Paracelsus Medical University Salzburg, Institute of Physiology and Pathophysiology, Salzburg, Austria, [4]Ludwig Boltzmann Cluster for Arthritis and Rehabilitation, Department for Radon Therapy Research, Salzburg, Austria

Cloxyquin is a selective and state-dependent activator of TWIK-related spinal cord K^+ channel (TRESK) (C14-4)

M. Lengyel, A. Dobolyi, G. Czirják, P. Enyedi

Semmelweis University, Physiology, Budapest, Hungary

Ion channels in anticancer drugs painful side effects (C14-5)

A. Cophignon[1], S. Naik[1], N. Milosavljevic[2], M. Poët[1], L. Counillon[1]

[1]LP2M/CNRS-UMR7370, Nice, France, [2]The University of Manchester, Manchester, United Kingdom

C15: Other

Evaluation of estradiol level and serum lipids in white wistar rats of female gender during their generative life (C15-1)

S. Petrovska, B. Dejanova, S. Mancevska, J. Pluncevic-Gligorovska

Faculty of Medicine, Department of Physiology, Skopje, Macedonia, The Former Yugoslav Republic of Macedonia

Discovery of a new voltage-gated proton channel (C15-2)

G. Chaves[1,2], C. Derst[3], A. Franzen[2], Y. Mashimo[4], R. Machida[4], B. Musset[1]

[1]PMU Nürnberg, Institut für Physiologie, Nürnberg, Germany, [2]Forschungszentrum Jülich, ICS-4, Jülich, Germany, [3]Universität zu Köln, Zoologisches Institut, Köln, Germany, [4]University of Tsukuba, Sugadaira Montane Research Center, Ueda, Japan

The determination of interaction between naringin and different chemotherapy agents in neuroblastoma and astrocyte cell lines (C15-3)

N.P. Turker[1], Z.B. Doganlar[2]

[1]Trakya University, Technology Research and Application Center (TUTAGEM), Edirne, Turkey, [2]Trakya University, Medicinal Biology, Edirne, Turkey

Critical analysis of dietary habits in people with type 2 diabetes (C15-4)

K. Inchirah

Faculty of Sciences of Bizerte, Biology, Bizerte, Tunisia

C16: Neuro-immunology

Association of TNFAIP3 and TRAF1 polymorphisms with susceptibility to systemic lupus erythematosus and rheumatoid arthritis in Egyptian Population. (C16-1)

A. Ismeil

Faculty of Medicine, Physiology Department, Sinnar, Sudan

Antibodies against vimentin – an early biomarker of ischemia? (C16-2)

S.A. Türkoglu, M.N. Öğün, E. Karabörk, H.S. Orallar, S. Yıldız

Abant Izzet Baysal University, Bolu, Turkey

C18: Teaching & e-learning

Near-Peer Teaching Program in Medical Physiology at Comenius University (C18-1)

S. Hnilicova[1], A.I. Daponte[1], P. Vitovič[2], A. Dal Grande[1], F. Schmitt[1], Y. Senoo[1], P. Hnilica[3], D. Ostatnikova[1]

[1]Comenius University in Bratislava, Institute of Physiology, Bratislava, Slovakia, [2]Faculty of Medicine, Comenius University, Department of Simulations and Virtual Medical Education, Bratislava, Slovakia, [3]SI Medical, Bratislava, Slovakia

Team-Based Learning in Medical Physiology (C18-2)

M. Geiger

Medical University Vienna, Department of Vascular Biology and Thrombosis Research, Vienna, Austria

11:00–13:00 / Hall C1

Symposium 12: Current trends in cell therapy for functional recovery of the diseased heart

Kindly supported by

Organizer: N. D. Ullrich (Heidelberg, Germany); Co-chair: B. Yilmaz (Istanbul, Turkey)

11:00

Cardiac Bone Marrow-Derived Cell-based Therapy associated with scaffold for Heart Repair (S12-1)

M.-N. Giraud

University of Fribourg, Cardiology, Fribourg, Switzerland

11:30

Excitation-Contraction Coupling Plasticity in Pluripotent Stem Cell-Derived Cardiac Myocytes (S12-2)

C. Terracciano

University, Medicine, London, United Kingdom

12:00

Generation and functional characterization of human induced pluripotent stem cell-derived pacemaker cell clusters (S12-3)

P. Schweizer[1], F. Darche[1], M. Koenen[2], H. Katus[1], D. Thomas[1]

[1]University Hospital Heidelberg, Cardiology, Heidelberg, Germany, [2]Max-Planck Institute for Medical Research, Neurobiology, Heidelberg, Germany

12:30

Monomeric adiponectin modulates nitric oxide release and calcium movements in porcine aortic endothelial cells in normal/high glucose conditions (S12-4 (O))

E. Grossini

University East Piedmont, Novara, Italy

12:45

TRPC – NFAT signaling inhibition mediates the cardiac anti-fibrotic effect of polyphenols (S12-5 (O))

Y. Saliba[1], J. Hajal[1], S. Chacar[1,2], R. Maroun[2], V. Smayra[3], N. Fares[1]

[1]Université Saint Joseph - Faculté de Médecine, Laboratoire de Recherche en Physiologie et Physiopathologie, Beirut, Lebanon, [2]Université Saint Joseph - Faculté des Sciences, Centre d'Analyses et de Recherche, Unité de Recherche Technologie et Valorisation Alimentaire, Beirut, Lebanon, [3]Université Saint Joseph - Faculté de Médecine, Beirut, Lebanon

11:00–12:30 / Hall C2

Symposium 13: Place navigation in dynamic world in healthy and disordered brain: focus on cognitive coordination and behavioral flexibility

Organizer: J. Svoboda (Prague, Czech Republic); Co-chair: A. Balashova (Nizhny Novgorod, Russian Federation)

11:00

Spatial memory and cognitive control and flexibility deficits in animal models of schizophrenia and obsessive-compulsive disorder (S13-2)

S. Kubik[1], A. Stuchlík[1,2]

[1]Institute of Physiology, Czech Academy of Sciences, Prague, Czech Republic, [2]National Institute of Mental Health, Klecany, Czech Republic

11:30

Impaired cognitive coordination and behavioral flexibility in first episode schizophrenia patients: navigation in dynamic environment (S13-3)

I. Fajnerova[1], M. Rodriguez[1], D. Levčík[2], J. Horáček[1], A. Stuchlík[2], K. Vlček[2]

[1]National Institute of Mental Health, Klecany, Czech Republic, [2]Institute of Physiology, The Czech Academy of Sciences, Prague, Czech Republic

12:00
The relationship between heart rate variability and symptoms severity in children with autism spectrum disorders (S13-4 (O))

D. Filcikova[1], A. Kubranska[1], H. Celusakova[1], D. Ostatnikova[1], B. Mravec[1,2]

[1]Comenius University in Bratislava, Institute of Physiology, Bratislava, Slovakia, [2]Slovak Academy of Sciences, Institute of Experimental Endocrinology, Bratislava, Slovakia

12:15
Interacting Networks for Time Perception and Working Memory (S13-5 (O))

S. Üstün[1], E.H. Kale[2], M. Çiçek[1,2]

[1]Ankara University Faculty of Medicine, Physiology, Ankara, Turkey, [2]Ankara University Brain Research Center, Ankara, Turkey

11:00–13:00 / Hall A

Symposium 14: Cardiovascular oscillations: from signal to physiological interpretation

Organizer: M. Javorka (Martin, Slovakia); Co-chair: E. Stankevicius (Kaunas, Lithuania)

11:00
Simultaneous characterization of sympathetic and cardiac arms of the baroreflex during incremental head-up tilt (S14-1)

A. Porta[1,2], V. Bari[2], B. De Maria[3], G. Ranuzzi[2], M. Esler[4], E. Lambert[4], M. Baumert[5]

[1]University of Milan, Department of Biomedical Sciences for Health, Milan, Italy, [2]IRCCS Policlinico San Donato, Department of Cardiothoracic, Vascular Anesthesia and Intensive Care, San Donato Milanese, Milan, Italy, [3]IRCCS Istituti Clinici Scientifici Maugeri, Istituto di Milano, Milan, Italy, [4]Baker IDI Heart and Diabetes Institute, Human Neurotransmitter Laboratory, Melbourne, Australia, [5]University of Adelaide, School of Electrical and Electronic Engineering, Adelaide, Australia

11:30
Cardiorespiratory interactions are responsible for both mechanical and nervous cardiovascular oscillations (S14-2)

M. Elstad

Institute of Basic Medical Sciences, University of Oslo, Oslo, Norway

12:00
Beat-to-beat QT interval variability and autonomic activity. (S14-3)

M. Baumert

The University of Adelaide, Adelaide, Australia

GENERAL INFORMATION
WEDNESDAY
THURSDAY
FRIDAY

12:30
Light at night increases blood pressure response to norepinephrine in hypertensive rats (S14-4 (O))

L. Molcan, H. Sutovska, M. Zeman

Comenius University, Department of Animal Physiology and Ethology, Bratislava, Slovakia

12:45
Angiotensin II promotes K_v7.4 channels degradation through reduced interaction with HSP90 (S14-5 (O))

V. Barrese, J. Stott, H. Figueiredo, I. Greenwood

St George's University of London, London, United Kingdom

11:00–13:00 / Hall B

Symposium 15: The cellular and molecular mechanisms controlling skeletal muscle plasticity

Organizer: R. Bottinelli (Pavia, Italy); Co-chair: K. Hilber (Vienna, Austria)

11:00
Cellular and molecular mechanisms controlling muscle mass and metabolism (S15-1)

M. Sandri

Venetian Institute of Molecular Medicine, Biomedical Science, Padova, Italy

11:30
The control of skeletal muscle insulin sensitivity and protein turnover in disuse and inflammation (S15-2)

P. Greenhaff

University of Nottingham, Life Sciences, Nottingham, United Kingdom

12:00
Skeletal muscle cell populations and regeneration (S15-3)

A. Mackey[1,2]

[1]University of Copenhagen, Dept of Biomedical Sciences, Copenhagen, Denmark, [2]Bispebjerg Hospital, Institute of Sports Medicine, Copenhagen, Denmark

12:30
Functional state of muscle mitochondria in patients with preclinical cognitive deficiency (S15-4 (O))

M. Nemec[1], D. Máderová[1], P. Krumpolec[1], Z. Sumbalová[2,3], M. Vician[4], L. Slobodová[5], M. Schön[5], B. Ukropcová[5,1], J. Ukropec[1]

[1]Slovak Academy of Sciences, Institute of Experimental Endocrinology, Bratislava, Slovakia, [2]Faculty of Medicine Comenius University, Pharmacobiochemical Laboratory, Bratislava, Slovakia, [3]Medical University of Innsbruck, Daniel Swarovski Research Laboratory, Innsbruck, Austria, [4]Slovak Medical University, Department of Surgery, Bratislava, Slovakia, [5]Faculty of Medicine Comenius University, Institute of Pathological Physiology, Bratislava, Slovakia

12:45
Effects of eccentric and concentric trainings on brain-derived neurotrophic factor (BDNF) signaling in cognition-related brain regions (S15-5 (O))

M. Pedard[1,2], G. Ennequin[3], C. Marie[1]

[1]U1093 Cognition, action et plasticité sensorimotrice, Dijon, France, [2]CHU François Mitterrand, Neurologie, Dijon, France, [3]EA4267 Fonctions et dysfonctions épithéliales, Besançon, France

13:00 – 14:00
Lunch break

14:00 – 16:00 / Hall C1
Symposium 16: Exciting mechanisms of neuroglial excitability

Organizer: R. Zorec (Ljubljana, Slovenia); Co-chair: M. Fischer (Vienna, Austria)

14:00
Ionic signalling and astroglial function (S16-1)

A. Verkhratsky

The University of Manchester, Manchester, United Kingdom

14:30
Adrenergic activation of astrocytes shapes calcium and camp signalling affecting cell morphology and glycolysis (S16-2)

N. Vardjan[1,2], A. Horvat[1], R. Zorec[1,2]

[1]University of Ljubljana, Faculty of Medicine, Institute of Pathophysiology (LN-MCP), Ljubljana, Slovenia, [2]Celica Biomedical, LCI, Ljubljana, Slovenia

15:00
Protein astrogliopathies in human neurodegenerative diseases and aging (S16-3)

G. Kovacs

Medical University Vienna, Vienna, Austria

15:30
Lysophosphatidic acid activates peripheral glial cells (S16-4 (O))

L. Gebhardt[1], J. Robering[1], A. Kremer[2], M. Fischer[3]

[1]Friedrich-Alexander-University of Erlangen-Nürnberg, Institut for Physiologie and Pathophysiologie, Erlangen, Germany, [2]Friedrich-Alexander-University of Erlangen-Nürnberg, Department of Medicine 1, Erlangen, Germany, [3]Medical University of Vienna, Center for Physiology and Pharmacology, Vienna, Austria

15:45
Pharmacological modulation of the fusion pore of exo- and endocytotic vesicles in cultured rat astrocytes (S16-5 (O))

E. Lasic[1], M. Stenovec[1], B. Rituper[1], J. Jorgačevski[1], M. Kreft[1], P. Robinson[2], R. Zorec[1]

[1]Institute of Pathophysiology, Medical Faculty, University of Ljubljana, Ljubljana, Slovenia, [2]University of Sydney, Sydney Medical School, Sydney, Australia

14:00 – 16:00/ Hall C2
Symposium 17: Monocyte subsets in cardiovascular biology

Kindly supported by

Organizer: J. Wojta (Vienna, Austria); Co-chair: C. Bunu (Timisoara, Romania)

14:00
Monocyte subsets in man and mice (S17-1)

L. Ziegler-Heitbrock

Monocytomics Research, Herrsching, Germany

14:30
The role of monocyte subsets in atherosclerosis (S17-2)

W. Speidl

Medical University of Vienna, Vienna, Austria

15:00
Monocyte subsets in cardiac disease and repair (S17-3)

E. Shantsila

University of Birmingham Institute of Cardiovascular Sciences, City Hospital, Birmingham, United Kingdom

15:30

Injured renal epithelium cell fate and inflammation are controlled by *de novo* expressed Notch3 (S17-4 (O))

P. Kavvadas[1], Z. Keuylian[1], J.-C. Dussaule[2,1], N. Prakoura[1], S. Placier[1], C. Chadjichristos[1], C. Chatziantoniou[1]

[1]University UPMC, Paris, France, [2]AP-HP Paris, Physiology, Paris, France

15:45

Endothelial IkB Kinase 2 in Atherosclerosis (S17-5 (O))

M. Mussbacher, M. Salzmann, M. Kuttke, U. Resch, J. Basilio, B. Hoesel, A. Assinger, J. Schmid

Medical Univercity Vienna, Vascular Biology and Thrombosis Research, Vienna, Austria

14:00 – 16:00/ Hall A

Symposium 18: Retina Degeneration: New technologies for the bionic retina

Organizer: F. Benfenati (Genova, Italy); Co-chair: L. Hunyady (Budapest, Hungary)

14:00

The new Retina Implant Alpha AMS: How does it work and what can blind patient see? (S18-1)

E. Zrenner[1], K.U. Bartz-Schmidt[1], T. Edwards[2], F. Gekeler[1,3], R.E. MacLaren[2], J. Roider[4], H. Sachs[5], K. Stingl[1]

[1]University of Tuebingen, Center for Ophthalmology, Tuebingen, Germany, [2]University of Oxford John Radcliffe Hospital, Dept. of Ophthalmology, Oxford, United Kingdom, [3]Katharinen Hospital, Dept. of Ophthalmology, Stuttgart, Germany, [4]University of Kiel, Dept. of Ophthalmology, Kiel, Germany, [5]Klinikum Friedrichstadt, Dept. of Ophthalmology, Dresden, Germany

14:30

Subretinal prosthesis and optogenetic therapy: Functional validation on the primate retina (S18-2)

S. Picaud

Institut de la vision, Paris, France

15:00

A fully organic retinal prosthesis restores vision in a rat model of degenerative blindness (S18-3)

J.F. Maya-Vetencourt[1], D. Ghezzi[1], M.R. Antognazza[2], E. Colombo[1], M. Mete[3], P. Feyen[1], A. Desii[2], A. Buschiazzo[4], M. Di Paolo[5], S. Di Marco[5], F. Ticconi[4], L. Emionite[6], D. Shmal[1], C. Marini[7], I. Donelli[8], G. Freddi[8], R. Maccarone[5], S. Bisti[5], G. Sambuceti[4], G. Pertile[3], G. Lanzani[2], F. Benfenati[1]

[1]Italian Institute of Technology, Synaptic Neuroscience and Technologies, Genova, Italy, [2]Italian Institute of Technology, Nanoscience and Technology, Milan, Italy, [3]Sacro Cuore Hospital Don Calabria, Ophthalmology Center, Negrar, Italy, [4]University of Genova, Nuclear Medicine, Genova, Italy, [5]University of L'Aquila, Biotechnology and Applied Clinical Science, Aquila, Italy, [6]IRCCS AOU San Martino-IST, National Institute Cancer Research, Genova, Italy, [7]Consiglio Nazionale Della Ricerca, Institute of Molecular Bio-imaging and Physiology, Genova, Italy, [8]Innovhub-SSI, Silk Division, Milan, Italy

15:30

Chromatin Shannon entropy in peripheral blood lymphocytes increases after UV-induced DNA damage (S18-4 (O))

I. Pantic[1,2], P. Vuksanovic[3], A. Petkovic[3], S. Pantic[3]

[1]University of Belgrade, Faculty of Medicine, Institute of Medical Physiology, Belgrade, Serbia, [2]University of Haifa, Haifa, Israel, [3]University of Belgrade, Faculty of Medicine, Belgrade, Serbia

15:45

Data Driven Graph-Theoretical Reconstruction and Quantification of 2D and 3D Tree-Like Biological Structures (S18-5 (O))

R. Markovič[1,2], M. Gosak[1,3], E. Roux[4,5], M. Marhl[1,3,6]

[1]University of Maribor, Faculty of Natural Sciences and Mathematics, Department of Physics, Maribor, Slovenia, [2]The Faculty of Energy Technology, Krško, Slovenia, [3]University of Maribor, Faculty of Medicine, Institute of Physiology, Maribor, Slovenia, [4]Université de Bordeaux, Biology of Cardiovascular Diseases U1034, Pessac, France, [5]INSERM, Biology of Cardiovascular Diseases U1034, Pessac, France, [6]University of Maribor, Faculty of Education, Department of Elementary Education, Maribor, Slovenia

14:00 – 16:00 / Hall B

Short Talks 2: High-rated abstracts

Chairs: H. H. Chowdhury (Ljubljana, Slovenia); I. Drenjancevic (Osijek, Croatia)

14:00

Reduction of fractal complexity in lymphocyte chromatin architecture during oxidopamine - induced apoptosis (ST2-1)

I. Pantic[1,2], P. Vuksanovic[3], J. Paunovic[4], D. Vucevic[4], T. Radosavljevic[4], S. Pantic[3]

[1]University of Belgrade, Faculty of Medicine, Institute of Medical Physiology, Belgrade, Serbia, [2]University of Haifa, Haifa, Israel, [3]University of Belgrade, Faculty of Medicine, Belgrade, Serbia, [4]University of Belgrade, Faculty of Medicine, Institute of Pathological Physiology, Belgrade, Serbia

14:15

Streptozotocin-induced diabetic rats the effect of Ganoderma Lucidum polysaccharides on oxidative damage in the liver. (ST2-2)

H. A. Eroglu[1], E. Beytut[1,2]

[1]Kafkas University, Medicine Faculty, Kars, Turkey, [2]Erzincan Univesity, Erzincan, Turkey

14:30

Podocyte-expressed stat5 confers protection during experimental glomerulonephritis and adriamycin nephropathy in mice (ST2-3)

K. Louis, Y. Luque, A. Corchia, S. Placier, Y.C. Xu-Dubois, S. Vandermeersch, E. Rondeau, L. Mesnard

Inserm UMRS 1155 Hopital Tenon, Paris, France

14:45

Exercise restores diabates-mediated contractile dysfunction of isolated rat seminal vesicle (ST2-4)

Y. E. Surmeneli[1], A. Kurt[1], O.f. Kalkan[2], B. P. Yucel[1], V. Keles[1], A. Ayar[2]

[1]Karadeniz Technical University/Institute of Health Sciences, Department of Physiology, Trabzon, Turkey, [2]Karadeniz Technical University Faculty of Medicine, Department of Physiology, Trabzon, Turkey

15:00

High intensity interval training in cardiac rehabilitation: A randomized controlled trial investigating platelet function (ST2-5)

S. Heber[1], A. Assinger[1], B. Fischer[1], R. Pokan[2], I. Volf[1]

[1]Medical University of Vienna, Institute for Physiology, Vienna, Austria, [2]University of Vienna, Department of Sport Science, Vienna, Austria

15:15

Partial Loss of A20 exacerbates IFNγ dependent Transplant Arteriosclerosis through De-Regulation of IFNβ. (ST2-6)

H. Moll[1], A. Lee[2], E. Casanova[1], C. Ferran[2]

[1]Medical University of Vienna, Center for Physiology and Pharmacology, Vienna, Austria, [2]Beth Israel Deaconess Medical Center - Harvard Medical School, Center for Vascular Biology Research, Boston, United States

15:30

Regulation of Two-pore Domain K^+ Channels by Natural Effectors and Pharmacological Agents (ST2-7)

M. Schewe[1], F. Schulz[1], U. Mert[1], H. Sun[2], H. Belabed[3], M. Musinszki[1], T. Köhler[1], M. Tegtmeier[1], M. Nazare[3], E.P. Carpenter[4], S.J. Tucker[5], T. Baukrowitz[1]

[1]Christian-Albrechts-University of Kiel, Institute of Physiology, Kiel, Germany, [2]Leibniz-Institute for Molecular Pharmacology (FMP), Computational Chemistry / Drug Design, Berlin, Germany, [3]Leibniz-Institute for Molecular Pharmacology (FMP), Medicinal Chemistry, Berlin, Germany, [4]University of Oxford, Nuffield Department of Medicine, Oxford, United Kingdom, [5]University of Oxford, Department of Physics, Oxford, United Kingdom

15:45

The Effects of Adropine Application in Rats on Nutrient Intake and Water Consumption (ST2-8)

E. Eraslan[1], M.C. Güler[1], A. Tanyeli[1], T. Nacar[1], E. Polat[2]

[1]Atatürk University, Physiology, Erzurum, Turkey, [2]Ataturk University, Biochemistry, Erzurum, Turkey, [3]Atatürk University, Histology and Embryology, Erzurum, Turkey

16:00 – 17:00

Poster Session D

PLEASE NOTE:

Posters can be mounted from 13:45, should be mounted until 15:30 and have to be removed at the end of the corresponding poster session at 18:30; otherwise they can be removed by the organizers. Fixing material will be provided and distributed in the poster area. There will be no guided poster tour but presenting authors are requested to stay at their posters during the viewing session for discussions.

D01: Cardiac physiology

Serotonergic 5-HT2B receptors in mitral valvulopathy: bone marrow mobilization of endothelial progenitors (D01-1)

R. Lawson[1], E. Ayme-Dietrich[1], L. Maroteaux[2], L. Monassier[1]

[1]University of Strasbourg, Department of Pharmacology, Strasbourg, France, [2]University Pierre Marie Curie, Paris, France

Cardioprotective effect of Aqueous Viscum album extract on isoproterenol induced myocardial infarction in rats (D01-2)

E. Suveren[1], H.y. Cinpolat[2], F. Yilmaz[3]

[1]Abant Izzet Baysal University, Healthcare Sciences, Nursing Dept., Bolu, Turkey, [2]Abant Izzet Baysal University, Clinical Biochemistry, Bolu, Turkey, [3]Abant Izzet Baysal University, Clinical Pathology, Bolu, Turkey

Effects of the nitric oxide donor s-nitrosoglutathione and acute local ventricular stretch on isolated rabbit heart. (D01-3)

L. Such-Miquel[1], I. Del Canto[2], M. Zarzoso[1], L. Brines[3], C. Soler[3], G. Parra[3], A. Tormos[4], A. Alberola[3], L. Such[3], F.J. Chorro[2,5]

[1]Universitat de València, Physiotherapy, Valencia, Spain, [2]INCLIVA, Valencia, Spain, [3]Universitat de València, Physiology, Valencia, Spain, [4]Universitat Politècnica de València, Electronics Engineering, Valencia, Spain, [5]Universitat de València, Medicine, Valencia, Spain

Extracellular diadenosine tetraphosphate affects contractility and cytoplasm calcium level via proteinkinase C pathway (D01-4)

K. Pustovit[1,2], N. Pakhomov[1], V. Kuzmin[1,2]

[1]Lomonosov Moscow State University, Department of Human and Animal Physiology, Moscow, Russian Federation, [2]Pirogov Russian National Research Medical University, Department of Physiology, Moscow, Russian Federation

Effect of anti-HMGB1 protein in experimental myocardial infarction (D01-5)

M. Cebova, A. Barta, M. Kosutova, O. Pechanova
Institute of Normal and Pathological Physiology Slovak Academy of Sciences, Laboratory of Neuro-cardiovascular Interaction, Bratislava, Slovakia

Impact of simvastatin on lipid and non-lipid biochemical risk factors in diet-induced hyperhomocisteinemia in wistar albino rats (D01-6)

V. Jakovljevic[1], T. Nikolic[2], V. Zivkovic[1], N. Jeremic[2], J. Jeremic[2], I. Stojic[2], I. Srejovic[1], D. Djuric[3]
[1]Department of Physiology, Faculty of Medical Sciences, University of Kragujevac, Serbia, Kragujevac, Serbia, [2]Faculty of Medical Sciences, University of Kragujevac, Departmet of Pharmacy, Kragujevac, Serbia, [3]School of Medicine, University of Belgrade, Department of Physiology, Belgrade, Serbia

Investigation of the Effects of Some Calcium Channel Blockers on in vivo, in vitro and Ischemia / Reperfusion Injured Rat Heart Acetylcholinesterase Enzyme (D01-7)

E. Eraslan[1], M. Senturk[2], A. Tanyeli[1], M. C. Güler[1], D. Ekinci[3]
[1]Atatürk University, Physiology, Erzurum, Turkey, [2]Ibrahim Cecen University, Chemistry, Agri, Turkey, [3]Ondokuz Mayis University, Agricultural Biotechnology, Samsun, Turkey

Association of α-adrenoeceptor Polymorphisms with Cardiac Autonomic Control (D01-8)

Z. Turianikova[1], B. Czippelova[1], J. Krohova[1], Z. Lazarova[1], Z. Snahnicanova[2], Z. Lasabova[2], M. Javorka[1]
[1]Comenius University, Jessenius Faculty of Medicine in Martin, BioMed, Department of Physiology, Martin, Slovakia, [2]Comenius University, Jessenius Faculty of Medicine in Martin, Biomed, Department of Molecular Biology, Martin, Slovakia

Influence of thioacetamide administration on autonomic control of the heart atria in rats (D01-9)

E. Mistrova[1], D. Jarkovska[1], M. Bludovska[2], D. Kotyzova[2], V. Krizkova[3], T. Kubikova[1], M. Chottova Dvorakova[1]
[1]Faculty of Medicine in Pilsen, Charles University, Biomedical Center, Pilsen, Czech Republic, [2]Faculty of Medicine in Pilsen, Charles University, 3Department of Pharmacology and Toxicology, Pilsen, Czech Republic, [3]Faculty of Medicine in Pilsen, Charles University, Department of Histology and Embryology, Pilsen, Czech Republic

Effects of Sertraline in Healthy and Damaged Rat Aorta (D01-10)

A. Koç, Z. I. Solak Gormus, H. Solak, R. Ozen Koca, Z. Sahin, N. Gormus, S. Kutlu
Necmettin Erbakan University, Physiology, Konya, Turkey

Possible Effects of Sertraline on Human Heart Muscle Contractility: An in vitro experimental study (D01-11)

H. Solak, Z.i. Solak Gormus, R. Ozen Koca, A. Koc, A. Karaibrahimoglu, S. Kutlu, N. Gormus
Necmettin Erbakan University, Meram Faculty of Medicine, Physiology Department, Konya, Turkey

Cerebral oxygenation in Metabolic Syndrome patients during mental task and muscles metaboreflex activation: a preliminary study (D01-12)

S. Roberto, A. Doneddu, V. Pinna, R. Lecis, M. Guicciardi, F. Velluzzi, S. Vanni, G. Sainas, S. Magnani, A. Crisafulli
University of Cagliari, Department of Medical Sciences and Public Health, Cagliari, Italy

A method for isolation of functional human ventricular myocytes from fresh epicardial biopsies (D01-13)

J. Marinovic[1], C. Bulat[2,1], M. Cavar[1], D. Bakovic[3,1], M. Ljubkovic[1]
[1]University of Split School of Medicine, Physiology, Split, Croatia, [2]Split University Hospital, Cardiac Surgery, Split, Croatia, [3]Split University Hospital, Cardiology, Split, Croatia

D02: Vascular physiology

Crowding stress results in long-term vascular and behavioral alterations of in prehypertensive rats (D02-1)

I. Bernatova, A. Puzserova, P. Balis, N. Sestakova, M. Kluknavsky
Institute of Normal and Pathological Physiology, Slovak Academy of Sciences, Bratislava, Slovakia

Enhanced inhibition of endothelial cell proliferation and migration by multikinase inhibitor and blocking of metabolism (D02-2)

J. Horvathova, R. Moravcik, M. Zeman
Faculty of Natural Sciences, Comenius University, Department of Animal Physiology and Ethology, Bratislava 4, Slovakia

Cholinesterases in rat aorta (D02-3)

K. Szmicseková, Z. Kiliánová, D. Dingová, J. Vetešková, J. Šranková, L. Piváčková, P. Křenek, A. Hrabovská
Faculty of Pharmacy of Comenius University, Dpt. of Pharmacology and Toxicology, Bratislava, Slovakia

Levamisole, a cocaine adulterant, impairs acetylcholine dependent relaxation in the rabbit renal artery (D02-4)

S. Guerra-Ojeda, P. Marchio, M. Gimeno-Raga, M. Aldasoro, S.L. Valles, A. Jordá, C. Aldasoro, M.D. Mauricio, J.M. Vila
University of Valencia, Department of Physiology, Valencia, Spain

Acute adrenergic effects of levamisole, a cocaine adulterant, in rabbit carotid artery (D02-5)

S. Guerra-Ojeda, P. Marchio, M. Gimeno-Raga, M. Aldasoro, S.L. Valles, M.D. Mauricio, C. Aldasoro, A. Jordá, J.M. Vila
University of Valencia, Department of Physiology, Valencia, Spain

Protein expression of HIF-1 alpha, VEGF and cyclooxygenases in cerebral blood vessels of Sprague-Dawley rats on a short-term high salt diet (D02-6)

Z. Mihaljević[1], A. Ćosić[1], N. Bilić-Dujmušić[1], L. Prenek[2], P. Engelmann[2], M. Baus Lončar[3], I. Drenjančević[1]

[1]Faculty of Medicine, Josip Juraj Strossmayer University of Osijek, Department of Physiology and Immunology, Osijek, Croatia, [2]University of Pecs, Institute of Immunology and Biotechnology, Pecs, Hungary, [3]Ruđer Bošković Institute, Department of Molecular Medicine, Zagreb, Croatia

Remodeling of coronary artery network during quercetin supplementation (D02-7)

F. Lonyi[1], A. Monori-Kiss[1], G. Pasti[1], E. Monos[1], G. Nadasy[2]

[1]Semmelweis University, Institute of Clinical Experimental Research, Budapest, Hungary, [2]Semmelweis University, Department of Physiology, Budapest, Hungary

Age-related changes in endothelial function of pulmonary arteries in an experimental model of essential hypertension (D02-8)

A. Puzserova[1], A. Zemancikova[1], P. Balis[1], J. Radosinska[2,3], I. Bernatova[1], M. Kluknavsky[1], M. Kvandova[1], J. Torok[1]

[1]Institute of Normal and Pathological Physiology SAS, Bratislava, Slovakia, [2]Institute of Physiology, Faculty of Medicine, Comenius University, Bratislava, Slovakia, [3]Institute for Heart Research SAS, Bratislava, Slovakia

Tissue oxygenation modulates muscle compression-induced hyperaemia (D02-9)

A. Messere[1], W. Franco[2], D. Maffiodo[2], G. Ceravolo[2], C. Ferraresi[2], S. Roatta[1]

[1]University of Turin, Neuroscience, Turin, Italy, [2]Politecnico di Torino, Mechanical and Aerospace Engineering, Torino, Italy

Different structural alterations in conduit arteries of spontaneously hypertensive rats compared to Wistar rats from the prehypertensive period to late adulthood (D02-10)

F. Kristek, M. Drobna, S. Cacanyiova

Institute of Normal and Pathological Physiology, Slovak Academy of Sciences, Bratislava, Slovakia

Quercetin supplementation moderates hypertension induced remodeling of coronary artery network (D02-11)

A. Monori-Kiss[1], F. Lonyi[1], L. Danics[1], E. Monos[1], G. Nadasy[2]

[1]Semmelweis University, Institute of Clinical Experimental Research, Budapest, Hungary, [2]Semmelweis University, Department of Physiology, Budapest, Hungary

Exploring the murine microvascular response variability to hyperoxia with the wavelet transform (D02-12)

H. Silva[1,2], H. Ferreira[3], A.-P. Gadeau[4], L. Monteiro Rodrigues[1,2]

[1]CBIOS / Universidade Lusófona, Lisboa, Portugal, [2]Universidade de Lisboa / Faculty of Pharmacy, Pharmacol. Sc. Dep., Lisboa, Portugal, [3]Universidade de Lisboa / Faculdade de Ciências, IBEB, Lisboa, Portugal, [4]Université de Bordeaux & INSERM, U1034, Adaptation cardiovasculaire à l'ischémie, Pessac, France

D03: Molecular & cellular physiology

The Role of Palmitoylation in Glutamate-Mediated Excitotoxicity in Neurodegenerative Diseases (D03-1)

S. Wordie

University of Edinburgh, Centre for Integrative Physiology, Edinburgh, United Kingdom

Cellular Calcium Balance in Chronic Kidney Disease (D03-2)

I. Lajdova[1], V. Spustova[1], A. Oksa[1], D. Chorvat[2], M. Morvova Jr.[3], L. Sikurova[3], A. Marcek Chorvatova[2,4]

[1]Slovak Medical University, Department of Clinical and Experimental Pharmacotherapy, Bratislava, Slovakia, [2]International Laser Centre, Department of Biophotonics, Bratislava, Slovakia, [3]Comenius University, Department of Nuclear Physic and Biophysics, Bratislava, Slovakia, [4]University of Ss. Cyril and Methodius, Department of Biotechnology, Trnava, Slovakia

An Investigation into the Effects of Extracellular Acidification on Mouse Uterine Contractions; Are ASICs involved? (D03-3)

A. Almohanna, S. Wray

University of Liverpool, ITM, Liverpool, United Kingdom

The effects of the luteal cells cocultured with islet cells on cell viability and functionality in rats* (D03-4)

A.A. Yigit, G. Boyuk

Kirikkale University/Faculty of Veterinary Medicine, Physiology, Kirikkale, Turkey

Role and transcription profiles of α1 and β2 adrenergic receptors in tissues of yellow and silver European eels (D03-5)

E. Fabbri[1], P. Valbonesi[1], A. Kiwan[2], S. Franzellitti[1]

[1]University of Bologna, BIGEA, Bologna, Italy, [2]Univ of Bologna, CIRI, Ravenna, Italy

A new animal model for epithelial ion transport modeling (focusing on CFTR) – wild type ferrets (D03-6)

E. Tóth[1], J. Maléth[1], P. Pallagi[1], V. Venglovecz[2], Z. Rakonczay[3], P. Hegyi[4,5]

[1]University of Szeged, First Department of Medicine, Szeged, Hungary, [2]University of Szeged, Department of Pharmacology and Pharmacotherapy, Szeged, Hungary, [3]University of Szeged, Department of Pathophysiology, Szeged, Hungary, [4]University of Szeged, MTA-SZTE Momentum Translational Gastroenterology Research Group, Szeged, Hungary, [5]University of Pécs, Institute for Translational Medicine/1st Department of Medicine, Pécs, Hungary

Interactions of cyclic adenosine monophosphate production and store operated Ca^{2+} entry (D03-7)

J. Fanczal[1], T. Madácsy[1], P. Hegyi[2], S. Muellem[3], J. Maléth[1]

[1]University of Szeged, 1st department of medicine, Szeged, Hungary, [2]University of Pécs, Institute for Transl. Med. &1st Dep. of Medicine, Pécs, Hungary, [3]NIDCR, NIH, Epithelial Signaling and Transport Section, Molecular Physiology and Therapeutics Branch, Bethesda, Maryland, United States

Investigation of protective effect of parietin against glutamate excitotoxicity in primary cortical neuron culture (D03-8)

G. Gundogdu[1], A. Taghizadehghalehjoughi[2], O. Senol[3], B. Cicek[1], K. A. Nalci[4], A. Hacimuftuoglu[4]
[1]Atatürk University, Medical Science /Physiology, Erzurum, Turkey, [2]Ataturk University, Veterinary Medicine, Erzurum, Turkey, [3]Ataturk University, Faculty of Pharmacy - Analytical Chemistry, Erzurum, Turkey, [4]Ataturk University, Medical Science - Pharmacology, Erzurum, Turkey

Association analysis between A163G and T245G gene polymorphisms of osteoprotegerin and bone mineral density in Turkish postmenopausal women (D03-9)

O. Palabiyik[1], F. Ozdemir[2], B. Tokuc[3], T. Sipahi[1], D. Demirbag Kabayel[4]
[1]Trakya University Faculty of Medicine, Department of Biophysics, Edirne, Turkey, [2]Biruni University Faculty of Medicine, Department of Physical Medicine and Rehabilitation, Istanbul, Turkey, [3]Trakya University Faculty of Medicine, Public Healthy, Faculty of Medicine, Edirne, Turkey, [4]Trakya University Faculty of Medicine, Department of Physical Medicine and Rehabilitation, Edirne, Turkey

Cell penetrating protein C inhibitor (PCI): Internalization, nuclear translocation, and potential intracellular targets (D03-10)

M. Geiger, H. Yang, M. Furtmüller, B. Sokolikova, F. Wahlmüller
Medical University Vienna, Department of Vascular Biology and Thrombosis Research, Vienna, Austria

Significance of co-expression of transient receptor potential vanilloid 4 and aquaporin5 in pregnant uterine contractility in rats (D03-11)

E. Ducza[1], A. Csányi[1], V. Szőke[2], Z. Tiszai[1], R. Gáspár[1]
[1]University of Szeged, Szeged, Hungary, [2]University of Pécs, Pécs, Hungary

Sex, age and weight as determinants of plasma DNA: a cross-sectional study (D03-12)

B. Konecna, V. Lenka, L. Janovičová, B. Vlková, P. Celec
Comenius University, Bratislava, Slovakia

The role of aquaporin-4 e isoform in the regulation of rapid cell volume changes in astrocytes (D03-13)

M. Lisjak[1], M. Potokar[1,2], B. Rituper[1], J. Jorgačevski[1,2], R. Zorec[1,2]
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D06: Respiratory physiology

Exogenous surfactant enriched with anti-IL-8 antibody additionally improved lung functions in experimental meconium-induced lung injury (D06-1)

P. Mikolka, J. Kopincova, P. Kosutova, M. Kolomaznik, A. Calkovska, D. Mokra
Comenius University, Jessenius Faculty of Medicine, Department of Physiology and Biomedical Center Martin, Martin, Slovakia

Effects of inhaled roflumilast and tadalafil on airway reactivity and inflammation in ovalbumin-sensitized guinea pigs (D06-2)

J. Mokry[1], A. Urbanova[1], M. Kertys[1], I. Medvedova[1], P. Mikolka[2], P. Kosutova[2], D. Mokra[2]
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Comparison of three types of lung-protective ventilation in an experimental model of meconium aspiration syndrome (D06-3)

D. Mokra[1], P. Mikolka[1], P. Kosutova[1], M. Kolomaznik[1], K. Matasova[2], M. Zibolen[2], A. Calkovska[1]
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Oxidative and inflammatory modifications in the extra-pulmonary organs associated with primary acute lung injury (D06-4)

S. Rezáková, P. Mikolka, J. Kopincová, P. Košútová, A. Čalkovská, D. Mokrá
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Exogenous superoxide dismutase in the surfactant treatment of experimental meconium aspiration syndrome (D06-5)

J. Kopincova, P. Mikolka, P. Kosutova, M. Kolomaznik, A. Calkovska, D. Mokra
Comenius University, Jessenius Faculty of Medicine, Department of Physiology and Biomedical Center Martin, Martin, Slovakia

Effects a phosphodiesterase-4 inhibitor on the inflammation and oxidative stres in an experimental model of acute lung injury (D06-6)

P. Košútová, P. Mikolka, M. Kolomazník, A. Čalkovská, D. Mokrá
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Exogenous surfactant reduces endotoxin-induced inflammation and oxidative stress in rat lungs (D06-7)

M. Kolomaznik, I. Zila[1], P. Kosutova, J. Kopincova, P. Mikolka, D. Mokra, A. Calkovska
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The effects of Simvastatin on Galectin-3 and TBARS in Lung Tissue during Endotoxemia (D06-8)

H. Yorulmaz[1], G. Ates Ulucay[2,3], E. Kaptan[4], E. Ozkok[5], S. Tamer[3]
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The Effect of Splenectomy on Lung Inflammation in Rats: The Protective Role of Curcumin (D06-9)

G. Simsek[1], Y. Altınel[2], V. Sozer[3], P. Uysal[4], M. Altan[1], O.F. Sonmez[1], A. Oruc[1], A. Caglar[5], R. Gelisgen[6], C. Simsek[7], H. Uzun[6]
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Effect of lipopolysaccharide on alveolar epithelial type II cells (D06-10)

Z. Nová[1,2], D. Mokrá[1,2], E. Vidomanová[2], M. Kolomazník[1,2], H. Škovierová[2], E. Halašová[2,3], A. Čalkovská[1,2]
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D08: Behavioral and cognitive neuroscience

How the Emotional Status of the Emoji Characters Affect the Process of Response Activation? (D08-1)

D. D. Koyuncu, T. Ergenoglu, G. Ceylan
Mersin University, Faculty of Medicine, Department of Physiology, Mersin, Turkey

The Effects of Preceding Context on the Processes of Response Inhibition in Healthy Adults (D08-2)

G. Ceylan, D. D. Koyuncu, T. Ergenoglu
Mersin University, Faculty of Medicine, Department of Physiology, Mersin, Turkey

The efficacy of autism-risk screening of young children in slovak population sample (D08-3)

H. Celusakova, S. Hnilicova, A. Kubranska, D. Filcikova, M. Vidosovicova, K. Babinska, D. Ostatnikova[1]
Comenius University Faculty of Medicine, Institute of Physiology, Bratislava, Slovakia

Levels of Faecal Calprotectin Correlate With Behavioural Markers in a Sample of Individuals with Autism Spectrum Disorders from Slovakia (D08-4)

K. Babinska, A. Tomova, H. Celusakova, J. Babkova, G. Repiska, M. Vidosovicova, D. Filcikova, S. Hnilicova, D. Ostatnikova
Comenius University, Faculty of Medicine, Institute of Physiology, Bratislava, Slovakia

Study of Acylcarnitine Profile in Dry Blood Sample of Children with Autism Spectrum Disorders (D08-5)

M. Vidosovicova[1], K. Babinska[1], S. Hnilicova[1], G. Addova[2], R. Gorova[2], I. Waczulikova[3], L. Siklenkova[1], G. Lakostikova[1], D. Ostatnikova[3]
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Low dose caffeine protects from psychological stress and improves cognitive function (D08-6)

O. Kasimay Cakir[1], N. Ellek[1], N. Salehin[1], R. Hamamci[1], H. Keles[1], D.G. Kayali[2], D. Akakin[2], M. Yuksel[3], D. Ozbeyli[1]
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Long shift hours was associated with increased attention performance in pediatric registrars (D08-7)

P. Çakan, S. Yildiz
Inonu University, Malatya, Turkey

Influence of Green tea extract and Passiflora, on heart rate and fatigue sensation, in intense mental stress (D08-8)

R.-N. Jurcau[1], I.-M. Jurcau[2], N.-A. Colceriu[3]
[1]"Iuliu Hatieganu" University of Medicine and Pharmacy, Pathophysiology, Cluj-Napoca, Romania, [2]Emergency Clinical Hospital for Children, Pathology, Cluj-Napoca, Romania, [3]University of Agricultural Sciences and Veterinary Medicine, Viticulture, Cluj-Napoca, Romania

Evaluation of the influence of Romanian product "Emotional comfort" on facial expressions impact, in acute physical stress (D08-9)

R.-N. Jurcau[1], I.-M. Jurcau[2], N.-A. Colceriu[3]

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D11: Blood

The effects of long-term and short-term water and food deprivation on blood antioxidant defense system (D11-1)

I. Matiulko, E. Khirazova, A. Bayzhumanov

Lomonosov Moscow State University, Biology, Moscow, Russian Federation

Investigation of the effects of major autohemotherapy ozone application on erythrocyte deformability and aggregation (D11-3)

I.H. Akbudak, V. Kucukatay, O. Kilic-Erkek, Y. Ozdemir, M. Bor-Kucukatay

Pamukkale University Faculty of Medicine, Physiology, Denizli, Turkey

Enhancement of erythrocyte deformability after dark chocolate ingestion in healthy humans. (D11-4)

J. Radosinska[1,2], M. Horvathova[3], K. Frimmel[2], J. Muchova[3], M. Vidosovicova[1], R. Vazan[1], I. Bernatova[4]

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The effects of hyperbaric oxygen therapy on the erythrocyte osmotic deformability (Osmoscan) parameters in patients with various disorders. (D11-5)

N. Ertan[1,2], B. Mirasoglu[3], M. Sinan[2], M. Koc[4], O. Yalcin[4]

[1]Istanbul University, Istanbul Faculty of Medicine, Physiology, Istanbul, Turkey, [2]Aydin University, Faculty of Medicine, Physiology, Istanbul, Turkey, [3]Istanbul University, Istanbul Faculty of Medicine, Department of Underwater and Hyperbaric Medicine, Istanbul, Turkey, [4]Koc University, Faculty of Medicine, Physiology, Istanbul, Turkey

In Vitro Effects of Some Pesticides on Some Human Carbonic Anhydrases (D11-6)

M. C. Guler[1], E. Eraslan[1], A. Tanyeli[1], M. Senturk[2]

[1]Ataturk University, Physiology, Erzurum, Turkey, [2]Ibrahim Cecen University, Chemistry, Agri, Turkey

Investigation of the Effects of Gossypin on *in vivo*, *in vitro* and Ischemia / Reperfusion Injured Rat Erythrocytes Carbonic Anhydrase Enzyme (D11-7)

A. Tanyeli[1], E. Eraslan[1], M. C. Guler[1], M. Senturk[2], L. Katagöz[3]

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Investigation of the Effect of Carbonic Anhydrase of Ischemia/Reperfusion Injured Rat (D11-8)

E. Eraslan[1], M. C. Guler[1], A. Tanyeli[1], M. Senturk[2]

[1]Ataturk University, Physiology, Erzurum, Turkey, [2]Ibrahim Cecen University, Chemistry, Agri, Turkey,

Nurses have higher blood leucocyte counts following night-shift works (D11-9)

P. Cakan, S. Yildiz

Inonu University, Malatya, Turkey

Evaluation of effects of hyperthermic intraperitoneal chemotherapy treatment on erythrocyte deformability (D11-10)

D. Kalaycı[1], A. Küçük[2], O. Şen[1], F.M. Çomu[3], M. Arslan[4], Y. Ünal[4]

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The effects of HES 130 / 0,4 application on erythrocyte deformability in ureteral obstructed rats (D11-11)

I. Güneş[1], A. Küçük[2], F.M. Çomu[3], V. Şıvgın[4], M. Alkan[4], M. Arslan[4], Y. Ünal[4]

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IκB Kinase 2 impairs Platelet Activation (D11-12)

M. Salzmann[1], M. Mussbacher[1], W.C. Schrottmaier[1,2], J.B. Kral-Pointner[1,3], B. Hoesel[1], A. Assinger[1], J.A. Schmid[1]

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D15: Other

The physiological reaction by interaction of human body anatomical axes results in tissue function normalization - a feature of human body axis sensation (D15-1)

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Hypoglycemic and hypolipidemic effects of apple cider vinegar in Tunisian type 2 diabetic patients. (D15-2)

H. Ben Hmad [1], S. Khlifi[1], H. Ben Jemaa[1], H. Jemmousi[1,2], F. Ben Slama[1], A. Abdallah[1]

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The BMI1 inhibitor PTC-209 is a potential compound to halt cellular growth in biliary tract cancer cells (D15-3)

C. Mayr[1], A. Wagner[2], M. Löffelberger[1], D. Bruckner[3], M. Jakab[1], F. Berr[1], P. Di Fazio[4], M. Ocker[5], D. Neureiter[6], M. Pichler[7], T. Kiesslich[2,1]

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The effect of Napabucasin on cancer stem cells in biliary tract cancer (D15-4)

M. Beyreis[1], K. Helm[1], H. Dobias[1], M. Jakab[1], M. Ritter[1], D. Neureiter[2], T. Kiesslich[1,3], C. Mayr[1,3]

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The histone-modification complex G9a and its role in biliary tract cancer/ cholangiocarcinoma (D15-5)

K. Helm[1], C. Mayr[1,2], M. Beyreis[1], M. Ritter[1], M. Jakab[1], E. Klieser[3], T. Kiesslich[1,2], D. Neureiter[3]

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Development and validation of body composition prediction equations for the prediction of total body water and fat-free mass in North African Arabic children (D15-7)

H. Ben jemaa[1], A. Mankaï [1], S. Khlifi[1], R. Minaoui [1], D. Ghozzi [1], B. Kortobi [1], F. Ben Slama[2], A. Benzarti [1], H. Aguenaou [3], K. El Kari [3], A. Aouidet [1]

[1]Higher School of Health Sciences and Technics, Nutrition Department, Tunis, Tunisia, [2]Institute of Public Health, Tunis, Tunisia, [3]CNESTEN-Ibn Tofaïl University, Joint Unit of Nutrition and Food Research (URAC39), Rabat, Morocco

The effect of kisspeptin fragments in late pregnant uterine function in vitro (D15-8)

J. Hajagos-Tóth, Z. Tiszai, E. Ducza, R. Gáspár

University of Szeged Faculty of Pharmacy, Pharmacodynamics and Biopharmacy, Szeged, Hungary

Interaction of alpha-tocopherol and cyclooxygenase-inhibitors on smooth muscles of rats: the significance of cyclooxygenase-activity in uterus and trachea (D15-9)

A. Kothencz, J. Hajagos-Tóth, R. Gáspár

University of Szeged Faculty of Pharmacy, Pharmacodynamics and Biopharmacy, Szeged, Hungary

The effects of the amoxicillin, fosfomycin and doxycycline on the aquaporin 5 expression in rat uterus before delivery. (D15-10)

A. Csányi, E. Ducza, J. Hajagos-Tóth, R. Gáspár

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Uterine expressions and pharmacological influences of RhoA and Rho-kinases during pregnancy in rats (D15-11)

D. Domokos, E. Ducza, R. Gáspár

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The Relation between Heavy Metals and Lipid Peroxidation Marker in Laryngeal Cancer (D15-12)

A. Yoldas[1], S. Toplan[1], D. Saribal Kanber[1], O. Aslan[2], B. Aydemir[3]

[1]Istanbul University Cerrahpasa Medical Faculty, Biophysics, Istanbul, Turkey, [2]Istanbul University İstanbul Medical Faculty, Head and Neck Surgery, Istanbul, Turkey, [3]Sakarya University Medical Faculty, Biophysics, Sakarya, Turkey

Can projects-based learning in medical biophysics create precondition for better understanding clinical teaching subjects? (D15-13)

E. Kralova, M. Trnka, E. Ferencova, Z. Balazsiova

Faculty of Medicine, Comenius University, Institute of Medical Physics, Biophysics, Informatics and Telemedicine, Bratislava, Slovakia

Prevalence of underweight, thinness, overweight and obesity according to WHO standards, in a group of 100 female Tunisian students (D15-14)

R. Serairi[1,2], K. Ayed[2], D. Sahnoun[1,2], S. Ennaifer[2], S. Jameleddine[2], R. Ksouri[1,2]

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Treatment with estrogen receptor agonist ERß, but not ERα, improves torsion-induced oxidative testis injury in rats (D15-15)

S. Arabaci Tamer, S. Arabaci, S. Ciftci, S. Akin, E. Sari, H. Ahmetoglu, M.K. Koroglu, F. Ercan, M. Yuksel, A. Yildirim, B. Yegen

Marmara University, Istanbul, Turkey

17:00 – 18:00 / Hall C1

Plenary Lecture

Chair: S. Wray (Liverpool, United Kingdom)

Thyroid hormone determination of neural stem cell fate (PL-05)

B. Demeneix

Muséum National d'Histoire Naturelle/CNRS, Paris, France

18:00 – 18:15 / Hall C1

Closing Session

Index of main authors, presenting authors & co-authors

Numbers refer to the ID assigned to the corresponding lecture, symposium talk, oral or poster presentation.

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Deadline for symposia proposals: April 1, 2018
Call for Symposia
XIV European Meeting on
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	WEDNESDAY, 13 SEPTEMBER 2017				THURSDAY, 14 SEPTEMBER 2017	
	HALL C1	HALL C2	HALL A	HALL B	HALL C1	HALL C2
09:00 – 09:30					PLENARY LECTURE: Martin Biel	
09:30 – 10:00	EYPS					
10:00 – 10:30					POSTER SESSION A / BREAK	
10:30 – 11:00		TEACHING SYMPOSIUM				
11:00 – 11:30	BREAK				SYMPOSIUM 5: Exhale negativity-chloride currents in the cardiovascular system *(Kindly supported by the SPS)*	SYMPOSIUM 6: Microvascular mechanisms under different pathophysiological conditions
11:30 – 12:00	EYPS					
12:00 – 12:30						
12:30 – 13:00	LUNCH BREAK for EYPS & Teaching Symposium participants					
13:00 – 13:30					LUNCH BREAK	
13:30 – 14:00	OPENING CEREMONY					
14:00 – 14:30	PLENARY LECTURE: "Rising star lecture", J.F. Maya-Vetencourt				SYMPOSIUM 9: Brute force and signaling: concepts in vascular mechanotransduction *(Kindly supported by the DPG)*	SYMPOSIUM 10: Intracellular Ca^{2+}-compartments in cardiac physiology and disease
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15:00 – 16:00	SYMPOSIUM 1: Mitochondrial and cell membrane Ca^{2+} and Na^{+} signaling in health and disease *(Kindly supported by The Physiological Society (UK))*	SYMPOSIUM 2: Structure and function in islets of Langerhans in health and disease	SYMPOSIUM 3: Cerebrovascular disorders: Pathophysiological and pharmacological approaches	SYMPOSIUM 4: Current developments in the pulmonary circulation		
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17:00 – 17:15	BREAK				PUBLIC LECTURE: Bente Klarlund Pedersen	
17:15 – 18:00	FEPS KEYNOTE LECTURE: Marian Joëls (17:15–18:15)					
18:00 – 19:00						
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22:00 – 23:00						

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						09:30 – 10:00
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						10:30 – 11:00
SYMPOSIUM 7: Recent advances in molecular physiology: metabolomics and beyond	SYMPOSIUM 8: Pain induced by local acidosis	SYMPOSIUM 12: Current trends in cell therapy for functional recovery of the diseased heart *(Kindly supported by the DPG)*	SYMPOSIUM 13: Place navigation in dynamic world in healthy and disordered brain	SYMPOSIUM 14: Cardiovascular oscillations: from signal to physiological interpretation	SYMPOSIUM 15: The cellular and molecular mechanisms controlling skeletal muscle plasticity	11:00 – 11:30
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						13:30 – 14:00
SYMPOSIUM 11: Pancreas: Physiology and disease	SHORTTALKS 1: High-rated abstracts	SYMPOSIUM 16: Exciting mechanisms of neuroglial excitability	SYMPOSIUM 17: Monocyte subsets in cardiovascular biology *(Kindly supported by the AVBO)*	SYMPOSIUM 18: Retina Degeneration: New technologies for the bionic retina	SHORT TALKS 2: High-rated abstracts	14:00 – 14:30
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		PLENARY LECTURE: Barbara Demeneix				17:00 – 17:15
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CONGRESS DINNER						20:00 – 21:00
						21:00 – 22:00
						22:00 – 23:00

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