

JOINT MEETING OF NATIONAL PHYSIOLOGICAL SOCIETIES

**"NEW PERSPECTIVES IN PHYSIOLOGICAL RESEARCH –
YOUNG INVESTIGATOR FORUM"**

Organized by
SERBIAN PHYSIOLOGICAL SOCIETY
HUNGARIAN PHYSIOLOGICAL SOCIETY



CME accredited by the Health Council of Serbia

FINAL PROGRAM

MAY 25-27, 2017, HOTEL GALLERIA,
SUBOTICA, SERBIA

www.physiology.org.rs/eng/htm/konf2017/program.pdf

FOREWORD

Dear Colleagues,

We are very pleased to inform you that joint scientific meeting of national physiological societies, ie. from Hungary and Serbia, will be organized in Subotica. Our wish is having this meeting traditional, and to attract the physiologists from surrounding countries also. This time meeting is more directed to cardiovascular, neurophysiological, endocrinological and gastrointestinal research problems, however other biomedical topics will be also presented.

We remember with great respect that the close scientific cooperation started 13 years ago when Dragan M. Djuric (Vice-President of the *Serbian Physiological Society*) and Vladimir Jakovljevic (Secretary General of the Serbian Physiological Society at that time) were invited to Szeged meeting to present the lecture about endothelial dysfunction and portal hypertension, as well as oxidative stress by the *Hungarian Academy of Sciences*. Before that, Professor Emil Monos, as a president of the *Hungarian Physiological Society* at that time, greatly supported the efforts of the *Serbian Physiological Society*, for reintegration of Serbian physiologists in the family of European physiological societies (Nice, France, 2003) as well as organization of the first national congress of physiological sciences with international participation in Serbia after many years. From that date, *Hungarian Physiological Society* and Professor Emil Monos supported an idea to publish special issues of scientific journal *Acta Physiologica Hungarica* from the congresses and meetings of the *Serbian Physiological Society*, especially with official reports from such events. During last decade we improved our friendship and scientific cooperation, developing bilateral research program and tried to establish joint participation in different EU research programs as well as joint activities in *Federation of European Physiological Societies* and the *International Academy of Cardiovascular Sciences*.

We really hope that this meeting is a unique opportunity for all participants to exchange their ideas and give their own contribution in this fruitful cooperation. Finally, Subotica near Hungarian-Serbian border is not only the town where you will find typical Serbian and Hungarian spirit of life in a peaceful and tolerant atmosphere, but also the place which is known for the worldwide recognized sacral objects, museums, galleries, Palic lake etc.

We appreciate your participation and wishing you warm welcome to Subotica and Vojvodina.

On behalf of the Program/Organizing Committee

Mihaly Boros, Vladimir Jakovljevic and Dragan M. Djuric

PROGRAM & ORGANIZING COMMITTEE CHAIRMEN

Boros M, Szeged, *Program Committee Co-Chairman*
Djuric DM, Belgrade, *Program Committee Co-Chairman*
Jakovljevic V, Kragujevac, *Organizing Committee Chairman*

PROGRAM COMMITTEE MEMBERS

Alavantic D (Vinca)
Andric S (Novi Sad)
Arsenijevic A (Kragujevac)
Arsic A (Belgrade)
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Barak O (Novi Sad)
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Milosevic V (Belgrade)
Mitrovic D (Belgrade)
Mladenovic D (Belgrade)
Monos E (Budapest)
Nadasy G (Budapest)
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Nesic M (Nis)
Nestorovic V (Kosovska Mitrovica)
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Pantic I (Belgrade)
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Prostran M (Belgrade)
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Vucic V (Belgrade)
Vuckovic S (Belgrade)
Zivkovic V (Kragujevac)

CME COORDINATOR

Djuric D (Kragujevac)

SECRETARIAT

Srejovic I (Kragujevac)
Stojic I (Kragujevac)
Nikolic T (Kragujevac)

PROGRAM

THURSDAY, MAY 25th, 2017

Venue: Hotel Galleria, Subotica (participation upon registration only)

16.00-17.00
Arrival/Registration

17.00-17.15

OPENING CEREMONY/WELCOME ADRESSES

Boros M, *Secretary General, Hungarian Physiological Society*

Djuric DM, *President, Program Committee, Serbian Physiological Society*

Jakovljevic V, *President, Executive Board, Serbian Physiological Society*

Tanic N, *Deputy Minister, Ministry of Education, Science and Technological Development of Republic of Serbia*

17.15-17.30

PRESENTATION OF THE SERBIAN PHYSIOLOGICAL SOCIETY AWARD

Professor Mihaly Boros, *Institute of Surgical Research, Faculty of Medicine, University of Szeged, Szeged, Hungary (Awarded for Lifetime Achievement in Physiological Sciences)*

SESSION 1: TRANSLATIONAL AND APPLIED RESEARCH IN PHYSIOLOGICAL SCIENCES

17.30-17.50

NON-BACTERIAL PRODUCTION AND SIGNALLING OF METHANE

Boros M, Mészáros A, Hartmann P, Tuboly E

Institute of Surgical Research, University of Szeged, Szeged, Hungary

17.50-18.10

REPOLARIZATION RESERVE AND SAFETY PHARMACOLOGY

Baczko I, Varro A

Department of Pharmacology and Pharmacotherapy, University of Szeged, Szeged, Hungary

18.10-18.30

THE EFFECTS OF DIFFERENT RAAS MODULATORS ON CARDIAC FUNCTION AND OXIDATIVE STRESS IN STREPTOZOTOCIN-INDUCED DIABETIC RAT HEART

Jakovljevic V¹, Zivkovic V¹, Srejovic I¹, Nikolic T², Vranic A², Stojic I², Ristic P³, Djuric DM⁴

¹*Department of Physiology, Faculty of Medical Sciences, University of Kragujevac, Kragujevac,* ²*Department of Pharmacy, Faculty of Medical Sciences, University of Kragujevac, Kragujevac,* ³*Clinic of Endocrinology, Military Medical Academy, Belgrade,* ⁴*Institute of Medical Physiology "Richard Burian", Faculty of Medicine, University of Belgrade, Belgrade, Serbia*

18.30-18.50

COMPARISON OF THE EFFECTS OF DIFFERENT SULFUR AMINO ACIDS ON CARDIOVASCULAR SYSTEM IN MALE WISTAR RATS

Djuric DM¹, Micovic Z², Stamenkovic A³, Jakovljevic Uzelac J¹, Stojanovic M¹, Scepanovic Lj¹, Mitrovic D¹, Labudovic Borovic M⁴, Krstic D⁵, Colovic M⁶, Obrenovic R⁷, Hadzibegovic A⁸, Kostic S⁸, Sobot T⁹, Jakovljevic V¹⁰

¹*Institute of Medical Physiology "Richard Burian", Faculty of Medicine, University of Belgrade, Belgrade,* ²*Military Health Department, Ministry of Defence, Belgrade,* ³*Faculty of Biology, University of Belgrade, Belgrade (Institute of Cardiovascular Sciences, St. Boniface Hospital Research Center, University of Manitoba, Winnipeg, Canada),* ⁴*Institute of Histology and Embryology "Aleksandar Dj. Kostic", Faculty of Medicine, University of Belgrade, Belgrade,* ⁵*Institute of Chemistry in Medicine "Petar Matavulj", Faculty of Medicine, University of Belgrade, Belgrade,* ⁶*Department of Physical Chemistry, Vinca Institute of Nuclear Sciences, University of Belgrade, Belgrade,* ⁷*Center of Medical Biochemistry, Clinical Center of Serbia, Belgrade,* ⁸*Faculty of Medicine, University of Belgrade, Belgrade,* ⁹*Faculty of Medicine, University of Belgrade, Belgrade,* ¹⁰*Department of Physiology, Faculty of Medicine, University of Banjaluka, Bosnia and Herzegovina,* ¹⁰*Department of Physiology, Faculty of Medical Sciences, University of Kragujevac, Kragujevac, Serbia*

18.50-19.10

THE ROLE OF GENOMIC UNSTABILITY IN NON-SMALL CELL LUNG CARCINOMA PROMOTION AND PROGRESSION

Tanic N, Bankovic J, Stankovic T

Department of Neurobiology, Institute of Biological Research "Sinisa Stankovic", Belgrade, Serbia

20.00

WELCOME RECEPTION/DINNER

SESSION 2: CARDIOVASCULAR PHYSIOLOGY AND EXERCISE – FROM MOLECULES TO THE PREVENTION

(in honor of Professor Emil Monos)

Chairmen: Naumovic N, Nadasy G, Zivkovic V

08.30-08.45

MATRIX METALLOPROTEINASES MMP-2 AND MMP-9 IN CARDIOVASCULAR SYSTEM REMODELING: THEORETICAL CONSIDERATION AND EXPERIMENTAL APPROACH

Gopcevic K

Institute of Chemistry in Medicine "Petar Matavulj", Faculty of Medicine, University of Belgrade, Belgrade, Serbia

08.45-09.00

VITAMIN B COMPLEX MITIGATES CARDIAC DYSFUNCTION IN HIGH METHIONINE DIET INDUCED HYPERHOMOCYSTEINEMIA

Zivkovic V¹, Nikolic T¹, Jeremic N¹, Stojic I¹, Srejovic I², Djuric DM³, Jakovljevic V²

¹Department of Physiology, Faculty of Medical Sciences, University of Kragujevac, Kragujevac, ²Department of Pharmacy, Faculty of Medical Sciences, University of Kragujevac, Kragujevac, ³Institute of Medical Physiology "Richard Burian", School of Medicine, University of Belgrade, Belgrade, Serbia

09.00-09.15

THE SPECIFICS OF THE MODULATION OF N-METHYL-D-ASPARTATE RECEPTORS BY HOMOCYSTEINE IN ISOLATED RAT HEART

Srejovic I¹, Zivkovic V¹, Jeremic N², Stojic I², Nikolic T², Jeremic J², Jakovljevic V², Djuric DM³

¹Department of Physiology, Faculty of Medical Sciences, University of Kragujevac, Kragujevac, ²Department of Pharmacy, Faculty of Medical Sciences, University of Kragujevac, Kragujevac, ³Institute of Medical Physiology "Richard Burian," Faculty of Medicine, University of Belgrade, Belgrade, Serbia

09.15-09.30

THE EFFECTS OF CHRONIC ADMINISTRATION OF CISPLATIN ON CARDIODYNAMIC PARAMETERS AND CORONARY FLOW IN ISOLATED RAT HEARTS

Stojic I¹, Smigic J², Zivkovic V², Srejovic I², Nikolic T², Jeremic J², Sabo T³, Jakovljevic V²

¹Department of Pharmacy, Faculty of Medical Sciences, University of Kragujevac, Kragujevac, ²Department of Physiology, Faculty of Medical Sciences, University of Kragujevac, Kragujevac, ³Department of General and Inorganic Chemistry, Faculty of Chemistry, University of Belgrade, Belgrade, Serbia

09.30-09.45

EFFICENCY OF ATORVASTATIN AND SIMVASTATIN IN IMPROVING OF CARDIAC FUNCTION DURING HYPERHOMOCYSTEINEMIA

Nikolic T¹, Zivkovic V², Jeremic N¹, Jeremic J¹, Stojic I¹, Srejovic I², Djuric DM³, Jakovljevic V²

¹Department of Pharmacy, Faculty of Medical Sciences, University of Kragujevac, Kragujevac, ²Department of Physiology, Faculty of Medical Sciences, University of Kragujevac, Kragujevac, ³Institute of Medical Physiology "Richard Burian", Faculty of Medicine, University of Belgrade, Belgrade, Serbia

09.45-10.00

GENDER-DEPENDENT DIFFERENCES OF TRAINING AND DETRAINING ON CARDIODYNAMICS AND CORONARY FLOW IN ISOLATED RAT HEART

Jeremic J¹, Dragojlovic Ruzicic R², Zivkovic V³, Stojic I¹, Nikolic T¹, Srejovic I³, Jakovljevic V³

¹Department of Pharmacy, Faculty of Medical Sciences, University of Kragujevac, Kragujevac, ²High Medical College of Professional Studies "Milutin Milankovic", Belgrade, ³Department of Physiology, Faculty of Medical Sciences, University of Kragujevac, Kragujevac, Serbia

Pause 10.00-10.15

10.15-10.30

MAGNETIC RESONANCE IMAGING METHODS IN MUSCLE PHYSIOLOGY AND THEIR APPLICATION IN ATHLETES – OUR EXPERIENCE

Popadic Gacesa J

Department of Physiology, Faculty of Medicine, University of Novi Sad, Novi Sad, Serbia

10.30-10.45

HEART RATE VARIABILITY IN WOMEN WITH CHRONIC FATIGUE SYNDROME

Klasnja A¹, Josic J², Klasnja J², Karaba Jakovljevic D¹, Drapsin M¹, Barak O¹

¹Department of Physiology, Faculty of Medicine, University of Novi Sad, ²Faculty of Medicine, University of Novi Sad, Serbia

10.45-11.00

BODY COMPOSITION, ENERGY DEMANDS AND MUSCLE STRENGTH IN PEOPLE ON DIFFERENT DIETARY PATTERNS

Bogdan M¹, Rakovac A¹, Milicev Dj², Vedrana K¹, Klasnja A¹, Drapsin M¹

¹Department of Physiology, Faculty of Medicine, University of Novi Sad, Novi Sad, ²Faculty of Medicine, University of Novi Sad, Novi Sad, Serbia

11.00-11.15

LIPOPROTEIN PROFILE AND LEPTINEMIA IN WOMEN OF DIFFERENT LEVEL OF PHYSICAL ACTIVITY

Karaba Jakovljevic D, Slavic D, Naumovic N, Rakovac A, Bogdan M, Lukac D

Department of Physiology, Faculty of Medicine, University of Novi Sad, Novi Sad, Serbia

11.15-11.30

THE INFLUENCE OF SUPRAPHYSIOLOGICAL DOSES OF NANDROLONE-DECANOATE AND TESTOSTERONE-ENANTHATE ON VARIOUS ASPECTS OF PHYSICAL PERFORMANCE IN RATS

Selakovic D, Joksimovic J, Rosic G

Department of Physiology, Faculty of Medical Sciences, University of Kragujevac, Kragujevac, Serbia

11.30-11.45

QUERCETIN SUPPLEMENTATION MODERATES HYPERTENSION INDUCED REMODELING OF CORONARY ARTERY NETWORK

Monori-Kiss A¹, Lónyi F¹, Danics L¹, Monos E¹, Nádasy G²

¹Institute of Clinical Experimental Research, Semmelweis University, Budapest, ²Department of Physiology, Semmelweis University, Budapest, Hungary

11.45-12.00 Pause

12.00-12.15 EDUCATIONAL LECTURE

PROMINENT ROLE OF PHYSIOLOGY IN HUMAN HEALTH AND ENVIRONMENTAL RISK ASSESSMENT: LESSONS LEARNED FROM THE FP7 PROJECT SOLUTIONS

Kaisarevic S¹, Tenji D¹, Sipos S¹, Míic B¹, Deutschmann B², Seiler TB², Velki M³, Hollert H², Brack W⁴, Teodorovic I¹

¹Laboratory for Ecotoxicology - LECOTOX, Department of Biology and Ecology, Faculty of Sciences University of Novi Sad, Novi Sad, Serbia, ²Department of Ecosystem Analysis, Institute for Environmental Research, RWTH Aachen University, Aachen, Germany, ³Department of Biology, Josip Juraj Strossmayer University of Osijek, Osijek, Croatia, ⁴Department of Effect-Directed Analysis, Helmholtz Center for Environmental Research - UFZ, Leipzig, Germany

SESSION 3: GASTROINTESTINAL AND RENAL PHYSIOLOGY

Chairmen: Blagojevic D, Kaszaki J, Rakonczay Z

12.15-12.35

PANCREATIC DUCTAL CFTR CHANNELS: NOVEL THERAPEUTIC TARGETS IN ACUTE PANCREATITIS

Rakonczay Z¹, Venglovecz V², Pallagi P³, Maléth J³, Hegyi P^{4,5}

¹Department of Pathophysiology, ²Department of Pharmacology and Pharmacotherapy, ³Department of Medicine, ⁴MTA-SZTE Transl. Gastroenterology Research Group, University of Szeged, Szeged, Hungary, ⁵Institute for Translational Medicine, University of Pécs, Pécs, Hungary

12.35-12.50

PATHOMECHANISM OF MICROCIRCULATORY AND MITOCHONDRIAL DYSFUNCTIONS IN SEPSIS - POTENTIAL THERAPEUTIC TARGETS

Kaszaki J¹, Szabó A¹

¹*Institute of Surgical Research, University of Szeged, Szeged, Hungary*

12.50-13.05

METHANE MODULATES XANTHINE OXIDOREDUCTASE-DERIVED NITRIC OXIDE PRODUCTION UNDER ISCHEMIC CONDITIONS

Mészáros AT¹, Stögerer T², Dumitrescu SD², Redl H², Kozlov AV², Boros M¹

¹*Institute of Surgical Research, Faculty of Medicine, University of Szeged, Szeged, Hungary,* ²*Ludwig Boltzmann Institute for Experimental and Clinical Traumatology, AUVA Research Center, Vienna, Austria*

13.05-13.20

METHANE INHALATION ENHANCES ADAPTIVE RESPONSES OF NITRERGIC NEURONS TO INTESTINAL ISCHEMIA-REPERFUSION IN A REGION-DEPENDENT WAY IN RATS

Poles MZ¹, Bódi N², Bagyánszki M², Fekete E², Mészáros A¹, Kozlov A³, Boros M¹, Kaszaki J¹

¹*Institute of Surgical Research, Faculty of Medicine, University of Szeged, Szeged,* ²*Department of Physiology, Anatomy and Neuroscience, Faculty of Science and Informatics, University of Szeged, Szeged,* ³*Ludwig Boltzmann Institute for Experimental and Clinical Traumatology, Vienna, Austria*

13.20-13.35

EARLY IDENTIFICATION OF NON-OCCLUSIVE MESENTERIC ISCHEMIA WITH PHOTOACOUSTIC SPECTROSCOPY

Érces D¹, Szűcs Sz¹, Bari G², Balog D¹, Bozsó N¹, Boros M¹, Varga G¹

¹*Institute of Surgical Research, Faculty of Medicine, University of Szeged, Szeged,* ²*Department of Cardiac Surgery, Faculty of Medicine, University of Szeged, Szeged, Hungary*

13.35-13.50

MESENCHYMAL STEM CELLS REDUCE INFILTRATION OF IL-17 PRODUCING NKT CELLS IN THE LIVER AND ATTENUATE ACUTE LIVER FAILURE IN PARACRINE MANNER

Gazdic M¹, Milosavljevic N², Simovic Markovic B², Arsenijevic A², Acovic A³, Volarevic A², Delic J¹, Stojic I⁴, Kanjevac T³, Jakovljevic V⁵, Arsenijevic N², Lukic ML², Volarevic V²

¹*Department of Genetics, Faculty of Medical Sciences, University of Kragujevac, Kragujevac,* ²*Department of Microbiology and immunology, Center for Molecular Medicine and Stem Cell Research, Faculty of Medical Sciences, University of Kragujevac, Kragujevac,* ³*Department of Dentistry, Faculty of Medical Sciences, University of Kragujevac, Kragujevac,* ⁴*Department of Pharmacy, Faculty of Medical Sciences, University of Kragujevac, Kragujevac,* ⁵*Department of Physiology, Faculty of Medical Sciences, University of Kragujevac, Kragujevac, Serbia*

13.50-14.05

MESENCHYMAL STEM CELLS ATTENUATE CISPLATIN-INDUCED NEPHROTOXICITY IN iNOS DEPENDENT MANNER

Simovic Markovic B¹, Gazdic M², Arsenijevic A¹, Jeremic J³, Volarevic A¹, Acovic A⁴, Delic J¹, Kanjevac T⁴, Jakovljevic V⁵, cArsenijevic N¹, Lukic ML¹, Volarevic V¹

¹*Department of Microbiology and Immunology, Center for Molecular Medicine and Stem Cell Research, Faculty of Medical Sciences, University of Kragujevac, Kragujevac,* ²*Department of Genetics, Faculty of Medical Sciences, University of Kragujevac, Kragujevac,* ³*Department of Pharmacy, Faculty of Medical Sciences, University of Kragujevac, Kragujevac,* ⁴*Department of Dentistry, Faculty of Medical Sciences, University of Kragujevac, Kragujevac,* ⁵*Department of Physiology, Faculty of Medical Sciences, University of Kragujevac, Kragujevac, Serbia*

14.05-14.20

THE ROLE OF CANNABINOID RECEPTOR 1 BLOCKADE ON HEPATIC FREE FATTY ACID PROFIL-E IN MICE WITH NONALCOHOLIC FATTY LIVER DISEASE

Jorgacevic B¹, Vucevic D¹, Djuricic I², Sobajic S², Mladenovic D¹, Veskovc M¹, Jesic Vukisevic R³, Radosavljevic T¹

¹*Institute of Pathophysiology "Ljubodrag Buba Mihailovic", Faculty of Medicine, University of Belgrade,* ²*Department for Bromatology, Faculty of Pharmacy, University of Belgrade,* ³*Institute of Digestive Diseases, Clinical Center of Serbia, Belgrade, Serbia*

14.20-15.45 Lunch/CME SESSION

SESSION 4: NEUROPHYSIOLOGY AND NEUROENDOCRINOLOGY

Chairmen: Ilic TV, Rosic G, Vuckovic S

15.45-16.00

NUTRITIONAL SUPPLEMENTS AND EPILEPSY: IS THERE A RELATIONSHIP?

Rasic Markovic A, Hrnac D, Rankov-Petrovic B, Djuric DM, Stanojlovic O

Institute of Medical Physiology "Richard Burian", Faculty of Medicine, University of Belgrade, Belgrade, Serbia

16.00-16.15

NON-PHARMACOLOGICAL MODULATORS OF BRAIN HYPEREXCITABILITY: IMPLICATIONS FOR ANTIEPILEPTIC STRATEGIES

Hrnac D¹, Sutulovic N¹, Grubac Z¹, Ademovic A¹, Vorkapic M¹, Rankov Petrovic B¹, Rasic Markovic A¹, Susic V², Djuric DM¹, Stanojlovic O¹

¹*Institute of Medical Physiology "Richard Burian", Faculty of Medicine, University of Belgrade, Belgrade,*

²*Serbian Academy of Sciences and Arts, Belgrade, Serbia*

16.15-16.30

THE INVOLVEMENT OF NITRIC OXIDE IN THE ANTINOCICEPTIVE EFFECT OF MAGNESIUM SULFATE

Vuckovic S, Srebro D, Prostran M.

Department of Pharmacology, Clinical Pharmacology and Toxicology, Faculty of Medicine, University of Belgrade, Belgrade, Serbia

16.30-16.45

THE EFFECTS OF NMDA RECEPTOR ANTAGONISTS ON THE BODY TEMPERATURE AND ACUTE NOCICEPTIVE PAIN IN RATS

Savic Vujovic K, Vuckovic S, Prostran M

Department of Pharmacology, Clinical Pharmacology and Toxicology, Faculty of Medicine, University of Belgrade, Belgrade, Serbia

16.45-17.00

THE ALTERATIONS IN NOCICEPTION AND SERUM α MSH INDUCED BY SHORT-TERM FOOD DEPRIVATION IN RATS TREATED WITH ANABOLIC ANDROGENIC STEROIDS

Joksimovic J, Selakovic D, Rosic G

Department of Physiology, Faculty of Medical Sciences, University of Kragujevac, Kragujevac, Serbia

17.00-17.15

POTENTIAL ANTIDEPRESSIVE EFFECT OF SALVIA AND ROSMARINIC ACID

Nesic M¹, Radenkovic M¹, Kitic D², Kostic M², Brankovic S¹, Ciric M¹, Imeri S², Zivkovic I²

¹*Department of Physiology, ²Department of Pharmacy, Faculty of Medicine, University of Nis, Nis, Serbia*

17.15-17.30

NONINVASIVE BRAIN STIMULATION – AWAKENING THE NEURONES AND TAMING SYNAPTIC FUNCTION

Ilic TV

Department of Neurophysiology, Medical Faculty of Military Medical Academy, University of Defense, Belgrade, Serbia

17.30-17.45

THE EFFECT OF REDUCING BLUE LIGHT FROM SMARTPHONE SCREEN ON SUBJECTIVE QUALITY OF SLEEP AMONG STUDENTS

Randjelovic P¹, Stojiljkovic N¹, Popovic A², Ilic S¹, Stojanovic N²

¹*Department of Physiology, Faculty of Medicine, University of Nis, Nis, ²Faculty of Medicine, University of Nis, Nis, Serbia*

17.45-18.00 Pause

(The presence of poster authors is required)

Chairmen: Miloradovic Z, Milosevic V, Nestorovic V, Radenkovic M, Vucic V

P01 INVOLVEMENT OF LUTEINIZING HORMONE IN RESETTING OF PERIPHERAL CLOCK IN RAT LEYDIG CELLS

Baburski A, Andric S, Kostic T

Laboratory for Reproductive Endocrinology and Signaling, Department of Biology and Ecology, Faculty of Sciences, University of Novi Sad, Novi Sad, Serbia

P02 ESTRADIOL REDUCES MIRNA-155 EXPRESSION IN THE RAT HEART

Bundalo M¹, Zivkovic M¹, Boskovic M¹, Koricanac G², Stankovic A¹

¹Laboratory for Radiobiology and Molecular Genetics, Vinca Institute of Nuclear Sciences, University of Belgrade, Belgrade, ²Laboratory for Molecular Biology and Endocrinology, Vinca Institute of Nuclear Sciences, University of Belgrade, Belgrade, Serbia

P03 THE IMPORTANCE OF BLOOD CELLS IN ATHEROSCLEROSIS: THE EFFECTS OF SIMVASTATIN ON HEMATOLOGICAL PARAMETERS IN NEONATAL RATS TREATED WITH MONOSODIUM GLUTAMATE

Ciric M¹, Najman S², Nestic M¹, Puskas N³, Pavlovic V¹

¹Institute of Physiology, Faculty of Medicine, University of Nis, Nis, ²Institute of Biology and Human Genetics, Faculty of Medicine, University of Nis, Nis, ³Institute of Histology and Embryology "Aleksandar DJ. Kostic", Faculty of Medicine, University of Belgrade, Belgrade, Serbia

P04 THE EFFECT OF BETAINE ON LIVER TRACE ELEMENTS CONCENTRATION AND SUPEROXIDE DISMUTASE ACTIVITY IN MICE WITH NAFLD

Veskovic M¹, Mladenovic D¹, Ninkovic M², Vatazevic A³, Jorgacevic B¹, Vucevic D¹, Kujundzic B¹, Radosavljevic T¹

¹Institute of Pathophysiology "Ljubodrag Buba Mihailovic", Faculty of Medicine, University of Belgrade, ²Institute for Medical Research, Military Medical Academy, Belgrade, ³Faculty of Chemistry, University of Belgrade, Serbia

P05 PRIMARY HYPOGONADISM IN THE OLD MALE WISTAR RATS IS ACCOMPANIED BY cAMP AND MAPK SIGNALING DISTURBANCES

Sokanovic SJ, Andric SA, Kostic TS

Department of Biology and Ecology, Faculty of Sciences, University of Novi Sad, Novi Sad, Serbia

P06 USE OF INTRAOPERATIVE NEUROPHYSIOLOGICAL MONITORING IN AWAKE SURGERY

Karan V¹, Horvat I^{1,2}, Vickovic S^{1,3}, Karan M^{1,2}, Jelaca B^{1,2}, Vulekovic P^{1,2}

¹Faculty of Medicine, University of Novi Sad, Novi Sad, ²Clinical Center of Vojvodina, Clinic for Neurosurgery, ³Clinical Center of Vojvodina, Clinic for Anesthesia, Novi Sad, Serbia

P07 SPIROMETRIC PARAMETERS AND MAXIMAL OXYGEN UPTAKE (VO₂max) IN DIFFERENT TYPE OF SPORTS AND IN SEDENTARY PEOPLE, AND LEVEL OF CORRELATION BETWEEN THESE PARAMETERS

Rakovac A¹, Andric L², Karan V¹, Bogdan M¹, Slavic D¹, Klasnja A¹

¹Department of Physiology, Faculty of Medicine, University of Novi Sad, Novi Sad, ²Health Center Becej, Department of Women and Children's Health Care, Becej, Serbia

P08 VALIDATION OF RESTING METABOLIC RATE PREDICTION EQUATIONS AMONG STUDENT POPULATION

Slavic D, Karaba Jakovljevic D, Naumovic N, Rakovac A, Oluic S, Lukac D

Department of Physiology, Faculty of Medicine, University of Novi Sad, Novi Sad, Serbia

P09 SNPS IN THE HAPLOTYPE BLOCK CONTAINING LGALS-3 AND ECHOCARDIOGRAPHIC PARAMETERS OF LV STRUCTURE AND FUNCTION 6 MONTHS AFTER MYOCARDIAL INFARCTION: PRELIMINARY RESULTS

Djordjevic A¹, Zivkovic M¹, Dekleva M^{2,3}, Markovic Nikolic N^{2,3}, Alavantic D¹, Stankovic A¹, Djuric T¹

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P10 DIABETES MELLITUS ACCELERATES BREAST CANCER GROWTH BY FACILITATING INTRATUMORAL ACCUMULATION OF IMMUNOSUPPRESSIVE CELLS AND ATTENUATING NK CELLS ANTITUMOR ACTIVITY

Gajovic N¹, Jovanovic I¹, Radosavljevic G¹, Pantic J¹, Jurisevic M^{1,2}, Arsenijevic N¹, Lukic M¹

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P11 POTENTIAL HEPATOPROTECTIVE ROLE OF GALECTIN-3 DURING HCV INFECTION IN END STAGE RENAL DISEASE PATIENTS

Gajovic N¹, Lukic R², Jovanovic I¹, Jurisevic M^{1,3}, Mijailovic Z⁴, Maric V⁵, Popovska Jovicic B⁴, Jovanovic M¹, Arsenijevic N¹

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P12 SATUREJA KITAIBELII EXTRACTS - ANTIOXIDANT POTENTIAL

Grujic S¹, Velickovic I¹, Gopcevic K²

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P13 BIOLOGICAL ACTIVITY OF SATUREJA KITAIBELII EXTRACTS

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P14 ACUTE RENAL FAILURE FOLLOWING THE APPLICATION OF A HIGH DOSE OF METHOTREXATE – AN EXPERIMENTAL MODEL

Ilic S¹, Stojiljkovic N¹, Stojanovic N², Veljkovic M¹, Gocmanac Ignjatovic M¹, Petkovic M²

¹Department of Physiology, Faculty of Medicine, University of Nis, Nis, ²Faculty of Medicine, University of Nis, Nis, Serbia

P15 THE FROG SKIN HOST-DEFENSE PEPTIDE FRENATIN 2.1S ENHANCES RECRUITMENT, ACTIVATION AND TUMORICIDAL CAPACITY OF NK CELLS

Jurisevic M^{1,2}, Pantic J¹, Jovanovic I¹, Radosavljevic G¹, Gajovic N¹, Jovanovic M¹, Arsenijevic N¹, Conlon M³, Lukic M¹

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P16 GENISTEIN AFFECTS THE ADRENAL GLAND FUNCTION IN ORCHIDECTOMIZED ADULT RATS

Manojlovic Stojanoski M, Ajdzanovic V, Ristic N, Trifunovic S, Filipovic B, Nestorovic N, Milosevic V

Department of Cytology, Institute for Biological Research "Sinisa Stankovic", University of Belgrade, Belgrade, Serbia

P17 ANTIPROLIFERATIVE, ANTIOXIDATIVE AND ANTIMIGRATORY EFFECTS OF 3-BENZYL-5-ISOPRYPYL-5-PHENYLHYDANTOIN IN HUMAN CHORIOCARCINOMA CELL LINE JEG-3

Matic M¹, Obradovic A¹, Paunovic M¹, Milosevic M¹, Uscumlic G², Bozic B³, Ognjanovic B¹, Saicic Z⁴

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P18 CHRONIC CONSUMPTION OF ROSMARINIC ACID ATTENUATES HYPERTENSION AND IMPROVES LIPID PROFILE IN SPONTANEOUSLY HYPERTENSIVE RATS

Miloradovic Z, Grujic Milanovic J, Ivanov M, Jovovic Dj, Karanovic D, Vajic UJ, Mihailovic Stanojevic N

Department for Cardiovascular Physiology, Institute for Medical Research, University of Belgrade, Belgrade, Serbia

P19 FENITROTHION-INDUCED HEPATOTOXICITY IN MALE RATS: PROTECTIVE EFFECTS OF ANTIOXIDANTS SELENIUM AND VITAMIN C

Milosevic M¹, Paunovic M¹, Matic M¹, Ognjanovic B¹, Saicic Z²

¹Faculty of Science, University of Kragujevac, Kragujevac, ²Institute for Biological Research "Sinisa Stankovic", University of Belgrade, Belgrade, Serbia

P20 MESENCHYMAL STEM CELLS ATTENUATE EXPERIMENTAL COLITIS IN C57BL/6 MICE BY SUPPRESSING INFILTRATION OF ANTIGEN PRESENTING CELLS IN THE COLON

Acovic A¹, Simovic Markovic B², Gazdic M³, Arsenijevic A², Volarevic A², Delic J², Kanjevac T¹, Arsenijevic N², Lukic ML², Volarevic V²

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P21 MSCs PROMOTE EXPANSION OF IL-10 PRODUCING CD4+ T CELLS AND ATTENUATE CARBON TETRACHLORIDE-INDUCED LIVER FIBROSIS IN MICE

Delic J¹, Simovic Markovic B¹, Gazdic M², Arsenijevic A¹, Volarevic A¹, Acovic A³, Nikolic T⁴, Kanjevac T³, Jakovljevic V⁵, Arsenijevic N¹, Lukic ML¹, Volarevic V¹

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P22 MESENCHYMAL STEM CELLS PROMOTE METASTASIS OF LUNG CANCER CELLS BY SUPPRESSING ANTI-TUMOR IMMUNE RESPONSE

Arsenijevic A¹, Simovic Markovic B¹, Gazdic M², Volarevic A¹, Acovic A³, Delic J¹, Jakovljevic V⁴, Kanjevac T³, Arsenijevic N¹, Lukic ML¹, Volarevic V¹

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P23 SELENIUM ALLEVIATES CISPLATIN TOXICITY BY PREVENTING OXIDATIVE STRESS AND RENAL DAMAGE IN RATS

Paunovic M¹, Matic M¹, Milosevic M¹, Ognjanovic B¹, Saicic Z²

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P24 THE EFFECT OF WHEY TREATMENT ON CHRONIC ALCOHOL INDUCED LIVER DAMAGE

Radic I^{1,2}, Tatalovic N², Bulajic S³, Mitic M⁴, Joksimovic B⁵, Petrovic Z⁴, Mijovic M⁶, Blagojevic D², Adzic M⁴, Miric M¹, Nestorovic V⁷, Janicijevic Hudomal S³

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P25 INSULIN AND IGF1 RECEPTORS DRIVE EXPRESSION OF THE KEY REGULATORS OF MITOCHONDRIAL BIOGENESIS IN STEROIDOGENIC CELLS OF PREPUBERTAL TESTIS, BUT NOT OVARIES

Radovic S¹, Starovlah I¹, Nef S², Kostic T¹, Andric S¹

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P26 NORMAL-FAT DIET COMBINED WITH SOYBEANS OR STATIN THERAPY IN HYPERLIPIDEMIC PATIENTS: EFFECTS ON ERYTHROCYTES PUFA PROFILE

Ristic Medic D, Takic M, Vucic V, Arsic A, Petrovic S, Glibetic M

Center of Research Excellence in Nutrition and Metabolism, Institute for Medical Research, University of Belgrade, Belgrade, Serbia

P27 EFFECTS OF N-ACETYL-L-CYSTEINE AND L-CYSTEINE ON MORPHOMETRIC AND BIOCHEMICAL PARAMETERS IN THE RAT DUODENUM AFTER 3 WEEK METHIONINE APPLICATION

Scepanovic Lj¹, Stojanovic M¹, Hadzi Tanovic L², Todorovic D², Mitrovic D¹, Dragutinovic V³, Borozan S⁴, Labudovic Borovic M⁵, Lalic I⁵, Despotovic S⁵, Scepanovic V⁶, Scepanovic R⁷, Scepanovic T⁸, Djuric DM¹

¹Institute of Medical Physiology "Richard Burian", Faculty of Medicine, University of Belgrade, ²Faculty of Medicine, University of Belgrade, ³Institute of Medical Chemistry, Faculty of Medicine, University of Belgrade, ⁴Department of Chemistry, Faculty of Veterinary Medicine, University of Belgrade, ⁵Institute of Histology and Embryology "Aleksandar Dj. Kostic", Faculty of Medicine, University of Belgrade, ⁶Institute for Neurosurgery, Clinical Center of Serbia, Belgrade, ⁷University of Defense, Military Medical Academy, Belgrade, ⁸Institute of Neonatology, Belgrade, Serbia

P28 THE ACUTE EFFECTS OF L-METHIONINE, L-CYSTEINE, N-ACETYLCYSTEINE AND SODIUM HYDROGEN SULFIDE ON CARDIAC FUNCTION IN HYPERHOMOCYSTEINEMIC RAT HEARTS

Sobot T¹, Nikolic T², Zivkovic V³, Srejovic I³, Stojic I², Jakovljevic V³, Djuric DM⁴

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P29 THE EFFECTS OF HIGH-FRUCTOSE DIET ON FATTY ACID PROFILE OF TOTAL PLAZMA LIPIDS IN RATS

Petrovic S¹, Velickovic N², Teofilovic A², Djordjevic A², Arsic A¹, Ristic-Medic D¹, Vucic V¹

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P30 THE ANTINOCICEPTIVE EFFECT OF SYSTEMIC MAGNESIUM SULFATE IN DIFFERENT MODELS OF INFLAMMATORY PAIN IN RATS

Srebro D, Vuckovic S, Prostran M

Department of Pharmacology, Clinical Pharmacology and Toxicology, Faculty of Medicine, University of Belgrade, Belgrade, Serbia

20.00

GALA DINNER

SATURDAY, MAY 27th, 2017

SESSION 5: MOLECULAR AND CELLULAR PHYSIOLOGY, AND MISCELLANEOUS

Chairmen: Andric S, Kostic T, Maléth J

09.00-09.15

THE ROLE OF ORAI1 MEDIATED CA²⁺ ENTRY IN PANCREATIC DUCTAL CELL PHYSIOLOGY AND PATHOPHYSIOLOGY

Maléth J

First Department of Medicine, University of Szeged, Szeged, Hungary

09.15-09.30

THE MODIFYING ROLE OF CARD18 IN CYTOSOLIC DNA MEDIATED IL-1 β SIGNALING

Göblös A¹, Danis J¹, Bata-Csörgő Z^{1,2}, Kemény L^{1,2}, Széll M^{2,3}

¹Department of Dermatology and Allergology, ²MTA-SZTE Dermatological Research Group, ³Department of Medical Genetics, University of Szeged, Szeged, Hungary

09.30-09.45

THE EFFECTS OF NMDA-RECEPTOR ANTAGONISTS ON MITOCHONDRIAL RESPIRATION IN RESPONSE TO POLYMICROBIAL SEPSIS

Juhász L¹, Marietta Poles Z¹, Tallósy SP¹, Rutai A¹, Boros M¹, Vécsei M², Kaszaki J¹

¹Institute of Surgical Research¹, Department of Neurology², University of Szeged, Szeged, Hungary

09.45-10.00

PLASMA FATTY ACID STATUS IN PATIENTS WITH FEMORAL FRACTURES

Vucic V¹, Arsic A¹, Petrovic S¹, Ristic Medic D¹, Matic A², Pesic G³, Jeremic J⁴, Jakovljevic V⁵

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10.00-10.15

AGING-ASSOCIATED LEYDIG CELL HYPOFUNCTION ARE CONNECTED WITH DECREASED O₂ CONSUMPTION AND MITOCHONDRIAL DYSFUNCTION

Kojic Z², Sokanovic S¹, Andric S¹, Kostic T¹

¹Department of Biology and Ecology, Faculty of Sciences, University of Novi Sad, Novi Sad, ²Faculty of Medicine, University of Belgrade, Belgrade, Serbia

10.15-10.30

IBOGAINE INCREASES THE ACTIVITY OF ANTYOXIDANT ENZYMES IN RAT TESTICLES

Tatalovic N¹, Vidonja Uzelac T¹, Mijuskovic A¹, Orescanin Dusic Z¹, Nikolic Kokic A¹, Spasic M¹, Paskulin R^{2,3}, Bresjanac M³, Blagojevic D¹

¹Department of Physiology, Institute for Biological Research "Sinisa Stankovic", University of Belgrade, Belgrade, Serbia, ²OMI Institute, Ljubljana, ³Institute of Pathophysiology, Faculty of Medicine, University of Ljubljana, Ljubljana, Slovenia

10.30-10.45

THE NUMBER OF SPERMATOZOA, ACROSOMAL REACTION AND EXPRESSION OF MITOCHONDRIAL BIOGENESIS MARKERS ARE DISTURBED IN SPERMATOZOA FROM STRESSED ADULT RATS

Starovlah I, Radovic S, Kostic TS, Andric SA

Laboratory for Reproductive Endocrinology and Signaling, Faculty of Sciences, University of Novi Sad, Novi Sad, Serbia

10.45-11.00

PSYCHOPHYSICAL STRESS TRIGGERS MITOCHONDRIAL BIOGENESIS TO PRESERVE STEROIDOGENESIS IN LEYDIG CELLS

Radovic S, Starovlah I, Gak I, Dukic A, Kostic TS, Andric SA

Laboratory for Reproductive Endocrinology and Signaling, Faculty of Sciences, University of Novi Sad, Novi Sad, Serbia

11.00-11.15

ASSOCIATION BETWEEN NUCLEAR SHANNON ENTROPY AND CIRCULARITY OF NUCLEAR ENVELOPE IN BUCCAL EPITHELIAL CELLS

Paunovic J¹, Vucevic D¹, Radosavljevic T¹, Pantic I^{2,3}

¹Institute of Pathological Physiology, Faculty of Medicine, University of Belgrade, Belgrade, ²Laboratory for Cellular Physiology, Institute of Medical Physiology, Faculty of Medicine, University of Belgrade, Belgrade, Serbia, ³University of Haifa, Haifa, Israel

11.15-12.45

POSTER SESSION II

(The presence of poster authors is required)

Chairmen: Érces D, Lukac D, Milanovic Z, Nestic M, Savic Vujovic K

P31 ROLE OF SULFUR AMINO ACIDS ON REDOX STATUS AND CONNECTIVE TISSUE ELEMENTS IN THE RAT COLON

Stojanovic M¹, Scepanovic Lj¹, Todorovic D², Mitrovic D¹, Dragutinovic V³, Borozan S⁴, Labudovic-Borovic M⁵, Lalic I⁵, Despotovic S⁵, Scepanovic V⁶, Scepanovic R⁷, Scepanovic T⁸, Djuric DM¹

¹Institute of Medical Physiology "Richard Burian", Faculty of Medicine, University of Belgrade, ²Faculty of Medicine, University of Belgrade, ³Institute of Medical Chemistry, Faculty of Medicine, University of Belgrade, ⁴Department of Chemistry, Faculty of Veterinary Medicine, University of Belgrade, ⁵Institute of Histology and Embryology "Aleksandar Dj. Kostic", Faculty of Medicine, University of Belgrade, ⁶Institute for Neurosurgery, Clinical Center of Serbia, Belgrade, ⁷Belgrade University of Defense, Military Medical Academy, Belgrade, ⁸Institute of Neonatology, Belgrade, Serbia

P32 ANXIOLYTIC-LIKE ACTION OF SELECTED 4-(ALKYLAMINO)-3-NITROCOUMARIN DERIVATIVES IN BALB/C MICE

Stojanovic N¹, Randjelovic P², Radulovic N³, Dekic V⁴, Dekic B⁴, Ilic S², Stojiljkovic N²

¹Faculty of Medicine, University of Nis, Nis, ²Institute of Physiology, Faculty of Medicine, University of Nis, Nis, ³Department of Chemistry, Faculty of Sciences and Mathematics, University of Nis, Nis, ⁴Department of Chemistry, Faculty of Science and Mathematics, University of Pristina, Kosovska Mitrovica, Serbia

P33 L-CYSTEINE AND N-ACETYL-L-CYSTEINE EXPRESS ANTIOXIDANT ACTIVITY RESULTING IN IMPROVEMENT OF METHIONINE LOAD EFFECTS IN THE LIVER TISSUE

Todorovic D¹, Scepanovic Lj², Stojanovic M², Mitrovic D², Dragutinovic V³, Borozan S⁴, Labudovic-Borovic M⁵, Despotovic S⁵, Lalic I⁵, Scepanovic V⁶, Scepanovic R⁷, Scepanovic T⁸, Djuric DM²

¹Faculty of Medicine, University of Belgrade, ²Institute of Medical Physiology "Richard Burian", Faculty of Medicine, University of Belgrade, ³Institute of Medical Chemistry, Faculty of Medicine, University of Belgrade, ⁴Department of Chemistry, Faculty of Veterinary Medicine, University of Belgrade, ⁵Institute of Histology and Embryology "Aleksandar DJ. Kostic", Faculty of Medicine, University of Belgrade, ⁶Institute for Neurosurgery, Clinical Center of Serbia, Belgrade, ⁷Belgrade University of Defense, Military Medical Academy, Belgrade, ⁸Institute of Neonatology, Belgrade, Serbia

P34 SPASMOLITIC PROPERTIES OF ALLIUM URSINUM METHANOLIC EXTRACTS

Veljkovic M, Pavlovic D, Stojanovic N, Gocmanac Ignjatovic M, Brankovic S, Ilic S, Stojiljkovic N, Radenkovic M

Faculty of Medicine, University of Nis, Nis, Serbia

P35 POMEGRANATE JUICE DECREASES ACTIVITY OF GLUTATHION PEROXIDASE IN SUBJECTS WITH METABOLIC SYNDROME

Arsic A¹, Kojadinovic M¹, Popovic M², Petrovic S¹, Ristic Medic D¹, Vucic V¹

¹Center of Research Excellence in Nutrition and Metabolism, Institute for Medical Research, Belgrade, ²Department of Biochemistry, Faculty of Chemistry, University of Belgrade, Belgrade, Serbia

P36 CHEMICAL COMPOSITION OF ETHANOLIC EXTRACTS OF SATUREJA KITAIBELII

Grujic S², Arsenijevic J³, Izrael-Zivkovic L¹, Medic A¹, Maksimovic Z³, Gopcevic K¹

¹Institute of Chemistry in Medicine "Petar Matavulj", Faculty of Medicine, University of Belgrade, Belgrade, ²Faculty of Biology, University of Belgrade, Belgrade, ³Department for Pharmacognosy, Faculty of Pharmacy, University of Belgrade, Belgrade, Serbia

P37 ANTIOXIDATIVE ENZYME ACTIVITIES ARE DECREASED IN THE TESTICLES OF RATS TREATED WITH ATYPICAL ANTIPSYCHOTIC DRUGS

Nikolic Kotic A¹, Arizanovic L¹, Vidonja Uzelac T¹, Tatalovic N¹, Mijuskovic A¹, Orescanin Dusic Z¹, Spasic M¹, Blagojevic D¹, Miljevic C²

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P38 THE WHEY EFFECTS ON BIOCHEMICAL PARAMETERS OF THE BLOOD OF CHRONICALLY ALCOHOLIZED WISTAR RATS

Radic I¹, Mijovic M², Tatalovic N³, Blagojevic D³, Adzic M⁴, Mitic M⁴, Petrovic Z⁴, Bulajic S⁵, Joksimovic B⁶, Velickovic S¹, Miric M¹, Nestorovic V⁷, Janicijevic Hudomal S⁵

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P39 DIABETES-RELATED EXPRESSIONAL CHANGES OF THE INFLAMMATORY CYTOKINE, TUMOR NECROSIS FACTOR ALPHA IN THE MYENTERIC GANGLIA AND ITS MICROENVIRONMENT OF DIFFERENT INTESTINAL SEGMENTS

Chandrakumar L¹, Mezei D¹, Barta BP¹, Szalai Z¹, Bódi N¹, Bagyánszki M¹

¹Department of Physiology, Anatomy and Neuroscience, University of Szeged, Szeged, Hungary

P40 VITAMIN D DEFICIENCY IMPAIRS GEOMETRICAL STRUCTURE AND PHYSIOLOGICAL FUNCTION OF CEREBRAL ARTERIES

Pál E¹, Fontányi Z², Hadjadj L¹, Monori-Kiss A¹, Danics L¹, Monos E¹, Nádasy G³, Benyó Z¹, Várbíró S²

¹Institute of Clinical Experimental Research, ²2nd Department of Obstetrics and Gynaecology, ³Department of Physiology, Semmelweis University, Budapest, Hungary

P41 THE EFFECTS OF ENDOTHELIN-A RECEPTOR ANTAGONISM AND ENDOTHELIN-B RECEPTOR AGONISM IN EXPERIMENTAL SEPSIS

Rutai A, Fejes R, Tallósy S, Poles M, Juhász L, Mészáros A, Boros M, Kaszaki J
Institute of Surgical Research, University of Szeged, Szeged, Hungary

P42 EFFECTS OF ENDOTHELIN-A RECEPTOR ANTAGONISM AND ENDOTHELIN-B RECEPTOR AGONISM ON THE MITOCHONDRIAL FUNCTION IN EXPERIMENTAL POLYMICROBIAL SEPSIS

Tallósy SP, Rutai A, Juhász L, Poles M, Fejes R, Mészáros A, Boros M, Kaszaki J
¹Institute of Surgical Research, University of Szeged, Szeged, Hungary

P43 KYNURENIC ACID AND ITS NOVEL ANALOGUE SZR-72 DIMINISH THE SEVERITY OF EXPERIMENTAL ACUTE NECROTIZING PANCREATITIS

Balla Z¹, Kui B², Kormányos E², Réka Bálint E², Kiss L¹, Iványi B³, Vécsei L^{4,8}, Fülöp F^{5,9}, Varga G⁶, Harazin A¹⁰, Deli MA¹⁰, Venglovecz V¹¹, Maléth J², Hegyi P^{2,7,12}, Rakonczay Jr. Z¹

¹Department of Pathophysiology, University of Szeged, Szeged, ²First Department of Medicine, University of Szeged, Szeged, ³Department of Pathology, University of Szeged, Szeged, ⁴Department of Neurology, University of Szeged, Szeged, ⁵Institute of Pharmaceutical Chemistry, University of Szeged, Szeged, ⁶Institute of Surgical Research Center, University of Szeged, Szeged, ⁷MTA-SZTE Transl. Gastroenterology Research Group, University of Szeged, Szeged, ⁸Neuroscience Research Group, Hungarian Academy of Sciences – University of Szeged, Szeged ⁹Stereochemistry Research Team, Hungarian Academy of Sciences – University of Szeged, Szeged, ¹⁰Molecular Neurobiology Research Unit, Biological Research Center, Szeged, ¹¹Department of Pharmacology and Pharmacotherapy, University of Szeged, Szeged, ¹²Institute for Translational Medicine, University of Pécs, Pécs, Hungary

P44 EXCESSIVE ALCOHOL CONSUMPTION INDUCES METHANE PRODUCTION IN HUMANS AND RATS

Tuboly E¹, Molnár R¹, Tókécs T^{1,4}, Turányi RN¹, Hartmann P¹, Mészáros AT¹, Strifler G¹, Földesi I², Siska A², Szabó A³, Mohácsi A³, Szabó G³, Boros M¹

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P45 EXTENDED SYNAPTOTAGMIN 1 MODULATES THE ACTIVITY OF AC8 IN HEK 293 CELLS

Fanczal J¹, Madácsy T¹, Hegyi P^{1,2}, Muellem S³, Maléth J¹
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P46 REMODELING OF CORONARY ARTERY NETWORK DURING QUERCETIN SUPPLEMENTATION

Lónyi F¹, Monori-Kiss A¹, Pásti G¹, Danics L¹, Monos E¹, Nádasy György L.²

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P47 THE IMPAIRED FUNCTION OF THE PLASMA MEMBRANE CA²⁺ PUMP CAUSES CA²⁺ OVERLOAD AND CELL DAMAGE IN CFTR KNOCK OUT PANCREATIC DUCTAL CELLS

Madácsy T¹, Fanczal J¹, Pallagi P², Rakonczay Z³, Hegyi P^{4,5}, Rázga Z⁶, Gray M⁷, Maleth J¹

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P48 POTASSIUM WAVE OF SPREADING DEPOLARIZATION CAUSES VASOCONSTRICTION IN THE MOUSE CORTEX

Menyhárt A¹, Farkas AE², Varga DP¹, Tóth R¹, Bari F¹, Krizbai I², Farkas E¹

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P49 INVESTIGATION OF THE PANCREATIC DUCTAL ION SECRETION IN PANCREATIC DUCTAL ORGANOID CULTURES

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P50 THE EFFECT OF PRIMARY SENSORY NEURON DESENSITIZATION ON EXPERIMENTAL ACUTE PANCREATITIS MODELS

Réka Bálint E¹, Balla Z², Kiss L², Molnár A¹, Marsollier C³, Marc R⁴, Venglovecz V⁵, Maléth J¹, Hegyi P^{1,6,8}, Helyes Z⁷, Rakonczay Jr. Z²

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P51 THE DIHYDROPYRIDINE DERIVATIVE LA1011 DOES NOT ALTER NEUROVASCULAR COUPLING IN THE RAT CEREBRAL CORTEX

Szabó I¹, Varga DP¹, Menyhárt A¹, Bari F¹, Horváth I^{2,3}, Török Z^{2,3}, Vigh L^{2,3}, Farkas E¹

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P52 IS THERE ANYTHING NEW UNDER THE SUN? COMPARED EFFICACY OF PRESERVATION SOLUTIONS ON THE OUTCOME OF LIVER TRANSPLANTATION: A META-ANALYSIS

Szilágyi AL¹, Hegyi P², Mátrai P², Márton AR¹, Pécz D¹, Boros M¹, Hartmann P¹

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P53 MITOCHONDRIAL FUNCTION AND DISTRIBUTION IN PANCREATIC DUCTAL EPITHELIAL CELLS

Tóth E¹, Maléth J¹, Erdős R¹, Rázga Zs², Tretter L³, Horváth G³, Rakonczay Z Jr.^{1,4}, Hegyi P^{5,6}

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P54 CONTRIBUTION OF PROSTANOID SIGNALING TO THE EVOLUTION OF SPREADING DEPOLARIZATION AND THE ASSOCIATED CEREBRAL BLOOD FLOW RESPONSE

Varga DP¹, Menyhárt A¹, Puskás T¹, Hertelendy P¹, Tóth R¹, Bari F¹, Farkas E¹

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P55 IBOGAINE AFFECTS THE REDOX STATUS IN RAT ILEUM

Vidonja Uzelac T¹, Tatalovic N¹, Mijuskovic A¹, Orescanin Dusic Z¹, Nikolic Kokic A¹, Spasic M¹, Paskulin R^{2,3}, Bresjanac M³, Blagojevic D¹

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P56 SMOOTH MUSCLE RELAXANT EFFECTS OF THE FENNEL FRUITS ESSENTIAL OIL ON SPONTANEOUS AND SPASMOGEN-INDUCED CONTRACTIONS OF THE ISOLATED RAT ILEUM

Brankovic S¹, Gocmanac Ignjatovic M¹, Radenkovic M¹, Kostic M², Kitic N³, Miladinovic B², Kitic D²

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P57 MORPHOMETRIC ANALYSIS OF CO-SUPPLEMENTATION WITH VITAMINS C AND E ON STRUCTURAL RENAL CHANGES INDUCED BY GENTAMICIN IN RATS

Stojiljkovic N¹, Ilic S¹, Veljkovic M¹, Randjelovic P¹, Radovanovic D², Todorovic J³, Stojanovic N³

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P58 PIOGLITAZONE ATTENUATES RENAL INJURY IN AN EXPERIMENTAL MODEL OF GENTAMICIN-INDUCED NEPHROTOXICITY IN RATS

Medic B¹, Stojanovic M¹, Savic Vujovic K¹, Skodric Radivojevic S², Basta Jovanovic G², Radenkovic M¹, Prostran M¹

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P59 FREE RADICAL SCAVANGING AND ANTIOXIDANT ACTIVITY OF SATUREJA KITAIBELII

Gopcevic K¹, Grujic S², Izrael Zivkovic L¹, Medic A¹, Arsenijevic J³, Maksimovic Z³

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P60 STRESS DISTURBS CIRCADIAN EXPRESSION PATTERN OF STEROIDOGENIC AND CLOCK GENES IN RAT LEYDIG CELLS

Medar ML¹, Baburski AZ¹, Andric SA¹, Kostic TS¹

¹University of Novi Sad, Faculty of Sciences Novi Sad, Department of Biology and Ecology, Laboratory for Reproductive Endocrinology and Signaling Group, Novi Sad, Serbia

12.45-13.00

CME LECTURE: STROKE PREVENTION PROGRAM

Naumovic N¹, Slankamenac P², Tomasevic Todorovic S³, Karaba Jakovljevic D¹, Boskovic K³, Slavic D¹

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13.00-13.15

CONCLUDING REMARKS & TAKE HOME MESSAGE

Chairmen: Boros M, Djuric DM, Jakovljevic V

13.15-14.00

MEETING OF THE ASSEMBLY OF THE SERBIAN PHYSIOLOGICAL SOCIETY

14.00

DEPARTURE & EXCURSION

IMPORTANT INFORMATION

Symposium date: May 25-27, 2017

Conference Venue: Hotel Galleria, Subotica, Vojvodina/Serbia

ANNOUNCEMENT DELIVERY

The first announcement: second half of February 2017

The second announcement: first half of April 2017

The final program: second half of May 2017

REGISTRATION FEE: Free of charge

Full registration includes admission to all scientific sessions, opening ceremony, welcome reception, cocktail, and receiving abstract book. The meeting will be CME accredited.

COFFEE, REFRESHMENT AND LUNCH

Lunch, coffee or tea should be provided by sponsors of the congress or on a commercial basis in restaurant of the Hotel Galleria during the working days of the meeting.

OFFICIAL LANGUAGE

Official language will be English. No simultaneous translation will be provided. All abstracts will be published in English.

ORAL PRESENTATION

Key note lecturers are allocated 20 minutes for presentation. All other speakers for oral presentations are kindly requested to keep their presentation 15 minutes maximal with discussion time.

POSTER PRESENTATION

Two interactive poster sessions will be held during the meeting. Authors are requested to mount their posters from 9.00 to 18.00 on the day of the poster presentation. Poster size should be 120 (height) cm x 80 (width) cm. Poster figures should be designed to be viewed from a distance and the authors should use clear, visible graphics and large text fonts. Material for mounting posters will be provided in the poster area. Authors are requested to be present by their posters during the poster session for which their poster has been scheduled. Awards will be offered for the best poster presentations.

AUDIOVISUAL FACILITIES

For oral presentations, video beam projection will be available in a conference room. Presentations should be prepared in „Power Point“(*.ppt file). For special audiovisual facilities, please send in advance a special request to the drvladakbg@yahoo.com

SOCIAL PROGRAM

The social program will include convivial (welcome reception, cocktail) and cultural (city tours, sacral objects, visits to museums, galleries etc.) events; only the first will be covered by the registration fee. Please contact meeting desk for special inquiries.

ACCOMMODATION

Hotel accommodation and arrival/departure service will be organized in different price categories and at special rates. In order to receive an e-mail invitation and/or confirmation, please indicate your e-mail address.

FULL-LENGTH PAPERS

Certain number of abstracts presented at the congress will be published as full-length papers in *Serbian Journal of Experimental and Clinical Research*, official journal of the Faculty of Medical Sciences, University of Kragujevac and the Serbian Physiological Society. In addition, certain number of abstracts presented at the congress will be published as full-length papers in an international journal indexed in *Current Contents/Science Citation Index*. For both options it will be possible upon invitation ONLY and STRICTLY after peer-review procedure after the meeting.

FOR OTHER INQUIRES PLEASE CONTACT:

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