

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

**“MOLECULAR, CELLULAR AND INTEGRATIVE  
BASIS OF HEALTH, DISEASE AND THERAPY”**

Organized by  
**SERBIAN PHYSIOLOGICAL SOCIETY  
SERBIAN MEDICAL SOCIETY-PHYSIOLOGY AND PATHOPHYSIOLOGY  
SECTION**

Under the auspices of  
***FEDERATION OF EUROPEAN PHYSIOLOGICAL SOCIETIES (FEPS)  
INTERNATIONAL SOCIETY FOR PATHOPHYSIOLOGY (ISP)  
INTERNATIONAL UNION OF PHYSIOLOGICAL SCIENCES (IUPS)***



**FINAL PROGRAM**  
[www.physiology.org.yu](http://www.physiology.org.yu)

Military Medical Academy, Belgrade  
November 9-12, 2005

Dear Colleagues and Friends,

It is our great pleasure to wish you warm welcome in Belgrade where *The First Congress of Physiological Sciences of Serbia and Montenegro with International Participation* entitled **“MOLECULAR, CELLULAR AND INTEGRATIVE BASIS OF HEALTH, DISEASE AND THERAPY”** will be held on November 9-12, 2005. A lot of scientific and friendly contacts developed in recent years devoted us to plan and organize this congress in order to improve scientific interactions and make easier joint approach to the European research programs. *Serbian Physiological Society, Serbian Medical Society - Physiology and Pathophysiology Section*, together with the *Faculty of Medicine Kragujevac and Military Medical Academy*, are organizing congress of physiological sciences after 17 years (the last one was held in former Yugoslavia in 1988) with an idea to increase international participation and cooperation. Our scientific program include a broad mix of topics from general, cellular, human, veterinary and comparative physiological sciences going ahead to the scientific problems directed and covered by *Federation of European Physiological Societies (FEPS)*, *International Union of Physiological Sciences (IUPS)* and *International Society for Pathophysiology (ISP)*.

Belgrade, the "White City" founded by Celts in the 3rd century BC on the banks of the great rivers, the Danube and the Sava, will offer you the unique opportunity of strolling by the ruins of the Roman Empire, Turkish fortresses and modern European buildings stand side by side reflecting the unique multicultural history of Beograd. Standing as it does at the geographical crossroads of Europe; Belgrade has been destroyed and rebuilt a myriad of times. Nature blessed it with a pleasant climate, abundant water, lush vegetation, and people famous for their hospitality.

We appreciate very much your participation wishing you nice stay in the ancient town of Belgrade.

On behalf of the Program/Organizing Committee

Sincerely,

Dragan M. Djurić  
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Vladimir Lj. Jakovljević  
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**Žunić G**, MMA

## PROGRAM SUMMARY

**Wednesday, November 9th, 2005**

Venue: Military Medical Academy-Amphitheatre, Crnotravska 17, Belgrade  
(participation upon registration only)

### 9.00-9.45 Opening Ceremony/Welcome Messages

Chairmen: Djurić D, Jakovljević V, Vanović M, Jevtić M, Arsenijević N

Djurić D, *Congress President*

Jevtić M, *Head, Military Medical Academy*

Rakić Lj, *President, Interdepartmental Board of Biomedical Sciences, Serbian Academy of Sciences and Arts*

van der Vusse Ger, *Secretary General, Federation of European Physiological Societies*

Monos E, *President, International Society for Pathophysiology*

Arsenijević N, *Dean, Faculty of Medicine, University of Kragujevac*

9.45-10.30 Pause/Cocktail

### **SYMPOSIUM 1: NEW PERSPECTIVES IN CARDIOVASCULAR RESEARCH**

Chairmen: Malik KU, Dhalla NS, van der Vusse GJ, Heinle H

10.30-11.00

#### **ROLE OF SUBCELLULAR REMODELING IN THE DEVELOPMENT OF CONGESTIVE HEART FAILURE**

Dhalla NS

*Institute of Cardiovascular Sciences, St. Boniface General Hospital Research Centre, Faculty of Medicine, University of Manitoba, Winnipeg, Canada*

11.00-11.30

#### **FATTY ACID-INDUCED ALTERATIONS IN CARDIAC METABOLIC GENE EXPRESSION- POTENTIAL ROLE OF PPARS**

van der Vusse GJ, Gilde AJ, Hasselbaink DM, van der Lee K, van Bilsen M

*Department of Physiology, Cardiovascular Research Institute Maastricht (CARIM) Maastricht University, Maastricht, the Netherlands*

11.30-12.00

#### **CONTRIBUTION OF EICOSANOIDS TO VASCULAR SMOOTH MUSCLE CELL GROWTH, HYPERTENSION AND RESTENOSIS IN INJURED VESSELS**

Malik KU, Yaghini FA, Li F, Estes A

*Department of Pharmacology and Vascular Biology Center, College of Medicine, University of Tennessee Center for Health Sciences, Memphis, Tennessee, USA*

12.00-12.30

#### **ARTERIAL CONTRACTILE FUNCTION: MODULATION BY OXIDATIVE STRESS**

Heinle H

*Institute of Physiology, University of Tuebingen, Germany*

12.30-13.00 Pause

### **FREE COMMUNICATIONS 1**

Chairmen: Milenković P, Djurić D

13.00-13.15

#### **ARACHIDONIC ACID METABOLITES VIA CYTOCHROME P-450 MEDIATES ENDOTHELIN-1 INDUCED VASCULAR SMOOTH MUSCLE CELL PROLIFERATION**

Ljuca F<sup>1</sup>, Nuhbegović S<sup>1</sup>, Huskić J<sup>2</sup>, Matavulj A<sup>3</sup>, Drevenšek G<sup>4</sup>

<sup>1</sup>Department of Physiology, School of Medicine, University of Tuzla, <sup>2</sup>Department of Physiology, School of Medicine, University of Sarajevo, <sup>3</sup>Department of Physiology, School of Medicine, University of Banja Luka, Bosnia and Herzegovina, <sup>4</sup>Department of Pharmacology and Experimental Toxicology, School of Medicine, University of Ljubljana, Slovenia

13.15-13.30

**HYDROXYUREA STIMULATES eNOS - cGMP PATHWAY IN ENDOTHELIAL CELLS**

Čokić VP<sup>1</sup>, Milenković P<sup>1</sup>, Schechter AN<sup>2</sup>

<sup>1</sup>Laboratory of Experimental Hematology, Institute for Medical Research, Belgrade, Serbia and Montenegro,

<sup>2</sup>Molecular Cell Biology Section, Molecular Medicine Branch, National Institute of Diabetes and Digestive and Kidney Diseases, National Institutes of Health, Bethesda, Maryland, USA

13.30-13.45

**CORONARY AUTOREGULATION: INTERACTION BETWEEN L-ARGININE/NO SYSTEM AND CYTOCHROME P-450 METABOLITES OF ARACHIDONIC ACID**

Jakovljević VL<sup>1</sup>, Mujović VM<sup>2</sup>, Ranković A<sup>1</sup>, Radisavljević M<sup>1</sup>, Azanjac A<sup>1</sup>, Djurić DM<sup>2</sup>

<sup>1</sup>Department of Physiology, Faculty of Medicine, University of Kragujevac, <sup>2</sup>Institute of Medical Physiology, School of Medicine, University of Belgrade, Serbia and Montenegro

13.45-14.00

**HAEMODYNAMICS AND VENTRICULAR HYPERTROPHY IN AGED SPONTANEOUSLY HYPERTENSIVE RATS: EFFECTS OF CHRONIC LOSARTAN OR BOSENTAN TREATMENT**

Mihailović-Stanojević N, Jovović Dj, Miloradović Z, Jerkić M

Institute for Medical Research, Belgrade, Serbia and Montenegro

14.00-14.15

**MYOCARDIAL OXYGEN CONSUMPTION REGULATION IN ISOLATED MOUSE HEART: ASSESSMENT BY INTRACORONARY ADMINISTRATION OF EXOGENOUS NITRIC OXIDE**

Kojić Z<sup>1</sup>, Decking UKM<sup>2</sup>

<sup>1</sup>Institute of Medical Physiology, School of Medicine, University of Belgrade, Serbia and Montenegro, <sup>2</sup>Institute of Physiology, Heinrich-Heine University, Duesseldorf, Germany

14.15-15.30 Pause/Lunch

**SYMPOSIUM 2: NEW PERSPECTIVES IN NEUROENDOCRINOLOGY RESEARCH**

Organizers: Murphy D, Žigon N

Chairmen: Murphy D, Žigon N, Isidoro C

15.30-16.00

**FUNCTIONAL GENOMICS OF HOMEOSTATIC FUNCTIONAL PLASTICITY IN THE HYPOTHALAMUS**

Murphy D

Henry Wellcome L.I.N.E, University of Bristol, UK

16.00-16.15

**HYPOTHALAMIC AREAS INTEGRITY UNDERLYING THE HYPEROSMOLALITY-INDUCED SYMPATHO-EXCITATION IN AN IN SITU PREPARATION**

Antunes VR<sup>1,2</sup>, Yao ST<sup>1</sup>, Pickering AE<sup>2</sup>, Paton JFR<sup>2</sup>, Murphy D<sup>1</sup>

<sup>1</sup>Henry Wellcome L.I.N.E, University of Bristol, <sup>2</sup>Department of Physiology, University of Bristol, UK

16.15-16.30

**THE TRANSCRIPTION FACTOR JUND IS UP-REGULATED IN THE ENDOCRINE HYPOTHALAMUS AT BOTH THE MRNA AND PROTEIN LEVEL IN WATER DEPRIVED RATS**

Yao ST<sup>1</sup>, Gouraud S<sup>1</sup>, Paton JFR<sup>2</sup>, Murphy D<sup>1</sup>

<sup>1</sup>Henry Wellcome L.I.N.E., University of Bristol, <sup>2</sup>Department of Physiology, Bristol Heart Institute, University of Bristol, UK

16.30-16.45

**MICROARRAY SCREENING OF SUPPRESSION SUBTRACTIVE HYBRIDISATION-PCR CDNA LIBRARIES IDENTIFIES NOVEL TRANSCRIPTS REGULATED BY DEHYDRATION IN THE RAT SUPRAOPTIC NUCLEUS**

Ghorbel MT<sup>1</sup>, Sharman G<sup>1</sup>, Hindmarch C<sup>1</sup>, Becker KG<sup>2</sup>, Murphy D<sup>1</sup>

<sup>1</sup>The Molecular Neuroendocrinology Research Group, Henry Wellcome Laboratories for Integrative Neuroscience and Endocrinology, University of Bristol, UK, <sup>2</sup>Gene Expression and Genomics Unit, National Institute on Aging, National Institutes of Health, Baltimore MD, USA

16.45-17.00

**OXIDATIVE STRESS ACTIVATES BOTH AUTOPHAGY- AND CASPASE-DEPENDENT PATHWAYS OF CELL DEATH**

Castino R<sup>1</sup>, Bellio N<sup>1</sup>, Follo C<sup>1</sup>, Murphy D<sup>2</sup>, Isidoro C<sup>1</sup>

<sup>1</sup>"Amedeo Avogadro" University, Department of Medical Sciences, Novara, Italy, <sup>2</sup>Henry Wellcome LINE, University of Bristol, UK

17.00-17.15

**REGULATION AND FUNCTION OF THE AUTOPHAGY-LYSOSOMAL DEGRADATIVE PATHWAY IN THE PATHOGENESIS OF FAMILIAL NEUROHYPOPHYSEAL DIABETES INSIPIDUS**

Castino R<sup>1</sup>, Thepparit C<sup>1,2</sup>, Beaucourt S<sup>3</sup>, Bellio N<sup>1</sup>, Murphy D<sup>3</sup>, Isidoro C<sup>1</sup>

<sup>1</sup>"Amedeo Avogadro" University, Department of Medical Sciences, Novara, Italy, <sup>2</sup>Institute of Molecular Biology and Genetics, Mahidol University, Thailand, <sup>3</sup>Sir H. Wellcome Laboratory For Integrative Neurosciences and Endocrinology, University of Bristol, UK

17.15-17.30

**CONTRIBUTION OF THE AUTONOMIC NERVOUS SYSTEM TO THE DISORDER IN THE HEART RATE SIGNAL OF CONSCIOUS UNRESTRAINED RATS**

Milutinović S<sup>1</sup>, Bajić D<sup>2</sup>, Stefanović Č<sup>2</sup>, Agić A<sup>1</sup>, Milutinović M<sup>1</sup>, Japundžić-Žigon N<sup>1</sup>

<sup>1</sup>Institute of Pharmacology, Clinical Pharmacology and Toxicology, School of Medicine, University of Belgrade, <sup>2</sup>Department of Telecommunication, Technical Faculty, Novi Sad, Serbia and Montenegro

17.30-17.45

**CENTRAL EFFECTS OF VASOPRESSIN AND OXYTOCINE ON BLOOD PRESSURE SHORT-TERM VARIABILITY**

Milutinović S<sup>1</sup>, Murphy D<sup>2</sup>, Japundžić-Žigon N<sup>1</sup>

<sup>1</sup>Department of Pharmacology School of Medicine, University of Belgrade, Serbia and Montenegro, <sup>2</sup>Henry Wellcome Laboratories for Integrative Neuroscience and Endocrinology, University of Bristol, UK

17.45-18.00 Pause

**FREE COMMUNICATIONS 2**

Chairmen: Kovačević R, Milovanović S

18.00-18.15

**REGULATORY SITE ON  $\alpha 1$  SUBUNIT OF SOLUBLE GUANYLYL CYCLASE CONTROLLED BY G<sub>s</sub>-COUPLED RECEPTORS**

Kostić TS<sup>1</sup>, Andrić SA<sup>1</sup>, Stojilković SS<sup>2</sup>

<sup>1</sup>Department of Biology and Ecology, Faculty of Sciences, University of Novi Sad, Serbia and Montenegro, <sup>2</sup>Section on Cellular Signaling, Endocrinology and Reproduction Research Branch, NICHD, NIH, USA

18.15-18.30

**ENDOTHELIN-INDUCED BLOCKADE OF INTRINSIC SECRETION IN PITUITARY CELLS BY G<sub>z</sub> SUBUNITS**

Andrić SA<sup>1</sup>, Živadinović D<sup>2</sup>, Gonzalez-Iglesias AE<sup>2</sup>, Agnieszka Lachowicz A<sup>2</sup>, Tomić M<sup>2</sup>, Stojilković SS<sup>2</sup>

<sup>1</sup>Department of Biology and Ecology, Faculty of Sciences, University of Novi Sad, Serbia and Montenegro, <sup>2</sup>Section on Cellular Signaling, Endocrinology and Reproduction Research Branch, NICHD, NIH, USA

**Thursday, November 10th, 2005**

**SYMPOSIUM 3: TRANSPORT STUDIES**

Organizers: Mitrović D, Rakić Lj

Chairmen: Zicha J, Mitrović D, Rakić Lj

9.00-9.30

**ERYTHROCYTE ION TRANSPORT ALTERATIONS IN HYPERTENSION AS A FUNCTION OF CELL MATURITY?**

Zicha J, Vokurková M, Dobešová Z, Loukotová J, Kuneš J

Cardiovascular Research Center, Institute of Physiology, Czech Academy of Sciences, Prague, Czech Republic

9.30-9.45

**PARAMETERS OF PURINE AND PYRIMIDINE NUCLEOSIDE UPTAKE INTO CARDIAC TISSUE**

Petrović M<sup>1</sup>, Marković I<sup>2</sup>, Isaković A<sup>2</sup>, Šćepanović Lj<sup>1</sup>, Rosić G<sup>3</sup>, Mitrović D<sup>1</sup>

<sup>1</sup>Institute of Medical Physiology, School of Medicine, Belgrade, <sup>2</sup>Institute of Biochemistry, School of Medicine, Belgrade, <sup>3</sup>Department of Physiology, Faculty of Medicine, University of Kragujevac, Serbia and Montenegro

9.45-10.00

**INVESTIGATION OF HYDROLYSIS OF ACETYL AND BENZOYL-TIAZOFURIN IN RAT PLASMA**

Tasić J

Pharm-Olam Group Ltd., Belgrade, Serbia and Montenegro

10.00-10.15

**YEAST AS A HOST TO STUDY MAMMALIAN Na<sup>+</sup>/H<sup>+</sup> ANTIPORTERS AND POTASSIUM CHANNELS**

Flegelova H, Kolacna L, Zimmermannova O, Sychrova H

Department of Membrane Transport, Institute of Physiology, Academy of Sciences CR, Prague, Czech Republic

10.15-10.30

**INTRODUCTION TO BLOOD-BRAIN BARRIER**

Rakić Lj

Serbian Academy of Sciences and Arts, Belgrade, Serbia and Montenegro

10.30-10.45

**EFFLUX OF NUCLEOSIDES THROUGH THE CHOROID PLEXUS EPITHELIUM IN VITRO**

Isaković A<sup>1</sup>, Misirlić-Denčić S<sup>1</sup>, Popadić D<sup>2</sup>, Redžić Z<sup>1</sup>

<sup>1</sup>Institute of Biochemistry, School of Medicine, University of Belgrade, <sup>2</sup>Institute of Microbiology and Immunology, School of Medicine, University of Belgrade, Serbia and Montenegro

10.45-11.00

**TRANSPORT OF NUCLEIC ACID PRECURSORS IN THE ISOLATED PERFUSED SHEEP CHOROID PLEXUS**

Marković I<sup>1</sup>, Redžić Z<sup>1</sup>, Gašić J<sup>2</sup>, Rakić Lj<sup>3</sup>

<sup>1</sup>Institute of Biochemistry, School of Medicine, University of Belgrade, <sup>2</sup>Faculty of Biology, University of Belgrade, <sup>3</sup>Serbian Academy of Sciences and Arts, Serbia and Montenegro

11.00-11.30 Pause

**SYMPOSIUM 4: EMOTIONS AND MOTIVATIONS**

Organizer: Sudakov KV

Chairmen: Sudakov KV, Gourine V

11.30-12.00

**MOTIVATION AND REINFORCEMENT: SYSTEM NEUROPHYSIOLOGICAL MECHANISMS**

Sudakov KV

P.K. Anokhin Institute of Normal Physiology, Russian Academy of Medical Sciences, Moscow, Russian Federation

12.00-12.15

**EMOTIONAL STRESS AND CYTOKINES**

Gourine VN, Gourine AV

Institute of Physiology, National Academy of Sciences of Belarus, Minsk, Belarus

12.15-12.30

**NEUROPHYSIOLOGICAL CONCOMITANTS OF MOTIVATED ATTENTION: PSYCHOPHYSIOLOGICAL INVESTIGATION**

Aftanas L

State-Research Institute of Physiology, the Siberian Branch of the Russian Academy of Medical Sciences, Novosibirsk, Russian Federation

12.30-12.45

**NEURONS OF SENSORIMOTOR CORTEX AND CAUDATE NUCLEUS OF THE BRAIN UNDER FEEDING MOTIVATION**

Filipović D<sup>1</sup>, Zhuravlev B<sup>2</sup>

<sup>1</sup>Medical Faculty, University of Novi Sad, Serbia and Montenegro, <sup>2</sup>P.K. Anokhin Science Research Institute of Normal Physiology, Russian Academy of Medical Sciences, Moscow, Russian Federation

12.45-13.30 Pause/Lunch

**FREE COMMUNICATIONS 3**

Chairmen: Šušić V, Stanojlović O

13.30-13.45

**SOME APPROACHES TO FUNCTION(S) OF SLEEP**

Šušić V

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

13.45-14.00

**VALPROATE AND DELTA-SLEEP PEPTIDE DISPLAY HIGH EFFICACY AGAINST METAPHIT-INDUCED AUDIOGENIC SEIZURE IN RATS**

Stanojlović O, Hrnčić D, Živanović D, Rašić A, Šušić V

*Institute of Medical Physiology, School of Medicine, University of Belgrade, Serbia and Montenegro*

14.00-14.15

**BENEFICIAL INTERACTION BETWEEN VALPROATE AND DSIP AGAINST SEIZURES INDUCED BY METAPHIT IN RATS**

Hrnčić D<sup>1</sup>, Stanojlović O<sup>1</sup>, Živanović D<sup>1</sup>, Rašić A<sup>1</sup>, Šušić V<sup>2</sup>

*<sup>1</sup>Institute of Medical of Physiology, School of Medicine, University of Belgrade, <sup>2</sup>Serbian Academy of Sciences and Arts, Serbia and Montenegro*

14.15-14.30

**PHYSIOLOGICAL CORRELATES OF SLEEP INERTIA**

Bojić T, Asti V, Cianci T, Ferrari V, Franzini C, Lenzi P, Silvani A, Zoccoli G

*Department of Human and General Physiology, University of Bologna, Bologna, Italy*

14.30-15.00 Pause

**WORKSHOP 1: HARMONIZATION OF PHYSIOLOGY TEACHING WITH EU STANDARDS**

Chairmen: Starčević V, Rosić G

15.00-15.15

**STATE REGULATIONS IN TEACHING PHYSIOLOGY IN GERMANY**

Heinle H

*Institute of Physiology, University of Tuebingen, Germany*

15.15-15.30

**MEDICAL PHYSIOLOGY TEACHING IN GREAT BRITAIN - HOW TO IMPLEMENT IT IN EU CANDIDATE COUNTRIES**

Fry C

*Department of Cell Physiology, Institute of Urology, United College of London, UK*

15.30-16.15

**POWERLAB SYSTEM - DATA ACQUISITION AND ANALYSIS IN CARDIOVASCULAR RESEARCH**

Mark de Reus, B(Eng) MSc(Med) Biomed

*ADInstruments GmbH, Spechbach, Germany*

16.15-16.30 Pause

**WORKSHOP 2: PHD PROGRAMS IN PHYSIOLOGICAL SCIENCES**

Chairmen: Arsenijević N, Spasić M, Maličević Ž

16.30-17.30

**PHD PROGRAMS IN PHYSIOLOGICAL SCIENCES AND HOW TO IMPLEMENT IT - EXPERIENCES FROM US AND CANADA UNIVERSITIES**

Malik KU<sup>1</sup>

*<sup>1</sup>Department of Pharmacology and Vascular Biology Center, College of Medicine, University of Tennessee Center for Health Sciences, Memphis, Tennessee, USA*

Dhalla NS<sup>2</sup>

*<sup>2</sup>Institute of Cardiovascular Sciences, St. Boniface General Hospital Research Centre, Faculty of Medicine, University of Manitoba, Winnipeg, Canada*

17.30-18.00 Pause

#### **FREE COMMUNICATIONS 4**

Chairmen: Saičić Z, Pajović S, Radenović L

18.00-18.15

##### **THE INVOLVEMENT OF IONOTROPIC GLUTAMATE NMDA AND AMPA/KAINATE RECEPTORS IN THE INDUCTION OF OXIDATIVE DAMAGE IN THE RAT CEREBELLUM**

Radenović L<sup>1</sup>, Selaković V<sup>2</sup>, Zrnić M<sup>3</sup>, Janac B<sup>3</sup>, Prolić Z<sup>3</sup>

<sup>1</sup>Department of Physiology and Biochemistry, Faculty of Biology, University of Belgrade, <sup>2</sup>Institute for Medical Research, Military Medical Academy, Belgrade, <sup>3</sup>Institute for Biological Research, Belgrade, Serbia and Montenegro

18.15-18.30

##### **CHRONIC AND ACUTE STRESS-INDUCED CHANGES IN ANTIOXIDANT ENZYME ACTIVITIES IN RAT HIPPOCAMPUS, BRAIN CORTEX AND LIVER**

Stojiljković V, Todorović A, Kasapović J, Pejić S, Pajović SB

Laboratory of Molecular Biology and Endocrinology, "Vinča" Institute of Nuclear Sciences, Belgrade, Serbia and Montenegro

18.30-18.45

##### **HUMAN MUSCLE FORMS FUNCTIONAL NEUROMUSCULAR JUNCTIONS IN COCULTURES WITH THE EMBRYONIC SPINAL CORD EXPLANTS OF MOUSE**

Jevsek M, Mars T

Laboratory for Molecular Neurobiology, Institute of Pathophysiology, Medical Faculty, University of Ljubljana, Slovenia

18.45-19.00

##### **NERVE GROWTH FACTORS PROMOTE FUNCTIONAL INNERVATION OF CULTURED HUMAN SKELETAL MUSCLE**

Mars T, Jevsek M

Laboratory for Molecular Neurobiology, Institute of Pathophysiology, School of Medicine, University of Ljubljana, Slovenia

**Friday, November 11th, 2005**

#### **FREE COMMUNICATIONS 5**

Chairmen: Čolić M, Lažetić B, Kovačević Z

13.30-13.45

##### **IMMUNOMODULATORY PROPERTIES OF THYMOLIP AND ITS FRACTIONS IN VITRO**

Čolić M<sup>1</sup>, Vučević D<sup>1</sup>, Gašić S<sup>1</sup>, Popović R<sup>2</sup>, Mrdaković D<sup>2</sup>, Radeta M<sup>2</sup>, Stevanović VM<sup>2</sup>, Jovanović S<sup>2</sup>, Popadić D<sup>2</sup>

<sup>1</sup>Institute for Medical Research, Military Medical Academy, Belgrade, <sup>2</sup>Galenika a.d. Belgrade, Serbia and Montenegro

13.45-14.00

##### **COMPARATIVE ANALYSIS OF DOSE-DEPENDENT EFFECTS OF TWO ANTITUMOR DRUGS ON ALKALINE PHOSPHATASE ACTIVITY IN INTESTINAL MUCOSA OF EXPERIMENTAL ANIMALS**

Bajin-Katić K<sup>1</sup>, Stankov K<sup>1</sup>, Kovačević Z<sup>2</sup>

<sup>1</sup>Department of Biochemistry, Medical Faculty, University of Novi Sad, <sup>2</sup>Serbian Academy of Sciences and Arts, Branch in Novi Sad, Serbia and Montenegro

14.00-14.15

##### **THE INFLUENCE OF LOW FREQUENCY ELECTROMAGNETIC FIELD ON SOME PHYSIOLOGICAL SYSTEM**

Lažetić B<sup>1</sup>, Matavulj M<sup>2</sup>, Rajković V<sup>2</sup>, Lažetić-Kasaš K<sup>3</sup>

<sup>1</sup>Faculty of Medicine, University of Novi Sad, <sup>2</sup>Department of Biology and Ecology, Faculty of Sciences, University of Novi Sad, <sup>3</sup>Faculty of Technical Sciences, Novi Sad, Serbia and Montenegro

14.15-14.30

**REGIONAL DIFFERENCES IN ANTIOXIDATIVE RESPONSE OF RAT BRAIN AFTER CRANIAL IRRADIATION**

Todorović A, Pejić S, Kasapović J, Stojiljković V, Pajović SB

*Laboratory of Molecular Biology and Endocrinology, "Vinča" Institute of Nuclear Sciences, Belgrade, Serbia and Montenegro*

14.30-14.45

**LOSS OF CONSCIOUSNESS AS CRITERION OF +Gz TOLERANCE AT INSTITUTE OF AVIATION MEDICINE MMA DURING +Gz ACCELERATION SELECTIVE TESTS**

Rudnjanin S, Mišović D

*Institute of Aviation Medicine of Military Medical Academy (IAM MMA), Belgrade, Serbia and Montenegro*

14.45-15.00

**LUNG FUNCTION AND MORPHOLOGY AFTER TREATMENT WITH LOW - DOSE SURFACTANT FORTIFIED WITH DEXTRAN IN NEWBORN RABBITS WITH RESPIRATORY FAILURE**

Calkovska A<sup>1</sup>, Some M<sup>2</sup>, Linderholm B<sup>2</sup>, Curstedt T<sup>2</sup>, Robertson B<sup>2</sup>

*<sup>1</sup>Department of Physiology, Jessenius Medical Faculty, Comenius University, Martin, Slovakia, <sup>2</sup>Laboratory for Surfactant Research, Karolinska University Hospital, Stockholm, Sweden*

15.00-15.15

**NON-ESTERIFIED FATTY ACIDS, INSULIN RESISTANCE AND HYPERTENSION**

Stojiljković MP

*Clinical Pharmacology Research Group, Institute of Public Health, Faculty of Health Sciences, Odense, Denmark*

15.15-15.30

**WAVELET ANALYSIS OF HEART RATE VARIABILITY DURING ORTHOSTATIC TESTING**

Belova N<sup>1</sup>, Piryova B<sup>2</sup>

*<sup>1</sup>Department of Physiology, Medical University of Sofia, <sup>2</sup>Department of Cognitive Sciences, New Bulgarian University, Sofia, Bulgaria*

15.30-16.00 Pause

**SYMPOSIUM 5: HYPERBARIC OXYGENATION**

Organizers: Polyakova L, Živković M

Chairmen: Polyakova L, Mujović V

16.00-16.15

**THE IMMUNOMODULATING EFFECTS OF HYPERBARIC OXYGEN THERAPY (HBOT) IN INTERNAL MEDICINE AND SURGERY**

Polyakova L<sup>1</sup>, Bunjatjan K<sup>2</sup>, Vinnitskij L<sup>2</sup>, Rodionov V<sup>2</sup>

*<sup>1</sup>Setchenov Moscow Medical Academy Hyperbaric Oxygen Therapy Department, <sup>2</sup>National Research Center for Surgery of the Russian Academy of Medical Science, Moscow, Russian Federation*

16.15-16.30

**NEUROPROTECTIVE EFFECT OF HYPERBARIC OXYGENATION (HBO) IN ACUTE CEREBRAL ISCHEMIA**

Romasenko M, Levina O, Krylov V

*Sklifosovsky Institute of the Emergency Medicine, Moscow, Russian Federation*

16.30-16.45

**HYPERBARIC OXYGEN IMPROVE POSTOPERATIVE RECOVERY OF LOW VASCULARISED TISSUES**

Mitrokhin A<sup>1</sup>, Tarasenkova N<sup>2</sup>, Kirasirova I<sup>2</sup>

*<sup>1</sup>Botkin Hospital, <sup>2</sup>ENT Scientific Researcher Center, Moscow, Russian Federation*

16.45-17.00

**THE EVALUATION OF HYPERBARIC OXYGENATION EFFECTS IN TREATMENT OF PERIPHERAL ARTERY DISEASE BY PERFUSION SCINTIGRAPHY 99m Tc-TETROPHOSMINE METHOD - A PILOT STUDY**

Zoranović U<sup>1</sup>, Živković M<sup>2</sup>, Mišović S<sup>1</sup>, Jevtić M<sup>1</sup>

*<sup>1</sup>Military Medical Academy, Clinic for General and Vascular Surgery, Belgrade, <sup>2</sup>HBO Medical Center, Belgrade, Serbia and Montenegro*

17.00-17.15

**USE OF HYPERBARIC OXYGENATION (HBO) AND ERYTHROPOIETIN IN THE TREATMENT OF HEART INSUFFICIENCY - A PILOT STUDY**

Živković M<sup>1</sup>, Tepić S<sup>1</sup>, Jakovljević V<sup>2</sup>, Mujović V<sup>3</sup>

<sup>1</sup>HBO Medical Center, Belgrade, <sup>2</sup>Department of Physiology, Faculty of Medicine, Kragujevac, <sup>3</sup>Institute of Medical Physiology, School of Medicine, Belgrade, Serbia and Montenegro

**Saturday, November 12th, 2005**

**FREE COMMUNICATIONS 6**

Chairmen: Fry C, Štrbák V, Pokorný J

9.00-9.30

**THE OVER-ACTIVE BLADDER - A PHYSIOLOGICAL SOLUTION**

Fry C

*Institute of Urology, University College of London, UK*

9.30-10.00

**UNIQUE SIGNALING PATHWAY FOR SWELLING INDUCED HORMONE SECRETION**

Štrbák V

*Institute of Experimental Endocrinology, Slovak Academy of Sciences, Bratislava, Slovak Republic*

10.00-10.30

**VANILLOID AND CANNABINOID RECEPTORS IN THE HAIR FOLLICLE - NOVEL, ENDOGENOUSLY ACTIVE PLAYERS IN HUMAN HAIR GROWTH CONTROL (?)**

Bíró T

*Department of Physiology, University of Debrecen, Medical and Health Science Center, Research Center for Molecular Medicine, Debrecen, Hungary*

10.30-11.00

**POSSIBILITIES TO STUDY THE PROCESS OF NEURONAL DIFFERENTIATION IN EMBRYONIC SUSPENSIONS**

Pokorný J, Seress L

*Institute of Physiology, First Faculty of the Charles University, Prague, Czech Republic*

11.00-11.30 Pause

**SYMPOSIUM 6: VASCULAR REACTIVITY IN DIFFERENT CONDITIONS**

Chairmen: Monos E, Javorka K, Petrescu G

11.30-12.00

**LOCAL MECHANISMS SUPPORTING ADAPTATION OF EXTREMITY VESSELS TO LONG -TERM CHANGES IN GRAVITATIONAL FORCES**

Monos E<sup>1</sup>, Raffai G<sup>1</sup>, Dörnyei G<sup>1</sup>, Fehér E<sup>2</sup>, Nádasy GL<sup>1</sup>

<sup>1</sup>Institute of Human Physiology and Clinical Experimental Research, <sup>2</sup>Department of Anatomy, Histology and Embryology, Semmelweis University, Budapest, Hungary

12.00-12.30

**ROLES OF RENIN-ANGIOTENSIN SYSTEM IN VENOUS TONE REGULATION**

Petrescu Gh<sup>1</sup>, Gurzu B<sup>1</sup>, Costuleanu M<sup>2</sup>

<sup>1</sup>Faculty of Medicine, Department of Physiology, <sup>2</sup>Faculty of Dentistry, Department of General Pathology, University of Medicine and Pharmacy "Gr. T Popa" Iasi, Romania

12.30-12.45

**STORE-OPERATED CALCIUM CHANNELS IN THE FUNCTIONAL CONTEXT OF SMOOTH MUSCLE CONTRACTION**

Serban DN, Serban IL

*Department of Physiology, University of Medicine and Pharmacy "Gr. T. Popa", Iasi, Romania*

12.45-13.00

**INHIBITORY EFFECTS OF APELIN ON ANGIOTENSIN II INDUCED CONTRACTIONS OF RAT PORTAL VEIN RINGS**

Gurzu B<sup>1</sup>, Slatineanu SM<sup>1</sup>, Dumitriu IL<sup>1</sup>, Gurzu MB<sup>3</sup>, Costuleanu M<sup>2</sup>, Petrescu Gh<sup>1</sup>

<sup>1</sup>Faculty of Medicine, Department of Physiology, <sup>2</sup>Faculty of Dentistry, Department of General Pathology, University of Medicine and Pharmacy "Gr. T Popa" Iasi, <sup>3</sup>Recovery Clinic Hospital, Iași, Romania

13.00-13.15

**HEART RATE AND BLOOD PRESSURE VARIABILITY IN YOUNG PATIENTS WITH TYPE 1 DIABETES MELLITUS**

Javorka M<sup>1</sup>, Tonhajzerova I<sup>1</sup>, Javorkova J<sup>2</sup>, Javorka K<sup>1</sup>

<sup>1</sup>Department of Physiology, Comenius University, Jessenius Medical Faculty, <sup>2</sup>Pediatric Clinic, University Hospital, Martin, Slovakia

13.15-13.30

**THE MULTIPLE MECHANISMS INVOLVED IN OBESITY-INDUCED HYPERTENSION**

Antić V, Montani JP

Division of Physiology, Department of Medicine, University of Fribourg, Switzerland

13.30-14.00 Pause

**FREE COMMUNICATIONS 7**

Chairmen: Cojocaru M, Stojiljković M, Janković S

14.00-14.15

**BIOANALYSES AS COMPLEMENTARY SCREENING TOOLS FOR INSTRUMENTAL ANALYSES IN XENOBIOTIC MONITORING**

Zorić S<sup>1</sup>, Vojinović-Miloradov M<sup>2</sup>, Jovetić S<sup>3</sup>, Andrić N<sup>1</sup>, Kovačević R<sup>1</sup>

<sup>1</sup>Faculty of Sciences, Department of Biology and Ecology, University of Novi Sad, <sup>2</sup>Faculty of Technical Sciences, University of Novi Sad, <sup>3</sup>Institute of Occupational Health, Novi Sad, Serbia and Montenegro

14.15-14.30

**EFFECTS OF GLUTAMATE RECEPTORS AGONISTS ON CONTRACTILE RESPONSE OF RAT ILEUM TO FIELD STIMULATION**

Janković MS, Janković VS, Milovanović RD

Faculty of Medicine, University of Kragujevac, Serbia and Montenegro

14.30-14.45

**ISCHEMIC STROKE IN ASYMPTOMATIC PATIENTS WITH CHRONIC HEPATITIS C VIRUS INFECTION ASSOCIATED WITH ANTICARDIOLIPIN ANTIBODIES**

Cojocaru M<sup>1</sup>, Cojocaru IM<sup>2</sup>, Botezat M<sup>3</sup>, Lazăr L<sup>3</sup>, Oprișan A<sup>3</sup>, Iacob SA<sup>4</sup>

<sup>1</sup>"Romar" Medical Center, "Colentina" Central Clinical Laboratory, <sup>2</sup>"C. Davila" University of Medicine and Pharmacy, Clinic of Neurology, "Colentina" Clinical Hospital, <sup>3</sup>Clinic of Neurology, "Colentina" Clinical Hospital, <sup>4</sup>"C. Davila" University of Medicine and Pharmacy, "M.Bals" Institute of Infectious Diseases, Bucharest, Romania

14.45-15.00

**CONCLUDING REMARKS/TAKE HOME MESSAGE**

Chairmen: Djurić D, Jakovljević V, Vanović M, Arsenijević N

15.30

**SERBIAN PHYSIOLOGICAL SOCIETY-GENERAL ASSEMBLY MEETING**

(Attendance allowed only for the members with regularly paid membership fee)

## **POSTER SESSIONS**

**Wednesday, November 9th, 2005**

9.00-18.30 **Poster Session 1**

(The presence of poster authors is required from 14.00 to 16.00)

Chairmen: Jovović Dj, Radenković M, Antić V

### **P 1 AFTEREFFECT OF HYPERBARIC OXYGENATION (HBO) ON PRO- AND ANTIOXIDANT REACTIONS IN LUNGS**

Yakovlev V, Yakovlev N

*Medical Academy, Voronezh, Russian Federation*

### **P 2 HYPERBARIC OXYGENATION AND PARTIAL HEPATECTOMY EFFECTS ON LIVER BLOODSTREAM, OXYGEN PRESSURE AND AMMONIA DETOXICATION IN THE LIVER UNDER CHRONIC HEPATITIS**

Savilov P, Yakovlev V

*Department of Physiology, Medical Academy, Voronezh, Russian Federation*

### **P 3 SURFACTANT-BL FOR ACUTE RESPIRATORY DISTRESS SYNDROME IN ADULT PATIENTS TREATMENT**

Vlasenko A<sup>1</sup>, Ostapchenko D<sup>2</sup>, Mitrokhin A<sup>1</sup>, Moroz V<sup>2</sup>, Rosenberg O, Zax I<sup>2</sup>

*<sup>1</sup>Botkin Hospital, <sup>2</sup>Scientific Institute of General Reanimatology, Moscow, Russian Federation*

### **P 4 THE MICROCIRCULATION VALUES IN PATIENTS WITH PROGRESSIVE SYSTEMIC SCLEROSIS EXPOSED TO HYPERBARIC OXYGEN THERAPY (HBOT)**

Polyakova L, Kamshilina L, Lukich V

*Setchenov Moscow Medical Academy, Moscow, Russian Federation*

### **P 5 AFTEREFFECT OF HYPERBARIC OXYGENATION IN CLINICAL CONDITIONS ON HEALTHY ORGANISM BRAIN**

Vasilev N, Shepeleva Y

*Medical Academy, Voronezh, Russian Federation*

### **P 6 THE EFFECTS OF DIPYRIDAMOLE ON CORONARY FLOW, NITRITE OUTFLOW AND OXIDATIVE STRESS DURING CORONARY AUTOREGULATION IN ISOLATED RAT HEART**

Jakovljević VL<sup>1</sup>, Mujović VM<sup>2</sup>, Ranković A<sup>1</sup>, Radisavljević M<sup>1</sup>, Azanjac A<sup>1</sup>, Djurić DM<sup>2</sup>

*<sup>1</sup>Department of Physiology, Faculty of Medicine, University of Kragujevac, <sup>2</sup>Institute of Medical Physiology, School of Medicine, University of Belgrade, Serbia and Montenegro*

### **P 7 POLYUNSATURATED FATTY ACID STATUS OF TYPE-2 DIABETIC PATIENTS WITH HYPERLIPIDEMIA**

Arsić A, Poštić M, Ristić-Medić D, Blaženčić-Mladenović V, Tepšić J, Glibetić M

*Institute for Medical Research, Laboratory for Nutrition and Metabolism, Belgrade, Serbia and Montenegro*

### **P 8 PLASMA MARKERS OF ENDOTHELIAL DYSFUNCTION IN TYPE-2 DIABETES PATIENTS**

Moldoveanu E<sup>1</sup>, Kosaka T<sup>2</sup>, Manea G<sup>1</sup>, Marta DS<sup>1</sup>, Manole G<sup>3</sup>, Cristescu C<sup>3</sup>, Cristescu V<sup>3</sup>

*<sup>1</sup>"Victor Babes" National Institute of Research and Development in Pathology and Biomedical Sciences, Bucharest, <sup>2</sup>Diagnostics R&D, Alfresa Pharma Corporation, Osaka, Japan, <sup>3</sup>"Titu Maiorescu" University, Bucharest, Romania*

### **P 9 IMPORTANCE OF COORDINATED EXPRESSION OF NO AND CO PRODUCING SYSTEMS IN REGULATION OF IBAT HOMEOSTASIS**

Petrović V<sup>1</sup>, Buzadžić B<sup>1</sup>, Korać A<sup>2</sup>, Vasiljević A<sup>1</sup>, Janković A<sup>1</sup>, Korać B<sup>1</sup>

*<sup>1</sup>Department of Physiology, Institute for Biological Research "Siniša Stanković", University of Belgrade, <sup>2</sup>Institute of Zoology, Faculty of Biology, University of Belgrade, Serbia and Montenegro*

### **P 10 MITOCHONDRIAL INTEGRITY AND FUNCTION IN ATHEROGENESIS**

Kojić Z<sup>1</sup>, Šćepanović Lj<sup>1</sup>

*<sup>1</sup>Institute of Medical Physiology, School of Medicine, University of Belgrade, Serbia and Montenegro*

### **P 11 BIOMARKERS OF MYOCARDIAL DAMAGE IN ACUTE CORONARY SYNDROME**

Vučeljić M<sup>1</sup>, Marković M<sup>2</sup>, Pejović J<sup>1</sup>

*<sup>1</sup>Institute of Medical Biochemistry, <sup>2</sup>Clinic of Emergency Medicine, Military Medical Academy, Belgrade, Serbia and Montenegro*

**P 12 MATRIX METALLOPROTEASES 2- AND 9 IN ACUTE CORONARY SYNDROME**

Stanković S<sup>1</sup>, Brajović M<sup>2</sup>, Dimković S<sup>2</sup>, Marković N<sup>2</sup>, Gopčević K<sup>1</sup>

<sup>1</sup>*Institute of Chemistry, School of Medicine, University of Belgrade*, <sup>2</sup>*KBC Zvezdara University Hospital, Belgrade, Serbia and Montenegro*

**P 13 CIRCULATING APOPTOTIC CELLS AND HETEROTYPIC CELLULAR AGGREGATES IN PATIENTS WITH UNSTABLE ANGINA**

Marta DS<sup>1</sup>, Tanaseanu C<sup>2</sup>, Tanaseanu S<sup>3</sup>, Manole G<sup>4</sup>, Moldoveanu E<sup>1</sup>

<sup>1</sup>*"Victor Babes" National Institute of Research and Development in Pathology and Biomedical Sciences, Ultrastructural Pathology Department, Bucharest*, <sup>2</sup>*"Sf. Pantelimon" Emergency Hospital, Bucharest*, <sup>3</sup>*Colentina Hospital, Bucharest*, <sup>4</sup>*"Titu Maiorescu" University, Bucharest, Romania*

**P 14 PLASMA MARKERS OF ENDOTHELIAL DYSFUNCTION IN PATIENTS WITH CHRONIC STABLE ANGINA**

Manea G<sup>1</sup>, Kosaka T<sup>2</sup>, Tanaseanu C<sup>3</sup>, Cojan A<sup>3</sup>, Marta DS<sup>1</sup>, Moldoveanu E<sup>1</sup>

<sup>1</sup>*"Victor Babes" National Institute of Research and Development in Pathology and Biomedical Sciences, Ultrastructural Pathology Department, Bucharest*, <sup>2</sup>*Diagnostics R&D, Alfresa Pharma Corporation, Osaka, Japan*, <sup>3</sup>*"Sf. Pantelimon" Emergency Hospital, Internal Medicine Department, Bucharest, Romania*

**P 15 PHYSIOLOGICAL REGULATION OF CONTRACTILITY AND OXYGEN CONSUMPTION IN RAT HEART BY NITRIC OXIDE**

Pavlović M, Kojić Z, Djurić D

*Institute of Medical Physiology, School of Medicine, University of Belgrade, Belgrade, Serbia and Montenegro*

**P 16 MEASURING CIRCULATING OXIDIZED LDL, MYELOPEROXIDASE, SELECTIN-P, LIPOPROTEIN ASSOCIATED PHOSPHOLIPASE A2 AND PARAOXONASE TO EVALUATE VASCULAR RISK**

Tanaseanu C<sup>1</sup>, Moldoveanu E<sup>2</sup>, Tanaseanu S<sup>3</sup>, Tamsula I<sup>1</sup>

<sup>1</sup>*"Sf. Pantelimon" Emergency Hospital, Bucharest*, <sup>2</sup>*"Victor Babes" Institute, Bucharest*, <sup>3</sup>*Colentina Hospital, Bucharest, Romania*

**P 17 RELAXING EFFECTS OF NOVEL ANTI-LEUKOTRIENE COMPOUNDS IN RAT AORTA DO NOT CORRELATE WITH THEIR ANTI-LEUKOTRIENE PROPERTIES**

Serban DN, Serban IL, Nechifor M

*Departments of Physiology and Pharmacology, University of Medicine and Pharmacy "Gr. T. Popa", Iasi, Romania*

**P 18 THE EFFECT OF ANGIOTENSIN II TYPE 1 RECEPTOR BLOCKER LOSARTAN ON ENDOTHELIUM AND ENZYMATIC ANTIOXIDANT DEFENSE SYSTEM IN EXPERIMENTAL DIABETES**

Kamper M, Tsimpoukidi O, Chatzigeorgiou A, Lyberi M, Kopeikina L, Kamper E

*Departments of Experimental Physiology, Medical School, University of Athens, Athens, Greece*

**P 19 THE EFFECT OF L-NAME ON CU-ZN/SOD AND IT'S COFACTORS IN DIABETIC RATS**

Kocaturk AP, Kavas OO

*Department of Pathophysiology, School of Medicine, Ankara University, Ankara, Turkey*

**P 20 THE EFFECT OF TOCOPHEROL ON IRON CONTENT IN SERUM AND AORTA TISSUE IN EXPERIMENTAL ATHEROSCLEROSIS**

Vučević D<sup>1</sup>, Milovanović I<sup>1</sup>, Žunić-Božinovski S<sup>1</sup>, Radosavljević T<sup>1</sup>, Djarmati D<sup>2</sup>, Pešić BČ<sup>1</sup>,

Djordjević-Denić G<sup>1</sup>

<sup>1</sup>*Institute of Pathophysiology, School of Medicine, University of Belgrade*, <sup>2</sup>*Institute for Public Health of Serbia, Belgrade, Serbia and Montenegro*

**P 21 EFFECTS OF APELIN AND ANGIOTENSIN II ON ACETHYLCHOLINE-INDUCED CONTRACTIONS OF RAT BRONCHIAL RINGS**

Dumitriu IL<sup>1</sup>, Gurzu B<sup>1</sup>, Costuleanu M<sup>2</sup>, Petrescu Gh<sup>1</sup>

<sup>1</sup>*Faculty of Medicine, Department of Physiology*, <sup>2</sup>*Faculty of Dentistry, Department of General Pathology, University of Medicine and Pharmacy "Gr. T Popa" Iasi, Romania*

**P 22 ENDOTHELIUM-INDEPENDENT ARTERIAL RELAXATION BY ESTRADIOL RELIES ON INHIBITION OF L-TYPE CALCIUM CHANNELS**

Serban DN, Serban IL

*Department of Physiology, University of Medicine and Pharmacy "Gr. T. Popa", Iasi, Romania*

**P 23 INFLUENCE OF THE CONTRACTING AGENTS ON THE RELATIVE IMPORTANCE OF ENDOTHELIUM-DEPENDENT RELAXATION MECHANISMS IN RESISTANCE ARTERIES**

Serban IL, Slatineanu SM, Petrescu G

*Department of Physiology, University of Medicine and Pharmacy "Gr. T. Popa", Iasi, Romania*

**P 24 USE OF VOLTAGE-DEPENDENT CALCIUM INFLUX BY ANGIOTENSIN II AND OTHER VASOCONSTRICTORS IN HUMAN UMBILICAL VESSELS**

Serban D N, Slatineanu S, Oprisa C, Petrescu G

*Department of Physiology, University of Medicine and Pharmacy "Gr. T. Popa", Iasi, Romania*

**P 25 THE USE OF FIBRIN SEALANT IN EXPERIMENTAL MODELS OF UNCONTROLLED ARTERIAL AND PARENCHYMAL HEMORRHAGE**

Maličević Ž<sup>1</sup>, Balint B<sup>2</sup>, Ninković M<sup>1</sup>, Ostojić G<sup>2</sup>, Vasiljević I<sup>1</sup>

*Institute for Medical Research, <sup>2</sup>Institute for Transfusiology, Military Medical Academy, Belgrade, Serbia and Montenegro*

**P 26 IMPACT OF LOW MOLECULAR MASS POLYLYSINE DENDRIMERS ON ERYTHROCYTE MEMBRANES**

Jokiel M<sup>1</sup>, Lipkowska Z<sup>2</sup>, Bryszewska M<sup>1</sup>

*<sup>1</sup>Department of General Biophysics, University of Lodz, Lodz, <sup>2</sup>Institute of Organic Chemistry, Polish Academy of Science, Warsaw, Poland*

**P 27 L-ARGININE - SODIUM NITROPRUSSIDE INTERACTION STUDIED ON RENAL AND MESENTERIC ARTERIES OF NORMOTENSIVE AND HYPERTENSIVE RATS**

Oreščanin Z<sup>1</sup>, Milovanović S<sup>1</sup>, Spasić M

*<sup>1</sup>Institute for Medical Research, Military Medical Academy, Belgrade, <sup>2</sup>Institute for Biological Research, "Siniša Stanković", Belgrade, Serbia and Montenegro*

**P 28 STEREOLOGICAL ANALYSIS OF THE MOTOR NUCLEUS OF THE TRIGEMINAL NERVE**

Sladojević I, Bućma T, Krivokuća Z, Gajanin V

*Department of Anatomy, Faculty of Medicine, Banjaluka, Bosnia and Herzegovina*

**P 29 THE DELAYED EFFECTS OF PHENCYCLIDINE ON BODY TEMPERATURE IN THE RAT**

Petronijević ND<sup>1</sup>, Radonjić NV<sup>1</sup>, Vučković SM<sup>2</sup>, Prostran MŠ<sup>2</sup>, Nešić ZI<sup>2</sup>, Paunović VR<sup>3</sup>

*<sup>1</sup>Institute of Biochemistry, School of Medicine, University of Belgrade, <sup>2</sup>Institute of Pharmacology and Toxicology, School of Medicine, University of Belgrade, <sup>3</sup>Institute of Psychiatry, School of Medicine, University of Belgrade, Belgrade, Serbia and Montenegro*

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Radonjić NV<sup>1</sup>, Paunović VR<sup>3</sup>, Vučković SM<sup>2</sup>, Prostran MŠ<sup>2</sup>, Nešić ZI<sup>2</sup>, Petronijević ND<sup>1</sup>

*<sup>1</sup>Institute of Biochemistry, School of Medicine, University of Belgrade, <sup>2</sup>Institute of Pharmacology and Toxicology, School of Medicine, University of Belgrade, <sup>3</sup>Institute of Psychiatry, School of Medicine, University of Belgrade, Belgrade, Serbia and Montenegro*

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Vasiljević ID, Jovanović MD, Ninković M

*Military Medical Academy - Institute for Medical Research, Belgrade, Serbia and Montenegro*

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Hindmarch C<sup>1</sup>, Yao S<sup>1</sup>, Beighton G<sup>2</sup>, Paton J<sup>3</sup>, Murphy D<sup>1</sup>

*<sup>1</sup>The Henry Wellcome Laboratories for Integrative Neuroscience and Endocrinology, University of Bristol, <sup>2</sup>Geneservice Ltd, Cambridge, <sup>3</sup>Department of Physiology, University of Bristol, UK*

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Qiu J, Gouraud SS, Yao ST, Murphy D

*Henry Wellcome Laboratory for Integrative Neuroscience and Endocrinology, University of Bristol, UK*

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Gouraud SS<sup>1</sup>, Yao ST<sup>1</sup>, Qiu J<sup>1</sup>, Suksanpaisan L<sup>2</sup>, Paton JFR<sup>3</sup>, Murphy D<sup>1</sup>

*<sup>1</sup>Henry Wellcome L.I.N.E, University of Bristol, UK, <sup>2</sup>Mahidol University, Salaya Campus, Thailand, <sup>3</sup>Department of Physiology, Bristol Heart Institute, University of Bristol, UK*

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Radenović L<sup>1</sup>, Selaković V<sup>2</sup>, Kartelija G<sup>3</sup>, Janac B<sup>3</sup>, Prolić Z<sup>3</sup>

<sup>1</sup>Department of Physiology and Biochemistry, Faculty of Biology, University of Belgrade, <sup>2</sup>Institute for Medical Research, Military Medical Academy, Belgrade, <sup>3</sup>Institute for Biological Research, Belgrade, Serbia and Montenegro

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Lopičić S<sup>1</sup>, Pavlović D<sup>2</sup>, Nedeljkov V<sup>1</sup>

<sup>1</sup>Institute for Pathological Physiology, School of Medicine, University of Belgrade, Serbia and Montenegro, <sup>2</sup>Klinik und Poliklinik für Anaesthesie und Intensivmedizin, Ernst-Moritz-Arndt Universität, Greifswald, Germany

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Nedeljkov V<sup>1</sup>, Lopičić S<sup>1</sup>, Čemerikić D<sup>1</sup>, Pavlović D<sup>2</sup>

<sup>1</sup>Institute for Pathological Physiology, School of Medicine, University of Belgrade, Serbia and Montenegro, <sup>2</sup>Klinik und Poliklinik für Anaesthesie und Intensivmedizin, Ernst-Moritz-Arndt Universität, Greifswald, Germany

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Radenović L<sup>1</sup>, Selaković V<sup>2</sup>, Nedeljković M<sup>3</sup>, Janac B<sup>3</sup>, Prolić Z<sup>3</sup>

<sup>1</sup>Department of Physiology and Biochemistry, Faculty of Biology, University of Belgrade, <sup>2</sup>Institute for Medical Research, Military Medical Academy, Belgrade, <sup>3</sup>Institute for Biological Research, Belgrade, Serbia and Montenegro

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Radenović L<sup>1</sup>, Selaković V<sup>2</sup>, Todorović D<sup>3</sup>, Janac B<sup>3</sup>, Prolić Z<sup>3</sup>

<sup>1</sup>Department of Physiology and Biochemistry, Faculty of Biology, University of Belgrade, <sup>2</sup>Institute for Medical Research, Military Medical Academy, Belgrade, <sup>3</sup>Institute for Biological Research, Belgrade, Serbia and Montenegro

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Petrović B<sup>1</sup>, Djordjević D<sup>1</sup>, Minić S<sup>2</sup>, Minić J<sup>2</sup>, Pešić B<sup>1</sup>

<sup>1</sup>Institute of Pathological Physiology, School of Medicine, University of Belgrade, <sup>2</sup>Institute of Dermatovenereology, School of Medicine, University of Belgrade, Serbia and Montenegro

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Kavas OO<sup>1</sup>, Kocaturk AP<sup>1</sup>, Tuncel D<sup>2</sup>, Aydın N<sup>2</sup>, Sarıkaya S<sup>2</sup>

<sup>1</sup>Department of Pathophysiology and <sup>2</sup>Department of Neurology, School of Medicine, Ankara University, Ankara, Turkey

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Biševac B<sup>1</sup>, Milanović Z<sup>1</sup>, Radović D<sup>1</sup>, Nestorović V<sup>1</sup>, Smiljić S<sup>1</sup>, Dragić S<sup>1</sup>, Pavlović S<sup>2</sup>, Pavlović M<sup>2</sup>

<sup>1</sup>Institute of Physiology, Medical Faculty, University of Pristina-Kosovska Mitrovica, <sup>2</sup>Institute of Anatomy, Medical Faculty, University of Nis, Serbia and Montenegro

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Sladojević I, Bućma T, Krivokuća Z, Gajanin V

Department of Anatomy, Faculty of Medicine, Banjaluka, Bosnia and Herzegovina

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Vitanova LA

Department of Physiology, Medical University, Sofia, Bulgaria

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Kupenova P, Vitanova L, Popova E, Mitova L

Department of Physiology, Medical University, Sofia, Bulgaria

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Katanić J<sup>1</sup>, Filipović D<sup>2</sup>

<sup>1</sup>Institute for Children and Youth Health Protection, Faculty of Medicine, Novi Sad, <sup>2</sup>Department of Physiology, Faculty of Medicine, Novi Sad, Serbia and Montenegro

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Radenković M<sup>1</sup>, Ivetić V<sup>2</sup>, Veljković S<sup>1</sup>, Branković S<sup>1</sup>, Nešić M<sup>1</sup>

<sup>1</sup>Department of Physiology, Faculty of Medicine, University of Niš, <sup>2</sup>Institute of Physiology, Faculty of Medicine, Novi Sad, Serbia and Montenegro

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<sup>1</sup>Institute for Medical Research, Laboratory for Nutrition and Metabolism, Belgrade, <sup>2</sup>Internal Clinic Gastroenterology, Clinical Centre "Dr Dragiša Mišović", Belgrade, Serbia and Montenegro

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Radovanović D<sup>1</sup>, Ranković G<sup>2</sup>

<sup>1</sup>Faculty of Physical Education, Niš, <sup>2</sup>Institute of Physiology, Faculty of Medicine, Niš, Serbia and Montenegro

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Mocanu V, Haliga R, Oboroceanu T, Paduraru I, Luca V

Department of Pathophysiology, University of Medicine and Pharmacy "Gr. T. Popa" Iasi, Romania

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Mocanu V<sup>1</sup>, Stoica AR<sup>2</sup>, Haliga R<sup>1</sup>, Stitt PA<sup>3</sup>, Luca V<sup>1</sup>, Zbranca E<sup>2</sup>, Arjmandi BH<sup>4</sup>

<sup>1</sup>Department of Pathophysiology and <sup>2</sup>Endocrinology, University of Medicine and Pharmacy, Iasi, Romania,

<sup>3</sup>Nutritional Resource Foundation T, Manitowoc, USA, <sup>4</sup>Department of Nutritional Sciences, Oklahoma State University, Stillwater, USA

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Haliga R<sup>1</sup>, Mocanu V<sup>1</sup>, Oboroceanu T<sup>2</sup>, Colev Luca V<sup>1</sup>

<sup>1</sup>Pathophysiology Department, University of Medicine and Pharmacy "Gr. T. Popa" Iasi, <sup>2</sup>Biochemistry Department, Univ. "Al. I. Cuza", Iasi, Romania

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Luca CV, Mocanu V, Ciurea E, Haliga R

Department of Pathophysiology, University of Medicine and Pharmacy "Gr. T. Popa" Iasi, Romania

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Stojiljković N<sup>1</sup>, Veljković S<sup>1</sup>, Stoiljković M<sup>2</sup>, Ranković G<sup>1</sup>, Pavlović V<sup>1</sup>, Radovanović D<sup>3</sup>

<sup>1</sup>Department of Physiology, Faculty of Medicine, University of Niš, <sup>2</sup>Faculty of Medicine, University of Niš,

<sup>3</sup>Faculty of Physical Education, University of Niš, Serbia and Montenegro

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Radosavljević T<sup>1</sup>, Todorović V<sup>2</sup>, Šikić B<sup>1</sup>, Vučević D<sup>1</sup>

<sup>1</sup>Institute of Pathophysiology, School of Medicine, University of Belgrade, <sup>2</sup>Institute for Medical Research, Belgrade, Serbia and Montenegro

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Radosavljević T<sup>1</sup>, Todorović V<sup>2</sup>, Šikić B<sup>1</sup>, Nikolić JA<sup>3</sup>, Vučević D

<sup>1</sup>Institute of Pathophysiology, School of Medicine, University of Belgrade, <sup>2</sup>Institute for Medical Research,

Belgrade, <sup>3</sup>INEP-Institute for the Application of Nuclear Energy, Belgrade, Serbia and Montenegro

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Šćepanović Lj, Vučković V, Kojić Z, Suzić S

Institute of Medical Physiology, School of Medicine, University of Belgrade, Serbia and Montenegro

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Šćepanović Lj, Vučković V, Suzić S, Kojić Z

*Institute of Medical Physiology, School of Medicine, University of Belgrade, Serbia and Montenegro*

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Šćepanović Lj, Kojić Z, Suzić S, Vučković V

*Institute of Medical Physiology, School of Medicine, University of Belgrade, Serbia and Montenegro*

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Dragutinović V<sup>1</sup>, Radovanović N<sup>2</sup>, Izrael-Živković L<sup>1</sup>, Vrvic M<sup>3</sup>

*<sup>1</sup>Institute of Chemistry, School of Medicine, University of Belgrade, <sup>2</sup>Institute of Gastrointestinal Diseases, Center of Esophagogastric Surgery, Clinical Center of Serbia, Belgrade, <sup>3</sup>Faculty of Chemistry, University of Belgrade, Serbia and Montenegro*

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Stevanović D<sup>1</sup>, Milošević V<sup>2</sup>, Velkovski S<sup>1</sup>, Ajdžanović V<sup>2</sup>, Nešić D<sup>1</sup>, Starčević V<sup>1</sup>

*<sup>1</sup>Institute of Medical Physiology, School of Medicine, University of Belgrade, <sup>2</sup>Institute of Biological Research "Siniša Stanković", Belgrade, Serbia and Montenegro*

**Thursday, November 10th, 2005**

**9.00-19.00 Poster Session 2**

(The presence of poster authors is required from 14.00 to 16.00)

Chairmen: Marković I, Korać B, Kostić T

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**P-GLYCOPROTEIN ACTIVITY**

Ilic K<sup>1</sup>, Sigel A<sup>2</sup>, Japa S<sup>2</sup>, Lertora J<sup>2</sup>

*<sup>1</sup>School of Pharmacy, University of Belgrade, Serbia and Montenegro, <sup>2</sup>General Clinical Research Center, Tulane University, New Orleans, USA*

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Sherstnev VV<sup>1</sup>, Gruden MA<sup>1</sup>, Elistratova EI<sup>1</sup>, Shalavin AN<sup>2</sup>, Yakovleva NE<sup>1</sup>, Sherokov EA<sup>2</sup>, Yurasov VV<sup>1</sup>, Deneschuk IS<sup>2</sup>

*<sup>1</sup>P.K.Anokhin Institute of Normal Physiology, RAMS, Moscow, <sup>2</sup>P.V. Mandrake Second Central Military Clinical Hospital, Moscow, Russian Federation*

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Bugarški D, Mojsilović S, Krstić A, Vlaški M, Petakov M, Jovčić G, Stojanović N, Milenković P

*Institute for Medical Research, Beograd, Serbia and Montenegro*

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Pantić VS<sup>1</sup>, Turjačanin D<sup>1</sup>, Pantić S<sup>2</sup>

*<sup>1</sup>Institute of Medical Physiology, School of Medicine, University of Belgrade, <sup>2</sup>Institute of Histology and Embriology, School of Medicine, University of Belgrade, Serbia and Montenegro*

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Mojsilović S<sup>1,2</sup>, Bufan B<sup>1</sup>, Majstorović I<sup>1</sup>, Pavlović B<sup>1</sup>, Vučević D<sup>1</sup>, Vučićević D<sup>1</sup>, Vasilijević S<sup>1</sup>, Jovčić G<sup>2</sup>, Bugarški D<sup>2</sup>, Milenković P<sup>2</sup>, Čolić M<sup>1</sup>

*<sup>1</sup>Institute for Medical Research, Military Medical Academy, Belgrade, <sup>2</sup>Institute for Medical Research, Belgrade, Serbia and Montenegro*

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Bufan B<sup>1,2</sup>, Mojsilović S<sup>1,3</sup>, Majstorović I<sup>1</sup>, Vučević D<sup>1</sup>, Vučićević D<sup>1,2</sup>, Vasilijević S<sup>1</sup>, Vasilev S<sup>1</sup>, Čolić M<sup>1</sup>

*<sup>1</sup>Institute for Medical Research, Military Medical Academy, Belgrade, <sup>2</sup>Institute for Microbiology and Immunology, School of Pharmacy, Belgrade, <sup>3</sup>Institute for Medical Research, Belgrade, Serbia and Montenegro*

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Krstić D<sup>1</sup>, Joksić G<sup>2</sup>, Vasić V<sup>2</sup>

<sup>1</sup>Institute of Chemistry, University of Belgrade, School of Medicine, <sup>2</sup>Vinča Institute of Nuclear Sciences, Belgrade, Serbia and Montenegro

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Popović S, Arsenijević N, Delibašić Dj, Baskić D

*Institute of Microbiology and Immunology, Faculty of Medicine, University of Kragujevac, Serbia and Montenegro*

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Vučević D, Gašić S, Vasilijić S, Vučićević D, Majstorović I, Čolić M

*Institute for Medical Research, Military Medical Academy, Belgrade, Serbia and Montenegro*

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Vasilev S<sup>1</sup>, Majstorović I<sup>1</sup>, Vučićević D<sup>1</sup>, Gašić S<sup>1</sup>, Vasilijić S<sup>1</sup>, Bufan B<sup>1</sup>, Čupić V<sup>2</sup>, Čolić M<sup>1</sup>

<sup>1</sup>Institute for Medical Research, Military Medical Academy, Belgrade, <sup>2</sup>Department of Pharmacology and Toxicology, Faculty of Veterinary Medicine, Belgrade, Serbia and Montenegro

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Pavlović B, Mojsilović S, Majstorović I, Vasilijić S, Bufan B, Janković S, Čolić M

*Institute for Medical Research, Military Medical Academy Belgrade, Serbia and Montenegro*

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Prelovsek O, Jevsek M, Mars T

*Institute of Pathophysiology, School of Medicine, University of Ljubljana, Ljubljana, Slovenia*

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Mališić E<sup>1</sup>, Janković R<sup>1</sup>, Ristanović M<sup>2</sup>, Čolaković S<sup>1</sup>, Branković-Magić M<sup>1</sup>, Radulović S<sup>1</sup>

<sup>1</sup>Institute for Oncology and Radiology of Serbia, Belgrade, <sup>2</sup>School of Medicine, University of Belgrade, Belgrade, Serbia and Montenegro

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Borović M<sup>1</sup>, Ilić N<sup>1</sup>, Jovanović B<sup>1</sup>, Radović B<sup>2</sup>, Savić O<sup>3</sup>, Jagličić I<sup>3</sup>, Petrović M<sup>1</sup>, Sofronić-Milosavljević Lj<sup>1</sup>

<sup>1</sup>Institute for the Application of Nuclear Energy - INEP, Belgrade, <sup>2</sup>Medical Center "St. Luka", Smederevo, <sup>3</sup>Department of Immunochemistry, Blood Transfusion Institute, Belgrade, Serbia and Montenegro

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Tapušević B, Janković M

*Institute for the Application of Nuclear Energy, INEP, Zemun, Serbia and Montenegro*

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Gruden-Movsesijan A<sup>1</sup>, Mostarica-Stojković M<sup>2</sup>, Ilić N<sup>1</sup>, Stošić-Grujičić S<sup>3</sup>, Borović M<sup>1</sup>,

Sofronić-Milosavljević Lj<sup>1</sup>

<sup>1</sup>Institute for the Application of Nuclear Energy, Belgrade, <sup>2</sup>Institute of Microbiology and Immunology, University of Belgrade, <sup>3</sup>Department for Neurobiology and Immunology, Institute for Biological Research "Siniša Stanković", Belgrade, Serbia and Montenegro

**P 78 HEMATOPOIETIC CHANGES AND ALTERED REACTIVITY TO IL-17 IN SYPHACIA OBVELATA-INFECTED MICE**

Bugarški D<sup>1</sup>, Krstić A<sup>1</sup>, Jovčić G<sup>1</sup>, Katić-Radivojević S<sup>2</sup>, Petakov M<sup>1</sup>, Stojanović N<sup>1</sup>, Milenković P<sup>1</sup>

<sup>1</sup>Institute for Medical Research, Belgrade, <sup>2</sup>Faculty of Veterinary Medicine, Department of Parasitology, Belgrade, Serbia and Montenegro

**P 79 ZOLEDRONIC ACID MODULATE DIFFERENTIALLY THE PTHRP EXPRESSION IN PC-3 PROSTATE CANCER CELLS**

Tenta R, Panteleakou Z, Sourla A, Koutsilieris M

*Department of Experimental Physiology, Medical School, University of Athens, Greece*

**P 80 PTHRP EXPRESSION IN MG-63 OSTEOBLAST-LIKE OSTEOSARCOMA CELLS**

Tenta R, Panteleakou Z, Sourla A, Koutsilieris M

*Department of Experimental Physiology, Medical School, University of Athens, Greece*

**P 81 GLUTAMATERGIC SYSTEM IN MG-63 OSTEOSARCOMA OSTEOBLAST-LIKE CELLS**

Kalariti N, Panteleakou Z, Koutsilieris M

*Department of Experimental Physiology, Medical School, University of Athens, Greece*

**P 82 PLASMA MARKERS OF ENDOTHELIAL DYSFUNCTION IN SYSTEMIC LUPUS ERYTHEMATOSUS**

Tanaseanu S<sup>1</sup>, Tanaseanu C<sup>2</sup>, Marta DS<sup>3</sup>, Manea G<sup>3</sup>, Moldoveanu E<sup>3</sup>

<sup>1</sup>Colentina Hospital, Bucharest, <sup>2</sup>"Sf. Pantelimon" Emergency Hospital, Bucharest, <sup>3</sup>"Victor Babes" Institute, Bucharest, Romania

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Petrovic-Rackov Lj

*Clinic of Rheumatology and Clinical Immunology, Military Medical Academy, Belgrade, Serbia and Montenegro*

**P 84 APOPTOTIC CAPACITY OF PULMONARY TISSUE IN PATHOGENESIS OF EXPERIMENTAL PULMONARY EMPHYSEMA**

Žunić-Božinovski S<sup>1</sup>, Žunić S<sup>2</sup>, Vučević D<sup>1</sup>, Milovanović I<sup>1</sup>, Djordjević D<sup>1</sup>, Stojanović J<sup>1</sup>, Djordjević-Denić G<sup>1</sup>

<sup>1</sup>Institute for Pathophysiology, School of Medicine, Belgrade, <sup>2</sup>Institute for Nuclear Medicine, Clinical Centre of Serbia, Belgrade, Serbia and Montenegro

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Šošić-Jurjević B, Filipović B, Ajdzanović V, Brkić D, Milošević V, Sekulić M

*Institute for Biological Research, Belgrade, Serbia and Montenegro*

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Andrić SA, Kostić TS, Porgmić K, Kovačević RŽ

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

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Kostić TS, Andrić SA, Peno N, Kovačević RŽ

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

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<sup>1</sup>Institute of Pathophysiology, School of Medicine, University of Ljubljana, Slovenia, <sup>2</sup>Institute of Nuclear Sciences "Vinča"«, Laboratory of Molecular Biology and Endocrinology, Belgrade, Serbia and Montenegro

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<sup>1</sup>Department of Pathophysiology, Faculty of Medicine, Banja Luka, <sup>2</sup>International Dialysis Centre, Banja Luka, <sup>3</sup>Department of Medical Biochemistry, Clinical Centre, Banja Luka, Bosnia and Herzegovina

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Savin S, Cvejić D

*INEP-Institute for the Application of Nuclear Energy, Zemun-Belgrade, Serbia and Montenegro*

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*Institute for the Application of Nuclear Energy, INEP, Zemun, Serbia and Montenegro*

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Masnikosa R, Baričević I, Nedić O

*Institute for the Application of Nuclear Energy, INEP, Zemun, Serbia and Montenegro*

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<sup>1</sup>Institute for the Application of Nuclear Energy - INEP, Zemun - Belgrade, <sup>2</sup>Center for Endocrine Surgery, Institute of Endocrinology, Diabetes and Diseases of Metabolism, Clinical Centre of Serbia, Belgrade, <sup>3</sup>Institute of Pathology, Medical Faculty, University of Belgrade, Serbia and Montenegro

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<sup>1</sup>Institute for the Application of Nuclear Energy - INEP, University of Belgrade, Zemun - Belgrade, <sup>2</sup>Center for Endocrine Surgery, Institute of Endocrinology, Diabetes and Diseases of Metabolism, Clinical Center of Serbia, Belgrade, <sup>3</sup>Institute of Pathology, School of Medicine, University of Belgrade, Serbia and Montenegro

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Marković Lj<sup>1</sup>, Stefanović D<sup>2</sup>, Radojević S<sup>3</sup>, Vulović D<sup>1</sup>

<sup>1</sup>Institute of Pathological Physiology, School of Medicine, Belgrade, <sup>2</sup>Institute of Digestive Diseases, Clinical Centre of Serbia, Belgrade, <sup>3</sup>Institute of Pathology, School of Medicine, Belgrade, Serbia and Montenegro

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Marković Lj<sup>1</sup>, Knežević J<sup>2</sup>, Rebić R<sup>3</sup>, Vulović D<sup>1</sup>, Isaković K<sup>2</sup>

<sup>1</sup>Institute of Pathological Physiology, School of Medicine, University of Belgrade, <sup>2</sup>Centre for Immunological Investigation "Branislav D. Janković", Belgrade, <sup>3</sup>Clinical Centre of Serbia, Belgrade, Serbia and Montenegro

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Marković Lj<sup>1</sup>, Atanacković M<sup>2</sup>, Drezgić M<sup>3</sup>, Vulović D<sup>1</sup>, Sopta J<sup>2</sup>

<sup>1</sup>Institute of Pathological Physiology, School of Medicine, Belgrade, <sup>2</sup>Institute of Pathology, School of Medicine, Belgrade, <sup>3</sup>Institute for Endocrine Diseases, Clinical Center of Serbia, School of Medicine, Serbia and Montenegro

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<sup>1</sup>Institute of Pathological Physiology, School of Medicine, University of Belgrade, <sup>2</sup>Institute of Pathology, School of Medicine, University of Belgrade, Serbia and Montenegro

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*Institute of Nuclear Medicine, Military Medical Academy, Belgrade*

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*Institute of Aviation Medicine, Military Medical Academy (IAM MMA), Belgrade, Serbia and Montenegro*

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Pavlović M

*Institute of Aviation Medicine, Department of Aviation Physiology Batajnica, MMA Belgrade, Serbia and Montenegro*

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Pavlović M

*Institute of Aviation Medicine, Department of Aviation Physiology Batajnica, MMA Belgrade, Serbia and Montenegro*

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*Institute of Medical Physiology, School of Medicine, University of Belgrade, Serbia and Montenegro*

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<sup>1</sup>Institute of Medical Physiology, School of Medicine, University of Belgrade, <sup>2</sup>Institute for Cardiovascular Diseases, School of Medicine, University of Belgrade, Serbia and Montenegro

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Mazić S, Suzić J, Suzić S, Šćepanović Lj, Mitrović D

*Institute of Medical Physiology, School of Medicine, University of Belgrade, Serbia and Montenegro*

**Friday, November 11th, 2005**

**13.30-17.30 Poster Session 3**

(The presence of poster authors is required from 14.00 to 16.00)

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Lalošević D, Milenković I, Lažetić B

*Department of Histology and Embryology, Department of Physiology, Medical Faculty Novi Sad, Serbia and Montenegro*

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<sup>1</sup>Department of Neurology and <sup>2</sup>Department of Pathophysiology University of Medicine and Pharmacy, Iasi,

<sup>3</sup>Department of Physiology, University of Montreal, Canada

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<sup>1</sup>Institute for Biological Research "Siniša Stanković", Department of Physiology, Belgrade, <sup>2</sup>Faculty of Sciences,

<sup>3</sup>Institute of Biology, University of Priština-Kosovska Mitrovica, <sup>4</sup>Faculty of Biology, University of Belgrade,

<sup>4</sup>Faculty of Sciences, Institute of Biology, University of Kragujevac, Serbia and Montenegro

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<sup>1</sup>Institute for Biological Research "Siniša Stanković", Department of Physiology, Belgrade, <sup>2</sup>Faculty of Sciences,

<sup>3</sup>Institute of Biology, University of Kragujevac, Serbia and Montenegro

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<sup>1</sup>Institute for Medical Research and <sup>2</sup>Institute for Forensic Medicine, Military Medical Academy, Belgrade, Serbia and Montenegro

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<sup>1</sup>Institute for Medical Research, Military Medical Academy, Belgrade, <sup>2</sup>Institute for Biological Research "Sinisa Stankovic", Belgrade, Serbia and Montenegro

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Jovanović MD<sup>1</sup>, Jelenković A<sup>2</sup>, Vasiljević ID<sup>1</sup>, Stanimirović DB<sup>3</sup>

<sup>1</sup>Military Medical Academy, Institute for Medical Research, Belgrade, <sup>2</sup>Institute for Biological Research,

<sup>3</sup>Institute for Biological Sciences, National Research Council, Ottawa, Canada

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Filipović D, Radojičić BM

*Institute of Nuclear Sciences "VINČA", Laboratory of Molecular Biology and Endocrinology, Belgrade, Serbia and Montenegro*

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Dražković-Pavlović B<sup>1</sup>, Kataranovski M<sup>1,2</sup>

<sup>1</sup>Institute for Medical Research, Military Medical Academy, Belgrade, <sup>2</sup>Institute for Biological Research

"S. Stankovic", Belgrade, Serbia and Montenegro

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<sup>1</sup>Department of Experimental Physiology and <sup>2</sup>Department of Experimental Pharmacology, Medical School, University of Athens, Athens, Greece

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<sup>1</sup>Department of Experimental Physiology and <sup>2</sup>Department of Experimental Pharmacology, Medical School, University of Athens, Athens, Greece

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<sup>1</sup>Department of Physiology, Iuliu Hatieganu, University of Medicine and Pharmacy, Cluj- Napoca, <sup>2</sup>Department of Biochemistry, University of Agricultural Sciences and Veterinary Medicine, Cluj- Napoca, Romania

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Research Institute of Environmental Medicine, Heinrich Heine University of Düsseldorf, Düsseldorf, Germany

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Zavodnik IB<sup>1</sup>, Lapshina EA<sup>1</sup>, Milowska K<sup>2</sup>, Gabryelak T<sup>2</sup>

<sup>1</sup>Institute of Biochemistry, National Academy of Sciences of Belarus, <sup>2</sup>Department of General Biophysics, University of Lodz, Poland

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<sup>1</sup>Faculty of Sciences, University of Kragujevac, <sup>2</sup>Institute for Biological Research "Siniša Stanković", Belgrade, Serbia and Montenegro

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<sup>1</sup>National Poison Control Centre, Military Medical Academy, Belgrade, <sup>2</sup>Department of Chemistry, Faculty of Science, University of Novi Sad, Serbia and Montenegro

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Miova B<sup>1</sup>, Kjovkarovska-Dinevska S<sup>1</sup>, Mitev S<sup>1</sup>, Gjuladin T<sup>2</sup>

<sup>1</sup>Department of Physiology and Biochemistry, Institute of Biology, Faculty of Natural Sciences, Skopje, <sup>2</sup>Biochemical Laboratory, Medical Center, Tetovo, FRY Macedonia

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Mitev S, Miova B, Kjovkarovska-Dinevska S

Department of Physiology and Biochemistry, Institute of Biology, Faculty of Natural Sciences, Skopje, FRY Macedonia

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Kjovkarovska-Dinevska S, Mitev S, Miova B

Department of Physiology and Biochemistry, Institute of Biology, Faculty of Natural Sciences, Skopje, FRY Macedonia

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<sup>1</sup>"Stefan S. Nicolau" Institute of Virology, Bucharest, <sup>2</sup>Romanian Polar Research Institute, Bucharest, <sup>3</sup>Clinical Infection Disease Hospital "V. Babeş", Bucharest, Romania

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<sup>1</sup>Romanian Polar Research Institute, Bucharest, <sup>2</sup>"Stefan S. Nicolau" Institute of Virology, Bucharest, <sup>3</sup>Institute of Sport Medicine, Bucharest, Romania

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Djurović B<sup>1</sup>, Selaković V<sup>2</sup>, Spasić-Jokić V<sup>3</sup>

<sup>1</sup>Occupational Medicine Institute, MMA, Belgrade, <sup>2</sup>Medical Research Institute, MMA, Belgrade, <sup>3</sup>Laboratory of Physics, Institute of Nuclear Sciences "Vinča", Belgrade, Serbia and Montenegro

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Vasiljević A, Buzadžić B, Petrović V, Janković A, Korać B

Department of Physiology, Institute for Biological Research "Siniša Stanković", University of Belgrade, Serbia and Montenegro

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<sup>1</sup>Institute of Medical Research, Military Medical Academy, Belgrade, <sup>2</sup>Institut for Biology Research "Siniša Stanković", Belgrade, <sup>3</sup>Department of Toxicology, Faculty of Pharmacy, Belgrade, Serbia and Montenegro

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Prokić V<sup>1</sup>, Kataranovski M<sup>1,2</sup>, Kataranovski D<sup>2</sup>

<sup>1</sup>Institute for Medical Research, Military Medical Academy, Belgrade, <sup>2</sup>Institute for Biological Research "Siniša Stanković", Belgrade, Serbia and Montenegro

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<sup>1</sup>Institute for Medical Research, Belgrade, <sup>2</sup>Institute for Biological Research, Belgrade, Serbia and Montenegro

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<sup>1</sup>Institute of Biology and Ecology, Faculty of Sciences, University of Kragujevac, Kragujevac, <sup>2</sup>Institute for Biological Research "Siniša Stanković", Department of Physiology, Belgrade, Serbia and Montenegro

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<sup>1</sup>Department of Pathology and <sup>2</sup>Department of Pathophysiology, University of Medicine and Pharmacy, Iasi, Romania

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<sup>1</sup>Department of Pathophysiology, Faculty of Medicine, University of Kragujevac, <sup>2</sup>Department of Biochemistry, Faculty of Medicine, University of Kragujevac, <sup>3</sup>Department of Microbiology and Immunology, Faculty of Medicine, University of Kragujevac, <sup>4</sup>Department of Physiology, Faculty of Medicine, University of Kragujevac, <sup>5</sup>Public Health Institute, Kragujevac, Serbia and Montenegro

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Stojiljković V, Todorović A, Kasapović J, Pejić S, Pajović SB

Laboratory of Molecular Biology and Endocrinology, "Vinča" Institute of Nuclear Sciences, Belgrade, Serbia and Montenegro

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Kasapović J, Pejić S, Todorović A, Stojiljković V, Pajović SB

Laboratory of Molecular Biology and Endocrinology, "Vinča" Institute of Nuclear Sciences, Belgrade, Serbia and Montenegro

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<sup>1</sup>Institute for Biological Research "Siniša Stanković", Department of Physiology, Belgrade, <sup>2</sup>Faculty of Sciences, Institute of Biology, University of Priština-Kosovska Mitrovica, <sup>3</sup>Faculty of Sciences, Institute of Biology, University of Kragujevac, Kragujevac, Serbia and Montenegro

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<sup>1</sup>Clinic of Dentistry and <sup>2</sup>Institute for Medical Research, Military Medical Academy, Belgrade, Serbia and Montenegro

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Departments of <sup>1</sup>Pathophysiology and <sup>2</sup>Neurology, University of Medicine and Pharmacy "Gr.T.Popa" Iasi, Romania

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<sup>1</sup>Department of Physiology, Faculty of Dentistry, University of Belgrade, <sup>2</sup>Institute for Medical Research, Belgrade, Serbia and Montenegro

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Novaković R<sup>1</sup>, Milovanović S<sup>1</sup>, Gojković-Bukarica Lj<sup>2</sup>

<sup>1</sup>Institute of Medical Research, Military Medical Academy, Belgrade <sup>2</sup>Department of Clinical Pharmacology, Pharmacology and Toxicology, School of Medicine, University of Belgrade, Serbia and Montenegro

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Slavić M<sup>1</sup>, Appiah I<sup>2</sup>, Nikolić A<sup>1</sup>, Radojčić R<sup>2</sup>, Jones D<sup>3</sup>, Spasić M<sup>1,3</sup>, Milovanović S<sup>2,4</sup>, Blagojević D<sup>1</sup>

<sup>1</sup>Department of Physiology, Institute for Biological Research, Belgrade, <sup>2</sup>Biological Faculty, University of Belgrade, Belgrade, <sup>3</sup>Chemical Faculty, University of Belgrade, Belgrade, <sup>4</sup>Military Medical Academy, Belgrade Serbia and Montenegro

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Nešić M<sup>1</sup>, Ćirić M<sup>1</sup>, Cekić S<sup>1</sup>, Branković S<sup>1</sup>, Obrenović J<sup>2</sup>, Nešić V<sup>2</sup>, Ćičević S<sup>3</sup>

<sup>1</sup>Department of Physiology, Faculty of Medicine, University of Niš, <sup>2</sup>Department of Psychology, Faculty of Philosophy, University of Niš, <sup>3</sup>Laboratory for Traffic Psychology and Ergonomics, Faculty of Transport and Traffic Engineering, University of Belgrade, Serbia and Montenegro

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Selaković V<sup>1</sup>, Raičević R<sup>2</sup>, Radenović L<sup>3</sup>, Jovanović M<sup>1</sup>

<sup>1</sup>Institute for Medical Research, Military Medical Academy, <sup>2</sup>Clinic of Neurology, Military Medical Academy, <sup>3</sup>Faculty of Biology, University of Belgrade, Belgrade, Serbia and Montenegro

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Stanković S<sup>1</sup>, Dinčić E<sup>1</sup>, Jovanović MD<sup>2</sup>, Selaković VM<sup>2</sup>

<sup>1</sup>Military Medical Academy, Clinic of Neurology, Belgrade, <sup>2</sup>Institute for Medical Research, Belgrade, Serbia and Montenegro

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Pasarica D<sup>1,3</sup>, Gheorghiu M<sup>1</sup>, Bara C<sup>1</sup>, Bleotu C<sup>2</sup>, Ichim L<sup>2</sup>, Stoian M<sup>2</sup>, Alaicescu M<sup>2</sup>

<sup>1</sup>Pathophysiology and Immunology Department, "Carol Davila" University of Medicine and Pharmacy, Bucharest, <sup>2</sup>"St. S. Nicolau" Institute of Virology, Antiviral Therapy Department, Bucharest, <sup>3</sup>"V. Voiculescu" Cerebro-Vascular Diseases Institute, Bucharest, Romania

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Iancu R, Iancu D, Murarescu D, Haliga R, Costuleanu M, Nechifor M

University of Medicine and Pharmacy, Iasi, Romania

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Nikolić M<sup>1</sup>, Košutić Ž<sup>2</sup>, Stanić D<sup>3</sup>, Filipović M<sup>3</sup>, Miljević Č<sup>2</sup>, Niketić V<sup>1</sup>

<sup>1</sup>Department of Chemistry, University of Belgrade, <sup>2</sup>Institute for Mental Health, Belgrade, <sup>3</sup>ICTM - Center for Chemistry, Belgrade, Serbia and Montenegro

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Baričević I<sup>1</sup>, Malenković V<sup>2</sup>, Jones DR<sup>3</sup>, Nedić O<sup>1</sup>

<sup>1</sup>Institute for the Application of Nuclear Energy, Belgrade, <sup>2</sup>Clinical Medical Centre, Bežanijska kosa, Belgrade, Serbia and Montenegro, <sup>3</sup>The Netherlands Cancer Institute, Amsterdam, the Netherlands

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Baričević I<sup>1</sup>, Djordjević B<sup>1</sup>, Jones DR<sup>2</sup>, Malenković V<sup>3</sup>, Nedić O<sup>1</sup>

<sup>1</sup>Institute for the Application of Nuclear Energy, Belgrade, <sup>2</sup>The Netherlands Cancer Institute, Amsterdam, the Netherlands, <sup>3</sup>Clinical Medical Centre, Bežanijska kosa, Belgrade, Serbia and Montenegro

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Kojić Z<sup>1</sup>, Šćepanović Lj<sup>1</sup>, Popović N<sup>2</sup>, Arsenijević Lj<sup>3</sup>

<sup>1</sup>Institute of Medical Physiology, School of Medicine, Belgrade, <sup>2</sup>Institute of Anesthesiology, Emergency Center, School of Medicine, Belgrade, <sup>3</sup>Institute of Anesthesiology, Gynecology and Obstetrics, School of Medicine, Belgrade, Serbia and Montenegro

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Barak O, Drapšin M, Popadić-Gaćeša J

Department of Physiology, Faculty of Medicine, Novi Sad, Serbia and Montenegro

## **CONGRESS VENUE**

VMA (Military Medical Academy) – Amphitheatre

### **Left entrance/Official entrance**

Str. Crnotravska 17, Beograd

(Participation upon registration only)

## **CONGRESS DATE**

November 9-12, 2005

## **REGISTRATION**

The congress desk will be open on:

November 9 <sup>th</sup>	7.30 – 18.30
November 10 <sup>th</sup>	7.30 – 19.00
November 11 <sup>th</sup>	13.00 – 18.00
November 12 <sup>th</sup>	8.00 – 15.00

### **REGISTRATION FEE** (before October 1<sup>st</sup> 2005 or after October 1<sup>st</sup> 2005)

MEMBERS OF THE SERBIAN PHYSIOLOGICAL SOCIETY	20 € or 30 €
OTHER PARTICIPANTS	40 € or 60 €
STUDENTS	*free of charge

\*Certificate required

### **NOTICE:**

For attendees from abroad – payment in Euro to account of Serbian Physiological Society:

#### **INTERMEDIARY:**

DEUTSCHE BANK AG  
FRANKFURT/M, FR GERMANY  
SWIFT CODE: DEUTDEFF  
BLZ 500 700 10

#### **ACCOUNT WITH:**

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KOMERCIJALNA BANKA AD BEOGRAD  
SV.SAVE 14, 11000 BELGRADE, SERBIA AND MONTENEGRO  
SWIFT CODE: KOBBCSBG  
BLZ 99900158

#### **BENEFICIARY:**

5443-07071833  
DRUSTVO FIZIOLOGA REPUBLIKE SRBIJE  
DR SUBOTICA 8  
11000 BELGRADE

For attendees from Serbia only – payment in Dinars (according to the official currency rate on the day of payment) to Komercijalna Banka A. D. account of Serbian Physiological Society number: 205-40932-94 KOMERCIJALNA BANKA A.D.

Full registration fee includes admission to all scientific sessions, opening ceremony, welcome reception, cocktail and receiving Abstract Book. Lunches, coffee and tea should be provided by sponsors or in restaurant of Military Medical Academy on commercial basis during the working days of the Congress. Gala dinner is not included in registration fee and should be provided with additional cost of 15 Euro per person.

## **ORAL PRESENTATION**

Plenary lecture speakers are allocated 30 min for presentation. All other speakers (free communications) are kindly requested to keep their presentation 15 minutes maximal with discussion time.

## **POSTER PRESENTATION**

Three interactive poster sessions will be held during the congress. 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 (14.00 – 16.00). Award will be offered for the best poster presentation.

## **AUDIOVISUAL FACILITIES**

Video beam projection will be available in the conference room for the plenary lectures, symposia and free communications. Presentations should be prepared in "Power Point" (\*.ppt file).

## **OFFICIAL LANGUAGE**

Official languages will be English and Serbian. No simultaneous translation will be provided. All abstracts will be published in English.

## **COFFEE, REFRESHMENT AND LUNCH**

Only cocktail after opening ceremony/welcome messages on November 9<sup>th</sup>, 2005 will be free of charge. Coffee, refreshment and lunch will be served upon request on commercial basis in restaurant of Military Medical Academy and it will be on the responsibility of the participants.

## **REGISTRATION & HOTEL ACCOMMODATION**

For hotel prices and/or making hotel reservation please contact:

Agencija BBN Congress Management

Uzun Mirkova 5/II, 11000 Beograd

Tel/fax: (+ 381 11) 181-093, 639-546, 637-568

E-mail: office@bbn.co.yu, bbn@ikomline.net

## **SOCIAL PROGRAM**

The social program will include convivial (welcome reception, cocktail) and cultural (city tours, visits to museums etc.) events; only the first will be covered by the registration fee. BEER NIGHT (gala dinner with national music) will be organized on commercial basis in MB Brewery in Novi Sad (Temerinski put 50) on Friday, November 11<sup>th</sup> 2005 at 8.00 PM. The transport will be also organized. Please contact congress desk for prices, timetable and specific details.

## **CANCELLATION AND REFUNDS**

Notification of cancellation should be sent in writing Organizing/Program Secretariat. If a cancellation is received before October 1<sup>st</sup> 2005, 70% of the total amount will be refunded to the participant. We regret that no refunds can be given for cancellations received on or after that date. Please note that for administrative reasons, refunds will be dealt with after the Congress.

## **FULL-LENGTH PAPERS**

All abstracts presented the congress are qualified to be published as a full-length papers in *Iugoslavica Physiologica et Pharmacologica Acta*, official journal of the *Serbian Physiological Society*.

Please contact: **Dr Zorica S. Saičić**, Editor-in-Chief, Institute for Biological Research "Siniša Stanković", Bulevar Despota Stefana 142, 11060 Belgrade, Serbia and Montenegro, E-mail: [zorica.saicic@ibiss.bg.ac.yu](mailto:zorica.saicic@ibiss.bg.ac.yu)

## **VERY IMPORTANT NOTICE:**

Military Medical Academy is the most important sponsor of *The First Congress of Physiological Sciences of Serbia and Montenegro with International Participation*. **Please be aware that from global safety reasons the entry to Military Medical Academy in certain circumstances will be allowed following standard security procedure.** The entry to amphitheatre and attendance to the scientific sessions including oral, poster and exhibition will be allowed ONLY for the participants with valid badge identification and after regularly paid congress fee. Exchange office will be located just beside registration desk. Parking places in surrounding of Military Medical Academy can not be guaranteed; please use public or taxi transport.

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