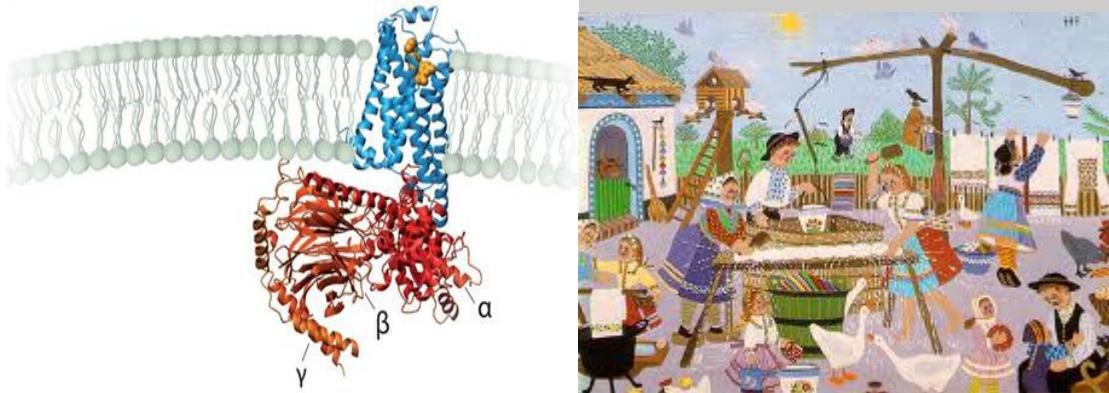


JOINT MEETING OF NATIONAL PHYSIOLOGICAL SOCIETIES

**"NEW FRONTIERS IN PHYSIOLOGICAL RESEARCH – FROM
SCIENTIFIC TRUTH VIA FRIENDSHIP TO THE ART"**

Organized by
SLOVAK PHYSIOLOGICAL SOCIETY
SERBIAN PHYSIOLOGICAL SOCIETY



CME accredited by the Health Council of Serbia

FINAL PROGRAM

JUNE 20-23, 2013, KOVACICA, SERBIA

<http://www.physiology.org.rs/eng/htm/konf2013/program.pdf>

FOREWORD

Dear Colleagues,

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

We are remembering that this close scientific cooperation started 10 years ago when Vladimir Strbak (president of *Slovak Physiological Society* at that time) during *FEPS Council* (held in 2003, Nice, France) supported the efforts of Dragan Djuric and Vladimir Jakovljevic (officials of *Serbian Physiological Society* at that time) for reintegration in the family of European physiological societies. In 2009 *Slovak Physiological Society* supported an idea to be published special issue of scientific journal *General Physiology and Biophysics*, dedicated to Professor Richard Burian (native Austrian born in Vienna however founder of medical physiology in Serbia). From that time we improved our friendship and scientific cooperation, developing bilateral research program and both participation in *EU COST BM 1005* as well as in global activities of 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, Kovacica is not only the town where you will find typical Slovak spirit of life in a peaceful and tolerant atmosphere but also the place which is known for the worldwide recognized art. We appreciate your participation and wishing you warm welcome to Kovacica, Vojvodina and Serbia.

On behalf of the Program/Organizing Committee

Andrea Calkovska, Vladimir Strbak,
Vladimir Jakovljevic and Dragan Djuric

PROGRAM/ORGANIZING COMMITTEE

Calkovska A, Martin, *Organizing Committee Co-Chairman*
Djuric D, Belgrade, *Program Committee Co-Chairman*
Jakovljevic V, Kragujevac, *Organizing Committee Co-Chairman*
Strbak V, Bratislava, *Program Committee Co-Chairman*

Opening Lecture

Chairpersons: Calkovska A, Javorka K, Jakovljevic V, Djuric D

Strbak V, Bacova Z.

Institute of Experimental Endocrinology, Slovak Academy of Sciences and Medical Faculty of the Slovak Medical University, Bratislava, Slovakia
CELL SWELLING, NOVEL REGULATORY SIGNAL AFFECTING VARIOUS FUNCTIONS

Session: CELL AND SMOOTH MUSCLE PHYSIOLOGY

Chairpersons: Ondrias K, Blagojevic D

Brankovic S, Gocmanac-Ignjatovic M, Radenkovic M, Kitic D, Nesic M, Ilic S, Veljkovic M.
Institute of Physiology, Faculty of Medicine, University of Nis, Nis, Serbia
SPASMOLYTIC ACTIVITY OF ESSENTIAL OIL OF *FOENICULUM VULGARE* MILLER (APIACEAE) ON ISOLATED RAT ILEUM CONTRACTIONS

Krstic D, Colovic M, Avramovic N, Djuric D, Vasic V.

Institute of Medical Chemistry, School of Medicine, University of Belgrade, Belgrade, Serbia
ATP-ASES INHIBITORS: TOXICOLOGY AND PHARMACOLOGY

Misak A.

Institute of Molecular Physiology and Genetics Slovak Academy of Sciences, Bratislava, Slovakia
BIOPHYSICAL CHARACTERIZATION OF MITOCHONDRIAL CHLORIDE CHANNELS AND THEIR MODULATORY FACTORS

Ondrias K.

Institute of Molecular Physiology and Genetics, Slovak Academy of Sciences, Bratislava, Slovakia
EFFECTS OF H₂S-DONORS ON MEMBRANE CHANNELS

Radenkovic M, Brankovic S, Kitic D, Veljkovic M, Mrkaic A.

Institute of Physiology, Faculty of Medicine, University of Nis, Nis, Serbia
THE RELAXANT EFFECT OF *ALLIUM SATIVUM* L. BULB EXTRACTS ON RAT ISOLATED TRACHEA

Scepanovic Lj, Stojanovic M, Bosnic O, Mitrovic D, Scepanovic V, Stojkovic M, Ilic S, Stojanovic T, Djuric D.

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

THE EFFECTS OF ACUTE ADMINISTRATION OF D, L-HOMOCYSTEINE AND D, L-HOMOCYSTEINE THIOLACTONE ON ANTIOXIDATIVE STATUS OF LIVER, INTESTINE AND COLON IN RATS

Stojanovic M, Scepanovic Lj, Mitrovic D, Scepanovic V, Stojković M, Ilic S, Stojanovic T, Djuric D.

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

THE EFFECTS OF ACUTE ADMINISTRATION OF D, L-HOMOCYSTEINE AND D, L-HOMOCYSTEINE THIOLACTONE ON GASTROINTESTINAL TRACT MOTILITY IN RATS

Session: NEUROPHYSIOLOGY

Chairpersons: Jagla F, Radenovic L

Hrncic D, Rasic-Markovic A, Stojkovic T, Velimirovic M, Puskas N, Obrenovic R, Susic V, Jakovljevic V, Djuric D, Petronijevic N, Stanojlovic O.

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

EFFECTS OF METHIONINE - ENRICHED DIET ON THE ACETYLCHOLINESTERASE IN THE RAT BRAIN

Jagla F.

Institute of Normal and Pathological Physiology, Slovak Academy of Sciences, Bratislava, Slovakia

SENZORIMOTOR INTEGRATIONS

Nesic M, Radenkovic M, Brankovic S, Cirim M, Imeri S, Zivkovic I.

Institute of Physiology, Faculty of Medicine, University of Nis, Nis, Serbia

ANTIDEPRESSANT EFFECT OF HYPERICUM PERFORATUM IN FORCED SWIMMING TEST AND TAIL SUSPENSION TEST IN MICE

Radenovic Lj.

Department of Physiology, Faculty of Biology, University of Belgrade, Belgrade, Serbia

NEUROPROTECTION IN EXPERIMENTAL CEREBRAL ISCHEMIA

Rasic-Markovic A, Hrncic D, Bjekic – Macut J, Susic V, Djuric D, Stanojlovic O.

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

EFFECTS OF CO-ADMINISTRATION OF L-ARGININE AND FOLIC ACID ON HOMOCYSTEINE THIOLACTONE-INDUCED SEIZURES IN ADULT RATS

Vuckovic S, Savic-Vujovic K, Srebro D, Prostran M.

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

MAGNESIUM AND PAIN

Session: ENDOCRINOLOGY, NEUROENDOCRINOLOGY AND METABOLISM

Chairpersons: Pechanova O, Milosevic V

Bacova Z, Lestanova Z, Strbak V, Bakos J.

Institute of Experimental Endocrinology, Slovak Academy of Sciences and Medical Faculty of the Slovak Medical University, Bratislava, Slovakia

DEVELOPMENTAL EFFECTS OF OXYTOCIN ON GENE EXPRESSION OF CYTOSKELETAL PROTEINS AND GROWTH FACTORS IN THE RAT HIPPOCAMPUS

Bakos J, Lestanova Z, Strbak V, Bacova Z.

Institute of Experimental Endocrinology, Slovak Academy of Sciences and Medical Faculty of the Slovak Medical University, Bratislava, Slovakia

OXYTOCIN RECEPTOR LIGANDS INDUCE CHANGES IN CYTOSKELETON IN NEUROBLASTOMA CELLS

Ciric M, Najman S, Bojanic V, Kalicanin B, Velimirovic D, Nesic M, Cekic S, Cvetkovic T, Petrovic S, Bojanic Z, Puskas N, Sokolovic D.

Institute of Physiology, Faculty of Medicine, University of Nis, Nis, Serbia

NEONATAL TREATMENT WITH MONOSODIUM GLUTAMATE REDUCES SIMVASTATIN-INDUCED MINERALIZATION IN ADULT RAT BONE

Javorka M, Tonhajzerova I, Czippelova B, Turianikova Z, Chladekova L, Javorka K.

Department of Physiology, Jessenius Faculty of Medicine, Comenius University, Martin, Slovakia

OBESITY RELATED CHANGES IN BAROREFLEX SENSITIVITY: A CAUSAL APPROACH

Matuskova Z.

Institute of Normal and Pathological Physiology, Slovak Academy of Sciences, Bratislava, Slovakia

AGE-DEPENDENT CHANGES OF NITRIC OXIDE GENERATION IN EXPERIMENTAL METABOLIC SYNDROME

Parohova J.

Institute of Normal and Pathological Physiology, Slovak Academy of Sciences, Bratislava, Slovakia

EFFECTS OF MELATONIN IN THE CEREBELLUM OF RATS WITH METABOLIC SYNDROME

Paulis L.

*Department of Pathological Physiology, Medical Faculty, Comenius University,
Bratislava, Slovakia*

NOVEL THERAPEUTIC TARGETS IN THE RAAS

Pechanova O.

*Institute of Normal and Pathological Physiology, Slovak Academy of Sciences,
Bratislava, Slovakia*

HYPERTENSION WITHIN THE CLUSTER OF METABOLIC SYNDROME:
EXPERIMENTAL STUDY

Petrovic S, Milosevic M, Ristic-Medic D, Vucic V, Arsic A, Glibetic M, Horvat A.
*Department for Nutrition and Metabolism, Institute for Medical Research, University
of Belgrade, Belgrade, Serbia*

THE INVOLVEMENT OF ESTRADIOL RECEPTORS IN ESTRADIOL-
INDUCED MITOCHONDRIAL Ca^{2+} FLUX MODULATION IN RAT CAUDATE
NUCLEUS AND BRAIN STEAM

Rehakova R.

*Institute of Normal and Pathological Physiology, Slovak Academy of Sciences,
Bratislava, Slovakia*

REDOX AND NITRIC OXIDE BALANCE IN FRUCTOSE TREATED RATS

Sosic-Jurjevic B, Filipovic B, Trifunovic S, Ajdzanovic V, Nestorovic N, Medigovic I, Milosevic V.

*Institute for Biological Research "Siniša Stanković", University of Belgrade,
Belgrade, Serbia*

SOY EXTRACT AND SOY ISOFLAVONES DO NOT AFFECT SERUM
CHOLESTEROL AND TRIGLYCERIDE LEVELS IN ORCHIDECTOMIZED
YOUNG ADULT RATS

Trifunovic S, Ajdzanovic A, Sosic-Jurjevic B, Manojlovic-Stojanoski M, Ristic N, Pantelic J, Milosevic V.

*Institute for Biological Research "Siniša Stanković", University of Belgrade,
Belgrade, Serbia*

SOY-DEPENDENT CHANGES IN THE MORPHO-FUNCTIONAL DATA OF
THE PITUITARY ACTH CELLS IN ADULT RATS

Session: CARDIOVASCULAR PHYSIOLOGY (part I)

Chairpersons: Zeman M. Jovovic D

Barta A.

*Institute of Normal and Pathological Physiology, Slovak Academy of Sciences,
Bratislava, Slovakia*

STRUCTURAL ALTERATIONS OF HEART AND AORTA IN RATS WITH
METABOLIC SYNDROME

Berenyiova A.

*Institute of Normal and Pathological Physiology, Slovak Academy of Sciences,
Bratislava, Slovakia*

DIFFERENT VASCULAR EFFECTS OF CHRONIC NON-SPECIFIC AND
NEURONAL NO-SYNTHASE INHIBITION IN YOUNG WISTAR RATS

Bernatova I.

*Institute of Normal and Pathological Physiology, Slovak Academy of Sciences,
Bratislava, Slovakia*

EFFECT OF SOCIAL STRESS IN YOUNG RATS WITH PREDISPOSITION TO
HIGH BLOOD PRESSURE

Grman M.

*Institute of Molecular Physiology and Genetics Slovak Academy of Sciences,
Bratislava, Slovakia*

MODULATION OF H₂S INDUCED S-NITROSOGlutathione
DECOMPOSITION BY pH AND LOW MOLECULAR THIOLS

Kovacsova M.

*Institute of Normal and Pathological Physiology, Slovak Academy of Sciences,
Bratislava, Slovakia*

EFFECTS OF RED WINE EXTRACTS ON NITRIC OXIDE GENERATION IN
HYPERTENSIVE AND OBESE RATS

Kristek F.

*Institute of Normal and Pathological Physiology, Slovak Academy of Sciences,
Bratislava, Slovakia*

DIFFERENT EFFECT OF CHRONIC NEURONAL NO-SYNTHASE INHIBITION
ON CORONARY ARTERY OF WISTAR RATS AND SHR

Malekova M.

*Institute of Normal and Pathological Physiology, Slovak Academy of Sciences,
Bratislava, Slovakia*

DIFFERENT EFFECT OF TWO TYPES OF NO-SYNTHASE INHIBITORS ON
CARDIOVASCULAR SYSTEM OF WISTAR RATS

Session: CARDIOVASCULAR PHYSIOLOGY (part II)

Chairpersons: Bernatova I, Miloradovic Z

Mijuskovic A, Nikolic-Kokic A, Slavic M, Orescanin-Dusic Z, Spasic M, Blagojevic D.

*Institute for Biological Research "Siniša Stanković", University of Belgrade,
Belgrade, Serbia*

SODIUM SULPHIDE PRECONDITIONING INCREASED ANTIOXIDANT
CAPACITY IN THE RAT HEART: POSSIBLE BENEFICIAL EFFECTS

Miloradovic Z, Ivanov M, Mihailovic-Stanojevic N, Grujić-Milanović J, Jovovic Dj, Marković-Lipkovski J.

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

SUPEROXYDE RADICAL SCAVENGING REDUCES BLOOD PRESSURE WITHOUT INFLUENCING KIDNEY FUNCTION IN HYPERTENSIVE RATS WITH ACUTE RENAL FAILURE

Novokmet S, Misic M, Stojic I, Zivkovic V, Bugarcic Z, Jakovljevic V.

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

PLATINUM-INDUCED CARDIOTOXICITY AND OXIDATIVE STRESS IN ISOLATED RAT HEART

Sarenac O¹, Paton JFR², Murphy D², Japundzic –Zigon N¹.

¹*Institute of Pharmacology, Clinical Pharmacology and Toxicology, School of Medicine, University of Belgrade, Belgrade, Serbia*

²*School of Medical Sciences, Bristol Heart Institute and University of Bristol, Henry Wellcome LINE, University of Bristol, Bristol, UK*

EFFECTS OF CHRONIC STRESS ON CARDIOVASCULAR SYSTEM OF BORDERLINE HYPERTENSIVE RATS

Torok J.

Institute of Normal and Pathological Physiology, Slovak Academy of Sciences, Bratislava, Slovakia

CARDIOVASCULAR EFFECTS OF ALISKIREN IN RATS WITH EXPERIMENTAL HYPERTENSION

Vrankova S.

Institute of Normal and Pathological Physiology, Slovak Academy of Sciences, Bratislava, Slovakia

EFFECTS OF RENIN INHIBITOR-ALISKIREN IN SPONTANEOUSLY HYPERTENSIVE RATS

Zemancikova A.

Institute of Normal and Pathological Physiology, Slovak Academy of Sciences, Bratislava, Slovakia

EFFECT OF LONG-TERM TREATMENT WITH QUERCETIN ON BLOOD PRESSURE AND ARTERIAL REACTIVITY IN L- NAME - INDUCED HYPERTENSION

Zivkovic V, Vuletic M, Djordjevic D, Barudzic N, Djuric D, Jakovljevic V.

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

EFFECTS OF HOMOCYSTEINE AND HOMOCYSTEINE RELATED COMPOUNDS ON ISOLATED RAT HEART: FOCUS ON OXIDATIVE STRESS

Session: NUTRITION, EXERCISE, HYPERBARIC AND CLINICAL PHYSIOLOGY

Chairpersons: Svorc P, Mitrovic D

Cubrilo D, Macura M, Zivkovic V, Vuletic M, Barudzic N, Jakovljevic V.

Department of Physiology, US Medical School, European University, Belgrade, Serbia

SILENT INFLAMMATION AND REDOX STATUS IN YOUNG SOCCER PLAYERS: FOCUS ON SUPPLEMENTATION

Radovanovic D.

Department of Physiology, Faculty of Physical Education, University of Nis, Nis, Serbia

INFLUENCE OF SEASONAL VARIATIONS IN TRAINING LOADS ON SELECTED CARDIOVASCULAR AND RESPIRATORY PARAMETERS IN COMPETITIVE JUDO ATHLETES

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

Department for Nutrition and Metabolism, Institute for Medical Research, University of Belgrade, Belgrade, Serbia

EFFICACY OF A THERAPEUTIC CHANGE IN DIETARY HABITS ON OMEGA-3 INDEX AND KEY FATTY ACID RATIOS IN SERUM AND ERYTHROCYTE PHOSPHOLIPIDS IN PATIENTS WITH CARDIOMETABOLIC RISK

Veselinovic M, Djuric D, Zivkovic V, Vuletic M, Barudzic N, Tasic N, Tasic D, Jakovljevic V.

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

OXIDATIVE STRESS IN RHEUMATOID ARTHRITIS: RESULTS OF THE CLINICAL STUDY

Vuletic M, Stojimirovic B, Pesic S, Milankovic M, Barudzic N, Tasic D, Tasic N, Jakovljevic V.

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

OXIDATIVE STRESS IN RENAL FAILURE: RESULTS OF THE CLINICAL STUDY

Zivković M, Baškot B.

HBO Medical Center, Belgrade, Serbia

COMBINED THERAPEUTIC APPLICATION OF ERYTHROPOIETIN AND HYPERBARIC OXYGENATION IN ISCHEMIC AND NON-ISCHEMIC CARDIOMYOPATHY

POSTER SESSION (with guided poster discussion)

Chairpersons: Javorka K, Radenkovic M

Calkovska A¹, Linderholm B², Haegerstrand-Bjorkman M², Johansson J², Curstedt T².

¹*Jessenius Faculty of Medicine, Comenius University, Martin, Slovakia*, ²*Karolinska Institutet, Stockholm, Sweden*

LUNG FUNCTIONS OF PREMATURE NEWBORN RABBITS WITH RESPIRATORY DISTRESS SYNDROME DEPEND ON PHOSPHOLIPID COMPOSITION OF PULMONARY SURFACTANTS BASED ON SURFACTANT PROTEINS B AND C ANALOGUES

Herichova I, Ambrusova J, Vesela A, Zeman M.

Department of Animal Physiology and Ethology, Faculty of Natural Sciences, Comenius University, Bratislava, Slovakia

EFFECTS OF PHASE SHIFTS IN LIGHT REGIMENS MIMICKING SHIFT WORK ON CLOCK AND METABOLIC GENES AND SIGNAL PEPTIDES EXPRESSION IN THE RAT HEART

Javorka K, Javorka M, Lehotská Z, Uhríková Z, Kozár M, Zibolen M.

Department of Physiology and Neonatal Clinic, Jessenius Faculty of Medicine, Comenius University, Martin, Slovakia

HEART RATE AND ITS VARIABILITY IN NEWBORNS

Mlynarcikova A, Havranek T, Fickova M.

Institute of Experimental Endocrinology, Slovak Academy of Sciences, Bratislava, Slovakia

EFFECTS OF THE ENDOCRINE DISRUPTOR DI(2-ETHYLHEXYL) PHTHALATE IN A COMBINATION WITH 17 β -ESTRADIOL ON EXPRESSION OF APOPTOSIS- AND CELL CYCLE PROGRESSION-RELATED GENES IN THE MCF-7 BREAST CANCER CELL LINE

Svorc P^{1,2}, Marossy A¹, Svorc P Jr.², Buzga M².

¹*Department of Physiology, Medical Faculty, Safarik University, Kosice, Slovakia*

²*Department of Physiology, Medical Faculty, Ostrava University, Ostrava, Czech Republic*

CHRONOBIOLOGY OF THE ELECTRICAL STABILITY OF THE HEART IN HYPOVENTILATION/REOXYGENATION RAT MODEL

Tomasova L.

Faculty of Pharmacy, Comenius University, Bratislava, Slovakia
ON THE INTERACTION OF H₂S AND NO-DONORS

Zeman M, Molčan L, Vesela A, Stebelova K, Okuliarová M, Herichová I.

Department of Animal Physiology and Ethology, Faculty of Natural Sciences, Comenius University, Bratislava, Slovakia

NEGATIVE CONSEQUENCES OF DISTURBED RHYTHMIC ENVIRONMENTAL CONDITIONS ON CIRCADIAN RHYTHMS IN THE CARDIOVASCULAR SYSTEM

ROUND TABLE: “3Rs - FROM ETHICS TO SCIENTIFIC EVIDENCE”

organized by

National Animal Welfare Council of Serbia and Bioethics Society of Serbia

Chairpersons: Todorovic V, Djurasevic S

Vucinic M.

Faculty of Veterinary Medicine, University of Belgrade, Belgrade, Serbia

ENVIRONMENTAL ENRICHMENT FOR LABORATORY ANIMALS

Todorovic Z.

Faculty of Medicine, University of Belgrade, Belgrade, Serbia

**EXTRAPOLATION OF EXPERIMENTAL DATA FROM ANIMALS TO MAN:
DOES IT COUNT?**

Djurasevic S.

Faculty of Biology, University of Belgrade, Belgrade, Serbia

RE-USING EXPERIMENTAL ANIMALS

Trbovic A.

Faculty of Medicine, University of Belgrade, Belgrade, Serbia

TRANSGENIC ANIMALS AND 3Rs

Savic M.

Faculty of Pharmacy, University of Belgrade, Belgrade, Serbia

ANIMAL BEHAVIOUR EXPERIMENTS AND 3Rs

REGISTRATION

Registration is following invitation only and includes admission to all sessions, opening ceremony, welcome reception, and receiving meeting materials.

OFFICIAL LANGUAGE

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

SOCIAL PROGRAM

The social program will include convivial (welcome reception, cocktail) and cultural (city tours, monasteries tour, visit to museums, etc) events. Exciting social events will be offered (joint dinners with multinational music etc.).

CANCELLATION

Notification of cancellation should be sent in writing to Program/Organizing Committee not later than June 1st 2013.

AUDIOVISUAL FACILITIES

For the 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 drvvladakgbg@yahoo.com

POSTER INSTRUCTIONS

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.

ACCOMMODATION/CONTACT

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.

IMPORTANT INFORMATION

Symposium date: June 20-23, 2013

Conference Venue: Hotel Relax, Kovacica, Vojvodina/Serbia

FOR OTHER INQUIRIES PLEASE CONTACT:

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THE MEETING HAS BEEN SUPPORTED BY:

FACULTY OF MEDICAL SCIENCES UNIVERSITY OF KRAGUJEVAC

**MINISTRY OF EDUCATION, SCIENCE AND TECHNOLOGICAL
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