

THE SERBIAN PHYSIOLOGICAL SOCIETY

IS PLEASED TO ANNOUNCE

3rd CONGRESS OF PHYSIOLOGICAL SCIENCES OF SERBIA WITH INTERNATIONAL PARTICIPATION

ENTITLED

**“MOLECULAR, CELLULAR AND INTEGRATIVE BASIS
OF HEALTH AND DISEASE: TRANSDISCIPLINARY APPROACH“**

(CME ACCREDITATION IN PROGRESS)

Under the auspices of

Federation of European Physiological Societies (FEPS)
International Union of Physiological Sciences (IUPS)
International Society for Pathophysiology (ISP)
International Academy of Cardiovascular Sciences (IACS)



OCTOBER 29-31, 2014
MILITARY MEDICAL ACADEMY,
BELGRADE, REPUBLIC OF SERBIA

SECOND ANNOUNCEMENT

www.physiology.org.rs/eng/htm/konf2014/announcement.pdf

FOREWORD

Dear Colleagues,

It is our great pleasure to welcoming you to the *3rd Congress of Physiological Sciences of Serbia with International Participation* which will be held during October 29-31, 2014 at the Military Medical Academy in Belgrade. For the last ten years, the Serbian Physiological Society has developed a series of internationally recognized meetings. The conference of physiological sciences with international participation on environmental risk factors and human health (Belgrade/Zrenjanin, 2003), the first congress of physiological sciences with international participation (Belgrade, 2005), the satellite symposium of the XIV International Symposium on Atherosclerosis (Belgrade, 2006), the scientific conference with international participation on nutrition, treatment and cardiovascular risk management (Novi Sad, 2007), the scientific conference with international participation devoted to our famous physiologist Richard A. Burian (Belgrade, 2008), second congress of physiological sciences with international participation (Kragujevac, 2009), the scientific conference with international participation on preclinical testing of active substances and cancer research with international symposium on anti-cancer agents, cardiotoxicity and neurotoxicity (Kragujevac, 2011) and under the auspice of EU 7th framework program, the joint scientific meeting of the national physiological societies organized by the Slovak Physiological Society and Serbian Physiological Society, Kova ica 2013, and a few CME meetings in the field of atherosclerosis, vascular biology and a risk factors, are excellent examples of such organizational activities. These meetings were recognized internationally, attracted a worldwide scientific audience, and had been supported by the Federation of European Physiological Societies (FEPS), the International Union of Physiological Sciences (IUPS), the International Society for Pathophysiology (ISP), the International Academy of Cardiovascular Sciences (IACS), and the International Atherosclerosis Society (IAS). Such success in recent years directed us to plan and organize the third national congress in order to improve research background, and make easier approach to the global research cooperation. The scientific program will include a broad mix of topics from molecular, cellular and integrative aspects of physiological sciences going ahead to the scientific problems covered by the international scientific community from 16 countries (Belarus, Bosnia and Herzegovina, Bulgaria, Canada, Germany, Czech Republic, Greece, Hungary, Montenegro, Romania, Russia, Serbia, Slovakia, Slovenia, Turkey, UK).

Finally, Belgrade is not only the international city but also the place where you will find typical Serbian spirit of life. We appreciate your participation and wish you nice stay with us.

On behalf of the Program & Organizing Committee
Dragan Djuri and Vladimir Jakovljevi

Program & Organizing Committee Chairmen

Djuri D (Belgrade)
Jakovljevi V (Kragujevac)

Honorary Committee

Arsenijevi N (Kragujevac)
anovi P (Kragujevac)
oli M (MMA)
Djoki T (Kosovska Mitrovica)
Milenkovi P (Belgrade)
Mujovi V (Belgrade)
Novakovi M (MMA)
Raki Lj (SASA)
Todorovi V (MMA)
Šuši V (SASA)

Organizing Committee

Blagojevi D (Belgrade)
ubrilo D (Novi Sad)
Ili T (MMA)
Jovovi D (Belgrade)
Milanovi Z (Kosovska Mitrovica)
Ninkovi M (MMA)
Radenkovi M (Niš)
Radenovi L (Belgrade)
Rosi G (Kragujevac)
Vanovi M (MMA)

Confirmed International Speakers

Abramochkin DV (Moscow, Russian Federation)
Boros M (Szeged, Hungary)
Calkovska A (Martin, Slovak Republic)
Chaldakov G (Varna, Bulgaria)
Dhalla N (Winnipeg, Canada)
Gallyas F (Pecs, Hungary)
Heinle H (Tuebingen, Germany)
Hildebrandt W (Marburg, Germany)
Jagla F (Bratislava, Slovak Republic)
Javorka K (Martin, Slovak Republic)
Kinscherf R (Marburg, Germany)
Krylov B (St. Petersburg, Russian Federation)
Kulchitsky V (Minsk, Belarus)
Lopatina E (St. Petersburg, Russian Federation)
Miklos Z (Budapest, Hungary)
Monos E (Budapest, Hungary)
Muntean D (Timisoara, Romania)
Murphey D (Bristol, UK)

Nadasy G (Budapest, Hungary)
Papapetropoulos A (Athens, Greece)
Pechanova O (Bratislava, Slovak Republic)
Pokorny J (Prague, Czech Republic)
Richter V (Leipzig, Germany)
Pierce G (Winnipeg, Canada)
Strbak V (Bratislava, Slovak Republic)
Svorc P (Kosice, Slovak Republic)
Turan B (Ankara, Turkey)
Varro A (Szeged, Hungary)

*** Surnames are given following alphabetical order.*

PRELIMINARY PROGRAM & TOPICS AND SCIENTIFIC SESSIONS

OPENING CEREMONY & WELCOME MESSAGES

PRESENTATION OF THE SERBIAN PHYSIOLOGICAL SOCIETY AWARDS FOR LIFETIME ACHIEVEMENTS AND CONTRIBUTION TO THE PHYSIOLOGY

TOPICS & SCIENTIFIC SESSIONS FOR ORAL AND POSTER PRESENTATIONS
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SESSION 1: MOLECULAR AND CELLULAR PHYSIOLOGY

SESSION 2: CARDIOVASCULAR AND RESPIRATORY PHYSIOLOGY

SESSION 3: EXPERIMENTAL HAEMATOLOGY AND ONCOLOGY

SESSION 4: IMMUNOLOGY

SESSION 5: NUTRITION AND GASTROINTESTINAL PHYSIOLOGY

SESSION 6: NEW PERSPECTIVES IN PHARMACOLOGICAL RESEARCH AND TOXICOLOGY

SESSION 7: NEW PERSPECTIVES IN BIOCHEMISTRY AND MEDICINAL CHEMISTRY

SESSION 8: INTEGRATIVE PHYSIOLOGY OF EXERCISE

SESSION 9: CLINICAL PHYSIOLOGY AND CLINICAL NEUROPHYSIOLOGY

SESSION 10: BIOENERGETICS, OXIDATIVE STRESS AND GASOTRANSMITTERS

SESSION 11: PHYSIOLOGY OF EXTREME CONDITIONS

SESSION 12: NEW PERSPECTIVES IN PATHOPHYSIOLOGY

SESSION 13: NEUROPHYSIOLOGY, NEUROBIOLOGY AND ENDOCRINOLOGY

SESSION 14: YOUNG INVESTIGATOR SESSION

SESSION 15: TEACHING PHYSIOLOGY AND PhD PROGRAM

SESSION 16: FREE COMMUNICATIONS

TEXTBOOKS/MONOGRAPHS PROMOTION

MEETING OF THE SERBIAN PHYSIOLOGICAL SOCIETY ASSEMBLY

CONCLUDING REMARKS & TAKE HOME MESSAGE

LIST OF CONFIRMED LECTURES & ORAL PRESENTATIONS FROM SERBIA

Andjus P (Belgrade, Serbia) *

"Molecular and cellular basis of pathophysiology in amyotrophic lateral sclerosis"

Brankovic S (Niš, Serbia)

"Physiological activities of celery (*Apium graveolens* L.) and parsley (*Petroselinum crispum* L.)"

ubrilo D (Novi Sad, Serbia)

"Anti-inflammatory nutritional interventions through the use of different models of supplementation in young athletes: fatty acids versus antioxidant supplementation"

Djuri D (Belgrade, Serbia)*

"Homocysteine and homocysteine-thiolactone induce cardiac and vascular damage: return to the McCully's protein intoxication theory of arteriosclerosis"

Jakovljevi V (Kragujevac, Serbia)*

"Oxidative stress and exercise in elite athletes"

Jovanovi I (Kragujevac, Serbia)

"The role of Interleukin-33/ST2 axis in cancer growth and metastases"

Mladenovi D (Belgrade, Serbia)

"The effects of finasteride on motor and eeg changes in thioacetamide-induced hepatic encephalopathy in rats"

Nedeljkov V, Stanojevic M, Lopacic S, Spasic S, Prostran M (Belgrade, Serbia)

"Cellular mechanisms of suppressive effects of magnesium on leech Retzius neurons in physiological and pathophysiological conditions"

Neši M (Niš, Serbia)

"Exam stress influences on vocal and graphomotoric characteristics: neurophysiological considerations"

Novokmet S (Kragujevac, Serbia)

"Platinum-induced cardiotoxicity of isolated, perfused rat heart: comparison of pt(ii) and pt(iv) analogues versus cisplatin"

Oreš anin-Duši Z (Belgrade, Serbia)
"When pharmacology meets bioenergetics - ibogaine dossier"

Prostran M (Belgrade, Serbia)*
"Renal function and new oral anticoagulant drugs"

Radenkovi M (Belgrade, Serbia)*
"Pharmacological aspects of endothelial dysfunction"

Radenovi L (Belgrade, Serbia)*
"Biomarkers in cerebral ischemia patients"

Simi T (Belgrade, Serbia)*
"The role of polymorphisms in genes encoding antioxidant enzymes in susceptibility to oxidative stress and cardiovascular risk among hemodialysis patients"

Stanojlovi O (Belgrade, Serbia)*
"Hyperexcitability as CNS dysfunction: experimental approach to understand its mechanisms"

Stojanovi I, Tzakos A (Belgrade, Serbia)
"Anti-oxidant and immunomodulatory roles of plant-derived biophenols"

Stojiljkovi M (Belgrade/Fo a, Bosnia and Herzegovina)
"Hemodynamic effects of lipids in humans"

Volarevi V (Kragujevac, Serbia)
"Immunomodulation of acute liver injury"

Vu kovi S, Savi -Vujovi K, Srebro D, Prostran M (Belgrade, Serbia)
"Synergistic interaction between ketamine and magnesium in lowering body temperature in rats"

Žigon N (Belgrade, Serbia)*
"Heart rate dynamics in doxorubicin-induced cardiomyopathy"

**invited lecture*

LIST OF CONFIRMED LECTURES FROM ABROAD

Abramochkin D (Moscow, Russian Federation)
"Electrophysiological effects of carbon monoxide in mammalian myocardium and their potential mechanisms"

Calkovska A (Martin, Slovakia)
"Pulmonary surfactant: beyond the alveolus"

Chaldakov G, Fiore M, Ghenev P, Beltowski J, Rancic G, Tunçel N, Aloe L (Varna, Bulgaria)
"Triactome: neuro-immune-adipose interactions. Implication in vascular biology"

Dhalla N (Winnipeg, Canada)
"CO₂-bath as a novel therapy for the peripheral vascular heart disease"

Gallyas F (Pecs, Hungary)

"Novel small human heat-shock protein: relation to mitochondrial network dynamics and malignant transformation"

Hildebrandt W (Marburg, Germany)

"Cancer-related muscle wasting: metabolic and microcirculatory findings"

Jagla F (Bratislava, Slovakia)

"Objective and subjective factors affecting the oculomotor response"

Javorka K, Haskova K, Czipelova B, Zibolen M, Javorka M (Martin, Slovakia)

"Baroreflex sensitivity in premature newborns"

Kinscherf R (Marburg, Germany)

"Growth differentiation factor-15 (GDF-15) and atherosclerosis"

Krylov B (St. Petersburg, Russia)

"New molecular mechanisms of chronic pain relief"

Kulchitsky VA, Kaliadzich ZV, Semenik TA, Furmanchuk DA, Andrianova TD, Pashkevich SG (Minsk, Belarus)

"Chemoreceptor control of gas homeostasis in patients with obstructive sleep apnea"

Miklos Z (Budapest, Hungary)

"The role of calcium cycling disturbances in the development of cardiomyopathy"

Muntean D (Timisoara, Romania)

"Modulation of the ATP-sensitive potassium channels in the heart: an update"

Nádasy GL, Monos E (Budapest, Hungary)

"Biomechanical aspects of vessel wall and network remodeling in health and disease"

Pechanova OV (Bratislava, Slovakia)

"NO pathway disorders in metabolic syndrome"

Pierce G (Winnipeg, Canada)

"The use of a novel dietary intervention to control cardiovascular disease: our journey from lab bench to clinical trial"

Pokorny J (Prague, Czech Republic)

"Epigenetic mechanisms of neuroplasticity"

Richter V (Leipzig, Germany)

"Omega-3 fatty acids: dietary intake, metabolism and the role in inflammatory processes"

Strbak V (Bratislava, Slovakia)

"Thyrotropin releasing hormone and insulin secretion"

Turan B (Ankara, Turkey)

"Cross-talk between intracellular ion homeostasis and oxidative stress in cardiomyocytes"

Varro A (Szeged, Hungary)
"Role of sodium-calcium exchanger in cardiac repolarization"

CALL FOR ABSTRACTS

The Program Committee is welcoming the submission of ONLY original contributions for the presentations at the congress.

ON-LINE ABSTRACT SUBMISSION

On-line submission of abstracts is encouraged by the Program Committee. Scientific contributions should be according to the topics of the congress. Abstract must be written in English. Please, note that abstracts whose English language is of poor quality will be rejected. PLEASE, PREFER THE TYPE OF PRESENTATION (oral or poster). Accepted abstracts will be scheduled for the type of presentations by the authority of the Program Committee.

IMPORTANT NOTICE – THE DEADLINE FOR ABSTRACT SUBMISSION IS JULY 20TH 2014.
ABSTRACTS TO BE SEND ONLY TO THE E-MAIL ADDRESSES OF THE PROGRAM/ORGANIZING COMMITTEE drdjuric@eunet.rs or drvladakgbg@yahoo.com
THE NUMBER OF ABSTRACTS IS NOT LIMITED.

Only abstracts accompanied by the payment of the registration fee will be considered for inclusion in Final Program and publication in Abstract Book. The transmission of the abstracts via fax, sending floppy discs, CD or USB by standard mail is not acceptable. Late abstracts will NOT be accepted.

INSTRUCTIONS FOR AUTHORS

- 1) Abstracts should contain short TITTLE; a list of AUTHOR(S); the INSTITUTION(S) (*Italic*) where the investigation was performed and the TEXT.
- 2) The title should be written in capital and bold letters. Underline the presenting author.
- 3) Abstracts should state the study's objective, briefly describe the MATERIALS AND METHOD used, summarize the RESULTS obtained and state the CONCLUSIONS.
- 4) The recommended font is **Time New Roman** and font size **12**. Kindly set the language to English.
- 5) Type the entire abstract single-spaced without margins at the top of sides.
- 6) Abstracts should contain **no more than 250 words**. Abstracts received after the deadline and abstracts not complied according to the instructions will not be accepted.

EXAMPLE:

THE EFFECTS OF NITRIC OXIDE SYNTHASE- OR LIPOXYGENASE INHIBITION ON CORONARY FLOW AND NITRITE OUTFLOW IN ISOLATED RAT HEART

Jakovljevic V¹, Djuric D²

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

The aim of this study was to assess the changes of coronary flow and nitrite outflow under inhibition of nitric oxide synthase by L-NAME or lipoxygenase induced by nordihydroguaiaretic (NDGA, LOX-inhibition) acid in isolated rat heart. The hearts of male Wistar albino rats (n=18, age 8 weeks, body mass 180-200 g) were retrograde perfused according to the Langendorff technique at gradually increased constant perfusion pressure conditions (CPP, 40-120 cm H₂O) which induced flow-dependent NO release (nitrite outflow).....

NOTIFICATION OF ACCEPTANCE

Authors will be informed of their abstract acceptance (or rejection) and scheduled date of presentation not later than **September 25th 2014**. For this notification, the correct mailing address including phone, fax number and e-mail address is essential. Please carefully fill the e-mail address sending with abstracts. The registered author is responsible for informing all authors of the status of the abstract.

DATE OF ANNOUNCEMENT & ABSTRACTS DEADLINE

The first announcement: end of March 2014

The second announcement: end of June 2014

Abstracts deadline: July 20th 2014

The final program: end of September 2014

CONGRESS DATE

October 29-31, 2014

CONGRESS VENUE

VMA (Military Medical Academy) – Amphitheatre

Left entrance/Official entrance

Str. Crnotravska 17, Beograd

(Participation upon registration only)

REGISTRATION

The congress desk will be open on:

October 29th 8.00 – 19.00

October 30th 8.00 – 19.00

October 31st 8.00 – 12.00

REGISTRATION FEE (before October 1st 2014 or after October 1st 2014)

PARTICIPANTS 60 € or 80 €
MEMBERS OF THE SERBIAN PHYSIOLOGICAL SOCIETY 20 € or 40 €
(confirmation of regularly paid membership fee for 2011, 2012, 2013, and 2014; per year 1000 RSD)
STUDENTS (only undergraduates) *free of charge

*Certificate required

Please use exchange offices located near to the congress venue.

NOTICE:

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

INTERMEDIARY BANK/CORRESPONDENT BANK:

SWIFT – BIC: DRESDEFF
Name: DRESDNER BANK AG
City, Country: FRANKFURT AM MAIN, GERMANY

ACCOUNT WITH INSTITUTION/BENEFICIARY'S BANK:

SWIFT – BIC: KOBRBSBGXXX
Name: KOMERCIJALNA BANKA A.D. BEOGRAD
Street: SVETOG SAVE 14
City, Country: BEOGRAD, REPUBLIC OF SERBIA

BENEFICIARY:

IBAN/Account Number: RS35205007040000174821
Name: DRUŠTVO FIZIOLOGA REP. SRBIJE
Street: DR SUBOTICA BR 8
City, Country: 11000 BEOGRAD, REPUBLIC OF SERBIA

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. The congress will be CME accredited.

COFFEE, REFRESHMENT AND LUNCH

Lunch, coffee or tea should be provided by sponsors of the congress or on a commercial basis in restaurant of the Military Medical Academy during the working days of the congress. Gala dinner is not included in the registration fee and should be provided with additional cost of 25 Euro per person.

OFFICIAL LANGUAGE

Official languages will be English and Serbian (in this case please use the presentation in English). No simultaneous translation will be provided. All abstracts will be published in English.

ORAL PRESENTATION

Invited speakers are allocated 20 minutes for the presentation. All other speakers for oral presentations are kindly requested to keep their presentation 10-12 minutes maximal.

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 in group of young investigators.

AUDIOVISUAL FACILITIES

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

SOCIAL PROGRAM

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

ACCOMMODATION

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

CANCELLATION AND REFUNDS

Notification of cancellation should be sent in writing to the Organizing/Program Committee. If a cancellation is received before October 10th 2014, 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

Very limited number of presentations will be published as full-length papers in *Acta Physiologica Hungarica*. In addition certain number of papers will be published in *Serbian Journal of Experimental and Clinical Research*, official journal of the Faculty of Medical Sciences, University of Kragujevac and the Serbian Physiological Society. **For both options it will be possible upon invitation ONLY and STRICTLY after peer-review procedure after the congress.**

IMPORTANT NOTICE

Military Medical Academy is the most important sponsor of *The Third Congress of Physiological Sciences of Serbia 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 all scientific sessions including exhibition will be allowed ONLY for the participants with valid badge identification and after regularly paid congress fee. Exchange office is located beside registration desk. Parking place in surrounding of Military Medical Academy will be on the responsibility of the participant; please use public or taxi transport.

FOR OTHER INQUIRES PLEASE CONTACT:

Professor Vladimir Lj. Jakovljevic, MD, PhD, FIACS
Department of Medical Physiology,
Faculty of Medical Sciences, University of Kragujevac,
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34000 Kragujevac, Serbia
Phone: +381 34 342 944, Fax: + 381 34 306 800/ext 112
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APPLICATION FORM

**3rd CONGRESS OF PHYSIOLOGICAL SCIENCES OF SERBIA
WITH INTERNATIONAL PARTICIPATION**

October 29-31, 2014
Military Medical Academy,
Belgrade, Republic of Serbia

FIRST NAME AND SURNAME _____

PROFESSION/TITLE _____

INSTITUTION _____

ADDRESS _____

COUNTRY _____ Phone _____ Fax _____

E-mail _____

TITLE OF PRESENTATION

TOPICS & SCIENTIFIC SESSION _____

PRESENTATION PREFERENCE

ORAL

POSTER

EITHER

Date:

Signature:

*Please fill this form and send it with abstract (s) to the Program/Organizing Committee
E-mail address drvladakbg@yahoo.com till July 20th, 2014.

THE CONGRESS HAS BEEN SUPPORTED BY:

MINISTRY OF EDUCATION AND SCIENCE
MINISTRY OF HEALTH
MILITARY MEDICAL ACADEMY
FACULTY OF MEDICAL SCIENCES, UNIVERSITY OF KRAGUJEVAC
CENTRE FOR INFORMATION AND EDUCATION KRAGUJEVAC
EXPERIMETRIA GMBH