

THE SERBIAN PHYSIOLOGICAL SOCIETY

IS PLEASED TO ANNOUNCE

4th CONGRESS OF PHYSIOLOGICAL SCIENCES OF SERBIA WITH INTERNATIONAL PARTICIPATION

ENTITLED

**“CURRENT TRENDS IN PHYSIOLOGICAL SCIENCES:
FROM CELL SIGNALS TO THE BIOLOGY OF AGING“**

CME in progress to be accredited by the Health Council of Serbia

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)*



THE FIRST ANNOUNCEMENT

SEPTEMBER 19-23, 2018
FACULTY OF MEDICINE, UNIVERSITY OF NIŠ,
NIŠ, REPUBLIC OF SERBIA

FOREWORD

Dear Colleagues,

We are very pleased to inform you that the 4th *Congress of Physiological Sciences of Serbia with International Participation* will be held during September 19-23, 2018 at the Faculty of Medicine University of Niš. For the last 16 years, the Serbian Physiological Society has developed a series of national and internationally recognized congresses and meetings: the conferences of physiological sciences with international participation on environmental risk factors, oxidative biology and human health (Zlatibor 2001; Belgrade/Zrenjanin, 2003; Kragujevac 2004), 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 (Kovačica 2013), third congress of physiological sciences with international participation (Belgrade, 2014), second European meeting of the International Academy of Cardiovascular Sciences (Belgrade, 2015), second joint scientific meeting of the national physiological societies organized by the Slovak Physiological Society and Serbian Physiological Society (Smolenice 2016, Slovakia), the joint scientific meeting of the national physiological societies organized by the Hungarian Physiological Society and Serbian Physiological Society (Subotica 2017), and a few CME meetings in the field of atherosclerosis, vascular biology, and risk factors and health. 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 former years directed us to plan and organize fourth national congress in order to improve research background, and make easier approach to the global research cooperation. Our wish is having this congress traditional and progressive, and to attract the physiologists from abroad and especially surrounding countries. This time congress is more directed to molecular and cellular physiology, genetics, translational and applied aspects in physiological research like nutrition and balneology, however other biomedical topics will be also presented. 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.

We really hope that this congress is a unique opportunity for all participants to exchange their ideas and give their own contribution in this fruitful cooperation. Finally, Niš town, located in south part of Serbia is not only the place where you will find typical Serbian spirit of life, but also the place which is known for the worldwide recognized sacral and historical objects and monuments, museums, galleries etc.

We appreciate your participation and wishing you warm welcome to Niš and south part of Serbia.

On behalf of the Program/Organizing Committee

Dragan M. Djurić and Vladimir Jakovljević

CONGRESS COMMITTEES CHAIRMEN

Djurić DM, Belgrade, *Program Committee Chairman*
Jakovljević V, Kragujevac, *Organizing Committee Chairman*

LOCAL ORGANIZING COMMITTEE

Stojiljković N, Niš, *Local Committee Chairman*

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Slezak J (Bratislava, Slovak Republic)
Strbak V (Bratislava, Slovak Republic)
Tappia P (Winnipeg, Canada)
Varro A (Szeged, Hungary)

PROGRAM COMMITTEE MEMBERS

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Vasić V (Vinča)
Volarević V (Kragujevac)
Vučević D (Belgrade)
Vučić V (Belgrade)
Vučković S (Belgrade)
Živančević Simonović J (Kragujevac)
Žigon Japundžić N (Belgrade)
Živković V (Kragujevac)

CME COORDINATOR

Djurić D (Kragujevac)

CONFIRMED LECTURES:

Naranjan Dhalla: **Search for New Targets for the Treatment of Hypertension**

Distinguished Professor&Director of Cardiovascular Developments, SBRC Institute of Cardiovascular Sciences St. Boniface Hospital Albrechtsen Research Centre, Winnipeg, Canada

Frantisek Kolar: **Cardioprotection induced by chronic continuous or intermittent hypoxia**

Department of Developmental Cardiology, Institute of Physiology, Czech Academy of Sciences, Prague, Czech Republic

Vladimir Strbak: **Conventional and regulatory secretory pathway of insulin, possible role in diabetes mellitus**

Biomedical Research Center, Slovak Academy of Sciences, Institute of Experimental Endocrinology, Bratislava, Slovak Republic, Institute of Normal and Pathological Physiology, Medical Faculty of the Slovak Medical University, Bratislava, Slovak Republic

Bohuslav Ostadal: **Regional heterogeneity of the ventricular myocardium**

Institute of Physiology, Czech Academy of Sciences, Prague, Czech Republic

Rakesh Kukreja: **Protein Kinase G Signaling in Cardioprotection**

Scientific Director, Department of Internal Medicine, Division of Cardiology, VCU Pauley Heart Center Virginia Commonwealth University Richmond, Virginia, USA

Istvan Backo: **Establishment and characterization of a LQT2-5 double transgenic rabbit model**

University of Szeged, Faculty of Medicine, Department of Pharmacology and Pharmacotherapy

Antigone Lazou: **Cardiac metabolic control and autophagy**

Institute of Physiology, School of Biology, Aristotle University of Thessaloniki, Greece

Grant Pierce: **The problem and a potential solution to the threat of multi-drug resistance to antibiotics**

Professor & Executive Director of Research, SBRC Institute of Cardiovascular Sciences St. Boniface Hospital Albrechtsen Research Centre, Winnipeg, Canada

Ralph Kinscherf: **The role of the neuropeptide PACAP during atherosclerosis development/progression**

Vice Executive Director of the Institute & Chair for Anatomy and Cell Biology Head of the Department of Medical Cell Biology Philipps-University Marburg, Germany

Devendra Agrawal: Gene Therapy to Control Intimal Hyperplasia and Restenosis following Coronary Intervention

Department of Clinical & Translational Science, Creighton University School of Medicine, Omaha, USA

Fedor Jagla: Electrophysiological correlates (EOG, EEG, EMG) of human executive functioning

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

Danina Muntean: Vitamin D: Novel D-fence against oxidative stress in vascular and adipose tissues

Department of Pathophysiology - Functional Sciences, Center for Translational Research and Systems Medicine, "Victor Babeş" University of Medicine and Pharmacy Timișoara, Romania

Jan Slezak: The influence of molecular hydrogen on cardiac mitochondria

Institute for Heart Research, Slovak Academy of Sciences, Bratislava, Slovak Republic

George Chalidakov: Human body as multicrine system, with special reference to cell protein secretion: from vascular smooth muscle cells to adipose tissue

Department of Anatomy and Cell Biology, Medical University Varna, Bulgaria

Denis Abramochkin: Diadenosine polyphosphates and NAD⁺ as novel regulators of cardiac electrical activity

Department of Human and Animal Physiology, Biological Faculty, Lomonosov Moscow State University, Moscow, Russia

Vladislav Kuzmin: Automatic activity in myocardial sleeves

Lomonosov Moscow State University, Pirogov Russian National Research Medical University, Moscow, Russia

Mihaly Boros: Bioactive role for methane in eukaryotic biological systems

University of Szeged, Faculty of Medicine, Institute of Surgical Research

Andras Varro: to be determined

Pram Tappia: to be determined

Olga Pechanova: to be determined

Dragan Djuric: The relationship of homocysteine and other cardiovascular biomarkers in different models of cardiovascular diseases in rats: focus on hyperhomocysteinemia, hypermethioninemia, heart failure and diabetes mellitus

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

Igor Pantic: Changes in chromatin textural entropy in physiological conditions
Institute of Physiology “Richard Burian”, Faculty of Medicine, University of Belgrade, Serbia

Predrag Brkic: The effect of hyperbaric oxygenation on neurogenesis after the experimental brain injury
Institute of Physiology “Richard Burian”, Faculty of Medicine, University of Belgrade, Serbia

Vladimir Jakovljevic: The influence of different type exercise on arterial hypertension: evidence from recent experimental data
Department of Physiology, Faculty of Medical Sciences, University of Kragujevac, Serbia

Gvozden Rosic: The overview of behavioral manifestations that correlate to alterations in hippocampal MC4 receptor content
Department of Physiology, Faculty of Medical Sciences, University of Kragujevac, Serbia

Vladimir Zivkovic: RAAS in streptozotocin-induced diabetic rat heart: role of oxidative stress
Department of Physiology, Faculty of Medical Sciences, University of Kragujevac, Serbia

Ivan Srejovic: The role of NMDA receptors in heart physiology
Department of Physiology, Faculty of Medical Sciences, University of Kragujevac, Serbia

Nevena Jeremic: Potentially cardioprotective effects of chronic DATS administration on ischemic reperfusion injury of healthy and type 2 diabetic rats
Department of Pharmaceutical Chemistry, Faculty of Medical Sciences, University of Kragujevac, Serbia

Vesna Vucic: Nutrition, inflammation and disease
Centre of Research Excellence in Nutrition and Metabolism, Institute for Medical Research, University of Belgrade, Serbia

Danijela Ristic-Medic: Nutrition in chronic kidney disease
Centre of Research Excellence in Nutrition and Metabolism, Institute for Medical Research, University of Belgrade, Serbia

Zoran Miloradovic: Differences between angotensin 2 type 1 receptor antagonism and type 2 receptor stimulation in model of spontaneously hypertensive rats with induced acute kidney injury
Laboratory for Experimental Cardiovascular Physiology, Institute for Medical Research, University of Belgrade, Serbia

Tihomir Ilic: Presumed mechanisms underlying the therapeutic effects of non-invasive brain stimulation in humans
Department of Neurophysiology, Clinic for Neurology, Military Medical Academy, University of Defance, Belgrade, Serbia

Nenad Stojiljkovic: Oxidative stress in different animal models of acute kidney injury
Department of Physiology, Faculty of Medicine, University of Nis, Serbia

Tatjana Kostic: Cronobiological aspects of male reproduction
Department of Animal Physiology, Faculty of Sciences, University of Novi Sad, Serbia

Silvana Andric: Mitochondrial biogenesis as adaptive mechanism to maintain disturbed homeostasis of reproductive axis
Department of Animal Physiology, Faculty of Sciences, University of Novi Sad, Serbia

Dusko Blagojevic: Redox homeostasis and cellular receptors: regulation of smooth muscle contractility
Department of Physiology, Institute of Biological Research “Sinisa Stankovic”, University of Belgrade, Serbia

Mihajlo Spasic: Ferroptosis: new targets for modulation of cell fate
Department of Physiology, Institute of Biological Research “Sinisa Stankovic”, University of Belgrade, Serbia

Zvezdana Kojic: Safety assessment of micro- and nano-structured hydroxyapatite particles using in vitro and in vivo models
Institute of Physiology “Richard Burian”, Faculty of Medicine, University of Belgrade, Serbia

Dragan Hrnac: Neuronutrition: dietary modulation of hyperexcitability
Institute of Physiology “Richard Burian”, Faculty of Medicine, University of Belgrade, Serbia

Session: Redox Regulation Between Health and Disease

Chairpersons: Tatjana Simic, Jelena Kotur Stevuljevic, Bato Korac

Marija Matic, University of Belgrade, Faculty of Medicine, Belgrade: **Association of Glutathione S-Transferase Polymorphisms with Balkan Endemic Nephropathy and BEN Related Urinary Bladder Carcinoma**

Tatjana Djukic, University of Belgrade, Faculty of Medicine, Belgrade: **S-□Glutathionylation: From Molecular Mechanisms to Human Diseases**

Aleksandra Jankovic, University of Belgrade, Institute for Biological Research “Sinisa Stankovic”, Belgrade: **Redox Balance in Aging Skin: Molecular Basis and Therapeutic Target**

Vesna Otasevic, University of Belgrade, Institute for Biological Research “Sinisa Stankovic”, Belgrade: **Redox Signaling as a Novel Strategy to Treat Male Infertility**

Aleksandra Stefanovic, University of Belgrade, Faculty of Pharmacy, Belgrade: **Inflammation and Oxidative Stress in the Pathogenesis of Preeclampsia**

RESEARCH TOPICS AND OTHER POSSIBLE SESSIONS

SESSION 1: MOLECULAR AND CELLULAR PHYSIOLOGY

SESSION 2: GENETICS AND GENETIC EPIDEMIOLOGY

SESSION 3: CARDIOVASCULAR PHYSIOLOGY, EXERCISE AND RESPIRATORY PHYSIOLOGY

SESSION 4: EXPERIMENTAL HAEMATOLOGY, ONCOLOGY AND 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: TRANSLATIONAL AND APPLIED RESEARCH IN BALNEOLOGY, HYPERBARIC OXYGENATION AND NUTRITION

SESSION 9: CLINICAL PHYSIOLOGY AND CLINICAL NEUROPHYSIOLOGY

SESSION 10: BIOENERGETICS, OXIDATIVE STRESS AND TISSUE RESPIRATION

SESSION 11: PHYSIOLOGY OF EXTREME CONDITIONS

SESSION 12: NEW PERSPECTIVES IN PATHOPHYSIOLOGY

SESSION 13: NEUROBIOLOGY AND NEUROPHYSIOLOGY

SESSION 14: ENDOCRINOLOGY AND NEUROENDOCRINOLOGY

SESSION 15: YOUNG INVESTIGATOR SESSION

SESSION 16: TEACHING PHYSIOLOGY AND PhD PROGRAM

SESSION 17: FREE COMMUNICATIONS

IMPORTANT INFORMATION

Congress date: September 19-23, 2018
Congress Venue: Faculty of Medicine, University of Niš, Niš, Serbia (Blvd. Dr Zorana Djindjica 81)
(Participation upon registration only)

CALL FOR ABSTRACTS

The Program Committee is welcoming the submission of ONLY original contributions for oral and poster presentations at the meeting.

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 meeting. 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 1st 2018.
ABSTRACTS TO BE SEND ONLY TO THE E-MAIL ADDRESSES OF THE PROGRAM/ORGANIZING COMMITTEE drdjuric@eunet.rs ili drvkladakgbg@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 1st 2017**. 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.

ANNOUNCEMENTS DELIVERY

The first announcement: second half of October 2017 and end of January 2018

The second announcement: second half of May 2018

The final program: the first half of September 2018

REGISTRATION FEE (before September 1st 2018 or after September 1st 2018)

PARTICIPANTS	60 € or 80 €
MEMBERS OF THE SERBIAN PHYSIOLOGICAL SOCIETY	20 € or 40 €
(confirmation of regularly paid membership fee for 2015, 2016, 2017, and 2018; per year 1000 RSD)	
STUDENTS (<u>only undergraduates</u>)	*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: KOBRSBGXXX

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

COFFEE, REFRESHMENT AND LUNCH

Lunch, coffee or tea should be provided by sponsors of the congress or on a commercial basis in a restaurant of the Faculty of Medicine University of Niš during the working days of the congress.

OFFICIAL LANGUAGE

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

ORAL PRESENTATION

Plenary lecture speakers are allocated 20-25 minutes for presentation. All other speakers for oral presentations are kindly requested to keep their presentation 15 minutes maximal with discussion time. Award will be offered for the best oral presentation in a group of young investigators.

POSTER PRESENTATION

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

FULL-LENGTH PAPERS

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

APPLICATION FORM

**4th CONGRESS OF PHYSIOLOGICAL SCIENCES OF SERBIA
WITH INTERNATIONAL PARTICIPATION**

September 19-23, 2018
Faculty of Medicine, University of Niš,
Niš, 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 01st, 2018.

FOR OTHER INQUIRES PLEASE CONTACT:

Professor Vladimir Lj. Jakovljević, MD, PhD, FIACS
Department of Medical Physiology,
Faculty of Medical Sciences, University of Kragujevac,
str. Svetozara Markovica 69, P.O.B. 124,
34000 Kragujevac, Serbia
Phone: +381 34 342 944, Fax: + 381 34 306 800/ext 112
E-mail: drvladakbg@yahoo.com

THE CONGRESS HAS BEEN SUPPORTED BY:

FACULTY OF MEDICINE, UNIVERSITY OF NIŠ
FACULTY OF MEDICAL SCIENCES, UNIVERSITY OF KRAGUJEVAC
CENTRE FOR INFORMATION AND EDUCATION KRAGUJEVAC