6th MEETING OF EUROPEAN SECTION AND 7th MEETING OF NORTH AMERICAN SECTION OF THE INTERNATIONAL ACADEMY OF CARDIOVASCULAR SCIENCES (IACS)

"CARDIOMETABOLIC DISEASES: HOW NEW RESEARCH MAY LEAD TO NEW CARDIOPROTECTIVE THERAPY"

Organized by the
International Academy of Cardiovascular Sciences - European and North American Sections
Serbian Association for Arteriosclerosis, Thrombosis and Vascular Biology Research

FINAL PROGRAM

Meeting Venue: Hotel Fontana, Vrnjacka Banja, Serbia (Date: September 11th-14th, 2019)
Pre-Meeting Venue: Hotel Sumarice, Kragujevac, Serbia (Date: September 10th, 2019)

CME accredited by the Health Council of Serbia

Vrnjacka Banja, Serbia
September 11th-14th, 2019
6th MEETING OF EUROPEAN SECTION AND
7th MEETING OF NORTH AMERICAN SECTION OF THE
INTERNATIONAL ACADEMY OF CARDIOVASCULAR SCIENCES
(IACS)

"CARDIOMETABOLIC DISEASES: HOW NEW RESEARCH
MAY LEAD TO NEW CARDIOPROTECTIVE THERAPY"

Organized by the
International Academy of Cardiovascular Sciences -
European and North American Sections
Serbian Association for Arteriosclerosis, Thrombosis and
Vascular Biology Research

FINAL PROGRAM

Meeting Venue: Hotel Fontana, Vrnjacka Banja, Serbia
(Date: September 11th-14th, 2019)

Pre-Meeting Venue: Hotel Sumarice, Kragujevac, Serbia
(Date: September 10th, 2019)

CME accredited by the Health Council of Serbia

Vrnjacka Banja, Serbia
September 11th-14th, 2019
Dear Colleagues,

We are very pleased to inform you that the 6th Meeting of European Section and 7th Meeting of North American Section of the International Academy of Cardiovascular Sciences will be jointly held during September 11th-14th, 2019 in Vrnjacka Banja (Vrnjacka Spa, Vrnci Spa) with pre-meeting clinical cardiology symposium in Kragujevac. For the last 18 years, the Serbian Physiological Society and Serbian Association for Arteriosclerosis, Thrombosis and Vascular Biology Research organized a series of national and internationally recognized congresses and meetings in the field of atherosclerosis, cardiovascular biology, 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 this cardiovascular event in order to improve research background, and make easier approach to the global research cooperation. Our wish is having this meeting traditional and progressive, and to attract the researchers from abroad and especially from surrounding countries. This time meeting is more directed to cardiometabolic diseases and research, risk factors, oxidative stress and inflammation, genetics, cardiovascular protection, epidemiology, prevention, nutrition, exercise and hyperbaric physiology however translational and applied aspects in cardiovascular research will be also presented. The scientific program will include a broad mix of topics from molecular, cellular and integrative aspects of cardiovascular sciences going ahead to the scientific problems covered by the international scientific community.

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, spa resort Vrnjacka Banja, located in central 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. Vrnjacka Banja have been known for their curative properties since Roman times, and it is the queen of all mineral springs in Balkans, harmoniously balanced in its beautiful natural surroundings. The resort features a number of beautiful 19th and 20th century villas around the spring and on top the surrounding hills. Today Vrnjacka Banja is an oasis of health, energy and beauty and a well-developed tourist destination, popular among domestic and foreign guests seeking spa treatments or a relaxing getaway in the countryside.

We appreciate your participation and wishing you warm welcome to Vrnjacka Banja and central Serbia.

On behalf of the Organizing & Program Committee
Gary Lopaschuk, Andras Varro, Vladimir Jakovljevic and Dragan Djuric
MEETING CO-CHAIRS

Jakovljevic Vladimir (Kragujevac, Serbia)  Djuric Dragan (Belgrade, Serbia)

HONORARY CO-CHAIRS

Bolli Roberto, President, IACS (Louisville, USA)
Dhalla Naranjan, Executive Director, Honorary Life President, IACS (Winnipeg, Canada)
Lopaschuk Gary, President, IACS-North America (Edmonton, Canada)
Ostadal Bohuslav, Past President, IACS (Prague, Czech Republic)
Pierce Grant, President-Elect, IACS (Winnipeg, Canada)
Varro Andras, President, IACS-Europe (Szeged, Hungary)

INTERNATIONAL PROGRAM COMMITTEE

Abdellatif Maha (Newark, USA)
Agrawal Devendra (Pomona, USA)
Anand-Srivastava Madhu (Montreal, Canada)
Baczko Istvan (Szeged, Hungary)
Barta Judit (Debrecen, Hungary)
Bkaily Ghassan (Sherbrooke, Canada)
Bartekova Monika (Bratislava, Slovak Republic)
Beltowski Jerzy (Lublin, Poland)
Blackman Antoinette (Belo Horizonte, Brazil)
Bock-Marquette Ildiko (Pecs, Hungary)
Bolevich Sergey (Moscow, Russian Federation)
Buttar Harpal (Ottawa, Canada)
Chaldakov George (Varna, Bulgaria)
Czubryt Michael (Winnipeg, Canada)
Dewenter Matthias (Heidelberg, Germany)
Dhingra Sanjiv (Winnipeg, Canada)
Dobrev Dobromir (Essen, Germany)
Duan Darrel Dayue (Reno, USA)
Feldman Ross (Winnipeg, Canada)
Ferdinandy Peter (Budapest, Hungary)
Ferguson Stephen (Ottawa, Canada)
Furtado Henrique (Palmas, Brazil)
Gallyas Ferenc (Pecs, Hungary)
Gelpi Ricardo (Buenos Aires, Argentina)
Gilchrist James (Winnipeg, Canada)
Gomez Ana Marie (Paris, France)
Gulati Kavita (Delhi, India)
Halade Ganesh (Birmingham, USA)
Hamet Pavel (Montreal, Canada)
Jespersen Thomas (Copenhagen, Denmark)
Kirshenbaum Lorrie (Winnipeg, Canada)
Kulchitsky Vladimir (Minsk, Belarus)
Kukreja Rakesh (Richmond, USA)
Kundu Suman (New Delhi, India)
Lionetti Vincenzo (Pisa, Italy)
Lopatina Ekaterina (St. Petersburg, Russian Federation)
Marks Andrew (New York, USA)
Makino Naoki (Beppu, Japan)
Maurice Don (Kingston, Canada)
McKinsey Timothy (Denver, USA)
Mehta Jawahar (Little Rock, USA)
Morad Martin (Charleston, USA)
Mraiche Fatima (Doha, Qatar)
Muntean Danina (Timisoara, Romania)
Nader Moni (Riyadh, Saudi Arabia)
Nezic Lana (Banja Luka, Bosnia and Herzegovina)
Ostadal Petr (Prague, Czech Republic)
Papp Zoltan (Debrecen, Hungary)
Ramasamy Ravichandran (New York, USA)
Ray Arunabha (New Delhi, India)
Ravingerova Tatiana (Bratislava, Slovak Republic)
Schunck Wolf (Berlin, Germany)
Seubert John (Edmonton, Canada)
Singal Pawan (Winnipeg, Canada)
Singla Dinender (Orlando, USA)
Slezak Jan (Bratislava, Slovak Republic)
Skrbic Ranko (Banja Luka, Bosnia and Herzegovina)
Srivastava Ashok (Montreal, Canada)
Tappia Paramjot (Winnipeg, Canada)
Tremblay Johanne (Montreal, Canada)
Tipparaju Srinivas (Tampa, USA)
Tuana Balwant (Ottawa, Canada)
Tyagi Suresh (Louisville, USA)
Ussher John (Edmonton, Canada)
Valdivia Hector (Madison, USA)
Virag Laszlo (Szeged, Hungary)
Vondriska Thomas (Los Angeles, USA)
Wallukat Gerd (Berlin, Germany)
Wilson Daniel (Pomona, USA)
LOCAL PROGRAM COMMITTEE

Djukic Aleksandar (Kragujevac)
Djuric Dragan (Belgrade)
Djuric Tamara (Vinca)
Gopcevic Kristina (Belgrade)
Ivanov Milan (Belgrade)
Jakovljevic Vladimir (Kragujevac)
Jankovic Aleksandra (Belgrade)
Japunzic Zigon Nina (Belgrade)
Jeremic Nevena (Kragujevac)
Jotic Aleksandra (Belgrade)
Kolic Zvezdana (Belgrade)
Krga Irena (Belgrade)
Lalic Nebojsa (Belgrade)
Lalic Katarina (Belgrade)
Mihailovic Stanojevic Nevena (Belgrade)
Miloradovic Zoran (Belgrade)
Nikolic Turnic Tamara (Kragujevac)
Radenkovic Miroslav (Belgrade)
Rosic Gvozden (Kragujevac)
Simic Tatjana (Belgrade)
Srejovic Ivan (Kragujevac)
Stojiljkovic Milos (Belgrade, Serbia)
Vucic Vesna (Belgrade)
Zivkovic Vladimir (Kragujevac)

LOCAL ORGANIZING COMMITTEE

Andric Silvana (Novi Sad)
Bradic Jovana (Kragujevac)
Djuric Dusan (Kragujevac)
Jeremic Jovana (Kragujevac)
Kostic Tanja (Novi Sad)
Milosavljevic Isidora (Kragujevac)
Petkovic Anica (Kragujevac)
Srejovic Ivan (Kragujevac), Secretary
Stanojevic Dejan (Vrnjacka Banja)
Vranic Aleksandra (Kragujevac)
PROGRAM AT GLANCE

**Tuesday, September 10th, 2019**  
(Pre-Meeting Venue: Hotel Sumarice, Kragujevac)  
14.00-18.15 Pre-Meeting on Clinical Cardiology Topics

**Wednesday, September 11th, 2019**  
(Meeting Venue: Hotel Fontana, Vrnjacka Banja)  
13.00-16.00 Arrival and Registration  
13.00-16.00 Pre-Symposium on Diabetes Mellitus (Medical and Spa Resort Merkur)  
16.30-19.30 Welcome Messages  
16.30-19.30 Presidential Address  
19.30 Keynote Speakers (three, 30 min each talk)  
19.30 Presentations of the Serbian Physiological Society Awards  
19.30 Special Presentations by the IACS  
19.30 CV Network Group Photo  
19.30 Welcome Reception

**Thursday, September 12th, 2019**  
Parallel Scientific Sessions/Each talk 20 min including discussion  
09.00-12.30 Two Parallel Scientific Sessions  
13.00-14.30 Lunch Break  
14.30-17.45 Two Parallel Scientific Sessions  
18.00-19.30 Poster Session 1  
19.30 Dinner

**Friday, September 13th, 2019**  
Parallel Scientific Sessions/Each talk 20 min including discussion  
09.00-13.00 Two Parallel Scientific Sessions  
13.00-14.30 Lunch Break  
14.30-18.30 Two Parallel Scientific Sessions  
18.30-20.00 Poster Session 2  
20.00 Free Evening/IACS North American and European Boards Meetings

**Saturday, September 14th, 2019**  
Parallel Scientific Sessions/Each talk 20 min including discussion  
09.00-11.00 Three Parallel Scientific Sessions  
11.15-12.45 Young Investigator Awards Competition  
12.45-13.00 Concluding Remarks  
13.30-19.30 Excursion to Serbia Countryside with Lunch and Wine Tasting  
20.30 IACS Awards Session/Gala Dinner
WELCOME MESSAGES/PRESIDENTIAL ADDRESS/KEYNOTE LECTURES/AWARDS

16.30 -19.30

Bolli R (Louisville, USA), President, IACS
Dhalla N (Winnipeg, Canada), Executive Director, Honorary Life President, IACS
Djuric D (Belgrade, Serbia), Chair, Program Committee
Jakovljevic V (Kragujevac, Serbia), Chair, Organizing Committee
Lalic N (Belgrade, Serbia), Chairman, National Expert Committee for Diabetes
Lopaschuk G (Edmonton, Canada), President, IACS-North America
Ostadal B (Prague, Czech Republic), Past President, IACS
Pierce G (Winnipeg, Canada), President-Elect, IACS
Varro A (Szeged, Hungary), President, IACS-Europe

Chair: Dhalla N (Winnipeg, Canada)

Presidential Address
CURRENT STATUS OF CELL THERAPY FOR HEART DISEASE
(30 min)

Bolli R
Jewish Hospital, Heart and Lung Institute, Department of Medicine, Division of Cardiovascular Medicine, Institute of Molecular Cardiology, Cardiovascular Innovation Institute, University of Louisville School of Medicine and Physicians Outpatient Center, Louisville, USA
Chair: Ostadal B (Prague, Czech Republic)

Naranjan Dhalla Honorary Lecture (30 min)
A JOURNEY FROM BASIC RESEARCH TO CLINICAL TRIALS ON THE EFFECTS OF DIETARY FLAXSEED ON CARDIOVASCULAR HEALTH
Pierce GN
Canadian Centre for Agri-food Research in Health and Medicine, Institute of Cardiovascular Sciences, St. Boniface Hospital, Department of Physiology and Pathophysiology, Rady Faculty of Health Sciences, University of Manitoba, Winnipeg, Canada

Keynote Lecture (30 min)
STIMULATING CARDIAC KETONE OXIDATION AS AN APPROACH TO TREAT HEART FAILURE
Lopaschuk G
Department of Pediatrics, Faculty of Medicine and Dentistry, University of Alberta, Edmonton, Canada

Keynote Lecture (30 min)
SUDDEN DEATH OF TOP ATHLETES: POSSIBLE MECHANISM BASED ON CELLULAR ELECTROPHYSIOLOGICAL CONSIDERATION
Varro A1,2
1Department of Pharmacology and Pharmacotherapy, Faculty of Medicine, University of Szeged, Szeged, 2MTA-SZTE Research Group of Cardiovascular Pharmacology, Hungarian Academy of Sciences, Szeged, Hungary

PRESENTATIONS OF THE SERBIAN PHYSIOLOGICAL SOCIETY AWARDS FOR LIFETIME ACHIEVEMENT IN PHYSIOLOGICAL SCIENCES
Moderators: Djuric D (Belgrade, Serbia), Jakovljevic V (Kragujevac, Serbia)

SPECIAL PRESENTATIONS BY THE INTERNATIONAL ACADEMY OF CARDIOVASCULAR SCIENCES
Moderators: Bolli R (Louisville, USA), Dhalla N (Winnipeg, Canada)

19.30 CV NETWORK GROUP PHOTO (in front of main entrance to hotel)

WELCOME RECEPTION
SYMPOSIUM 1: TRANSCRIPTION, TRANSLATION AND EPIGENETICS IN HEART FAILURE
(Room F2)

9.00-10.30

Chairs: Dhingra S (Winnipeg, Canada), Lopaschuk G (Edmonton, Canada)

REMODELING CHROMATIN ARCHITECTURE IN HEART FAILURE
Vondriska TM
David Geffen School of Medicine, University of California, Los Angeles, USA

TARGETING THE CAMKII-HDAC4 INTERACTION TO TREAT HEART FAILURE
Dewenter M1, von der Lieth A1, He T1, Chen L1, Beckendorf J2, Lewis J3, de Angelis MH4, Zimmermann W5, Klebl B6, Katus HA2, Backs J1
1Institute of Experimental Cardiology, University of Heidelberg, Heidelberg, and German Centre for Cardiovascular Research (DZHK), Partner Site, Heidelberg/Mannheim, 2Department of Cardiology, Angiology and Pneumology, University of Heidelberg, Heidelberg, and German Centre for Cardiovascular Research (DZHK), Partner Site, Heidelberg/Mannheim, 3Chemical Biology Core Facility, European Molecular Biology Laboratory (EMBL), Heidelberg, 4German Mouse Clinic, Institute of Experimental Genetics, Helmholtz Zentrum Muenchen, Munich, 5Institut fur Pharmakologie und Toxikologie, Universitätsmedizin Gottingen, Gottingen, 6Lead Discovery Center, Dortmund, Germany

HDAC11 PROMOTES CARDIOMETABOLIC DISEASE THROUGH TRANSCRIPTIONAL AND NON-GENOMIC MECHANISMS
McKinsey TA
School of Medicine, Division of Cardiology, University of Colorado Anschutz Medical Campus, Aurora, USA

TRANSCRIPTIONAL CONTROL OF CARDIAC FIBROSIS
Czubryt M
Institute of Cardiovascular Sciences, St. Boniface Hospital Albrechtsen Research Centre, University of Manitoba, Winnipeg, Canada
SYMPOSIUM 2: ADVANCES IN ARRHYTHMIA RESEARCH
(Room F3)

9.00-10.30

Chairs: Dobrev D (Essen, Germany), Jespersen T (Copenhagen, Denmark)

COMPARISON OF THE ANTIARRHYTHMIC AND ELECTROPHYSIOLOGICAL EFFECTS OF DESETHYLAMIODARONE AND ITS PARENT COMPOUND AMIODARONE
Virag L¹, Hornyik T¹, Kohajda Zs², Szlovak J¹, Gazdag P¹, Koncz I¹, Nagy N¹,², Juhssz V¹, Varga R¹, Sztokov A³, Jost N¹,², Baczko I¹, Varro A¹,²
¹Department of Pharmacology and Pharmacotherapy, Faculty of Medicine, University of Szeged, Hungary
²MTA-SZTE Research Group of Cardiovascular Pharmacology, Hungarian Academy of Sciences, Hungary
³Department of Pharmaceutical Technology, Faculty of Pharmacy, University of Szeged, Szeged, Hungary

ANTI-AF EFFECTS OF SK CHANNEL INHIBITION - FROM RAT TO HUMAN TO HORSE
Jespersen T
Department of Biomedical Sciences, University of Copenhagen, Copenhagen, Denmark

ROLE OF INFLAMMATORY SIGNALING IN ATRIAL FIBRILLATION
Dobrev D
Institute of Pharmacology, Faculty of Medicine, University Duisburg-Essen, Essen, Germany

WITHDRAWAL OF SIMULATED OBSTRUCTIVE SLEEP APNEA PARTIALLY REVERSES ATRIAL ARRHYTHMOMGENIC SUBSTRATE IN RATS
Linz B¹,², Hohl M², Nickel A³, Lang L², Boor P⁴, Wong D⁴, Sanders P⁵, Bohm M², Jespersen T¹, Linz D⁵
¹Faculty of Health and Medical Sciences, Department of Biomedical Sciences, University of Copenhagen, Copenhagen, Denmark
²Klinik für Innere Medizin III, Kardiologie und Angiologie, Universitätsklinikum des Saarlandes, Homburg/Saar
³Universitätsklinikum Würzburg, Deutsches Zentrum für Herzinsuffizienz, Würzburg
⁴Institut für Pathologie & Medizinische Klinik II, Universitätsklinikum Aachen, Aachen, Germany
⁵University of Adelaide, SAHMRI, Adelaide, Australia

10.30-10.45 Coffee Break
SYMPOSIUM 3: TRANSLATING BASIC DISCOVERIES INTO CLINICAL APPLICATIONS  
(Room F2)

10.45-12.30

Chairs: Kukreja R (Richmond, USA), Singla D (Orlando, USA)

IMPORTANCE OF COMPARTMENTED SIGNALING IN THE DEVELOPMENT OF NOVEL THERAPEUTICS: PHOSPHODIESTERASE 1C DIRECTS FROM THE FRONT
Maurice D
Department of Biomedical and Molecular Sciences, Queen’s University, Kingston, Canada

DETERMINANTS OF HEART DISEASE IN WOMEN: NEW TARGETS, NEW OPPORTUNITIES
Gros R¹, Chorazyczewski J¹, Pickering JG¹, Ding Q², Feldman RD¹,²
¹Departments of Medicine, Physiology and Pharmacology, Robarts Research Institute, London,
²Albrechtsen Research Centre, Winnipeg Regional Health Authority and the University of Manitoba, Winnipeg, Canada

CARDIAC SPECIFIC CRE INDUCES DILATED CARDIOMYOPATHY IN POSTNATAL MYOCARDIUM
Rehmani T, Tuana BS
Department of Cellular and Molecular Medicine, University of Ottawa, Ottawa, Canada

GENE X ENVIRONMENT INTERACTIONS IN CONTEXT OF PERSONALIZED MEDICINE
Hamet P, Tremblay J
Department of Medicine, CRCHUM, Université de Montréal and OPTITHERA Montreal, Montreal, Canada

DIETARY INTERVENTIONS AND FUNCTIONAL FOODS PREVENT CARDIOVASCULAR DISEASES THROUGH DIVERSE MECHANISMS
Buttar H
Department of Pathology and Laboratory Medicine, Faculty of Medicine, University of Ottawa, Ottawa, Canada
SYMPOSIUM 4: ADVANCES IN CARDIOVASCULAR PROTECTION AND THERAPY I
(Room F3)

10.45-12.30

Chairs: Djuric D (Belgrade, Serbia), Slezak J (Bratislava, Slovak Republic)

A NEW APPROACH FOR THE PREVENTION AND TREATMENT OF CARDIOVASCULAR DISORDERS. MOLECULAR HYDROGEN SIGNIFICANTLY REDUCES THE EFFECTS OF OXIDATIVE STRESS
Slezak J1, Buday J2, Surovy J2, Kura B1
1Institute for Heart Research, Centre of Experimental Medicine, Slovak Academy of Sciences, Bratislava, 2EVPU N. Dubnica, Slovak Republic

FOLIC ACID AND CARDIOVASCULAR HEALTH: NON-HOMOCYSTEINE DEPENDENT EFFECTS IN CARDIOMETABOLIC MODELS
Djuric DM1, Jakovljevic Uzelac J1, Mutavdzin S1, Kostic S1, Stojanovic M1, Gopcevic K2, Labudovic Borovic M3, Obrenovic R4, Stankovic S4, Jakovljevic V5,6
1Institute of Medical Physiology “Richard Burian”, Faculty of Medicine, University of Belgrade, 2Institute of Chemistry in Medicine ”Prof. Dr. Petar Matavulj”, Faculty of Medicine, University of Belgrade, 3Institute of Histology and Embryology “Aleksandar Dj. Kostic”, Faculty of Medicine, University of Belgrade, 4Centre of Medical Biochemistry, Clinical Centre of Serbia, Belgrade, 5Department of Physiology, Faculty of Medical Sciences, University of Kragujevac, Kragujevac, Serbia, 6Department of Human Pathology, 1st Moscow State Medical, University IM Sechenov, Moscow, Russian Federation

QUERCETIN AS POTENTIAL CARDIOPROTECTIVE AGENT IN I/R INJURY: ROLE OF SELECTED COMORBIDITIES AND COMEDICATIONS
Bartekova M1,2, Ferenczyova K1, Kalocayova B1, Kindernay L1, Tribulova N1, Okruhlicova L1, Dovinova I1, Ravingerova T1, Barancik M1
1Institute for Heart Research, Centre of Experimental Medicine, Slovak Academy of Sciences, 2Institute of Physiology, Faculty of Medicine, Comenius University, 3Institute of Normal and Pathological Physiology, Centre of Experimental Medicine, Slovak Academy of Sciences, Bratislava, Slovak Republic
POLYPHENOLS: FROM BASIC TO APPLIED INVESTIGATIONS
Jakovljevic V\textsuperscript{1,2}, Zivkovic V\textsuperscript{1}, Srejovic I, Jakovljevic B\textsuperscript{3}, Bolevich S\textsuperscript{4}, Jeremic N\textsuperscript{5}, Jeremic J\textsuperscript{5}, Milosavljevic I\textsuperscript{1}, Nikolic Turnic T\textsuperscript{2}, Cikiriz N\textsuperscript{6}, Mitrovic M\textsuperscript{7}, Bolevich S\textsuperscript{2}
\textsuperscript{1}Department of Physiology, Faculty of Medical Sciences, University of Kragujevac, Kragujevac, 
\textsuperscript{2}Department of Human Pathology, 1\textsuperscript{st} Moscow State Medical University IM Sechenov, Moscow, 
\textsuperscript{3}High Medical College of Professional Studies in Belgrade, Belgrade, 
\textsuperscript{4}Department of Human Pathophysiology, 1\textsuperscript{st} Moscow State Medical University IM Sechenov, Moscow, 
\textsuperscript{5}Department of Pharmacy, Faculty of Medical Sciences, University of Kragujevac, Kragujevac, 
\textsuperscript{6}Department of Exercise Physiology, Institute of Hygiene, Military Medical Academy, Belgrade, 
\textsuperscript{7}Pharmanova, Belgrade, Serbia

THE ROLE OF DIETARY POLYPHENOLS IN THE PREVENTION OF Atherosclerosis DEVELOPMENT-MECHANISMS OF ACTION
Krga I\textsuperscript{1,2}, Tamaian R\textsuperscript{3}, Morand C\textsuperscript{2}, Vidovic N\textsuperscript{1}, Glibetic M\textsuperscript{1}, Milenkovic D\textsuperscript{2}
\textsuperscript{1}Centre of Research Excellence in Nutrition and Metabolism, Institute for Medical Research, University of Belgrade, Belgrade, Serbia, 
\textsuperscript{2}University Clermont Auvergne, INRA, UNH, CRNH Auvergne, Clermont-Ferrand, France, 
\textsuperscript{3}National Institute for Research and Development for Cryogenic and Isotopic Technologies, Rm. Valcea, Romania

13.00-14.30 Pause/Lunch

SYMPOSIUM 5: STRUCTURE–FUNCTION CONSEQUENCES OF CARDIAC RYANODINE RECEPTORS MUTATIONS AND IMPLICATION TO ARRHYTHMOGENESIS
(Room F2)

14.30-16.00

Chairs: Czubryt M (Winnipeg, Canada), Morad M (Charleston, USA)

STRUCTURE AND FUNCTION OF RYANODINE RECEPTOR IN DISEASE OF HEART AND SKELETAL MUSCLE
Marks A
Department of Physiology and Cellular Biophysics, Columbia University College of Physicians & Surgeons, New York, USA
INTERACTION BETWEEN CALCIUM AND CAFFEINE BINDING SITES OF CARDIAC RYANODINE RECEPTOR: EVIDENCE FROM CRISPR/CAS9 RYR2 GENE-EDITED MUTATIONS  
Morad M, Zhang XH, Yamaguchi N  
Cardiac Signaling Center, School of Medicine University of South Carolina, Charleston, USA

ARE HIPSC-CM FROM RYR2-R420Q PATIENTS A GOOD MODEL FOR STUDYING CPVT1 MECHANISMS?  
Yin LH1, Joanne P1,2, Perrier R1, Gerbaud P1, Nicolas V3, Zorio E4, Benitah JP1, Gomez AM1  
1UMR-S 1180, INSERM, Universite Paris-Sud, Universite Paris-Saclay, Châtenay-Malabry,  
2Sorbonne Universite, UMR 8256, Paris, 3UMS IPSIT, Univ Paris-Sud, US 31 INSERM, UMS 3679 CNRS, Châtenay-Malabry, France, 4Hospital Universitario la Fe, Valencia, Spain

RYR2 MUTATIONS OUTSIDE THE CANONICAL CPVT DOMAINS: ARRHYTHMIAS INVOLVING A STRUCTURAL SUBSTRATE  
Alvarado FJ, Valdivia HH1,2  
1Department of Medicine, University of Wisconsin School of Medicine & Public Health,  
2Cardiovascular Research Center, University of Wisconsin, Madison, USA

SYMPOSIUM 6: ADVANCES IN CARDIOVASCULAR BIOLOGY, ATHEROSCLEROSIS AND HYPERTENSION I

14.30-16.00

Chairs: Muntean D (Timisoara, Romania), Papp Z (Debrecen, Hungary)

OXIDATIVE MODIFICATIONS OF CARDIOMYOCYTE PASSIVE STIFFNESS  
Bodi B1, Martha L1, Toth A1,2, Papp Z1,2  
1Division of Clinical Physiology, Faculty of Medicine, University of Debrecen, Debrecen, 2HAS-UD Vascular Biology and Myocardial Pathophysiology Research Group, Hungarian Academy of Sciences, Debrecen, Hungary
THE ROLE OF MONOAMINE OXIDASE IN CARDIOMETABOLIC DISEASES: A COMING-OF-AGE STORY
Muntean D
Department of Functional Sciences - Pathophysiology, Center for Translational Research and Systems Medicine, “Victor Babes” University of Medicine and Pharmacy, Timisoara, Romania

THE EFFECT OF THYMOSIN BETA-4 DOMAINS ON POST-HYPOXIC CARDIAC REGENERATION AND REPAIR
1Department of Biochemistry and Medical Chemistry, Szentagothai Research Centre, University of Pecs Medical School, Pecs, Hungary; 2Internal Medicine I, University Clinic Grosshadern, Munich, Germany; 3Protein Chemistry Technology Center, 4Molecular Biology and 5Cardiovascular and Thoracic Surgery, University of Texas Southwestern Medical Center, Dallas, USA

GENETIC BASIS OF ATHEROSCLEROSIS: FROM VASCULAR REMODELING TO CLINICAL ENDPOINTS
Djuric T
Institute of Nuclear Sciences "Vinca", Laboratory for Radiobiology and Molecular Genetics, University of Belgrade, Belgrade, Serbia

16.00-16.15 Coffee Break

SYMPOSIUM 7: CARDIOPROTECTIVE STRATEGIES IN DIABETES (Room F2)

16.15-17.45

Chairs: Tipparaju S (Tampa, USA), Tuana B (Ottawa, Canada)

CARDIOPROTECTIVE EFFECTS OF DIETARY SULPHUR-CONTAINING AMINO ACIDS IN DIABETES
Tappia PS
Asper Clinical Research Institute and St. Boniface Hospital Albrechtsen Research Centre, Winnipeg, Canada
PYRUVATE DEHYDROGENASE AS A THERAPEUTIC TARGET FOR IMPROVING DIASTOLIC FUNCTION IN CARDIOMYOPATHIES
Ussher JR
Faculty of Pharmacy and Pharmaceutical Sciences, University of Alberta, Edmonton, Canada

DYSBIOTIC 1-CARBON METABOLISM IN HYPERTENSIVE CARDIAC REMODELING
George AK, Singh M, Pushpakumar SB, Homme RP, Metreveli N, Tyagi SC
Department of Physiology, University of Louisville School of Medicine, Louisville, USA

POLYGENIC RISK SCORES FOR THE PREDICTION OF CARDIOVASCULAR OUTCOMES IN PATIENTS WITH DIABETES
Tremblay J1,2, Chalmers J3, Awadalla P4, Woodward M3, Hamet P1,2
1Department of Medicine, CRCHUM, University of Montreal, Montreal, 2OPTITHERA, Montreal, 3The George Institute for Global Health, University of New South Wales, Sydney, Australia, 4Ontario Institute for Cancer Research, University of Toronto, Toronto, Canada

SYMPOSIUM 8: HYPERBARIC OXYGENATION IN CARDIOMETABOLIC DISEASE

16.15-17.45

Chairs: Ivanov M (Belgrade, Serbia), Zivkovic V (Kragujevac, Serbia)

HYPERBARIC OXYGEN PRECONDITIONING DECREASES KIDNEY INJURY MOLECULE-1 EXPRESSION IN THE KIDNEY OF HYPERTENSION RATS SUBJECTED TO RENAL ISCHEMIA
Ivanov M1, Kovacevic S2, Miloradovic Z1, Brkic P3, Jovovic D1, Mihailovic Stanojevic N1, Vajic JU1, Karanovic D1, Jeremic R3, Zivkovic M4, Nesovic Ostojic J2
1University of Belgrade, Institute for Medical Research, National Institute of Republic of Serbia, Belgrade, 2University of Belgrade, Institute of Pathophysiology, Faculty of Medicine, Belgrade, 3University of Belgrade, Institute of Medical Physiology, Faculty of Medicine, Belgrade, 4University of Belgrade, Institute of Pathology, Faculty of Medicine, Belgrade, Serbia
HYPERBARIC OXYGEN AND CALCIUM CHANNEL MODULATORS AS PRECONDITIONING TOOLS IN RAT MODEL OF GLOBAL ISCHEMIA
Zivkovic V¹, Petkovic A², Bradic J³, Srejovic I¹, Jeremic J², Draginic N², Andjic M², Samanovic Milojevic A¹, Stanisic D³, Simonovic N⁴, Bolevich S⁵, Jakovljevic V¹,⁵
¹Department of Physiology, Faculty of Medical Sciences, University of Kragujevac, Kragujevac, ²Department of Pharmacy, Faculty of Medical Sciences, University of Kragujevac, Kragujevac, ³Department of Dentistry, Faculty of Medical Sciences, University of Kragujevac, Kragujevac, ⁴Health Center “Vozdovac”, Belgrade, Serbia, ⁵Department of Human Pathology, 1st Moscow State Medical University IM Sechenov, Moscow, Russian Federation

THE EFFECTS OF HYPERBARIC OXYGEN THERAPY ON REDOX BALANCE IN PATIENTS WITH DIABETES TYPE 2
Srejovic I¹, Tepic S², Petkovic A³, Jeremic N³, Zivkovic V¹, Bolevich S⁴, Bradic J³, Milosavljevic I³, Bolevich S⁵, Jakovljevic V¹,⁵
¹Department of Physiology, Faculty of Medical Sciences, University of Kragujevac, Kragujevac, ²Department of Urgent Medicine, Clinical Center “Zvezdara”, Belgrade, ³Department of Pharmacy, Faculty of Medical Sciences, University of Kragujevac, Kragujevac, Serbia, ⁴Department of Human Pathophysiology, 1st Moscow State Medical University IM Sechenov, ⁵Department of Human Pathology, 1st Moscow State Medical University IM Sechenov, Moscow, Russian Federation

SYNERGISTIC NADPH BLOCKADE AND AT2 RECEPTOR STIMULATION ENHANCE POSTISCHEMIC KIDNEY RECOVERY IN HYPERTENSIVE RATS
Miloradovic Z¹, Ivanov M¹, Jovovic D¹, Mihailovic Stanojevic N¹, Vajic JU¹, Karanovic D¹, Markovic Lipkovski J²
¹University of Belgrade Institute for Medical Research, Belgrade, ²Faculty of Medicine University of Belgrade, Belgrade, Serbia

18.00-19.30 POSTER SESSION I
19.30 DINNER
SYMPOSIUM 9: MITOCHONDRIAL DYSFUNCTION IN HEART DISEASE (Room F2)

9.00-10.30

Chairs: Mehta J (Little Rock, USA), Tyagi S (Louisville, USA)

THERAPEUTIC POTENTIAL OF OMEGA-3 EPOXYEICOSANOIDS IN CARDIOVASCULAR AND INFLAMMATORY DISEASES
Schunck WH
Max Delbruck Center for Molecular Medicine, Berlin, Germany

DOES TARGETING SOLUBLE EPOXIDE HYDROLASE PRESERVE CARDIAC AND MITOCHONDRIAL FUNCTION IN AGED FEMALES?
Jamieson KL¹, Keshavarz-Bahaghight H¹, Shah S², Sosnowski D¹, Darwesh A¹, Wang W², Zhabiyeve P², Edin M⁵, Zeldin D⁵, Kassiri Z², Oudit G², Seubert JM¹,³,⁴
¹Faculty of Pharmacy and Pharmaceutical Sciences, ²Department of Physiology, ³Department of Pharmacology, ⁴Mazankowski Alberta Heart Institute, Faculty of Medicine and Dentistry, University of Alberta, Edmonton, Canada, ⁵National Institute of Environmental Health Sciences, NIH, Research Triangle Park, Durham, USA

FUNCTIONAL ROLE AND MECHANISMS OF CYSTIC FIBROSIS TRANSMEMBRANE-CONDUC TANCE REGULATOR (CFTR) IN MYOCARDIAL INJURY AND REPAIR
Duan DD¹, Ye LL²
¹Department of Pharmacology, University of Nevada Reno School of Medicine, Reno, USA, ²Center for Phenomics of Traditional Chinese Medicine and the Affiliated Traditional Chinese Medicine Hospital, Southwest Medical University, Luzhou, China

THE INTERPLAY BETWEEN METABOLISM AND TRANSCRIPTION IN THE HEART
Abdellatif M
Department of Cell Biology and Molecular Medicine, Rutgers University, Newark, USA
SYMPOSIUM 10: ADVANCES IN CARDIOVASCULAR TOXICITY (Room F3)

9.00-10.45

Chairs: Baczko I (Szeged, Hungary), Ferdinandy P (Szeged, Hungary)

AGE AND SEX DEPENDENT CARDIAC TOLERANCE TO ISCHEMIA/REPERFUSION INJURY; THE ROLE OF MITOCHONDRIA
Ostadal B
Institute of Physiology of the Czech Academy of Sciences, Prague, Czech Republic

HIDDEN CARDIOTOXICITY - PARADIGM CHANGE IN CARDIAC SAFETY TESTING IN ISCHEMIC AND COMORBID CONDITIONS: AN EXAMPLE OF ROFECOXIB
Ferdinandy P
Department of Pharmacology and Pharmacotherapy, Semmelweis University, Budapest, and Pharmahungary Group, Szeged, Hungary

DOXORUBICIN-INDUCED CARDIOMYOPATHY: IS THERE MORE THAN ONE PHENOTYPE?
Pajovic V¹, Matic M¹, Vasic M¹, Sarenac O¹, Bajic D², Japundzic Zigon N¹
¹Institute of Pharmacology, Clinical Pharmacology and Toxicology Faculty of Medicine University of Belgrade, Belgrade, ²Faculty of Technical Sciences, University of Novi Sad, Novi Sad, Serbia

THE SIGNIFICANCE OF TRANSGENIC LQT RABBIT MODELS FOR PREDICTION OF DRUG-INDUCED VENTRICULAR ARRHYTHMIAS
Baczko I¹, Hornyik T¹,², Castiglione A², Franke G², Major P³, Hiripi L³, Bosze Z³, Varro A¹, Odening K²
¹Department of Pharmacology and Pharmacotherapy, Faculty of Medicine, University of Szeged, Szeged, ²Institute of Experimental Cardiovascular Medicine, Heart Center University of Freiburg, Medical Faculty, Freiburg, Germany, ³NARIC Agricultural Biotechnology Institute, Godollo, Hungary

EVALUATION OF METHYLXANTHINE INDUCED CARDIOTOXICITY: A TRANSLATIONAL APPROACH
Gulati K, Ray A
Department of Pharmacology, Vallabhbhai Patel Chest Institute, University of Delhi, Delhi, India

10.45-11.00 Coffee Break
SYMPOSIUM 11:  EXOSOMES AND STEM CELLS IN CARDIOVASCULAR THERAPY
(Room F2)

11.00-12.30

Chairs: Bkaily G (Sherbrooke, Canada), Wilson D (Pomona, USA)

MATRIX REGENERATION PROTEINS IN THE EXOSOMES OF SHOULDER TENOCYTES AND MESENCHYMAL STEM CELLS
Agrawal D, Thankam FG
Department of Translational Research, Western University of Health Sciences, Pomona, USA

ON EARLY MOLECULAR EVENTS IN MSC EXOSOME MEDIATED CYTOPROTECTION IN CARDIOMYOCYTES
Mehta JL, Kore RA
University of Arkansas for Medical Sciences, Little Rock, USA

EXOSOMES CONTAINING COCK-TAIL OF ANTI-INFLAMMATORY CYTOKINES INHIBIT INFLAMMATORY CELL DEATH IN CHEMOTHERAPEUTIC DRUG INDUCED TOXICITY
Singla DK
Burnett School of Biomedical Sciences, University of Central Florida College of Medicine, Orlando, USA

IMMUNOLOGICAL FENCES TO ALLOGENEIC STEM CELL THERAPY FOR CARDIAC REGENERATION
Abu-El-Rub E, Sequiera GL, Sareen N, Yan W, Moudgil M, Dhingra S
Institute of Cardiovascular Sciences, St. Boniface Hospital Research Centre, Regenerative Medicine Program, Department of Physiology and Pathophysiology, Faculty of Health Sciences, University of Manitoba, Winnipeg, Canada
SYMPOSIUM 12: BRAIN-HEART AXIS AND ADVANCES IN ADIPOBIOLOGY (Room F3)

11.00-13.00

Chairs: Beltowski J (Lublin, Poland), Lionetti V (Pisa, Italy)

PSYCHOSOCIAL STRESS INDUCES CARDIAC AND HIPPOCAMPAL DYSFUNCTION ASSOCIATED TO LOCAL BRAIN-DERIVED NEUROTROPHIC FACTOR DEPLETION IN OBESE MICE
Agrimi J\textsuperscript{1,2}, Spalletti C\textsuperscript{3}, Baroni C\textsuperscript{1}, Keceli G\textsuperscript{2}, Caragnano A\textsuperscript{4}, Bedja D\textsuperscript{2}, Matteucci M\textsuperscript{1}, Beltrami AP\textsuperscript{4}, Paolocci N\textsuperscript{2}, Caleo M\textsuperscript{3}, Lionetti V\textsuperscript{1,5}
\textsuperscript{1}Unit of Translational Critical Care Medicine, Institute of Life Sciences, Scuola Superiore Sant'Anna, Pisa, \textsuperscript{2}Division of Cardiology, Johns Hopkins School of Medicine, Baltimore, USA, \textsuperscript{3}Neuroscience Institute, CNR, Pisa, \textsuperscript{4}Department of Medicine (DAME), University of Udine, Udine, \textsuperscript{5}UOS Anesthesiology and Intensive Care Medicine, Fondazione Toscana G, Monasterio, Pisa, Italy

THE PHARMACOLOGY OF THE BRAIN-HEART AXIS: POSSIBLE REGULATION BY NITRIC OXIDE (NO)
Ray A
Department of Pharmacology, Hamdard Institute of Medical Sciences and Research (HIMSR), Jamia Hamdard, New Delhi, India

Lopatina E\textsuperscript{1,2}, Kipenko A\textsuperscript{1}, Pasatetekaia N\textsuperscript{2,3}, Lopatin A\textsuperscript{1}
\textsuperscript{1}Pavlov First St. Petersburg State Medical University, St. Petersburg, \textsuperscript{2}Pavlov Institute of Physiology, Russian Academy of Sciences, St. Petersburg, \textsuperscript{3}Almazov National Medical Research Centre, St. Petersburg, Russian Federation

PERINEURAL MIGRATION OF STEM CELLS IN THE MODEL OF DAMAGED HEART NODES
Kulchitsky VA
Brain Center, Laboratory of Neurophysiology, Institute of Physiology, National Academy of Sciences, Minsk, Belarus
HYDROGEN SULFIDE AND POLYSULFIDE SIGNALING IN THE ADIPOSE TISSUE: IMPLICATIONS FOR CARDIOVASCULAR DISEASES
Beltowski J¹, Rusek M¹, Wojtak A²
¹Department of Pathophysiology, Medical University, Lublin, ²Department of Vascular Surgery, Medical University, Lublin, Poland

CARDIOMETABOLIC ADIPOBIOLOGY: A TRANSLATIONAL PERSPECTIVE
Chaldakov G¹, Aloe L², Rancic G³, Tonchev A¹, Fiore M⁴, Hristova M⁵, Nikolova V⁶
¹Department of Anatomy and Cell Biology, Medical University, Varna, ²Fondazione Iret Tecnopolo R. Levi-Montalcini, Rome, ³Department of Histology and Embryology, Medical Faculty, Nis, Serbia, ⁴Institute of Cell Biology and Neurobiology, CNR, Rome, Italy, ⁵Endocrinology Unit, Asparuhovo Polyclinic, ⁶Cardiology Unit, University St Marina Hospital, Varna, Bulgaria

13.00-14.30  Pause/Lunch

SYMPOSIUM 13: MECHANISMS CONTRIBUTING TO HEART FAILURE AND ISCHEMIC HEART DISEASE
(Room F2)

14.30-16.15

Chairs: Seubert J (Edmonton, Canada), Tappia P (Winnipeg, Canada)

ROLE OF LYSOPHOSPHATIDIC ACID IN THE DEVELOPMENT OF HYPERTENSION
Dhalla NS
Institute of Cardiovascular Sciences, University of Manitoba and St. Boniface Hospital Albrechtsen Research Centre, Winnipeg, Canada

TOLL-LIKE RECEPTORS AND CYTOKINES IN HEART FAILURE
Singal P
Institute of Cardiovascular Sciences, St. Boniface Hospital Albrechtsen Research Centre, Department of Physiology and Pathophysiology, Max Rady College of Medicine, Rady Faculty of Health Sciences, University of Manitoba, Winnipeg, Canada
DEPRESSION, BIOLOGICAL RHYTHM AND CHRONIC CARDIOVASCULAR DISEASES
Wilson D¹, Wilson V²
¹Western University of Health Sciences, Pomona, USA, ²Queen’s University Belfast School of Medicine, Belfast, United Kingdom

THE RECEPTOR FOR ADVANCED GLYCATION END PRODUCTS (RAGE) AND DIAPH1: UNIQUE MECHANISMS AND HEALING THE ISCHEMIC HEART
Ramasamy R
Department of Medicine, New York University Langone Medical Center, New York, USA

SIRNA-MEDIATED REDUCTION OF GRK2 EXPRESSION IS ASSOCIATED WITH ALTERED VASCULAR ACTIVITY AND KIDNEY FUNCTION RESULTING IN HYPERTENSION IN TRANSGENIC MICE
Ferguson S¹,²
¹Brain and Mind Research Institute, University of Ottawa, Ottawa, ²Department of Cellular and Molecular Medicine, University of Ottawa, Ottawa, Canada

SYMPOSIUM 14: ADVANCES IN CARDIOVASCULAR DIAGNOSTICS AND TREATMENT (Room F3)
14.30-16.30

Chairs: Blackman A (Belo Horizonte, Brazil), Makino N (Beppu, Japan)

TELOMERE SHORTENING IN CARDIOVASCULAR DISEASE – ROLE OF CALORIE RESTRICTION
Makino N¹, Maeda T²
¹Division of Molecular and Clinical Gerontology, Medical Institute of Bioregulation, Kyushu University, ²Department of Internal Medicine, Kyushu University Beppu Hospital, Beppu, Japan

QT INTERVAL, QT DISPERSION AND HEART RATE VARIABILITY IN PATIENTS WITH GRADE I DIASTOLIC DYSFUNCTION
Blackman A¹,²,³, Neto JS², Lima ML¹, Andrade Rodrigues TM⁴, Gomes OM¹
¹Instituto Cardiovascular São Francisco de Assis, Belo Horizonte, ²Centrocard, Brasiila, ³Faculdade de Medicina-Uniceub, Brasilia, ⁴Universidade Federal de Sergipe, Sergipe, Brazil
AUTONOMIC DYSREGULATION IN HEART FAILURE PATIENTS
Barta J1, Urbancsek R1, Forgacs I1, Boczan J2, Edes I1, Csanadi Z1, Rudas L3
1Institute of Cardiology, Faculty of Medicine, University of Debrecen, 2Department of Neurology, University of Debrecen, Debrecen, 3Department of Anesthesiology and Intensive Therapy, University of Szeged, Szeged, Hungary

BIOMARKERS IN CARDIOVASCULAR MEDICINE: MATRIX METALLOPROTEINASE POTENTIAL
Gopcevic K
Institute of Chemistry in Medicine ”Prof. Dr. Petar Matavulj”, Faculty of Medicine, University of Belgrade, Belgrade, Serbia

VALVULAR HEART DISEASE - SURGICAL TREATMENT UPDATE
Furtado HB1,2
1Tocantins Federal University, Faculty of Medicine, Palmas, 2Heart Surgery Institute, Palmas, Brazil

EXTRACORPOREAL MEMBRANE OXYGENATION (ECMO) IN CARDIAC ARREST AND CARDIOGENIC SHOCK
Ostadal P
Cardiovascular Center, Na Homolce Hospital, Prague, Czech Republic
16.30-16.45 Coffee Break

SYMPOSIUM 15: PATHOLOGY OF HEART FAILURE
(Room F2)
16.45-18.30
Chairs: Kirchenbaum L (Winnipeg, Canada), Ussher J (Edmonton, Canada)

HEART FAILURE IN DUCHENNE AND BECKER MUSCULAR DYSTROPHIES: WHERE WE ARE AND WHERE WE ARE GOING
Bkaily G
Department of Anatomy and Cell Biology, Faculty of Medicine and Health Sciences, University of Sherbrooke, Sherbrooke, Canada
SIRTUIN-1 AND REGULATION OF ANGIOTENSIN II-INDUCED EXPRESSION OF G-PROTEINS AND VASCULAR REMODELING
Anand-Srivastava M
Department of Pharmacology and Physiology, University of Montreal, Montreal, Canada

ANGIOTENSIN-II-INDUCED PHOSPHORYLATION AND NUCLEAR EXPORT OF HISTONE DEACETYLASE 5 IS MEDIATED BY AKT-DEPENDENT PATHWAY IN VASCULAR SMOOTH MUSCLE CELLS
Srivastava AK
Laboratory of Cell Signaling, Research Center, Centre Hospitalier de l’Université de Montreal (CRCHUM), Department of Medicine, Université de Montreal, Montreal, Canada

RESOLVING AND NON-RESOLVING INFLAMMATION IN HEART FAILURE
Halade GV
Division of Cardiovascular Disease, Comprehensive Cardiovascular Center, Department of Medicine, The University of Alabama at Birmingham, Birmingham, USA

PDE5 INHIBITION AND CARDIOPROTECTION: FROM BENCH TO CLINICAL TRIALS
Kukreja RC
Pauley Heart Center, Division of Cardiology, Department of Internal Medicine, Virginia Commonwealth University School of Medicine, Richmond, USA

SYMPOSIUM 16: ADVANCES IN CARDIOVASCULAR BIOLOGY, ATHEROSCLEROSIS AND HYPERTENSION II

16.45-18.30

Chairs: Agrawal D (Pomona, USA), Gallyas F (Pecs, Hungary)

AKT-MEDIATED CYTOPROTECTION VIA PATM-NEMO-AKT-MTOR SIGNALOSOME
Department of Biochemistry and Medical Chemistry, University of Pecs, Medical School, Pecs, Hungary
RAMIPRIL IMPROVES RABBIT HEART MITOCHONDRIAL BIOENERGETICS FUNCTION DURING THE COURSE OF EXPERIMENTAL HYPERCHOLESTEROLEMIA
Kojic Z
Institute of Medical Physiology, Faculty of Medicine, University of Belgrade, Belgrade, Serbia

MECHANISMS OF IMPAIRED VASCULAR REDOX HOMEOSTASIS IN UREMIA
Simic T
Institute of Medical and Clinical Biochemistry, Faculty of Medicine, University of Belgrade, Serbian Academy of Sciences and Arts, Belgrade, Serbia

REDOX-DEPENDENT MOLECULAR BASIS OF HUMAN HEART PRECONDITIONING
Jankovic A¹, Korac A², Jovic M³, Korac B¹²
¹University of Belgrade, Institute for Biological Research “Sinisa Stankovic”, Belgrade, ²Faculty of Biology, University of Belgrade, Belgrade, ³Clinical Department of Anesthesia and Intensive Care, University of Belgrade, Dedinje Cardiovascular Institute, Faculty of Medicine, Belgrade, Serbia

THE EFFECTS OF NATURAL AND SYNTHETIC ANTIOXIDANTS ON THE PROGRESSION OF FOCAL-SEGMENTAL GLOMERULOSCLEROSIS IN HYPERTENSIVE RATS
Mihailovic Stanojevic N¹, Karanovic D¹, Markovic Lipkovski J², Grujic Milanovic J¹, Miloradovic Z¹, Ivanov M¹, Vajic UJ¹, Dekanski D³, Jovovic Dj¹
¹Institute for Medical Research, University of Belgrade, ²Institute of Pathology Faculty of Medicine, University of Belgrade, ³R & D Institute, Galenika a.d., Belgrade, Serbia

18.30-20.00 POSTER SESSION II

20.00 FREE EVENING/IACS NORTH AMERICAN AND EUROPEAN BOARDS MEETINGS
SYMPOSIUM 17: MOLECULAR MECHANISMS INVOLVED IN STRESS (Room F2)

9.00-11.00

Chairs: Anand-Srivastava M (Montreal, Canada), Singal P (Winnipeg, Canada)

LUMINAL CALCIUM ION REGULATION OF SARCOPLASMIC RETICULUM MEMBRANE CALCIUM RELEASE
Gilchrist J
Department of Oral Biology, Dr. Gerald Niznick College of Dentistry, Rady Faculty of Health Sciences, University of Manitoba, Winnipeg, Canada

THE SLMAP/STRN COMPLEX IS DOWNREGULATED IN HUMAN FAILING HEARTS AND IT REGULATES THE ADRENERGIC-INDUCED CARDIOMYOCYTE CONTRACTION
Nader M1,2, Kattuah W1, Alotaibi S1,2, Alsolme E1,2, Bakheet D2
1Department of Physiological Sciences, Alfaisal University, 2Department of Genetics, King Faisal Specialist Hospital and Research Center, Riyadh, Kingdom of Saudi Arabia

MOLECULAR REGULATION OF CARDIAC CELL DEATH BY MODULATION OF CYCLOPHILIN D IN DOXORUBICIN CARDIOMOPATHY
Dhingra R1,2, Guberman M1,2, Margulets V1,2, Aguilar F1,2, Kirshenbaum L1,2
1Department of Physiology and Pathophysiology, The Institute of Cardiovascular Sciences, St. Boniface Hospital Albrechtsen Research Centre, 2Rady College of Medicine, Max Rady Faculty of Health Sciences, University of Manitoba, Manitoba, Canada

IMPLICATIONS OF THE NA+/H+ EXCHANGER ISOFORM 1 IN CARDIAC REMODELING: MECHANISMS AND THERAPEUTIC STRATEGIES
Abdulrahman N1, Mohamed I1, Riaz S1, Jaballah M1, Fliegel L2, Gadeau AP3, Mraiche F1
1College of Pharmacy, Qatar University, Doha, Qatar, 2Department of Biochemistry, Faculty of Medicine and Dentistry, University of Alberta, Edmonton, Canada, 3Univ. Bordeaux, INSERM, Biology of Cardiovascular Disease, Pessac, France, 3Department of Biochemistry, Faculty of Medicine and Dentistry, University of Alberta, Edmonton, Canada
CARDMIOMETABOLIC AND SENSORY ROLES FOR AKR6 SUBUNIT IN THE HEART
Tipparaju S, Tur J, Badole S, Chapalamadagu K
Department of Pharmaceutical Sciences, College of Pharmacy, University of South Florida, Tampa, USA

ER STRESS COPING STRATEGIES IN THE HEART
Michalak M
Departments of Biochemistry, University of Alberta, Edmonton, Canada

SYMPOSIUM 18: ADVANCES IN CARDIOVASCULAR PROTECTION AND THERAPY II
(Room F3)

9.00-10.40

Chairs: Kundu S (New Delhi, India), Ravingerova T (Bratislava, Slovak Republic)

NOVEL INHIBITORS OF DOPAMINE-BETA-HYDROXYLASE AS POTENTIAL ANTI-HYPERTENSIVES: DRUG DISCOVERY AND VALIDATION
Kundu S
Department of Biochemistry, University of Delhi South Campus, New Delhi, India

ENDOTHELIAL DYSFUNCTION MODULATION BY CALCIUM CHANNEL BLOCKERS
Radenkovic M, Stojanovic M, Prostran M
Department of Pharmacology, Clinical Pharmacology and Toxicology, Faculty of Medicine University of Belgrade, Belgrade, Serbia

MECHANISMS INVOLVED IN REMOTE ISCHEMIC PRECONDITIONING
Gelpi RJ
Department of Pathology, Cardiovascular Physiopathology Institute, University of Buenos Aires School of Medicine, Buenos Aires, Argentina

EXERCISE AS A FORM OF REMOTE PRECONDITIONING OF THE HEART. PREVENTIVE EFFICIENCY AND CLINICAL APPLICABILITY
Ravingerova T, Lonek L, Kindernay L, Zohdi V, Duris Adameova A

1Centre of Experimental Medicine, Institute for Heart Research, Slovak Academy of Sciences; 2Institute of Anatomy, Faculty of Medicine; 3Department of Pharmacology and Toxicology, Faculty of Pharmacy, Comenius University, Bratislava, Slovak Republic
CARDIOPROTECTIVE EFFECTS OF HYDROGEN SULFIDE DONOR IN RATS WITH DIABETES MELLITUS
Jeremic N¹, Jeremic J¹, Zivkovic V², Srejovic I², Suresh T³, Jakovljevic V²,4
¹Department of Pharmacy, Faculty of Medical Sciences, University of Kragujevac, Kragujevac,
²Department of Physiology, Faculty of Medical Sciences, University of Kragujevac, Kragujevac, Serbia,
³Department of Physiology, School of Medicine, University of Louisville, Louisville, USA,
⁴Department of Human Pathology, 1st Moscow State Medical, University IM Sechenov, Moscow, Russian Federation

SYMPOSIUM 19: MISCELLANEOUS
(Room F1)
9.00-10.30
Chairs: Hamet P (Montreal, Canada), Jakovljevic V (Kragujevac, Serbia)

PATHOGENIC ROLE OF AUTOANTIBODIES (AAB) AGAINST THE B1-ADRENOCEPTOR IN IDIOPATHIC DILATED CARDIOMYOPATHY (DCM): THE USE OF APTAMERS AS A NEW THERAPEUTIC OPTION
Wallukat G, Wenzel K, Haberland A, Schimke I, Muller J
Berlin Cures GmbH, Berlin, Germany

HYDROXYMETHYLGLUTARYL COENZYMES A REDUCTASE INHIBITORS DIFFERENTIALLY MODULATE PLASMA FATTY ACIDS IN RATS WITH DIET-INDUCED-HYPERHOMOCYSTEINEMIA: IS ω-3 FATTY ACIDS SUPPLEMENTATION NECESSARY?
Nikolic Turnic T¹, Arsic A², Vucic V², Petrovic S², Ristic Medic D², Zivkovic V³, Srejovic I¹, Jeremic J¹, Radonjic T⁴, Milosavljevic I¹, Bolevich S⁵, Bolevich S⁶, Djuric D⁷, Jakovljevic V³,⁵
¹Department of Pharmacy, Faculty of Medical Sciences, University of Kragujevac, Kragujevac,
²Centre of Research Excellence in Nutrition and Metabolism, Institute for Medical Research, University of Belgrade, Belgrade,
³Department of Physiology, Faculty of Medical Sciences, University of Kragujevac, Kragujevac,
⁴Health Center “Dr Milutin Ivkovic”, Belgrade,
⁵Department of Human Pathology, 1st Moscow State Medical University IM Sechenov,
⁶Department of Pathophysiology, 1st Moscow State Medical University IM Sechenov, Moscow, Russian Federation,
⁷Institute of Medical Physiology “Richard Burian”, Faculty of Medicine, University of Belgrade, Belgrade, Serbia
BENEFICIAL EFFECTS OF ANTIOXIDANT SUPPLEMENTATION WITH SULFUR-CONTAINING AMINO ACIDS IN CARDIOVASCULAR AND NEURAL PROTECTION AGAINST CISPLATIN-INDUCED TOXICITIES
Rosic G\textsuperscript{1}, Joksimovic J\textsuperscript{1}, Jovicic N\textsuperscript{2}, Katanic Stankovic J\textsuperscript{3}, Juric T\textsuperscript{4}, Mihailovic V\textsuperscript{3}, Kumburovic I\textsuperscript{1}, Kumburovic D\textsuperscript{1}, Selakovic D\textsuperscript{1}
\textsuperscript{1}Department of Physiology, Faculty of Medical Sciences, University of Kragujevac, \textsuperscript{2}Department of Histology and Embryology, Faculty of Medical Sciences, University of Kragujevac, \textsuperscript{3}Department of Chemistry, Faculty of Science, University of Kragujevac, Kragujevac, \textsuperscript{4}Faculty of Agriculture, University of Novi Sad, Novi Sad, Serbia

DIFFERENT ALTERATIONS IN PLASMA LIPID FATTY ACID PROFILES IN PATIENTS WITH DIABETES MELLITUS TYPE 1 VS TYPE 2
Vucic V\textsuperscript{1}, Paunovic M\textsuperscript{1}, Arsic A\textsuperscript{1}, Gluvic Z\textsuperscript{2}, Petrovic S\textsuperscript{1}, Ristic Medic D\textsuperscript{1}, Resanovic I\textsuperscript{1}, Zaric B\textsuperscript{3}, Isenovic ER\textsuperscript{3}
\textsuperscript{1}Centre of Research Excellence in Nutrition and Metabolism, Institute for Medical Research, University of Belgrade, Belgrade, \textsuperscript{2}Clinic for Internal Medicine, Zemun Clinical Hospital, Faculty of Medicine, University of Belgrade, Zemun, \textsuperscript{3}Institute of Nuclear Sciences “Vinca”, University of Belgrade, Laboratory of Radiobiology and Molecular Genetics, Belgrade, Serbia

11.00-11.15 Coffee Break

COMPETITION 1: CANADIAN JOURNAL OF PHYSIOLOGY AND PHARMACOLOGY YOUNG INVESTIGATOR AWARD (Room F1)

11.15-12.45

Chairs: Gelpi R (Buenos Aires, Argentina), McKinsey T (Denver, USA), Ray A (New Delhi, India)

KETONES CAN BECOME THE MAJOR FUEL FOR THE HEART
Ho K\textsuperscript{1}, Wagg C\textsuperscript{1}, Zhang L\textsuperscript{1}, Altamimi T\textsuperscript{2}, Vo K\textsuperscript{1}, Leone T\textsuperscript{3}, Muoio D\textsuperscript{4}, Kelly D\textsuperscript{3}, Ussher J\textsuperscript{5}, Lopaschuk G\textsuperscript{1}
\textsuperscript{1}Faculty of Medicine and Dentistry, University of Alberta, Edmonton, \textsuperscript{2}Diabetes and Obesity Center, University of Louisville, Louisville, \textsuperscript{3}Penn Cardiovascular Institute, Perelman School of Medicine, University of Pennsylvania, Philadelphia, \textsuperscript{4}Duke Molecular Physiology Institute and Sarah W. Stedman Nutrition and Metabolism Center, Durham, USA, \textsuperscript{5}Faculty of Pharmacy and Pharmaceutical Sciences, University of Alberta, Edmonton, Canada
CARDIOMYOCYTE CELL DEATH DURING ISCHEMIA/REPERFUSION (I/R) INJURY IS MEDIATED BY OXIDIZED PHOSPHATIDYLCHOLINE

1Institute of Cardiovascular Sciences, St. Boniface Hospital, and the Departments of Physiology and Pathophysiology, 2Pharmacology and Experimental Therapeutics, and 3Internal Medicine, Rady Faculty of Health Sciences, University of Manitoba, Internal Medicine, 4Department of Food and Human Nutritional Sciences, University of Manitoba, 5The Canadian Centre for Agri-Food Research in Health and Medicine (CCARM), St. Boniface Hospital Albrechtsen Research Centre, Winnipeg, Canada

CHRONIC STIMULATION OF THE NO/SGC/CGMP/PKG SIGNALLING PATHWAY IMPROVES DIASTOLIC FUNCTION IN HEART FAILURE WITH PRESERVED EJECTION FRACTION

1Department of Cardiovascular Physiology, Ruhr University Bochum, Bochum, 2Department of Pharmaceutical Sciences, Laboratory of Physiopharmacology, University of Antwerp, Antwerp, Belgium, 3Division of Clinical Physiology, Department of Cardiology, Faculty of Medicine, University of Debrecen, 4Laboratory for Cortical Systems Neuroscience, Department of Anatomy, Histology and Embryology, University of Debrecen, Debrecen, Hungary, 5Bayer AG, Drug Discovery Cardiology, Wuppertal, 6Department of Internal Medicine and Cardiology, Charite-Universitätsmedizin Berlin, Centre for Regenerative Therapies and DZHK, partner site Berlin, 7Institute of Physiology II, University Hospital Munster, University of Munster, Munster, Germany

COMPARATIVE EFFECTS OF RU(II) COMPLEX AND CISPLATIN ON CARDIAC FUNCTION AND PRO-OXIDATIVE BIOMARKERS IN ISOLATED RAT HEART

1Department of Pharmacy, Faculty of Medical Sciences, University of Kragujevac, 2Department of Physiology, Faculty of Medical Sciences, University of Kragujevac, Kragujevac, Serbia, 3Department of Human Pathology, 1st Moscow State Medical, University IM Sechenov, Moscow, Russian Federation
COMPETITION 2: ROBERTO BOLLI YOUNG INVESTIGATOR AWARD
(Room F2)

11.15-12.45

Chairs: Gulati K (Delhi, India), Halade G (Birmingham, USA),
Marks A (New York, USA)

BRADYCARDIC AND NEGATIVE INOTROPIC EFFECTS OF CISPATIN ON ISOLATED RAT ATRIA
Stojanovic N¹, Stojiljkovic N², Ilic S², Randjelovic P², Radulovic N³
¹Faculty of Medicine, University of Nis, ²Department of Physiology, Faculty of Medicine, University of Nis, ³Department of Chemistry, Faculty of Science and Mathematics, University of Nis, Nis, Serbia

INSULIN DIRECTLY STIMULATES CARDIAC GLUCOSE OXIDATION VIA AKT TRANSLOCATION TO THE MITOCHONDRIA
Karwi Q, Wagg C, Altamimi T, Uddin G, Lopaschuk G
Faculty of Medicine and Dentistry, University of Alberta, Edmonton, Canada

ELUCIDATION OF THE INTERPLAY BETWEEN A HISTONE DEACETYLASE, ADIPOSE TISSUE AND THE MYOCARDIUM IN CARDIOMETABOLIC DISEASE
Bagchi RA¹,², Hu T¹,², Major JL¹,², Cao J³, Pecorari I¹, Cavasin MA¹,², Mestroni L¹, Lam MPY¹,², Lin H³, McKinsey TA¹,²
¹University of Colorado Anschutz Medical Campus, ²Consortium for Fibrosis Research & Translation, University of Colorado Anschutz Medical Campus, Aurora, ³Cornell University, Ithaca, USA

FOXO1 INHIBITION MITIGATES TYPE 2 DIABETES-RELATED DIASTOLIC DYSFUNCTION VIA STIMULATING MYOCARDIAL PYRUVATE DEHYDROGENASE ACTIVITY AND GLUCOSE OXIDATION
Faculty of Pharmacy and Pharmaceutical Sciences, Diabetes Institute, University of Alberta, Edmonton, Canada
COMPETITION 3: GARY LOPASCHUK STUDENT AWARD
(Room F3)

11.15-12.45

Chairs: Duan D (Reno, USA), Ramasamy R (New York, USA), Srivastava A (Montreal, Canada)

OVERALL HEMOSTATIC POTENTIAL AND THROMBIN GENERATION IN PATIENTS WITH ATRIAL FIBRILATION RECEIVING DABIGATRAN
Petkovic A1, Jakovljevic V2,3, Pruner I4, Vranic A1, Antovic A5,6, Antovic J4,7
1Department of Pharmacy, Faculty of Medical Sciences, University of Kragujevac, 2Department of Physiology, Faculty of Medical Sciences, University of Kragujevac, Kragujevac, Serbia, 3Department of Human Pathology, 1st Moscow State Medical University IM Sechenov, Moscow, Russian Federation, 4Department of Molecular Medicine and Surgery, Karolinska Institutet, 5Department of Medicine, Rheumatology Unit, Karolinska Institutet, 6Academic Specialist Center, Center for Rheumatology, Stockholm Health Services, 7Karolinska University Hospital, Clinical Chemistry, Stockholm, Sweden

CARDIOPROTECTIVE EFFECTS OF HYDROGEN SULFIDE DONOR IN AN ISOLATED HEART MODEL OF RAT WITH METABOLIC SYNDROME
Jeremic J1, Jakovljevic V2,3, Milosavljevic I1, Zivkovic V2, Srejovic I2, Bradic J1, Tyagi S4, Jeremic N1
1Department of Pharmacy, Faculty of Medical Sciences, University of Kragujevac, 2Department of Physiology, Faculty of Medical Sciences, University of Kragujevac, Kragujevac, Serbia, 3Department of Human Pathology, 1st Moscow State Medical University IM Sechenov, Moscow, Russian Federation, 4Department of Physiology, School of Medicine, University of Louisville, Louisville, USA

SCLERAXIS – A KEY REGULATOR OF CARDIAC FIBROSIS IN THE PRESSURE OVERLOADED MYOCARDIUM
Nagalingam R1,2, Cheung D1, Aroutiounova N1, Jassal D1,3, Czubryt M1,2
1Institute of Cardiovascular Sciences, St. Boniface Hospital Albrechtsen Research Centre, 2Department of Physiology and Pathophysiology, 3Department of Internal Medicine, University of Manitoba, Winnipeg, Canada

FLAXSEED PROTECTS AGAINST CARDIAC REMODELING AND ARRHYTHMIAS VIA ATTENUATION OF MYOCARDIAL FIBROSIS AND INFLAMMATION
Parikh M1,3, Raj P1,2, Austria A1,3, Yu L2, Garg B2,3, Netticadan T1,2,4, Pierce G1,3
1Department of Physiology and Pathophysiology, Faculty of Health Sciences, University of Manitoba, 2Canadian Centre for Agri-food Research in Health and Medicine (CCARM), 3The Institute of Cardiovascular Sciences, 4Agriculture and Agri-Food Canada, St. Boniface Hospital Albrechtsen Research Centre, Winnipeg, Canada
12.45-13.00

CONCLUDING REMARKS & TAKE HOME MESSAGE
(Room F2)

*Chairs: Lopaschuk G (Edmonton, Canada), Varro A (Szeged, Hungary)*

13.30-19.30  COUNTRYSIDE EXCURSION

20.30  IACS AWARDS CEREMONY/GALA DINNER
(Hotel Fontana)
THURSDAY, SEPTEMBER 12th, 2019

POSTER SESSION I

(The presence of poster authors is required from 18.00-19.30)

Chairs (P01-P27): Barta J (Debrecen, Hungary), Nader M (Riyadh, Saudi Arabia), Pierce G (Winnipeg, Canada)
Chairs (P28-P55): Abdellatif M (Newark, USA), Feldman R (Winnipeg, Canada), Srejovic I (Kragujevac, Serbia)

P01 ASSESSMENT OF ADIPOSE TISSUE DYSFUNCTION IN OBESE CHILDREN AND ADULTS UNDERGOING ABDOMINAL SURGERY
Ionica M1, Aburel OM1,∗, Vaduva AO2, Popoiu C3, Boia E3, Rațiu S4, Olariu S4, Noveanu L1,∗, Sturza A1,∗, Muntean DM1,∗

1Department of Functional Sciences - Pathophysiology, ∗Centre for Translational Research and Systems Medicine, 2Department of Microscopic Morphology – Morphopathology, 3Department of Pediatrics – Pediatric and Orthopedic Surgery, 4Department of Surgery II - 1st Clinic of Surgery, Faculty of Medicine, “Victor Babes” University of Medicine and Pharmacy, Timisoara, Romania

P02 EFFECTS OF CHRONIC EVENING PRIMROSE OIL TREATMENT ON THE REDOX STATUS OF MALE AND FEMALE RATS
Andjic M1, Dragicic N1, Radoman K2, Jeremic J1, Nikolic Turnic T1, Srejovic I1, Zivkovic V3, Bolevich S4, Jakovljevic V3,4

1Department of Pharmacy, Faculty of Medical Sciences, University of Kragujevac, Kragujevac, 2College of Health Studies, Podgorica, Montenegro, 3Department of Physiology, Faculty of Medical Sciences, University of Kragujevac, Kragujevac, Serbia, 4Department of Human Pathology, 1st Moscow State Medical University IM Sechenov, Moscow, Russian Federation

P03 COMPARISON OF EFFECT OF DOFETILIDE AND CHRONIC AMIODARONE TREATMENT ON THE DISPERSION BETWEEN THE SUBENDOCARDIUM AND PURKINJE FIBERS IN LEFT VENTRICULAR CARDIAC PREPARATION
Arpadffy-Lovas T1, Gazdag P1, Jost N1,2, Virag L1, Baczko I1, Varro A1,2

1Department of Pharmacology and Pharmacotherapy University of Szeged, 2MTA-SZTE Cardiovascular Pharmacology Research Group, Szeged, Hungary
**P04** MODIFIED FATTY ACIDS PROFILE IN ERITHROCYTES IN SUBJECTS WITH METABOLIC SYNDROME
Arsic A\(^1\), Ristic Medic D\(^1\), Petrovic S\(^1\), Stojanovic A\(^2\), Vucic V\(^1\)
\(^1\)Center of Research Excellence in Nutrition and Metabolism, Institute for Medical Research, University of Belgrade, \(^2\)Clinical Hospital Center “Bezanijska Kosa” Belgrade, Serbia

**P05** BLOOD PLASMA FATTY ACID ANALYSIS OF JCR-LA:CP RATS ON FLAXSEED SUPPLEMENTED DIET
Austria A\(^1\)-\(^3\), Parikh M\(^1\)-\(^3\), Kura B\(^4\), Garg B\(^2\)-\(^3\), Pierce G\(^1\)-\(^3\)
\(^1\)Department of Physiology and Pathophysiology, Faculty of Health Sciences, University of Manitoba, \(^2\)Canadian Centre for Agri-food Research in Health and Medicine (CCARM), \(^3\)The Institute of Cardiovascular Sciences, St. Boniface Hospital Albrechtsen Research Centre, Winnipeg, Canada, \(^4\)Institute for Heart Research, Centre of Experimental Medicine, Slovak Academy of Sciences, Bratislava, Slovak Republic

**P06** OMECAMTIV MECARBIL CAUSES THE ALTERNATION OF MYOCARDIAL EXCITATION-CONTRACTION COUPLING AT HIGH PACING FREQUENCIES
Baranyai D\(^1\), Horvath B\(^1\), Veress R\(^1\), Nanasi PP\(^1\), Fulop GA\(^2\), Kovacs A\(^2\), Csipo T\(^2\), Papp Z\(^2\), Olah A\(^3\), Radovits T\(^3\), Toth A\(^2\)
\(^1\)Department of Physiology, Faculty of Medicine, University of Debrecen, \(^2\)Division of Clinical Physiology, Department of Cardiology, Faculty of Medicine, University of Debrecen, Debrecen, \(^3\)Semmelweis University, Heart and Vascular Centre, Budapest, Hungary

**P07** NOVEL MATRIX METALLOPROTEINASE-2 INHIBITORS DECREASE THE INFARCT SIZE IN AN IN VIVO MODEL OF ACUTE MYOCARDIAL INFARCTION
Bencsik P\(^1\)-\(^2\), Gomori K\(^1\)-\(^2\), Kenyeres E\(^1\), Szabados T\(^1\), Pipis J\(^2\), Dorman G\(^3\), Ferdinandy P\(^2\)-\(^4\), Gorbe A\(^1\)-\(^2\)-\(^4\)
\(^1\)Cardiovascular Research Group, Department of Pharmacology and Pharmacotherapy, Faculty of Medicine, University of Szeged, \(^2\)Pharmahungary Group, Szeged, \(^3\)Targetex Biosciences, Dunakeszi, \(^4\)Department of Pharmacology and Pharmacotherapy, Faculty of Medicine, Semmelweis University, Budapest, Hungary
P08 CALCIUM/CALMODULIN-DEPENDENT PROTEIN KINASE II STIMULATES THE INWARD RECTIFIER POTASSIUM CURRENT IN BETA-ADRENERGIC ADAPTATION OF VENTRICULAR CARDIOMYOCYTES
Bereczki M\textsuperscript{1}, Kurtan B\textsuperscript{1}, Veress R\textsuperscript{1}, Baranyai D\textsuperscript{1}, Dienes C\textsuperscript{1}, Kiss D\textsuperscript{1}, Kovacs Z\textsuperscript{1}, Kistamas K\textsuperscript{1}, Banyasz T\textsuperscript{1}, Nanasi P\textsuperscript{1,2}, Szentandrassy N\textsuperscript{1,2}, Horvath B\textsuperscript{1,3}
\textsuperscript{1}Department of Physiology, Faculty of Medicine, University of Debrecen, \textsuperscript{2}Department of Dental Physiology, Faculty of Dentistry, University of Debrecen, \textsuperscript{3}Faculty of Pharmacy, University of Debrecen, Debrecen, Hungary

P09 ASSESSMENT OF PLATELET RESPIRATORY FUNCTION IN PREECLAMPSIA
Bina AM\textsuperscript{1}, Lelcu T\textsuperscript{1}, Avram VF\textsuperscript{1}, Aburel OM\textsuperscript{1,*}, Popa Z\textsuperscript{2}, Craina M\textsuperscript{2}, Muntean DM\textsuperscript{1,*}
\textsuperscript{1}Department of Functional Sciences - Pathophysiology, \textsuperscript{*}Center for Translational Research and Systems Medicine, "Victor Babes" University and Medicine Pharmacy, \textsuperscript{2}Department of Obstetrics-Gynecology, University of Medicine and Pharmacy "Victor Babes", Timisoara, Romania

P10 ASSESSMENT OF SYSTEMIC OXIDATIVE STRESS IN PATIENTS WITH CARDIOMETABOLIC DISEASE: A PILOT STUDY
Borza C\textsuperscript{1,*}, Anechitei A\textsuperscript{1}, Aburel OM\textsuperscript{1,*}, Sturza A\textsuperscript{1,*}, Noveanu L\textsuperscript{1,*}, Ionac A\textsuperscript{2}, Feier H\textsuperscript{3}, Gaspar M\textsuperscript{3}, Muntean DM\textsuperscript{1,*}, Mornos C\textsuperscript{2}
\textsuperscript{1}Department of Functional Sciences - Pathophysiology, \textsuperscript{*}Center for Translational Research and Systems Medicine, "Victor Babes" University and Medicine Pharmacy, \textsuperscript{2}Department of Cardiology – 2nd Cardiology Clinic, \textsuperscript{3}Department of Cardiovascular Surgery, \textsuperscript{*}Center for Translational Research and Systems Medicine, “Victor Babes” University of Medicine and Pharmacy, Timisoara, Romania

P11 SERUM CARTILAGE OLIGOMETRIC MATRIX PROTEIN-BIOmarker of Early Rheumatoid Arthritis Activity. A PILOT STUDY
Caraba A\textsuperscript{1}, Babalic FC\textsuperscript{1}, Toth E\textsuperscript{2}, Tudor A\textsuperscript{3}, Borza C\textsuperscript{2}
\textsuperscript{1}Department of Internal Medicine, Division of Rheumatology, “Victor Babes” University of Medicine and Pharmacy, \textsuperscript{2}Department of Pathophysiology, “Victor Babes” University of Medicine and Pharmacy, \textsuperscript{3}Department of Informatics and Biostatistics, “Victor Babes” University of Medicine and Pharmacy, Timisoara, Romania
P12 PRECONDITIONING WITH GALIUM VERUM L. EXTRACT PROTECTS THE RAT HEART AGAINST ISCHEMIA-REPERFUSION INJURY
Bradic J¹, Zivkovic V², Srejovic I², Jeremic J¹, Andjic M¹, Tomovic M¹, Bolevich S³, Petkovic A¹, Bolevich S⁴, Jakovljevic V²,⁴
¹Department of Pharmacy, Faculty of Medical Sciences, University of Kragujevac, Serbia; ²Department of Physiology, Faculty of Medical Sciences, University of Kragujevac, Kragujevac, Serbia; ³Department of Human Pathophysiology, 1st Moscow State Medical University IM Sechenov; ⁴Department of Human Pathology, 1st Moscow State Medical University IM Sechenov, Moscow, Russian Federation

P13 EFFECTS OF AN ETHANOLIC EXTRACT OF CHOKEBERRY (ARONIA MELANOCARPA (MICHX.) ELLIOTT) FRUIT ON BLOOD PRESSURE AND HEART RATE IN ANAESTHETIZED RABBITS
Brankovic S¹, Gocmanac Ignjatovic M¹, Kostic M², Milutinovic M², Kitic N³, Miladinovic B², Kitic D²
¹Department of Physiology, Faculty of Medicine, University of Nis, Serbia; ²Department of Pharmacy, Faculty of Medicine, University of Nis, Serbia; ³Faculty of Medicine, University of Nis, Serbia

P14 WALNUTS PROTECT MALE RAT HEART AGAINST FRUCTOSE-RICH DIET INDUCED OXIDATIVE STRESS AND BLOOD PRESSURE INCREASE
Bubic M¹, Zivkovic M¹, Stanisic J², Koricanac G², Stankovic A¹
¹Laboratory for Radiobiology and Molecular Genetics, Vinca Institute of Nuclear Sciences, University of Belgrade, Serbia; ²Laboratory for Molecular Biology and Endocrinology, Vinca Institute of Nuclear Sciences, University of Belgrade, Serbia

P15 THE ROLE OF BLOOD CELLS IN ATHEROSCLEROSIS: THE INFLUENCES OF SIMVASTATIN ON HEMATOLOGICAL PARAMETERS IN NEONATAL RATS TREATED WITH MONOSODIUM GLUTAMATE
Ciric M¹, Najman S², Nesic M¹, Puskas N³, Pavlovic V¹, Jankovic Velickovic Lj⁴, Ciric V⁵
¹Institute of Physiology, Faculty of Medicine, University of Nis, Serbia; ²Institute of Biology and Human Genetics, Faculty of Medicine, University of Nis, Serbia; ³Institute of Histology and Embryology "Aleksandar Dj. Kostic", Faculty of Medicine, University of Belgrade, Belgrade, Serbia; ⁴Institute of Pathology, Faculty of Medicine, University of Nis, Serbia; ⁵Clinic for Endocrinology, Clinical Center Nis, Nis, Serbia
P16  EXERCISE-INDUCED REMODELING OF THE ATRIA IN STANDARDBRED RACEHORSES
Dalgas Nissen S¹, Carstensen H¹, Zander Hesselkilde E², Saljic A²,
Loft-Andersen A¹, Frederiksen S¹, Jespersen T², Buhl R¹
¹Department of Veterinary Clinical Sciences, Faculty of Health and Medical Sciences,
University of Copenhagen, ²Department of Biomedical Sciences, Faculty of Health and
Medical Sciences, University of Copenhagen, Copenhagen, Denmark

P17  ACUTE INHIBITION OF MONOAMINE OXIDASE MITIGATES THE PROTECTIVE EFFECTS OF RENAL PRECONDITIONING IN RATS
Danila MD¹, Aburel OM¹, Muntean DM¹,²
¹Department of Functional Sciences – Pathophysiology, ²Center for Translational Research
and Systems Medicine, “Victor Babes” University of Medicine and Pharmacy, Timisoara,
Romania

P18  ADMINISTRATION OF SACUBITRIL PLUS VALSARTAN IN PATIENTS WITH HEART FAILURE
Leal RS¹, Blackman AO², Rodrigues TM¹
¹Morphology Department, Federal University of Sergipe, Sergipe, ²Faculty of Education and
Health Sciences, Universitary Center of Brasilia, Brasilia, Brazil

P19  LC PUFA IN PREVENTION OF INTENSIVE AND PROLONGED EXERCISE INDUCED CHANGES IN DOG’S HEALTH
Debeljak Martacic J, Popovic T, Ravic B, Pokimica B, Rankovic S,
Petrovic Oggiano G, Kardum N, Glibetic M
Institute for Medical Research, University of Belgrade, Belgrade, Serbia

P20  THE EFFECTS OF SODIUM NITRITE ON THE CALCIUM HOMEOSTASIS OF THE CARDIOMYOCYTES AND MITOCHONDRIA
Demeter-Haludka V¹, Kovacs M², Prorok J¹, Nagy N¹, Varro A¹, Vegh A¹
¹Department of Pharmacology and Pharmacotherapy, University of Szeged, ²Hungarian
Academy of Sciences, Biological Research Centre, Szeged, Hungary

P21  THE EFFECT OF L-2286 TREATMENT IN OXIDATIVE STRESS ON MITOCHONDRIAL DYNAMICS AND FUNCTION IN AN IN VITRO CARDIOMYOBLAST MODEL
Deres L¹,², Ordog K¹,², Horvath O¹,², Bruszt K¹,², Sumegi B²,³,⁴,
Gallyas F²,³,⁴, Toth K¹,², Halmosi R¹,²
¹University of Pecs, Medical School, 1st Department of Medicine, ²University of Pecs,
Szentagothai Research Center, ³University of Pecs, Department of Biochemistry and Medical
Chemistry, ⁴MTA-PTE Nuclear-Mitochondrial Interactions Research Group, Pecs, Hungary
P22  A NOVEL ANDERSEN-TAWIL SYNDROME MUTATION LEADS TO LOSS OF FUNCTION DUE TO IMPAIRED CYTOPLASMIC DOMAIN INTERACTIONS
Deri S1, Borbas J2, Hartai T1, Hategan L2, Csanyi B2, Visnyovszky A1, Madacsy T3, Maleth J3, Hegedu Z4, Nagy I5, Labro A6, Forster T2, Varro A1, Sepp R2, Ordog B1

1Department of Pharmacology and Pharmacotherapy, University of Szeged, 22nd Department of Internal Medicine and Cardiology Centre, University of Szeged, 31st Department of Internal Medicine, University of Szeged, 4Institute of Biophysics, Biological Research Centre of the Hungarian Academy of Sciences, Szeged, Department of Biochemistry and Medical Chemistry, University of Pecs, Pecs, 5Institute of Biochemistry, Biological Research Centre the Hungarian Academy of Sciences, Szeged, Seqomics Biotechnology Ltd., Morahalom, Hungary, 6Department of Biomedical Sciences, University of Antwerp, Antwerp, Belgium

P23  HEAT SHOCK PROTEIN-60 MODULATES VASCULAR SMOOTH MUSCLE CELL PROLIFERATION
Deniset J1, Hedley T1, Hlavackova M2, Maddaford G1, Dibrov E1, Pierce G1

1Institute of Cardiovascular Sciences, Albrechtsen Research Centre, St. Boniface Hospital and Department of Physiology and Pathophysiology, Rady Faculty of Health Sciences, University of Manitoba, Winnipeg, Canada, 2Institute of Physiology, Czech Academy of Sciences, Prague, Czech Republic

P24  TRPM4 INHIBITOR 9-PHENANTHROL BLOCKS NA+ AND K+ BUT NOT CA2+ CURRENTS IN CANINE VENTRICULAR MYOCYTES
Dienes C1, Veress R1, Baranyai D1, Hezso T1, Hegyi B2, Kistamas K1, Magyar J3, Banyasz T1, Nanasi P4, Szentandrassy N4, Horvath B1

1Department of Physiology, Faculty of Medicine, University of Debrecen, 2Department of Pharmacology, University of California, Davis, USA, 3Department of Physiology, Division of Sport Physiology, Faculty of Medicine, University of Debrecen, 4Department of Dental Physiology and Pharmacology, Faculty of Dentistry, University of Debrecen, Debrecen, Hungary

P25  ASSOCIATION BETWEEN HYPERHOMOCYSTEINEMIA AND THE SEVERITY OF CORONARY ARTERY DISEASE ACCORDING TO SYNTAX SCORE
Djuric P1, Obradovic S1, Mladenovic Z1, Spasic M1, Jovic Z1, Prokic D2, Lecic Krstic I3, Radojicic Z4, Djuric D5

1Clinic of Cardiology and Urgent Internal Medicine, Military Medical Academy, 2Institute for Radiology, Military Medical Academy, 3Clinic for Anesthesiology and Intensive Care, Military Medical Academy, 4Faculty of Organizational Sciences, University of Belgrade, 5Institute of Medical Physiology “Richard Burian”, Faculty of Medicine, University of Belgrade, Belgrade, Serbia
P26  THE EFFECTS OF CHRONIC FLAXSEED OIL AND α-LINOLENIC ACID ADMINISTRATION ON REDOX STATUS OF MALE AND FEMALE RATS: A COMPARATIVE STUDY
Draginic N1, Andjic M1, Radoman K2, Jeremic J1, Bradic J1, Nikolic Turnic T1, Srejovic I3, Zivkovic V3, Bolevich S4, Jakovljevic V3,4
1Department of Pharmacy, Faculty of Medical Sciences, University of Kragujevac, 2College of Health Studies, Podgorica, Montenegro, 3Department of Physiology, Faculty of Medical Sciences, Kragujevac, Serbia, 4Department of Human Pathology 1st Moscow State Medical University IM Sechenov, Moscow, Russian Federation

P27  TREATMENT OF ACUTE MYOCARDIAL INFARCTION WITH RECANALIZATION ACCOMPANIED WITH ISCHEMIC POSTCONDITIONING: STUDY ON CARDIOPROTECTION AND BIOMARKERS
Ernst M1, Sasi V2, Kenyeres E1, Szabados T1,4, Gavaller H2, Ungi I2, Fodor E3, Barczi G4, Vago H4, Merkely B4, Ferdinandy P3,5, Bencsik P1,3
1Department of Pharmacology and Pharmacotherapy, Faculty of Medicine, University of Szeged, 2Department of Invasive Cardiology, 2nd Department of Internal Medicine and Cardiology Center, Faculty of Medicine, University of Szeged, 3Pharmahungary Group, Szeged, 4Heart and Vascular Center, Semmelweis University, Budapest, 5Department of Pharmacology and Pharmacotherapy, Faculty of Medicine, Semmelweis University, Budapest, Hungary

P28  EFFECTS OF POLYUNSATURATED FATTY ACID-RICH DIET AND CHRONIC FIBRATE PRETREATMENT IN A RAT HEART FAILURE MODEL
Farkas-Morvay N1, Varro A1,2, Baczko I1, Lepran I1
1Department of Pharmacology and Pharmacotherapy, University of Szeged, 2MTA-SZTE Research Group of Cardiovascular Pharmacology, Hungarian Academy of Sciences, Szeged, Hungary

P29  IDENTIFICATION OF POTENTIAL EXERCISE INITIATED SMALL MOLECULES TO SUPPORT ORGAN REGENERATION AND REPAIR IN HUMANS
Faskerti G1,5, Czuni LA3,5, Takatsy A1, Ronai D1, Nagy Z2, Rendekei S3, Rendekei M3, Koltau A3, Maar K1,5, Gallyas F1,5, Bock-Marquette I1,5
1Departments of Biochemistry and Medical Chemistry, 2Laboratory Medicine, 3Military Medicine, Disaster Medicine, And Law Enforcement Medicine, University of Pecs Medical School, 4Institute of Biology, Faculty of Sciences, 5Szentagothai Research Centre University of Pecs, Pecs, Hungary
P30 CARDIOVASCULAR AND METABOLIC EFFECTS OF QUERCETIN IN ZUCKER DIABETIC RATS
Ferenczyova K\textsuperscript{1}, Kalocayova B\textsuperscript{1}, Kindernay L\textsuperscript{1}, Sykora M\textsuperscript{1}, Frimmel K\textsuperscript{1}, Balis P\textsuperscript{2}, Zemancikova A\textsuperscript{2}, Torok J\textsuperscript{2}, Lory V\textsuperscript{3}, Kubicova P\textsuperscript{3}, Balogova E\textsuperscript{3}, Krskova K\textsuperscript{3}, Zorad S\textsuperscript{3}, Bartekova M\textsuperscript{1}
\textsuperscript{1}Institute for Heart Research, Centre of Experimental Medicine, Slovak Academy of Sciences, 
\textsuperscript{2}Institute of Normal and Pathological Physiology, Centre of Experimental Medicine, Slovak Academy of Sciences; \textsuperscript{3}Institute of Experimental Endocrinology, Biomedical Research Center, Slovak Academy of Sciences, Bratislava, Slovak Republic

P31 THE LEFT VENTRICLE IS LOADED AND EJECTS IN THE ISOLATED LANGENDORFF-PERFUSED RAT HEART
Gazdag P\textsuperscript{1}, Polyák A\textsuperscript{2,3}, Csík N\textsuperscript{4}, Prorok J\textsuperscript{1}, Varró A\textsuperscript{1,3}, Baczkó I, Farkas AS\textsuperscript{2}, Farkas A\textsuperscript{2}
\textsuperscript{1}Department of Pharmacology and Pharmacotherapy, Faculty of Medicine, University of Szeged, 
\textsuperscript{2}Second Department of Medicine and Cardiology Centre, Faculty of Medicine, University of Szeged, 
\textsuperscript{3}Working Group of Cardiovascular Pharmacology, Hungarian Academy of Sciences, Szeged, 
\textsuperscript{4}John von Neumann University, GAMF Faculty of Engineering and Computer Science, Computer Science Engineering, Kecskemét, Hungary

P32 VASODILATORY EFFECT OF THE UNRIPE FENNEL FRUIT AQUEOUS EXTRACT (FOeniculum vulgare Miller) ON THE RAT AORTA
Gocmanac Ignjatovic M\textsuperscript{1}, Brankovic S\textsuperscript{1}, Kitic D\textsuperscript{2}, Milutinovic M\textsuperscript{2}, Kostic M\textsuperscript{3}, Miladinovic B\textsuperscript{2}, Kitic N\textsuperscript{3}
\textsuperscript{1}Department of Physiology, Faculty of Medicine, University of Nis, 
\textsuperscript{2}Department of Pharmacy, Faculty of Medicine, University of Nis, 
\textsuperscript{3}Faculty of Medicine, University of Nis, Nis, Serbia

P33 INVOLVEMENT OF VOLTAGE-GATED POTASSIUM CHANNELS (Kv) IN THE RELAXANT EFFECTS OF RESVERATROL ON ISOLATED SAPHENOUS VEIN FROM DIABETIC PATIENTS
Gostimirovic M\textsuperscript{1}, Peric M\textsuperscript{2}, Novakovic R\textsuperscript{1}, Rajkovic J\textsuperscript{1}, Djokic V\textsuperscript{1}, Terzic D\textsuperscript{3}, Putnik S\textsuperscript{3}, Bukarica A\textsuperscript{4}, Gojkovic Bukarica Lj\textsuperscript{1}
\textsuperscript{1}Institute of Pharmacology, Clinical Pharmacology and Toxicology, Faculty of Medicine, University of Belgrade, 
\textsuperscript{2}Dedinje Cardiovascular Institute, 
\textsuperscript{3}Clinic for Cardiosurgery, Clinical Centre of Serbia, 
\textsuperscript{4}Faculty of Medicine, University of Belgrade, Belgrade, Serbia
P34  SARCOLEMMA CALCIUM ENTRY THROUGH L-TYPE CALCIUM CHANNELS CONTROLS THE PROFILE OF CALCIUM ACTIVATED CHLORIDE CURRENT IN CANINE VENTRICULAR MYOCYTES
Horvath B1,2, Szentandrassy N1,3, Hegyi B1, Vaczi K1, Gonczi M1, Dienes B1, Kistamas K1, Veress R1, Ruzsnavszky F1, Banyasz T1, Magyar J1,4, Baczko I5, Varro A6,7, Seprenyi G8, Csernoch L1, Nanasi PP1,2
1Department of Physiology, Faculty of Medicine, University of Debrecen, 2Faculty of Pharmacy, University of Debrecen, 3Department of Dental Physiology, Faculty of Dentistry, University of Debrecen, 4Department of Cardiology, Clinical Center, University of Debrecen, 5Division of Sport Physiology, Department of Physiology, Faculty of Medicine, University of Debrecen, Debrecen, 6Department of Pharmacology and Pharmacotherapy, Faculty of Medicine, University of Szeged, 7MTA-SZTE Research Group of Cardiovascular Pharmacology, Hungarian Academy of Sciences, 8Department of Medical Biology, Faculty of Medicine, University of Szeged, Szeged, Hungary

P35  PLEIOTROPIC ACTION OF RIP1: A COMPARATIVE STUDY OF VARIOUS RIP1 INHIBITORS
Horvath C1, Szobi A1, Kindernay L2, Ledvenyiova V2, Ravingerova T2, Adameova A1
1Department of Pharmacology and Toxicology, Faculty of Pharmacy, Comenius University, 2Institute for Heart Research, Slovak Academy of Sciences, Bratislava, Slovak Republic

P36  THE EFFECT OF BGP-15 TREATMENT ON MITOCHONDRIAL DYNAMICS AND FUNCTION IN IN VIVO ANIMAL MODEL AND IN CELL CULTURE
Horvath O1,2, Ordog K1,2, Bruszt K1,2, Sumegi B3,4, Toth K1,2,4, Halmosi R1,2, Deres L1,2,4
1University of Pecs, Medical School, 2Department of Medicine, 3University of Pecs, Szentagothai Research Center, 4University of Pecs, Department of Biochemistry and Medical Chemistry, 4MTA-PTE Nuclear-Mitochondrial Interactions Research Group, Pecs, Hungary

P37  EFFECT OF METFORMIN ON THE PROGRESSION OF POST-ISCHEMIC HEART FAILURE IN TRANSGENIC SPONTANEOUSLY HYPERTENSIVE RATS EXPRESSING HUMAN C-REACTIVE PROTEIN
Institute of Physiology of the Czech Academy of Sciences, Prague, Czech Republic
P38 ISCHAEMIC PRECONDITIONING PREVENTS THE HIDDEN ELECTROPHYSIOLOGICAL CARDIOTOXIC EFFECTS OF ROFECOXIB
Husti Z¹, Varga RS¹, Brenner G², Bencsik P¹, Giricz Z²,³, Gorbe A¹,²,³, Shulz R⁴, Varro A¹, Ferdinandy P²,³, Baczko I¹
¹Department of Pharmacology and Pharmacotherapy, University of Szeged, Szeged,
²Department of Pharmacology and Pharmacotherapy, Semmelweis University, Budapest,
³Pharmahungary Group, Szeged, Hungary

P39 PHARMACY STUDENTS' ATTITUDES ON ELECTRONIC CIGARETTES USE: A CROSS-SECTIONAL STUDY
Ilic I¹, Sipetic S², Grujicic J³, Ilic M⁴
¹Faculty of Medicine, University of Belgrade, ²Faculty of Medicine, Institute of Epidemiology, University of Belgrade, Belgrade, ³Ave Maria University, Ave Maria, USA, ⁴Department of Epidemiology, Faculty of Medical Sciences, University of Kragujevac, Kragujevac, Serbia

P40 ESSENTIAL HYPERTENSION MORTALITY IN SERBIA, 1991-2016: A JOINPOINT REGRESSION ANALYSIS
Ilic I¹, Sipetic S², Grujicic J³, Ilic M⁴
¹Faculty of Medicine, University of Belgrade, ²Faculty of Medicine, Institute of Epidemiology, University of Belgrade, Belgrade, ³Ave Maria University, Ave Maria, USA, ⁴Department of Epidemiology, Faculty of Medical Sciences, University of Kragujevac, Kragujevac, Serbia

P41 RISK FACTORS OF MYOCARDIAL INFARCTION IN ELDERLY AND NON-ELDERLY: A CASE-CONTROL STUDY
Ilic I¹, Sipetic S², Grujicic J³, Ilic M⁴
¹Faculty of Medicine, University of Belgrade, ²Faculty of Medicine, Institute of Epidemiology, University of Belgrade, Belgrade, Serbia, ³Ave Maria University, Ave Maria, USA, ⁴Department of Epidemiology, Faculty of Medical Sciences, University of Kragujevac, Kragujevac, Serbia

P42 OLIVE LEAF COMPOUND OLEUROPIEN EXERTS NEGATIVE INOTROPIC AND CHRONOTROPIC EFFECTS ON ISOLATED RAT ATRIA
Ilic S¹, Stojiljkovic N¹, Stojanovic N²
¹Department of Physiology, University of Nis, Faculty of Medicine, ²Faculty of Medicine, University of Nis, Nis, Serbia
P43  THE INFLUENCE OF FOLIC ACID APPLICATION ON CARDIAC OXIDATIVE STRESS PARAMETERS AND CARDIOMETABOLIC MARKERS IN MONOCROTALINE-INDUCED HEART FAILURE IN WISTAR MALE RATS
Jakovljevic Uzelac J1, Mutavdzin S1, Todorovic D1, Stankovic S2, Labudovic Borovic M2, Milic N4, Vasic M5, Japundzic Zigon N5, Simic T6, Djuric D1

1Institute of Medical Physiology "Richard Burian", Faculty of Medicine, University of Belgrade, 2Centre of Medical Biochemistry, Clinical Centre of Serbia, Belgrade, 3Institute of Histology and Embryology “Aleksandar Dj. Kostic”, Faculty of Medicine, University of Belgrade, 4Institute of Medical Statistics and Informatics, Faculty of Medicine, University of Belgrade, 5Institute of Pharmacology, Clinical Pharmacology and Toxycology, Faculty of Medicine, University of Belgrade, 6Institute of Medical and Clinical Biochemistry, Faculty of Medicine, University of Belgrade, Belgrade, Serbia

P44  ALTERATIONS OF OXIDATIVE STRESS PARAMETERS IN CORONARY VENOUS EFFLUENT OF ISOLATED RAT HEART BY MODULATING N-METHYL-D-ASPARTATE RECEPTORS
Joksimovic Jovic J1, Srejovic I1, Zivkovic V1, Jeremic N2, Milosavljevic I2, Nikolic Turnic T2, Bolevich S3, Djuric D4, Jakovljevic V2,3

1Department of Physiology, Faculty of Medical Sciences, University of Kragujevac, 2Department of Pharmacy, Faculty of Medical Sciences, University of Kragujevac, 3Institute for Medical Research, University of Belgrade, Belgrade, Serbia

P45  SUPEROXIDE DISMUTASE-1 AND CATALASE EXPRESSIONS IN THE KIDNEY OF HYPERTENSIVE RATS WITH ADRIAMYCIN NEPHROPATHY: EFFECTS OF OLIVE LEAF EXTRACT
Karanovic D1, Mihailovic Stanojevic N1, Miloradovic Z1, Ivanov M1, Vajic UJ1, Grujic Milanovic J1, Cirovic S2, Dekanski D3, Jovovic Dj1

1Institute for Medical Research, University of Belgrade, 2Institute of Pathology, Faculty of Medicine, University of Belgrade, 3R&D Institute, Galenika a.d., Belgrade, Serbia

P46  UBIQUINONE PLASMA LEVELS CORRELATED WITH BRAIN NATRIURETIC PEPTIDE PLASMA LEVELS IN PATIENTS WITH CHRONIC HEART FAILURE: THE POTENTIAL OF COENZYME Q10 COMBINED THERAPY
Kartasheva M, Bolevich SB, Bolevich SS, Sizova ZhM, Shikh EV
I.M. Sechenov First Moscow State Medical University (Sechenov University), Moscow, Russian Federation
P47  REGULATION OF THE DELAYED RECTIFIER POTASSIUM CURRENT DURING THE ADRENERGIC ADAPTATION OF CARDIOMYOCYTES
Kiss D1, Hezso T1, Kurtan B1, Veress R1, Baranyai D1, Kovacs Z1, Dienes C1, Szentandrassy N2, Banyasz T1, Magyar J3, Nanasi P2, Horvath B1

1Department of Physiology, Faculty of Medicine, University of Debrecen, 2Department of Dental Physiology and Pharmacology, University of Debrecen, 3Department of Physiology, Division of Sport Physiology, Faculty of Medicine, University of Debrecen, Debrecen, Hungary

P48  COMPARISON OF THE EFFECTS OF PROPOFOL, KETAMINE AND ETOMIDATE ON CARDIODYNAMICS AND OXIDATIVE STRESS PARAMETERS IN WISTAR MALE RATS
Kostic S1, Djuric M2, Nikolic Turnic T3, Srejovic I4, Zivkovic V4, Stevanovic P2, Jakovljevic V4,5, Djuric D1

1Institute of Medical Physiology “Richard Burian”, Faculty of Medicine, University of Belgrade, 2Department of Anesthesiology, Reanimatology and Intensive Care Medicine, University Clinical Hospital Center “Dr. Dragisa Misovic - Dedinje”, Belgrade, 3Department of Pharmacy, Faculty of Medical Sciences, University of Kragujevac, Kragujevac, 4Department of Physiology, Faculty of Medical Sciences, University of Kragujevac, Kragujevac, Serbia, 5Department of Human Pathology, 1st Moscow State Medical, University IM Sechenov, Moscow, Russian Federation

P49  MYOCARDIAL AGING: EFFECTS OF LONG-TERM SILDENAFIL TREATMENT ON EXPRESSION OF GENES THAT REGULATE MITOCHONDRIAL DYNAMICS
Andrejic M, Medar MM, Andric SA, Kostic TS

Laboratory for Chronobiology and Aging, Laboratory for Reproductive Endocrinology and Signaling, Centre of Excellence CeRES, Faculty of Sciences, University of Novi Sad, Novi Sad, Serbia

P50  THE IMPACT OF SELECTED DIETARY ANTHOCYANINS AND THEIR MIXTURE ON PLATELET ACTIVATION AND AGGREGATION WITH LEUKOCYTES
Krga I1,2, Vidovic N1, Milenkovic D2, Konic Ristic A1, Morand C2, Glibetic M1

1Centre of Research Excellence in Nutrition and Metabolism, Institute for Medical Research, University of Belgrade, Serbia, 2University Clermont Auvergne, INRA, UNH, CRNH Auvergne, Clermont-Ferrand, France
P51 EUGENOL MITIGATES AS(III)-INDUCED HYPERCONTRACTION IN RAT AORTA THROUGH QUENCHING OF ROS AND INCREASE OF NITRIC OXIDE BIOAVAILABILITY
Kundu S1, Khan L2
1Department of Biochemistry, University of Delhi South Campus, 2Department of Biosciences, Faculty of Natural Sciences, Jamia Millia Islamia, New Delhi, India

P52 MOLECULAR HYDROGEN ATTENUATES OXIDATIVE STRESS IN HEART INJURY
Kura B1, Sagatova A2, Fulop M2, Slozak J1
1Institute for Heart Research, Centre of Experimental Medicine, SAS, Bratislava, 2University Centre for Electron Accelerators, Slovak Medical University, Trnecin, Slovak Republic

P53 TWO NOVEL CSRP3 VARIANTS IDENTIFIED IN PATIENTS WITH HYPERTROPHIC CARDIOMYOPATHY
Kusic Tisma J1, Rakicevic Lj1, Ptakova N2, Tesic M1, Macek M Jr2, Radojkovic D1
1Institute of Molecular Genetics and Genetic Engineering, University of Belgrade, 22nd Faculty of Medicine and Faculty Hospital Motol, Charles University, Czech Republic, 3Cardiology Clinic, Clinical Center of Serbia, Belgrade, Serbia

P54 MMPs HAPLOTYPES IN ASSOCIATION WITH MYOCARDIAL INFARCTION AND ECHOCARDIOGRAPHIC PARAMETERS OF LEFT VENTRICULAR REMODELING
Kuveljic J1, Djordjevic A1, Zivkovic M1, Popic K1, Dekleva M2, Markovic Nikolic N2, Alavantic D1, Stankovic A1, Djuric T1
1Vinca Institute of Nuclear Sciences, Laboratory for Radiobiology and Molecular Genetics, University of Belgrade, 2Department of Cardiology, University Clinical Center “Zvezdara”, Faculty of Medicine, University of Belgrade, Belgrade, Serbia

P55 IMPAIRMENT OF PLATELET RESPIRATION AS EARLY BIOMARKER OF HEMATOLOGIC MALIGNANCIES
Leleu T1, Bina AM1, Avram VF1, Aburel OM1,*, Borza C1,*, Arghirescu S2, Muntean DM1,*
1Department of Functional Sciences-Pathophysiology, *Center for Translational Research and Systems Medicine, "Victor Babes" University and Medicine Pharmacy, 2Department of Pediatrics - The 3rd Clinic of Pediatrics, "Victor Babes" University and Medicine Pharmacy, Timisoara, Romania
POSTER SESSION II
(The presence of poster authors is required from 18.30-20.00)

Chairs (P56-P83): Gilchrist J (Winnipeg, Canada), Miloradovic Z (Belgrade, Serbia), Tremblay J (Montreal, Canada)
Chairs (P84-P110): Maurice D (Kingston, Canada), Tappia P (Winnipeg, Canada), Virag L (Szeged, Hungary)

P56 QUANTITATIVE ASSESSMENT OF MICROVASCULAR NETWORK MORPHOLOGY AND CARDIOVASCULAR RISK IN DIABETIC RETINOPATHY
Lipovac M, Popovic N
Faculty of Medicine, University of Montenegro, Podgorica, Montenegro

P57 VOLUNTARY EXERCISE AND DELAYED “REMOTE” PRECONDITIONING AS NONINVASIVE AND CLINICALLY RELEVANT FORMS OF “CONDITIONING” OF THE HEART
Lonek L¹, Kindernay L¹, Puhova A², Zahradnikova A, Jr², Kovacova D³, Zohdi V⁴, Jezova D², Ferko M¹, Ravingerova T¹
¹Centre of Experimental Medicine, Institute for Heart Research, Slovak Academy of Sciences, ²Biomedical Research Center, Institute of Experimental Endocrinology, Slovak Academy of Sciences, ³Institute of Patophysiology, ⁴Institute of Anatomy, Faculty of Medicine, Comenius University, Bratislava, Slovak Republic

P58 THE LEVEL OF EXPRESSION OF V1b RECEPTORS IN HYPOTHALAMIC PVN DEFINES REACTIVITY TO EMOTIONAL STRESS
Lozic M¹, Greenwood M², Murphy D², Japundzic Zigon N¹
¹Institute of Pharmacology, Clinical Pharmacology and Toxicology, Faculty of Medicine University of Belgrade, Belgrade, Serbia, ²Molecular Neuroendocrinology Research Group, Bristol Medical School, Translational Health Sciences, University of Bristol, Bristol, United Kingdom
P59  THYMOSIN BETA-4 INFLUENCES MIR1196 EXPRESSION FOLLOWING CARDIAC INFARCTION IN ADULT MICE
Maar K1, Thatcher J3, Shivastava S3, DiMaio JM3, Olson EN2, Gallyas F1, Bock Marquette I1,2,3

1Department of Biochemistry and Medical Chemistry, Szentagothai Research Centre, University of Pecs Medical School, Pecs, Hungary, Departments of 2Molecular Biology and 3Cardiovascular and Thoracic Surgery, University of Texas Southwestern Medical Center, Dallas, USA

P60  THE EFFECT OF FERROSTATIN-1 ON ISCHEMIA REPERFUSION INJURY IN ADULT RAT CARDIOMYOCYTES
Stamenkovic A1-3, Maddaford TG1-3, Ravandi A1,4, Pierce GN1-3

1Institute of Cardiovascular Science, 2Canadian Center for Agri-food Research in Health and Medicine (CCARM), St. Boniface Albrechtsen Research Centre, Departments of 3Physiology and Pathophysiology and 4Internal Medicine, Rady Faculty of Health Sciences, University of Manitoba, Winnipeg, Canada

P61  ROLE OF OXIDIZED-PHOSPHOLIPIDS IN ISCHEMIA-REPERFUSION INJURY AND ITS MITIGATION BY IL-10
Bagchi AK1,2, Surendran A1,2, Malik A1,2, Jassal DS1,3, Ravandi A1,3, Singal PK1,2

1Institute of Cardiovascular Sciences, St. Boniface Hospital Albrechtsen Research Centre, 2Department of Physiology and Pathophysiology, 3Section of Cardiology, Max Rady College of Medicine, Rady Faculty of Health Sciences, University of Manitoba, Winnipeg, Canada

P62  MARKERS OF MITOCHONDRIAL BIOGENESIS, FUSION AND ARCHITECTURE ARE DISTURBED IN PBMC FROM WAR VETERANS WITH POSTTRAUMATIC STRESS DISORDER
Markovic AZ1*, Milosevic MM1*, Radovic SM1, Starovlah IM1, Brkljacic J2, Vojnovic Milutinovic D2, Matic G2, Kostic TS1, Andric SA1

1Laboratory for Reproductive Endocrinology and Signaling, Laboratory for Chronobiology and Aging, Centre of Excellence CeRES, Faculty of Sciences, University of Novi Sad, Novi Sad, 2Department of Biochemistry, Institute for Biological Research “Sinisa Stankovic”, University of Belgrade, Belgrade, Serbia
P63 PIOGLIAZONE ATTENUATES KIDNEY INJURY IN AN EXPERIMENTAL MODEL OF GENTAMICIN-INDUCED NEPHROTOXICITY IN RATS
Medic Brkic B1, Stojanovic M1, Savic Vujovic K1, Rovcanin B2, Kekic D3, Radojevic Skodric S4, Basta Jovanovic G4, Prostran M1
1Department of Pharmacology, Clinical Pharmacology and Toxicology, Faculty of Medicine, University of Belgrade, 2Centre for Endocrine Surgery, Clinical Centre of Serbia, Faculty of Medicine, University of Belgrade, 3Institute for Microbiology and Immunology, Faculty of Medicine, University of Belgrade, 4Department of Pathology, Faculty of Medicine, University of Belgrade, Belgrade, Serbia

P64 TIME-DEPENDENT EFFECT OF HIGH SALT ON HYPERTROPHY AND GLYCOCALYX OF HUMAN VASCULAR SMOOTH MUSCLE CELLS
Menkovic I, Simon Y, Bkaily C, Jacques D, Bkaily G
Department of Anatomy and Cell Biology, Faculty of Medicine and Health Sciences, University of Sherbrooke, Sherbrooke, Canada

P65 THE EFFECT OF THE CHRONIC ADMINISTRATION OF DPP4-INHIBITORS ON SYSTEMIC OXIDATIVE STRESS IN RATS WITH DIABETES TYPE 2
Milosavljevic I1, Bolevich S2, Jeremic N1, Zivkovic V3, Srejovic I3, Jeremic J1, Draginic N1, Andjic M1, Bolevich S3, Jakovljевич V3,4
1Department of Pharmacy, Faculty of Medical Sciences, University of Kragujevac, Kragujevac, Serbia, 2Department of Pathophysiology, 1st Moscow State Medical University IM Sechenov, 3Department of Physiology, Faculty of Medical Sciences, University of Kragujevac, Kragujevac, Serbia, 41st Moscow State Medical University IM Sechenov, Department of Human Pathology, Moscow, Russian Federation

P66 PROTECTIVE EFFECTS OF VISCUM ALBUM L. LEAF EXTRACT IN BLOOD AND HEART OF RATS INTOXICATED BY CHLORPYRIFOS
Milosevic M1, Paunovic M1, Matic M1, Maskovic P2, Obradovic A1, Ognjanovic B1
1Department of Biology and Ecology, Faculty of Science, University of Kragujevac, Kragujevac, 2Department of Chemistry and Chemical Engineering, Faculty of Agronomy, University of Kragujevac, Cacak, Serbia

P67 BODY FAT ASSESSMENT BY AIR DISPLACEMENT PLETHYSMOGRAPHY AND ABDOMINAL ULTRASOUND: CORRELATIONS WITH THE BODY MASS INDEX
Muntean P, Miclos-Balica M, Pupazan V, Neagu M, Neagu A
Department of Functional Sciences, Faculty of Medicine, “Victor Babes” University of Medicine and Pharmacy, Timisoara, Romania
P68 CARDIAC AND LIVER RISK IN DIABETIC RATS – THE EFFECTS OF PYRIDOXINE
Mutavdzin S1, Gopcevic K2, Jakovljevic Uzelac J1, Todorovic D1, Stankovic S3, Labudovic Borovic M4, Djuric D1
1Institute of Medical Physiology “Richard Burian”, Faculty of Medicine, University of Belgrade, 2Institute of Chemistry in Medicine “Prof. Dr. Petar Matavulj”, Faculty of Medicine, University of Belgrade, 3Centre of Medical Biochemistry, Clinical Centre of Serbia, 4Institute of Histology and Embryology “Aleksandar Dj. Kostic”, Faculty of Medicine, University of Belgrade, Belgrade, Serbia

P69 ACTION POTENTIAL RESTITUTION DOES NOT PREDICT ALTERNANS DEVELOPMENT IN CANINE VENTRICULAR TISSUE
Nagy N1,2, Szlovak J1, Toth N1, Papp JG1,2, Varro A1,2
1University of Szeged, Faculty of Medicine, Department of Pharmacology and Pharmacotherapy, 2MTA-SZTE Research Group of Cardiovascular Pharmacology, Hungarian Academy of Sciences, Szeged, Hungary

P70 THE EFFECTS OF THIAMINE HYDROCHLORIDE ON CARDIAC FUNCTION, REDOX STATUS AND MORPHOMETRIC ALTERATIONS IN DOXORUBICIN-TREATED RATS
Nikolic Turnic T1, Radonjic T2, Rankovic M1, Ravic M1, Zivkovic V3, Šrejovic I1, Jeremic J1, Jeremic N1, Sretenovic J3, Matic S4, Jakovljevic V3,5
1Department of Pharmacy, Faculty of Medical Sciences, University of Kragujevac, Kragujevac, 2Health Center “Dr Milutin Ivkovic” Belgrade, 3Department of Physiology, Faculty of Medical Sciences, University of Kragujevac, Kragujevac, 4Department of Pathology, Clinical Center Kragujevac, Kragujevac, Serbia, 5Department of Human Pathology, 1st Moscow State Medical University IM Sechenov, Moscow, Russian Federation

P71 EVALUATION OF ECG REPOLARIZATION PARAMETERS IN YOUNG COMPETITIVE ATHLETES
Orosz A1, Nikolic I2, Vagvolgyi A6, Stojmenovic T2, Dikic N2, Nedeljkovic I3, Jakovljevic V4, Nemes A5, Lengyel C6, Baczko I1, Varro A1
1Department of Pharmacology and Pharmacotherapy, University of Szeged, 2Special Hospital for Sports Medicine “Vita Maxima”, 3Clinic for Cardiology, Clinical Centre of Serbia, Faculty of Medicine, University of Belgrade, Belgrade, 4Department of Physiology, Faculty of Medical Sciences, University of Kragujevac, Kragujevac, Serbia, 52nd Department of Internal Medicine and Cardiology Centre, University of Szeged, 61st Department of Internal Medicine, University of Szeged, Szeged, Hungary
P72  DOXORUBICIN-INDUCED CARDIOMYOPATHY: IS THERE MORE THAN ONE PHENOTYPE?
Pajovic V\textsuperscript{1}, Matic M\textsuperscript{1}, Vasic M\textsuperscript{1}, Sarenac O\textsuperscript{1}, Bajic D\textsuperscript{2}, Japundzic Zigon N\textsuperscript{1}
\textsuperscript{1}Institute of Pharmacology, Clinical Pharmacology and Toxicology, Faculty of Medicine, University of Belgrade, Belgrade, \textsuperscript{2}Faculty of Technical Sciences, University of Novi Sad, Novi Sad, Serbia

P73  UNFORABLE CHANGES IN FATTY ACID STATUS AND ENZIMATIC ACTIVITIES IN PATIENTS WITH METABOLIC SYNDROME
Petrovic S, Kojadinovic M, Vucic V, Ristic Medic D, Glibetic M, Arsic A
Centre of Research Excellence in Nutrition and Metabolism, Institute for Medical Research, University of Belgrade, Belgrade, Serbia

P74  INVESTIGATION OF THE MECHANISM OF HEART RATE-DEPENDENT CORONARY FLOW INCREASE IN ISOLATED LANGENDORFF-PERFUSED RAT HEARTS
Polyak A\textsuperscript{1,2}, Gazdag P\textsuperscript{3}, Csik N\textsuperscript{4}, Prorok J\textsuperscript{3}, Varro A\textsuperscript{2,3}, Baczko I\textsuperscript{1}, Farkas AS\textsuperscript{1}, Farkas A\textsuperscript{1}
\textsuperscript{1}2nd Department of Internal Medicine and Cardiology Centre, Faculty of Medicine, University of Szeged, \textsuperscript{2}Working Group of Cardiovascular Pharmacology, Hungarian Academy of Sciences, \textsuperscript{3}Department of Pharmacology and Pharmacotherapy, Faculty of Medicine, University of Szeged, Szeged, \textsuperscript{4}John von Neumann University, GAMF Faculty of Engineering and Computer Science, Computer Science Engineering, Kecskemet, Hungary

P75  IMPROVING CARDIVASCULAR RISK AND ATEROPROTECTION IN AGING
Popovic T\textsuperscript{1}, Debeljak Martacic J\textsuperscript{1}, Arsic A\textsuperscript{1}, de Luka S\textsuperscript{2}, Trbovic A\textsuperscript{2}, Glibetic M\textsuperscript{1}
\textsuperscript{1}Institute for Medical Research, University of Belgrade, \textsuperscript{2}Institute for Pathophysiology, Faculty of Medicine, University of Belgrade, Belgrade, Serbia

P76  CONDITIONAL DELETION OF INSULIN AND IGF1 RECEPTORS IN STEROIDOGENIC CELLS CHANGE PROFILE OF MOLECULAR MARKERS OF MITOCHONDRIAL DYNAMICS IN HEARTS OF PREPUBERTAL MALE, BUT NOT FEMALE MICE
Radovic SM, Starovlah IM, Nef S, Kostic TS, Andric SA
Laboratory for Reproductive Endocrinology and Signaling, Laboratory for Chronobiology and Aging, Centre of Excellence CeRES, Faculty of Sciences, University of Novi Sad, Novi Sad, Serbia
P77  CYP2C19*2 VARIANT IS A PREDICTOR OF POOR CLOPIDOGREL RESPONSE AND CAN BE BASE FOR THE ECONOMICALLY RATIONALIZED ANTIAGREGATION THERAPY PROTOCOL IN SERBIAN POPULATION
Rakicevic Lj1, Novkovic M1, Kusic Tisma J1, Matic D2, Antonijevic A2, Backovic D3, Calija B4, Strugarevic E4, Radak D4,5, Kovac M5,6, Mitropoulou C7, van Schaik R7, Fragoulakis V8,9, Vozikis A10, Patronos G8, Radojkovic D1
1Institute of Molecular Genetics and Genetic Engineering, University of Belgrade, 2Cardiology Clinic, Clinical Center of Serbia, 3Faculty of Pharmacy, University of Belgrade, 4Institute for Cardiovascular Diseases Dedine, 5Faculty of Medicine, University of Belgrade, 6Blood Transfusion Institute of Serbia, Hemostasis Department, Belgrade, Serbia, 7Department of Clinical Chemistry, Erasmus University Medical Center, Rotterdam, The Netherlands, 8Department of Pharmacy, School of Health Sciences, University of Patras, Patras, 9National School of Public Health, Athens, 10Economics Department, University of Piraeus, Piraeus, Greece

P78  THE IMPACT OF SEX-DIMORPHISM ON DOXORUBICIN INDUCED CARDIOTOXICITY ON MYOCARDIAL FUNCTION AND REDOX STATUS OF ISOLATED RAT HEART
Rankovic M1, Bradic J1, Radonjic K1, Srejovic I2, Zivkovic V2, Vucicevic K1, Jeremic N1, Bolevich S3, Jakovljevic V2,3
1Department of Pharmacy, Faculty of Medical Sciences, University of Kragujevac, 2Department of Physiology, Faculty of Medical Sciences, University of Kragujevac, Kragujevac, Serbia, 3Department of Human Pathology, 1st Moscow State Medical, University IM Sechenov, Moscow, Russian Federation

P79  EFFECTS OF DIFFERENT DIETS ON PLASMA BIOCHEMICAL PARAMETERS
Rankovic S, Debeljak Martacic J, Popovic T, Pokimica B, Petrovic Oggiano G, Glibetic M
Centre of Research Excellence in Nutrition and Metabolism, Institute for Medical Research, University of Belgrade, Belgrade, Serbia

P80  SWIMMING ATTENUATES BLOOD PRESSURE AND OXIDATIVE STRESS IN HIGH SALT-INDUCED HYPERTENSIVE RATS
Ravic M1, Plecevic S2, Bolevich S3, Jeremic J1, Bolevich S4, Nikolic Turnic T1, Jakovljevic V4,5, Jeremic N1
1Department of Pharmacy, Faculty of Medical Sciences, University of Kragujevac, 2Sports Medicine Association of Serbia, Belgrade, 3Department of Pathophysiology, 1st Moscow State Medical, University IM Sechenov, 4Department of Human Pathology, 1st Moscow State Medical, University IM Sechenov, Moscow, Russian Federation, 5Department of Physiology, Faculty of Medical Sciences, University of Kragujevac, Kragujevac, Serbia
P81 DIETARY FATS INTAKE AND OMEGA-3 INDEX IN HYPERTENSIVE AND DIABETIC PATIENTS WITH CHRONIC KIDNEY DISEASE - A PILOT STUDY
Ristic Medic D1, Takic M1, Zekovic M1, Vucic V1, Petrovic S1, Arsic A1, Radjen S2
1Centre of Research Excellence in Nutrition and Metabolism, Institute for Medical Research, University of Belgrade, 2Faculty of Medicine, Military Medical Academy, University of Defense, Belgrade, Serbia

P82 EFFECTS OF FRUCTOSE-RICH DIET AND CHRONIC STRESS ON INSULIN SIGNALING IN THE HEART OF MALE RATS
Romic S1, Djordjevic A2, Tepavevic S1, Culafic T1, Stojiljkovic M1, Bursac B2, Stanisic J1, Kostic M1, Gligorovska Lj2, Koricanac G1
1Laboratory for Molecular Biology and Endocrinology, Vinca Institute of Nuclear Sciences, University of Belgrade, 2Department of Biochemistry, Institute for Biological Research “Sinisa Stankovic”, University of Belgrade, Belgrade, Serbia

P83 IN VIVO KNOCKDOWN OF SK3 CHANNELS USING LNA GAPMERS PROTECTS AGAINST ATRIAL FIBRILLATION IN RATS: A NOVEL APPROACH FOR STUDYING CARDIAC ELECTROPHYSIOLOGY
Saljic A1, Soattin L, Tracchel D, Boddum K, Jespersen T
Department of Biomedical Sciences, Laboratory of Cardiac Physiology, Faculty of Health and Medical Sciences, University of Copenhagen, Copenhagen, Denmark

P84 MODULATION OF SALT APPETITE THROUGH CENTRAL KAPPA OPIOID SYSTEM
Sarenac O1,2, Savic B2, Japundzic Zigon N2, Murphy D1
1Molecular Neuroendocrinology Research Group, The Henry Wellcome Laboratories for Integrative Neuroscience and Endocrinology, University of Bristol, Bristol, United Kingdom, 2Institute of Pharmacology, Clinical Pharmacology and Toxicology, Faculty of Medicine University of Belgrade, Belgrade, Serbia

P85 ELECTRICAL MAPPING OF SPONTANEOUS VENTRICULAR FIBRILLATION DURING ACUTE MYOCARDIAL INFARCTION IN A PORCINE MODEL
Sattler S1,2, Hesselkilde E3, Orini M4, Taggart P4, Pehrson S1, Jespersen T3, Tfelt-Hansen J1,5
1The Heart Centre, Department of Cardiology, Copenhagen University Hospital, Rigshospitalet, 2Department of Medicine I, University Hospital Munich, Ludwig-Maximilians University Munich (LMU), Munich, Germany, 3Department of Biomedical Sciences, University of Copenhagen, 4Barts Heart Centre, Barts Health NHS Trust, Institute of Cardiovascular Science, University College London, London, United Kingdom, 5Department of Forensic Medicine, Faculty of Medical Sciences, University of Copenhagen, Copenhagen, Denmark
P86 INVOLVEMENT OF SEROTONERGIC AND OPIOIDERIC SYSTEMS IN THE ANTINOCICEPTIVE EFFECT OF KETAMINE-MAGNESIUM SULPHATE COMBINATION IN FORMALIN TEST IN RATS
Savic Vujovic K, Vuckovic S, Medic B, Srebro D, Prostran M
Institute of Pharmacology, Clinical Pharmacology and Toxicology, Faculty of Medicine, University of Belgrade, Belgrade, Serbia

P87 BORDERLINE HYPERTENSIVE RATS OVER-EXPRESS VASSOPRESIN AND V1b RECEPTORS IN THE HYPOTHALAMIC PVN
Savic B1, Martin A2, Murphy D2, Japundzic Zigon N1, Sarenac O1
1Laboratory for Cardiovascular Pharmacology, Institute of Pharmacology, Clinical Pharmacology and Toxicology, Faculty of Medicine University of Belgrade, Belgrade, Serbia, 2Molecular Neuroendocrinology Research Group, Bristol Medical School: Translational Health Sciences, University of Bristol, Bristol, United Kingdom

P88 OXIDATIVE STATUS IN PATIENTS WITH NSTEMI MYOCARDIAL INFARCTION
Savovic Z1, Jakovljevic V2,3, Jeremic J4, Petkovic A4, Iric Cupic V1,5
1Clinic for Cardiology, Clinical Center Kragujevac, 2Department of Physiology, Faculty of Medical Sciences, University of Kragujevac, 3Department of Human Pathology, 1st Moscow State Medical University IM Sechenov, Moscow, Russian Federation, 4Department of Pharmacy, Faculty of Medical Sciences, University of Kragujevac, 5Faculty of Medical Sciences, University of Kragujevac, Kragujevac, Serbia

P89 THE CONNECTION BETWEEN SLEEP QUALITY AND CIGARETTE SMOKING HABIT WITH A BODY MASS INDEX
Smiljic S, Milanovic Z, Nestorovic V, Miletic M, Dejanovic M
Department of Physiology, Faculty of Medicine, University of Pristina Kosovska Mitrovica, Kosovska Mitrovica, Serbia

P90 EFFECTS OF TWO DIFFERENT TYPES OF TRAINING ON MORPHOMETRIC PARAMETERS AND COLLAGEN CONTENT OF THE LEFT VENTRICLE MYOCARDIUM
Sretenovic J1, Jakovljevic B2, Zivkovic V1, Srejovic I1, Milosavljevic Z3, Milosevic V4, Jakovljevic V1,5
1Department of Physiology, Faculty of Medical Sciences, University of Kragujevac, 2Medical College of Applied Sciences in Belgrade, 3Department of Histology and Embriology, Faculty of Medical Sciences, University of Kragujevac, Kragujevac, 4Department of Cytology, Institute for Biological Research “Sinisa Stankovic”, University of Belgrade, Belgrade, Serbia, 5Department of Human Pathology, 1st Moscow State Medical, University IM Sechenov, Moscow, Russian Federation
BIOLOGICAL EFFECTS OF CHRONIC LOW-DOSE EXPOSURE OF HUMAN ENDOTHELIAL CELL LINE EA.hy926 TO BISPHENOL A
Stanic B, Kokai D, Andric N

PSYCHOPHYSIOLOGICAL STRESS CHANGES TRANSCRIPTIONAL PROFILE OF MOLECULAR MARKERS OF MITOCHONDRIAL DYNAMICS IN HEARTS OF ADULT MALE RATS
Starovlah IM, Radovic SM, Kostic TS, Andric SA

OLEUROPEIN MODERATELY AFFECTS PHENYLEPHRINE-INDUCED RAT AORTA CONTRACTIONS
Stojiljkovic N, Ilic S, Stojanovic N, Stoiljkovic M

TROTONIN AND THE ONSET OF CARDIOVASCULAR DISEASES IN PATIENTS WITH CHRONIC KIDNEY DISEASE
Stopic B, Medic Brkic B, Stojanovic M, Todorovic J, Savic Vujovic K, Davidovic Z, Dimkovic N

NOVEL INSIGHTS INTO VASCULAR PROTECTION OF METFORMIN IN EXPERIMENTAL SETTING OF ENDOTHELIAL DYSFUNCTION
Sturza A, Ionica LN, Aburel OM, Noveanu L, Muntean DM

1Department of Biology and Ecology, Faculty of Sciences, University of Novi Sad, Novi Sad, Serbia
Laboratory for Reproductive Endocrinology and Signaling, Laboratory for Chronobiology and Aging, Centre of Excellence CeRES, Faculty of Sciences, University of Novi Sad, Novi Sad, Serbia

1Department of Physiology, Faculty of Medicine, University of Nis, 2Faculty of Medicine, University of Nis, 3Department of Pharmacology, Faculty of Medicine, University of Nis, Nis, Serbia

1Clinical Department for Renal Diseases, Zvezdara University Medical Center, 2Department of Pharmacology, Clinical Pharmacology and Toxicology, Faculty of Medicine, 3Institute of Social Medicine, Faculty of Medicine, University of Belgrade, Belgrade, Serbia

1Department of Pathophysiology, 2Center for Translational Research and Systems Medicine, “Victor Babes” University of Medicine and Pharmacy, Timisoara, Romania
P96  ASSESSMENT OF VITAMIN D EFFECTS ON OXIDATIVE STRESS IN VARICOSE VEINS HARVESTED FROM OBESE AND NON-OBESE PATIENTS
Sturza A1,*, Ratiu S2, Olariu S2, Muntean DM1,*
1Department of Functional Sciences - Pathophysiology,*Center for Translational Research and Systems Medicine, 2Department of Surgery II - 1st Clinic of Surgery, Faculty of Medicine, "Victor Babes" University of Medicine and Pharmacy, Timisoara, Romania

P97  THE ROLE OF Na+/Ca2+ EXCHANGER IN THE Ca2+-GOVERNED ALTERNANS IN CANINE AND HUMAN MYOCARDIUM
Szlovak J1, Toth N1, Gazdag P1, Tomek J2, Pollesello P3, Virag L1, Papp JG1, Varro A1, Nagy N1
1University of Szeged, Department of Pharmacology and Pharmacotherapy, Szeged, Hungary, 2University of Oxford, Life Sciences Interface DTC, Oxford, United Kingdom, 3Orion Pharma, Espoo, Finland

P98  THE OMEGA-3 INDEX IN RECREATIONAL RUNNERS-PILOT STUDY
Takic M, Pantovic A, Stevanovic V, Kardum N, Zekovic M, Glibetic M
Institute for Medical Research, Center of Excellence in Research of Nutrition and Metabolism, University of Belgrade, Belgrade, Serbia

P99  STATIC MAGNETIC FIELD REDUCES BP VARIABILITY AND ENHANCES BARO-RECEPTOR REFLEX SENSITIVITY IN SHRATS
Tasic T1, Djordjevic D2, De Luka SR2, Trbovic A2, Japundzic Zigon N3
1Faculty of Dentistry, University of Belgrade, 2Institute of Pathophysiology, Faculty of Medicine, University of Belgrade, 3Institute of Pharmacology, Clinical Pharmacology and Toxicology, Faculty of Medicine, University of Belgrade, Belgrade, Serbia

P100  ACTUAL LEVEL OF [Ca2+]i CRITICALLY INFLUENCES THE EFFECT OF Na+/Ca2+ EXCHANGER INHIBITION IN THE SINUS NODE PACEMAKING
Toth N1, Szlovak J1, Loewe A3, Bitay G1, Gazdag P1, Pollesello P4, Papp JG1,2, Varro A1,2, Nagy N1,2
1Department of Pharmacology and Pharmacotherapy, Faculty of Medicine, University of Szeged, 2MTA-SZTE Research Group of Cardiovascular Pharmacology, Hungarian Academy of Sciences, Szeged, Hungary, 3Karlsruhe Institute of Technology (IBT), Institute of Biomedical Engineering, Karlsruhe, Germany, 4Orion Pharma, Espoo, Finland
P101 CARDIAC SPECIFIC DELETION OF BRANCHED CHAIN AMINOTRANSFERASE INCREASES INSULIN SENSITIVITY IN THE MOUSE HEART
Cardiovascular Research Centre, University of Alberta, Edmonton, Canada

P102 ANTIARRHYTHMIC AND CARDIAC ELECTROPHYSIOLOGICAL EFFECTS OF SZV-270, A NOVEL COMPOUND WITH COMBINED CLASS I/B AND CLASS III EFFECTS, IN RABBITS AND DOGS
Varga R¹, Hornyik T¹, Husti Z¹, Juhasz V¹, Matyus P¹, Varro A¹,², Baczko I¹
¹Department of Pharmacology and Pharmacotherapy, University of Szeged, ²MTA-SZTE Research Group of Cardiovascular Pharmacology, Hungarian Academy of Sciences, Szeged, Hungary

P103 CALCIUM-ACTIVATED CHLORIDE CURRENT IS ANTIARRHYTHMIC BY REDUCING BOTH SPATIAL AND TEMPORAL HETEROGENEITY OF CARDIAC REPOLARIZATION
Veress R¹, Hegyi B¹,², Horvath B¹, Vaczi K¹,³, Gonczi M¹, Kistamas K¹, Ruzsnavszky F¹,³, Izu LT³, Chen-Izu Y³,⁴,⁵, Banyasz T¹, Magyar J¹,², Csernoch L¹, Nanasi PP¹,², Szentandrassy N¹,³
¹Department of Physiology, Faculty of Medicine, University of Debrecen, ²Department of Pharmacology, University of California, Davis, ³Department of Cardiology, Clinical Center, University of Debrecen, ⁴Department of Biomedical Engineering, Genome and Biomedical Science Facility, University of California, Davis, ⁵Department of Internal Medicine, Division of Cardiology, Genome and Biomedical Science Facility, University of California, Davis, USA, ⁶Division of Sport Physiology, Department of Physiology, Faculty of Medicine, University of Debrecen, ⁷Department of Dental Physiology and Pharmacology, Faculty of Dentistry, University of Debrecen, Debrecen, Hungary
P104 ALTERATIONS OF FIBRINOLYSIS IN WOMEN WITH RHEUMATOID ARTHRITIS: CORRELATION TO CLOT LYSIS TIME
Vranic A1, Antovic J2,3, Veselinovic M4, Pruner I2, Petkovic A1, Jakovljevic V5,6, Antovic A7
1Department of Pharmacy, Faculty of Medical Sciences, University of Kragujevac, 2Department of Molecular Medicine and Surgery, Karolinska Institutet, 3Clinical Chemistry, Karolinska University Hospital, 4Department of Internal Medicine, Faculty of Medical Sciences, University of Kragujevac, 5Department of Physiology, Faculty of Medical Sciences, University of Kragujevac, Kragujevac, Serbia, 6Department of Human Pathology, 1st Moscow State Medical University IM Sechenov, Moscow, Russian Federation, 7Department of Medicine, Karolinska Institutet, Solna, Rheumatology Unit and Academic Specialist Center, Center for Rheumatology, Stockholm Health Services, Stockholm, Sweden

P105 RATE PRESSURE AND OBSTRUCTIVE APNEA
Vuckovic Filipovic J1, Jakovljevic V2, Davidovic G1,3, Djokic B4, Iric Cupic V1,3
1Clinic of Cardiology, Clinical Center Kragujevac, 2Department of Physiology, Faculty of Medical Sciences, University of Kragujevac, 3Department of Internal Medicine, Faculty of Medical Sciences, University of Kragujevac, 4Clinic of Pulmology, Clinical Center Kragujevac, Kragujevac, Serbia

P106 CARDIOPROTECTIVE MECHANISMS OF A SYNTHETIC EPOXYEICOSANOID MIMETIC DEVELOPED FOR THE TREATMENT OF ATRIAL FIBRILLATION
Wesser T1, Konkel A1, Lossie J1, Dobrev D2, Seubert J3, Fischer R1, Schunck WH4
1OMIECOS Therapeutics GmbH, Berlin, 2Institute of Pharmacology, University Duisburg-Essen, 3Faculty of Pharmacy and Pharmaceutical Sciences, University of Alberta, Edmonton, Canada, 4Max Delbrueck Center for Molecular Medicine, Berlin, Germany

P107 SOCS3 GENE THERAPY PREVENTS INTIMAL HYPERPLASIA AND RESTENOSIS FOLLOWING BALLOON ANGIOPLASTY IN CORONARY ARTERY DISEASE
Wilson V
Queen’s University Belfast School of Medicine, Belfast, United Kingdom

P108 PERINEURAL MIGRATION OF STEM CELLS ALONG CRANIAL NERVES FOR CORRECTION OF IMPAIRED FUNCTIONS OF BRAIN AND VISCERAL ORGANS
Zamaro AS
Brain Center, Institute of Physiology, National Academy of Sciences, Minsk, Belarus
P109  ARE INDIVIDUAL CIRCULATING FATTY ACIDS PROMISING CARDIOMETABOLIC BIOMARKERS? FINDINGS FROM A COHORT STUDY AND A RANDOMIZED INTERVENTION STUDY TOWARDS PERSONALIZED NUTRITION STRATEGIES BASED ON NUTRIGENETICS
Zec M1, Smuts CM2, Schutte AE3,4, Kruger HS2, Stojkovic Lj5, Ojwang AA2, Zivkovic M5, Stankovic A5, Glibetic M1
1Center of Research Excellence in Nutrition and Metabolism, Institute for Medical Research, University of Belgrade, 2Center of Excellence in Nutrition, North-West University, Potchefstroom, 3Hypertension in Africa Research Team (HART), North-West University, Potchefstroom, 4Medical Research Council Unit: Hypertension and Cardiovascular Disease, North-West University, Potchefstroom, South Africa, 5Laboratory for Radiobiology and Molecular Genetics, Vinca Institute for Nuclear Sciences, University of Belgrade, Belgrade, Serbia

P110  CARDIOPROTECTIVE EFFECTS OF SIMVASTATIN AGAINST ENDOTOXIN-INDUCED APOPTOSIS OF CARDIOMYOCYTES
Nezic L1,2, Skrbic R1,2, Amidzic LJ1,3, Stojiljkovic MP1,4, Jacevic V5,6,7
1Department of Pharmacology, Toxicology and Clinical Pharmacology, Faculty of Medicine, University of Banja Luka, Banja Luka, 2Center for Biomedical Research, Faculty of Medicine, University of Banja Luka, Banja Luka, 3Institute of Pathology, University Clinical Center, Faculty of Medicine, University of Banja Luka, Banja Luka, Republic of Srpska, Bosnia and Herzegovina, 4Dedinje Cardiovascular Institute, Belgrade, 5Department of Chemistry, Faculty of Science, University of Hradec Kralove, Hradec Kralove, Czech Republic, 6National Poison Control Centre, Military Medical Academy, Belgrade, 7Faculty of Medicine, Military Medical Academy, University of Defense, Belgrade, Serbia

NOTICE FOR POSTER AWARDS COMPETITION:

Posters will be evaluated by 4 different committees (3 judges in each committee) for the following 12 Posters Awards:
Morris Karmazyn Poster Awards – 4
Margaret Moffat Poster Awards – 4
Karl Werdan Poster Awards – 2
Keld Kjeldsen Poster Awards – 2
IMPORTANT INFORMATION

MEETING DATE - September 11\textsuperscript{th}-14\textsuperscript{th}, 2019

MEETING VENUE

Venue for Main Meeting: Hotel Fontana, Vrnjacka Banja, Serbia
(Date: September 11\textsuperscript{th}-14\textsuperscript{th}, 2019) (participation upon registration only)
Venue for Cardiology Pre-Meeting: Hotel Sumarice, Kragujevac, Serbia
(Date: September 10\textsuperscript{th}, 2019)

REGISTRATION DESK

The pre-meeting and meeting desk will be open on:

- September 10\textsuperscript{th} 13.00 – 18.15
- September 11\textsuperscript{th} 15.00 – 19.30
- September 12\textsuperscript{th} 08.30 – 19.30
- September 13\textsuperscript{th} 08.30 – 20.00
- September 14\textsuperscript{th} 08.30 – 13.00

REGISTRATION FEE

<table>
<thead>
<tr>
<th>Category</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>PARTICIPANTS</td>
<td>150 €</td>
</tr>
<tr>
<td>STUDENTS</td>
<td>100 €</td>
</tr>
<tr>
<td>*Certificate/Confirmation required</td>
<td></td>
</tr>
<tr>
<td>CME Participants</td>
<td>100 €</td>
</tr>
</tbody>
</table>

Full registration fee includes one reception, 3 lunches, two dinners, coffee breaks and local transport in addition to conference material. Registration fee for all participants should be 150 Euros except for invited speakers, students and CME registrants.
NOTICE:

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

Intermediary Bank / Correspondent Bank
SWIFT - BIC: DEUTDEFF
Name: DEUTSCHE BANK AG
City, Country: FRANKFURT AM MAIN, GERMANY

Account with institution / Beneficiary's Bank
SWIFT - BIC: KOBBRSBG
Name: KOMERCIJALNA BANKA AD BEOGRAD
Street: Svetog Save 14
City, Country: 11000 Belgrade, Republic of Serbia

Beneficiary
IBAN/Account Number: RS35205007080003380087
Company name: DFS BEOGRAD
Street: Dr. Subotica 8
City, Country: Beograd - Savski venac, 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 the Serbian Physiological Society number: 205-40932-94 KOMERCIJALNA BANKA A.D.
CME ACCREDITED PROGRAM FOR
HEALTH PROFESSIONALS

6th Meeting of European Section and 7th Meeting of North American Section of the International Academy of Cardiovascular Sciences with general topic entitled “Cardiometabolic diseases: how new research may lead to new cardioprotective therapy (evidence No. A-1-1917/19)” has been accredited for continuing education program (physicians, dentists, pharmacists, biochemists) by the Health Council of Serbia (accreditation No. 153-02-01685/2019-01, date 19.08.2019.) with a number of credits for speaker 10, oral presenter 9, poster presenter 7, and participant 6.

In addition three accredited courses for health practitioners will be provided too, ie:

- **ANTIPLATELET THERAPY – THIENOPYRIDINE DERIVATIVES**
  - Accreditation No. D-1-1096/18 (participants are physicians, pharmacists, pharmaceutical technicians)
  - Continuing education program accredited by the Health Council of Serbia No. 153-02-3135/2018-01
  - Number of credits: 5

- **ORAL ANTICOAGULANTS – NON VITAMIN K ANTAGONIST**
  - Accreditation No. D-1-1097/18 (participants are physicians, pharmacists, pharmaceutical technicians)
  - Continuing education program accredited by the Health Council of Serbia No. 153-02-3135/2018-01
  - Number of credits: 5

- **GUIDELINES FOR THE TREATMENT OF HYPERTENSION IN ADULTS: SIMILARITIES AND DIFFERENCES**
  - [2017 ACC/2018 ESH/ESC (2017 American College of Cardiology Guidelines vs. 2018 European Society of Hypertension/European Society of Cardiology Guidelines)]
  - Accreditation No. A-1-2524/18 (participants are physicians, pharmacists, pharmaceutical technicians)
  - Continuing education program accredited by the Health Council of Serbia No. 153-02-3135/2018-01
  - Number of credits: 5
OFFICIAL LANGUAGE

Official language of the meeting will be English, however for the accredited CME three day-courses for health practitioners Serbian language will be used as well. No simultaneous translation will be provided. All accepted abstracts will be published in English.

ORAL PRESENTATION

Keynote speakers are allocated 30 minutes for their talks. All other speakers are allocated 20 minutes for the presentation with a discussion time according to the final program.

POSTER PRESENTATION

Interactive poster session will be held during the meeting. Authors are requested to mount their posters from 09.00 to 20.00 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.

LUNCH, DINNER OR REFRESHMENT

Full hospitality will be provided to all invited speakers (according to the letters of invitations), and for regularly registered participants with paid registration fee. Refreshment will be also provided on a commercial basis in a restaurant of the meeting venue.

AUDIOVISUAL FACILITIES

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

SOCIAL PROGRAM

The social program will include excursion to countryside and/or intercity tour. Please contact meeting desk for special inquiries.
ACCOMMODATION

Hotel accommodation and arrival/departure service will be organized mainly at special rates. Please contact drvladakgbg@yahoo.com.

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 Local Organizing Committee. If a cancellation is received before August 25th 2019, 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 meeting.

INVITATION FOR FULL-LENGTH PAPERS TO BE PUBLISHED IN AN INTERNATIONAL RECOGNIZED JOURNAL

Certain number of presentations will be selected and invited to be published as a full-length papers in a special issue of an international recognized journal. For this option it will be possible upon invitation and following peer-review procedure only.

ORGANIZING & PROGRAM COMMITTEE CONTACTS

Vladimir Lj. Jakovljevic, MD, PhD, FIACS
Professor of Physiology and Dean
Department of Medical Physiology
Faculty of Medical Sciences, University of Kragujevac
str. Svetozara Markovica 69, P.O.Box 124
34000 Kragujevac, Serbia
tel. +381 34 34 29 44
fax. +381 34 30 68 00 / ext. 112
E-mail: drvladakgbg@yahoo.com

Dragan M. Djuric, MD, PhD, FIACS
Professor of Physiology
Institute of Medical Physiology
"Richard Burian", Faculty of Medicine, University of Belgrade
str. Visegradska 26/II
11000 Belgrade, Serbia
tel. +381 11 36 07 112
fax. +381 11 36 11 261
E-mail: drdjuric@eunet.rs, dr_djuric@yahoo.com
THE MEETING HAS BEEN SUPPORTED BY:

International Academy of Cardiovascular Sciences
Serbian Association for Arteriosclerosis, Thrombosis and Vascular Biology Research
Faculty of Medical Sciences University of Kragujevac
Faculty of Sciences University of Novi Sad
Faculty of Medicine University of Belgrade
Medical and Spa Resort Merkur (Vrnjacka Banja)
Autonomous Province of Vojvodina

Pfizer Inc.
AstraZeneca plc
Hemofarm a.d.
PharmaSwiss d.o.o.
Alkaloid AD Skopje
Novo Nordisk A/S
Servier Laboratories
Mylan N.V.
Krka d.d.
Actavis

ACKNOWLEDGEMENT OF CONTRIBUTIONS:

Experimental Cardiology Laboratory, Winnipeg, Canada
St. Boniface Hospital Albrechtsen Research Centre, Winnipeg, Canada
Dr. Roberto Bolli, Louisville, USA
Dr. Gary Lopaschuk, Edmonton, Canada
Dr. Morris Karmazyn, London (Ontario), Canada
Reviews in Cardiovascular Medicine
Canadian Journal of Physiology and Pharmacology