



„VICTOR BABES“ UNIVERSITY
OF MEDICINE AND PHARMACY
FROM TIMISOARA



9th European Section Meeting of the International Academy of Cardiovascular Sciences



october
4 | 7
2023

PROGRAMME

Dear Colleagues,

It is our great pleasure to welcome you to the **9th European Section Meeting of the International Academy of Cardiovascular Sciences (IACS-ES)**, in Timișoara, Romania.

The meeting will be held between October 4th – 7th, at "Victor Babeș" University of Medicine and Pharmacy from Timișoara, the largest medical university with international accreditation from Western Romania.

We kindly invite you to participate in this fascinating scientific meeting focusing on the following scientific topics:

Pathophysiology and Therapeutics of Heart Failure

Basic and Translational Approaches in Cardiac Arrhythmias

Myocardial Ischemia-Reperfusion Injury: Mechanisms and Cardioprotective Strategies

Cardiovascular Dysfunction and Adaptation to Stress

Pathomechanisms and Therapeutic Targets in Cardiometabolic Diseases

Cardiovascular Dysfunction Due to Toxicity

Natural Compounds, Ageing and Cardiovascular Risk

Comorbidities and Novel Therapeutic Strategies in Cardiovascular Diseases

Cardiac Regeneration and Response to Infection

Novel Targets and Therapies in Cardiovascular Diseases: What Animal Models Have Taught Us?

Novel Biomarkers, Therapeutic Targets and Unusual Cases: What Humans Have Taught Us?

The meeting will feature both basic science and clinical sessions, including lectures of invited speakers and free oral communications selected from submitted abstracts. It will serve as a platform for the exchange of new ideas and concepts and will offer a great educational opportunity for advancing career development of early and mid-career trainees, personal interactions and networking for all the participants.

We would like to provide the opportunity for several young investigators to present their latest research results and compete in both oral and poster sessions; we also strongly encourage the attendance of undergraduate students.

In addition to the thought-provoking conference, the organizers wish to inform you that Timișoara is one of three nominated European Capitals of Culture 2023, having as slogan a vivid message: "Shine Your Light!" and promise you lasting impressions besides the productive exchanges.

We cordially invite you to join us, shine your light at this meeting, renew old friendships, and make new ones!

With best regards,

Prof. Danina M. Muntean, MD, PhD

Chair of the Meeting

Honorary Chair of the Meeting: Prof. Naranjan S. Dhalla, PhD, MD (Hon), DSc (Hon)

President of the Meeting: Prof. Octavian M. Crețu, MD, PhD, Rector of the University

Main organizers, Vice Rectors of the University:

Prof. Claudia Borza, MD, PhD

Prof. Daniel Lighezan, MD, PhD

Prof. Cristian Oancea, MD, PhD

If we let our own light shine, we unconsciously give other people permission to do the same. (Nelson Mandela)

Meeting Venue:

“Victor Babeş” University of Medicine and Pharmacy from Timișoara
E. Murgu Sq., nr. 2, 300041 Timișoara, Romania



Organizing secretariat:

Dr. Adrian Sturza, MD, PhD - Director of the Local Organizing Committee

Dr. Maria D. Dănilă, MD, PhD

Department of Functional Sciences – Pathophysiology,
Centre for Translational Research and Systems Medicine,
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Organizing Committees

International Organizing Committee

Naranjan Dhalla, CEO, IACS (Winnipeg, Canada)

Vladimir Jakovljevic, President IACS-Europe (Kragujevac, Serbia)

Grant Pierce, President IACS (Winnipeg, Canada)

András Varró, President-Elect IACS (Szeged, Hungary)

Michael Czubryt, President IACS North-American Section (Winnipeg, Canada)

István Baczkó, Secretary General IACS-Europe (Szeged, Hungary)

Local Organizing Committee

(Members and Collaborators of the Center for Translational Research and Systems Medicine,
University Advanced Research Center)

Oana M. Aburel

Maria D. Dănilă

Cristina A. Dehelean

Dan Gaiță

Ana Lascu

Ioana M. Mozoș

Adrian Sturza

Sorin Ursoniu

Overview of Conference Programme

DAY 1 (October 4, 2023) <i>Aula Magna Hall</i>	
12:00 -	Registration – Central Lobby of the University
15:00 - 15:30	OPENING CEREMONY / WELCOME MESSAGES Danina Muntean (Romania, Chair of the Meeting) Vladimir Jakovljevic (Serbia, President of IACS-ES) Naranjan Dhalla (Canada, Honorary Life President of IACS) Grant Pierce (Canada, President of IACS) András Varró (Hungary, President elect of IACS)
15:30 - 16:00	IACS RECOGNITIONS: Presentation by Profs. Grant Pierce, Vladimir Jakovljevic, and András Varró 1. Lifetime Achievement Award: Prof. Octavian Crețu , Rector of "Victor Babeș" University of Medicine and Pharmacy from Timișoara, Romania 2. Distinguished Leadership Awards: Prof. Daniel Lighezan, Vice-Rector for Education, "Victor Babeș" University of Medicine and Pharmacy from Timișoara, Romania Prof. Claudia Borza, Vice-Rector for International Affairs, "Victor Babeș" University of Medicine and Pharmacy of Timisoara, Romania 3. Distinguished Service Award: Assoc. Prof. Adrian Sturza, Director of the Organizing Committee, "Victor Babeș" University of Medicine and Pharmacy of Timișoara, Romania
16:00 - 16:30	UNIVERSITY RECOGNITIONS: Presentation by Profs. Octavian Crețu, Daniel Lighezan and Claudia Borza 1. Lifetime Leadership in Cardiovascular Sciences Award: Prof. Naranjan Dhalla, University of Manitoba, Canada 2. Excellence in Cardiovascular Research Awards: Prof. Roberto Bolli, University of Louisville, USA Prof. Zoltán Papp, University of Debrecen, Hungary 3. Visiting Professor Title: Prof. Vladimir Jakovljevic, University of Kragujevac, Serbia
16:30-19:00	PLENARY LECTURES
Chairs:	Vladimir Jakovljevic (Serbia), Danina Muntean (Romania)
16:30-17:00	Naranjan Dhalla Honorary Lecture Gerd Heusch (Essen, Germany) <i>Remote Ischemic Conditioning and Its Translation</i>
17:00-17:05	Presentation of Naranjan Dhalla Honorary Lecture Award
17:05-17:35	Rodolphe Fischmeister (Paris, France) <i>Enhancing Cardiac Phosphodiesterase Activity: A Therapeutic Strategy in Heart Failure?</i>
17:35-18:00	Coffee Break
Chairs:	István Baczkó (Hungary), Andrei Motoc (Romania)

18:00-18:30	Michael Czubryt (Winnipeg, Canada) <i>Scleraxis: A Master Regulator of Wound Healing and Scarring</i>
18:30-19:00	Devendra Agrawal (Pomona, USA) <i>Novel Therapeutic Targets to Prevent Atherosclerotic Plaque Burden and Rupture</i>
19:00 -	Welcome Reception (University building)
DAY 2 (October 5, 2023) <i>Parallel sessions in Aula Magna Hall, Senate Hall and Iagnov Hall</i>	
08:30-10:25	Session 1 – Pathophysiology and Therapeutics of Heart Failure I <i>Aula Magna Hall</i>
Session chairs:	Zoltán Papp (Hungary), Lucian Petrescu (Romania)
08:30-08:55	David Eisner (Manchester, UK) <i>Calcium Entry Into the Ventricular Myocytes: Beyond the L-Type Calcium Current</i>
08:55-09:20	Zoltán Papp (Debrecen, Hungary) <i>From Myosin Activation to Myosin Inhibition for the Treatment of Cardiac Diseases</i>
09:20-09:45	Coert Zuurbier (Amsterdam, The Netherlands) <i>Direct Cardiac Effect of SGLT2 Inhibitors: The Sodium Interactome</i>
09:45-10:10	Dan Gaiță (Timișoara, Romania) <i>Is SGLT2 Inhibition the Perfect Pathway to Heart Failure Prevention?</i>
10:10-10:25	Dan-Alexandru Cozac (Târgu Mureș, Romania) <i>Effects Of Chronic Beta-Blockers Therapy On In-Hospital Outcomes In Patients With ST-Segment Elevation Myocardial Infarction Treated With Primary Percutaneous Coronary Intervention</i>
08:30-10:25	Session 2 – Basic and Translational Approaches in Cardiac Arrhythmias <i>Senate Hall</i>
Session chairs:	José Jalife (Spain), Torsten Christ (Germany)
08:30-08:55	Torsten Christ (Hamburg, Germany) <i>Engineered Heart Tissue Based on Human Induced Pluripotent Stem Cell Derived Atrial Cardiomyocytes: A Useful Model To Study Human Atrial Electrophysiology?</i>
08:55-09:20	José Jalife (Madrid, Spain) <i>Dysfunction of the Na_v1.5-Kir2.1 Channelosome and the Mechanism of Arrhythmias in Inherited Channelopathies</i>
09:20-09:45	István Baczkó (Szeged, Hungary) <i>Transgenic Rabbit Models of Congenital LQT Syndromes</i>
09:45-10:10	Norbert Nagy (Szeged, Hungary) <i>Assessment of Cardiac Alternans in a Canine Model of Elite Exercise</i>
10:10-10:25	Băraru-Bojan Iris (Iași, Romania) <i>The Genetic Characteristics Associated With The Prothrombotic Condition In Individuals Diagnosed With Type 2 Diabetes</i>
10:25-11:00	Coffee Break

11:00-12:55	Session 3 – Myocardial Ischemia-Reperfusion Injury: Mechanisms and Cardioprotective Strategies <i>Aula Magna Hall</i>
Session chairs:	Peter Ferdinandy (Hungary), Ranko Škrbić (Bosnia & Herzegovina)
11:00-11:25	Naranjan S. Dhalla (Winnipeg, Canada) <i>Mechanism Defects in Adrenergic Signal Transduction System in Ischemic Heart Disease</i>
11:25-11:50	Peter Ferdinandy (Budapest, Hungary) <i>Development of miRNA Therapeutics for Cardioprotection</i>
11:50-12:15	Rakesh Kukreja (Virginia, USA) <i>cGMP Signaling in Cardioprotection and Beyond</i>
12:15-12:40	Ranko Škrbić (Banja Luka, Bosnia & Herzegovina) <i>Liraglutide, A GLP-1 Receptor Agonist, Attenuates Isoprenaline-Induced Acute Myocardial Injury via Inhibition of the Wnt/B-Catenin Signaling Pathway</i>
12:40-12:55	Nevena Mihailovic-Stanojevic (Belgrade, Serbia) <i>Caffeic Acid Improves Antioxidant Defense And Attenuates Oxidative Stress In Heart Of Spontaneously Hypertensive Rat</i>
11:00-12:55	Session 4 – Cardiovascular Dysfunction and Adaptation to Stress <i>Senate Hall</i>
Session chairs:	Petr Ostadal (Czech Republic), Inna-Rabinovich-Nikitin (Canada)
11:00-11:25	Petr Ostadal (Prague, Czech Republic) <i>Extracorporeal Membrane Oxygenation in the Therapy of Cardiogenic Shock</i>
11:25-11:50	Inna Rabinovich-Nikitin (Winnipeg, Canada) <i>Retinoic Acid-Related Orphan Receptors Regulate Autophagy and Cell Survival in Cardiac Myocytes During Hypoxic Stress</i>
11:50-12:15	Saadeh Suleiman (Bristol, UK) <i>Cardio-resilience Due to Chronic or Brief Stresses: Pathology vs. Conditioning</i>
12:15-12:40	Péter Bencsik (Szeged, Hungary) <i>Immuno-Cardiovascular Diseasome: A Novel Approach to Reveal Confounding Factors Between Myocardial Infarction and Immunological Diseases</i>
12:40-12:55	Jovana Joksimovic-Jovic (Kragujevac, Serbia) <i>Relationship Between Hypertensive-Like Traits in a Rat Model of PCOS and Oxidative Stress</i>
11:00-12:55	Symposium: Cardiometabolic Alterations and Regulation of the Associated Pathways in Mammalian Heart Function and Regeneration I – Iagnov Hall
Session chairs	Belma Turan (Turkey), Suresh Tyagi (USA)
11:00-11:20	Belma Turan (Ankara, Turkey) <i>Comparisons of Pleiotropic Effects of SGLT2 Inhibition and GLP-1 Receptor Agonism on Cardiac Glucose Intolerance</i>
11:20-11:40	Erkan Tuncay (Ankara, Turkey) <i>The Relationship Between Cytosolic/Mitochondrial Labile Zinc Ratio and Mitochondrial Dynamics in Cardiomyocytes: Role of Znt6</i>
11:40-12:00	Yusuf Olgar (Ankara, Turkey) <i>Acute Action of Incretin-Based Therapeutics on Ageing Myocardium</i>

12:00-12:20	Ceylan Verda Bitirim (Ankara, Turkey) <i>Improving Stem Cell-Based Therapy in Cardiac Failure: The Effect of Estrogen on Regenerative Capacity of Cardiac Progenitor Cells</i>
12:20-12:40	Aysegul Durak (Ankara, Turkey) <i>GLP-1 Receptor Agonist Attenuates Ageing-Associated Cardiac Insufficiencies Through Recovery in Mitochondria</i>
12:40-12:55	Anica Petrovic (Kragujevac, Serbia) <i>From Forest o Healing: Development and Evaluation of Pinus Sibirica Essential Oil Based-Topical Gel for Wound Healing in Diabetic Rats</i>
13:00-13:10	GROUP PHOTO in Front of the University
13:10-14:00	Lunch Break (<i>lunch boxes provided</i>) Work Lunch for IACS Officials in Petru Drăgan Hall
14:00-15:55	Session 5 – Pathomechanisms and Therapeutic Targets in Cardiometabolic Diseases <i>Aula Magna Hall</i>
Session chairs:	Denis Angoulvant (France), Vesna Vucic (Serbia)
14:00-14:25	Denis Angoulvant (Tours, France) <i>Targeting Inflammation in Cardiovascular Diseases</i>
14:25-14:50	Vladimir Jakovljević (Kragujevac, Serbia) <i>Sacubitril/Valsartan Promotes White Adipose Tissue Browning in Rats with Metabolic Syndrome</i>
14:50-15:15	Ramaroson Andriantsitohaina (Montpellier, France) <i>NLRP3-Inflammasome Carried by Extracellular Vesicles Validates the Inflammatory Hypothesis of Atherosclerosis in Metabolic Syndrome Patients</i>
15:15-15:40	Vesna Vucic (Belgrade, Serbia) <i>Osteosarcopenic Adiposity - Implications for Cardiometabolic Disorder</i>
15:40-15:55	Vlad-Florian Avram (Timișoara, Romania) <i>Improving Mitochondrial Respiration of Human Platelets With Cell-Permeable Succinate in Metabolic Disease</i>
15:55-16:15	Coffee break
14:00-15:55	Session 6 – Natural Compounds, Ageing and Cardiovascular Risk <i>Senate Hall</i>
	Monika Bartekova (Slovakia), Adrian Sturza (Romania)
14:00-14:25	Monika Bartekova (Bratislava, Slovak Republic) <i>Role of Ageing and Metabolic Comorbidities in Beneficial Effects of Quercetin in Cardiovascular System</i>
14:25-14:50	Isidora Milosavljevic (Kragujevac, Serbia) <i>Melissa Officinalis as Cardioprotective Tool in Experimental Autoimmune Myocarditis</i>
14:50-15:15	Ioana Mozoș (Timișoara, Romania) <i>Arterial Stiffness and Cardiovascular Risk</i>
15:15-15:40	Simona Drăgan (Timișoara, Romania) <i>Cardioprotective Effects of Polyphenols and Future Perspectives for Functional Foods</i>

15:40-15:55	Minodora Andor (Timișoara, Romania) <i>Evaluation of Black Chokeberry Bio Juice Effect on Blood Pressure Levels and Endothelial Damage in Patients Under Chronic Antihypertensive Treatment (Preliminary data)</i>
15:55-16:15	Coffee Break
16:15-17:30	Session 7 – Comorbidities and Novel Therapeutic Strategies in Cardiovascular Diseases <i>Aula Magna Hall</i>
Session chairs:	Ferenc Gallyas (Hungary), Patrycja Kaczara (Krakow, Poland)
16:15-16:40	Ferenc Gallyas (Pécs, Hungary) <i>Protective Effect of Olaparib in Experimental Crohn's Disease</i>
16:40-17:05	Patrycja Kaczara (Krakow, Poland) <i>Pharmacology of Energy Metabolism to Regulate Platelet Activation</i>
17:05-17:30	Ștefan Mihăițuță (Timișoara, Romania) <i>Obstructive Sleep Apnea and Cardiovascular Comorbidities Might Tailor Different Pathogenetic Treatment Strategies</i>
17:15-18:30	POSTER SESSION I (Sport Hall) Chairs: Thomas Jespersen (Denmark), Péter Bencsik (Hungary), Miloš Stojiljković (Bosnia & Herzegovina)
14:30-17:00	<i>Meeting of the MCB Editors (Ms. Aicha Hanna) – Petru Drăgan Hall</i>
DAY 3 (October 6, 2023) <i>Parallel sessions in Aula Magna Hall, Senate Hall and Iagnov Hall</i>	
08:30-10:25	Session 8 – Identifying the Right Targets and Therapeutic Approaches: Uncharted Paths <i>Aula Magna Hall</i>
Session chairs:	Martin Morad (USA), András Varró (Hungary)
08:30-08:55	Martin Morad (Charleston, USA) <i>What Are We Learning From Gene Editing of Human Ryr2 About CPVT1 Arrhythmia and Cardiac EC-Coupling?</i>
08:55-09:20	Antonio Zaza (Milano, Italy) <i>SERCA2a Loss vs. Gain of Function: Which Is Worse?</i>
09:20-09:45	András Varró (Szeged, Hungary) <i>The Electrophysiological Effect of Orange Alkaloid Hesperetin in Dog Cardiac Ventricular Preparations</i>
09:45-10:10	Hector Martinez-Navarro (Oxford, UK) <i>In Silico Trials in Ischemic Heart Disease: The Future of Diagnosis and Treatment</i>
10:10-10:25	Muhammad Naveed (Szeged, Hungary) <i>Arrhythmias Triggered By Medication: The Proarrhythmic Risk Associated With Class I Antiarrhythmics And Cannabinoids</i>
10:25-11:00	Coffee Break
08:30-10:25	Session 9 – Pathophysiology and Therapeutics of Heart Failure II <i>Senate Hall</i>
Session chairs:	Katharine Dibb (UK), Dragoș Cozma (Romania)
08:30-08:55	Katharine Dibb (Manchester, UK)

	<i>Atrial Fibrillation in Heart Failure and Ageing: Understanding the Mechanisms</i>
08:55-09:20	Suresh Tyagi (Louisville, USA) <i>Interoceptive Inhibition of ADAMTS1 and Angiogenic Strategy for Prevention of HFrEF</i>
09:20-09:45	Ruxandra Christodorescu (Timișoara, Romania) <i>New Trends in the Management of Advanced Heart Failure</i>
09:45-10:10	Dragoș Cozma (Timișoara, Romania) <i>From Left Atrial Stretch to Heart Failure</i>
10:10-10:25	Niskala Alisha Annikki (Copenhagen, Denmark) <i>The Role of Colchicine on Cardiac Fibrosis in a Porcine Model of Atrial Fibrillation</i>
10:25-11:00	Coffee break
11:00-12:55	Session 10 – Cardiac Regeneration and Response to Infection <i>Aula Magna Hall</i>
Session chairs:	Roberto Bolli (USA), Grant Pierce (Canada)
11:00-11:25	Roberto Bolli (Louisville, USA) <i>Reparative/Regenerative Cardiology: Hype vs. Reality</i>
11:25-11:50	Grant Pierce (Winnipeg, Canada) <i>Bacterial Infection and Cardiovascular Disease</i>
11:50-12:15	Thomas Jespersen (Copenhagen, Denmark) <i>In Vitro Reprogramming of Fibroblasts From Human Cadavers to Generate iPSC-Cardiomyocytes</i>
12:15-12:40	Sanjiv Dhingra (Winnipeg, Canada) <i>Immuno-Engineering Approaches for Cardiac Regenerative Medicine</i>
12:40-12:55	Abhay Srivastava (Winnipeg, Canada) <i>Development of iPSC-Based Clinical Trial Selection Platform for Patients with Inherited Metabolic and Cardiovascular Disorders</i>
11:00-12:40	Session 11 – Cardiometabolic Diseases – From Pathophysiology to Treatment <i>Senate Hall</i>
Session chairs:	Olga Pechanova (Slovakia), Luca Constantin (Romania)
11:00-11:25	Olga Pechanova (Bratislava, Slovakia) <i>The Role of Nitric Oxide in Metabolic Syndrome: An Experimental Study</i>
11:25-11:50	Pram Tappia (Winnipeg, Canada) <i>High Fructose Diet Induces Cardiovascular Dysfunction</i>
11:50-12:15	Florinela Cătoi (Cluj-Napoca, Romania) <i>Obesity, Metabolic/Bariatric Surgery and Cardiovascular Disease</i>
12:15-12:40	Cristian Mornoș (Timișoara, Romania) <i>Epicardial Adipose Tissue Thickness as Independent Predictor in Coronary Artery Disease: Assessment by Echocardiography</i>
11:00-13:20	Young Investigator Award Competition – Iagnov Hall
Session chairs	Antonio Zaza (Italy), Suleiman Saadeh (UK), Michael Czubyrt (Canada)
11:00-11:20	Jovana Bradic (Kragujevac, Serbia) <i>Gallium Verum Extract As A Novel Cardioprotective Agent Against Doxorubicin-Induced Cardiotoxicity In Rats</i>
11:20-11:40	Bogdan Halatiu (Târgu-Mures, Romania)

	<i>Interleukin-8 Inhibition – A Possible Pathway to Reduce Hemodynamic Complications in Post-Coronary Artery Bypass Grafting Surgery Patients</i>
11:40-12:00	Leto Luana Riebel (Oxford, UK) <i>Human In Silico Trials to Evaluate the Safety of Regenerative Cell Therapy</i>
12:00-12:20	Arnela Saljic (Copenhagen, Denmark) <i>Atrial Fat Infiltration Post Myocardial Infarction in a Göttingen Minipig Model of Obesity</i>
12:20- 12:40	Mélotie Schneider (Copenhagen, Denmark) <i>Metformin Reduces Atrial Fibrillation Inducibility in Horses</i>
12:40- 13:00	Topal Leila (Szeged, Hungary) <i>Increased Arrhythmia Susceptibility Associated With Cardiac Remodelling Following Vigorous Endurance Training in a Canine Athlete's Heart Model</i>
13:00- 13:20	Toth Noemi (Charleston, USA) <i>Calcium Signalling Consequences of Calcium Release Deficiency Associated Ryr2-S4938F and Ryr2-I4855M Mutations Expressed in HiPSC-CMs</i>
13:00-14:00	Lunch Break (<i>lunch boxes provided</i>) Work Lunch for IACS Officials in Petru Drăgan Hall
14:00-15:30	Session 12 – Cardiovascular Dysfunction Due to Toxicity <i>Aula Magna Hall</i>
Session chairs:	Lorrie Kirshenbaum (Canada), Theodora Angoulvant (France)
14:00-14:25	Lorrie Kirshenbaum (Winnipeg, Canada) <i>TRAF2-NF-κB Signaling in Doxorubicin Cardiomyopathy</i>
14:25-14:50	Dinender K. Singla (Orlando, USA) <i>Exosomes Ameliorates Doxorubicin-Induced Cardiomyopathy</i>
14:50-15:15	Theodora Angoulvant (Tours, France) <i>Cardiovascular Toxicities of Cancer Targeted Therapies</i>
15:15-15:30	Relja Suručić (Banja Luka, Bosnia & Herzegovina) <i>Assessing the Inhibition Potential of Punicalin and Urolithin on the SARS-CoV-2 Spike Protein and Neuropilin-1 Receptor: A Comparative In Silico and In Vitro Study</i>
14:00-15:20	Symposium: Cardiometabolic Alterations and Regulation of the Associated Pathways in Mammalian Heart Function and Regeneration II – Iagnov Hall
Session chairs:	Belma Turan (Turkey), Dinender Singla (USA)
14:00-14:20	Ebru Arioglu-Inan (Ankara, Turkey) <i>Diabetic Heart And The Effects of Antidiabetic Drugs On Cardiac Function</i>
14:20-14:40	Gizem Kayki-Mutlu (Ankara, Turkey) <i>The Metabolic Roles of GRK2 in Cardiac Pathologies</i>
14:40-15:00	Asena Gökçay Canpolat (Ankara, Turkey) <i>Glucose Lowering Therapies for Cardiovascular Risk Reduction in Diabetes Mellitus</i>
15:00-15:20	Firat Akat (Ankara, Turkey)

	<i>The Roles of Sirtuins and K-Acetylation in Metabolic Syndrome Associated Heart Remodeling</i>
15:30-16:00	Coffee Break
16:00-17:15	Session 13 – Translational Approaches in Cardiac Arrhythmias <i>Aula Magna Hall</i>
Session chairs:	Norbert Jost (Hungary), Viviana Ivan (Romania)
16:00-16:25	Belma Turan (Ankara, Turkey) <i>The Electrotonic Modulation in Mixed-Mode Electrical Conduction Can Be a Novel Approach for SQT-Characterized Cardiac Remodelling</i>
16:25-16:50	Norbert Jost (Szeged, Hungary) <i>Comparative Study of the Rapid (IKr) and Slow (IKs) Delayed Rectifier Potassium Currents in Undiseased Human, Dog, Rabbit and Guinea Pig Cardiac Ventricular Preparations</i>
16:50-17:15	Viviana Ivan (Timișoara, Romania) <i>Antiarrhythmic Effect of Metabolic Therapy: The Role of Late Potentials In Risk Assessment</i>
16:00-17:15	Session 14 – Natural Compounds in Cardiovascular Protection <i>Senate Hall</i>
Session chairs:	Jerzy Beltowski (Poland), Alina Pârvu (Romania)
16:00-16:25	Miloš Stojiljković (Banja Luka, Bosnia & Herzegovina) <i>Antioxidative Capacity of Pomegranate Peel Extracts: Results of In Vitro and In Vivo Studies</i>
16:25-16:50	Jerzy Beltowski (Lublin, Poland) <i>Green Tea Extract Improves Vasodilating Effect of Insulin on Resistance Arteries in Rats with Metabolic Syndrome By Converting H₂S to Polysulfides</i>
16:50-17:15	Alina Pârvu (Cluj-Napoca, Romania) <i>Cardioprotective Effects of Mahonia Aquifolium Extracts</i>
17:15-18:30	POSTER SESSION II (Sport Hall) Chairs: Devendra Agrawal (USA), Zoltán Papp (Hungary), Vladimir Zivkovic (Serbia)
20:00-24:00 GALA DINNER & AWARDS CEREMONIES (bus transfer provided)	
DAY 4 (October 7, 2023)	
09:00-10:40	Session 15 – Novel Targets and Therapies in Cardiovascular Diseases: What Animal Models Have Taught Us? <i>Aula Magna Hall</i>
Session chairs	Ivan Srejavic (Serbia), Oana Aburel (Romania)
09:00-09:25	Melanie Hezzel (Bristol, UK) <i>A One Health Approach to Cardiovascular Research – What Can Dogs Teach Us About Heart Disease?</i>
09:25-09:50	Slavica Mutavdzin Krneta (Belgrade, Serbia) <i>Effects of Vitamin B6 and Folic Acid on the Cardiovascular System of Rats with Streptozotocin-Induced Diabetes Mellitus</i>
09:50-10:15	Vladimir Zivkovic (Kragujevac, Serbia) <i>The Effects of Different Exercise Types on a Rat Model of Myocardial Ischemia/Reperfusion Injury</i>

10:15-10:40	Ivan Srejovic (Kragujevac, Serbia) <i>The Effects of L-Glutamate on Heart Function, Morphology and Redox Balance in Rats</i>
09:00-10:55	Session 16 – Novel Biomarkers, Therapeutic Targets and Unusual Cases: What Humans Have Taught Us? <i>Senate Hall</i>
Session chairs	Isidora Milosavljevic (Serbia), Caius Streian (Romania)
09:00-09:25	Manuela Ciocoiu (Iași, Romania) <i>The Development of Aortic Wall Aneurysms: Insights Into Molecular and Cellular Mechanisms</i>
09:25-09:40	Stojanovic Aleksandra (Kragujevac, Serbia) <i>The Increased Expression of Extracellular Vesicles In Patients With Rheumatoid Arthritis: Novel Potential Biomarker For Disease Monitoring?</i>
09:40-09:55	Adrian Apostol (Timișoara, Romania) <i>RAS Inhibition Therapy in Dialized Patients and the Effects on Positive Remodelling</i>
09:55-10:10	Caius Streian (Timișoara, Romania) <i>An Unusual Form of Left Ventricular Tumor</i>
10:10-10:25	Ana Lascu (Timișoara, Romania) <i>Concurrent Causes For Acute Severe Right Ventricular Failure In An Apparently Healthy Patient</i>
10:25-10:40	Sonia Rațiu (Timișoara, Romania) <i>Vitamin D Mitigates Oxidative Stress in Varicose Veins Explants From Obese and Non-Obese Patients</i>
10:40-10:55	Răzvan Adrian Bertici (Timișoara, Romania) <i>Evolution and New Etiological Trends in Patients With Pulmonary Arterial Hypertension</i>
11:00-11:15	Closing Remarks (Aula Magna)
12:00-	Social program

Social Program

Welcome Reception will take place at the meeting venue, “Victor Babeș” University of Medicine and Pharmacy of Timișoara, E.Murgu Sq., nr.2 Timișoara, Romania, on Wednesday, October 4.

Gala Dinner will be organized on Friday, October 6. Bus transportation will be arranged.

Other social events will be available on Saturday, October 7, after the end of the meeting. Further information will be provided on-site.

17:15 - 18:30	POSTER SESSION I (Sport Hall, October 5)
Session chairs	Thomas Jespersen (Denmark), Péter Bencsik (Hungary), Miloš Stojiljković (Bosnia & Herzegovina)

- 1. Enache Alexandra (Timișoara, Romania)**
Molecular Autopsy in Long Qt Syndrome in Sudden Unexplained Death Cases
- 2. Gergő Bitay (Szeged, Hungary)**
Investigation of Action Potential and Ca²⁺ Transient Alternans in Canine Athlete's Heart Model
- 3. Beshar Abual'anaz (Winnipeg, Canada)**
Periostin Knock Out Is Causal To Differential Responses Among Male And Female Mice: Cardiac Extracellular Matrix Proteins And Survival
- 4. Haugaard Simon Libak (Copenhagen, Denmark)**
Metformin Attenuates Human Atrial Fibroblast Activation
- 5. Bogdan Carina (Timișoara, Romania)**
The Heart-Covid Connection: Autonomic Dysfunction - Heart Rate Variability and Atrial Fibrillation
- 6. Božidar Pindović (Kragujevac, Serbia)**
The Effects of Hyperbaric Oxygenation and Insulin Treatment on The Myocardial Function And Oxidative Stress In Diabetic Rats
- 7. Demeter-Haludka Vivien (Szeged, Hungary)**
Molecular Mechanisms Behind the Late Cardioprotective Effects of Inorganic Nitrites
- 8. Enyedi Enikő Edit (Debrecen, Hungary)**
Assessment of Factors Deceptively Lowering ACE Activity
- 9. Ionică Loredana (Timișoara, Romania)**
SGLT2 Inhibitors Reduce Monoamine Oxidase Expression And Oxidative Stress In Human Atrial Tissue: A Novel Off-Target Class Effect
- 10. Knudsen Rikke (Copenhagen, Denmark)**
Fibrosis In The Heart Of The Most Commonly Used Animal Models In Atrial Fibrillation Research – A Comparative Study
- 11. Ladányi Lászlóné Déri Szilvia (Szeged, Hungary)**
A Possible Explanation For The Low Penetrance Of Pathogenic Kcnel Variants In Long QT Syndrome Type 5
- 12. Bîrnă Paul (Timișoara, Romania)**
Platelet Mitochondrial Respiratory Dysfunction In Sepsis and Covid-19 Is Alleviated By Cell-Permeable Succinate
- 13. Aiman Mohammed (Szeged, Hungary)**
Hesperetin Decreases The Repolarization Reserve And Inhibits The Slow Delayed Rectifier Potassium Current (I_{ks}) in Dog And Rabbit Cardiac Ventricular Muscle Preparations and Isolated Myocytes - A Proarrhythmic

14.Saljic Arnela (Copenhagen, Denmark)

Atrial Fat Infiltration Post Myocardial Infarction In A Göttingen Minipig Model Of Obesity

15.Bețiu Alina (Timisoara, Romania)

Assessment Of Drug-Induced Mitochondrial Toxicity In Human Platelets Isolated From Buffy-Coat

16.Sárkány Fruzsina (Debrecen, Hungary)

Investigation of the Effects of the Next-Generation Myosin Inhibitor Aficamten On Canine Left Ventricular Isolated Cardiomyocytes

17.Suhov Loredana (Timisoara, Romania)

Thrombophilia and Venous Thromboembolism in Young Patients

18.Szabó Attila Ádám (Debrecen, Hungary)

Investigation of The Biomarker Role of Angiotensin-Converting And Chitotriosidase Enzymes In Various Inflammatory Diseases

19.Vajic Una-Jovana (Belgrade, Serbia)

Effects of Chronic Supplementation With Urtica Dioica L. Leaf Extract And Chlorogenic Acid On Hemodynamic And Biochemical Parameters In Spontaneously Hypertensive Rats

20.Vlădeanu Maria Cristina (Iași, Romania)

Angiotensin Converting Enzyme Gene D-Allele And Stent Restenosis: A Tangled Story

21.Sandu Oana (Timișoara, Romania)

Pulmonary Thromboembolism In Adults Under 50 Years Old

22.Karanović Danijela (Belgrade, Serbia)

Natural Versus Synthetic Antioxidant Supplementation Of Losartan Treatment In Experimental Model Of Hypertension And Chronic Kidney Disease: Is Together Better?

23.Dăniluc Larissa (Timisoara, Romania)

Chemotherapy - Focus on the Mechanisms of Cardiotoxicity

17:15 - 18:30	POSTER SESSION II (Sport Hall, October 6)
Session chairs	Devendra Agrawal (USA), Zoltán Papp (Hungary), Vladimir Zivkovic (Serbia)

- 24. Kezia Jerltorp (Copenhagen, Denmark)**
Electrophysiological Characterisation of Indomethacin in a Porcine Model of Obstructive Sleep Apnea
- 25. Soşdean Raluca (Timișoara, Romania)**
Role of Monoamine Oxidase in the Pathogenesis of Severe Mitral Regurgitation and The Possible Link With The Patients' Comorbidities
- 26. Bajic Zorislava (Banja Luka, Bosnia and Herzegovina)**
Cardioprotective Effects of Pomegranate Peel Extract in Takotsubo-Like Myocardial Injury in Rats
- 27. Dannesboe Johs (Copenhagen, Denmark)**
Understanding Deadly Intravenous Paracetamol-Induced Hypotension
- 28. Đorđe Đukanović (Banja Luka, Bosnia and Herzegovina)**
The Role of TRPA1 Channels in Regulation of the Vascular Tone - 3D QSAR Modeling With Design of Novel TRPA1 Agonists
- 29. Mariș Mihaela-Ioana (Timișoara, Romania)**
Buerger's Disease With Upper Limbs Ischemia in a Female Patient
- 30. Nikolic Marina (Kragujevac, Serbia)**
mTORC1 Activation Is Essential for Sacubitril/Valsartan Stimulation of Subcutaneous White Adipose Tissue Browning
- 31. Baba Mirela (Timișoara, Romania)**
Crosstalk Between Early Vascular Aging, Nonalcoholic Fatty Liver Disease And Insulin Resistance In Patients With Cardiovascular Risk Factors
- 32. Canpolat Gökçay Asena (Ankara, Turkey)**
The Significance of The Body Fat Index And Other Indicators In Identifying Metabolic Subtypes
- 33. Milivojac Tatjana (Banja Luka, Bosnia and Herzegovina)**
Ursodeoxycholic Acid Attenuates Systemic And Liver Inflammation Induced By LPS In Rats
- 34. Ciubotaru Paul-Gabriel (Timișoara, Romania)**
Is a Patient With Hemophilia Protected Against Ischemia?
- 35. Todor Ivanka Marian (Timișoara, Romania)**
Immunotherapy-Mediated Cardiotoxicity in a Patient With Metastatic Melanoma
- 36. Moroz Simina (Timisoara, Romania)**
The Influence of The Relative Parietal Thickness on The Post-Interventional

37. Maličević Uglješa (Banja Luka, Bosnia & Herzegovina)

Levosimendan Attenuates Lung Injury in Intestinal Ischemia-Reperfusion Model In Rats

38. Goje Iacob Daniel (Timișoara, Romania)

Dynamic Right Ventricular Obstruction Complicating Laparoscopic Cholecystectomy in a Patient With Known Atrial Myxoma

39. Kohistani Mosk (Szeged, Hungary)

The Influence of Ulcerative Colitis on Myocardial Infarct Size in a Co-Morbid Model: The Role of Immuno-Cardiovascular Disease Research

40. Nissen Sarah Dalgas (Copenhagen, Denmark)

The Role of M2r-IK, Ach Pathway in the Genesis of Second-Degree Atrioventricular Block in Horses

41. Andjic Marijana (Kragujevac, Serbia)

Wound Healing Effects of an Ointment Containing Helichrysum Italicum Essential Oil

42. Buriman Darius (Timișoara, Romania)

Characterization of Changes in Platelet Mitochondrial Respiration Pre- and PostCardiopulmonary By-Pass

43. Pintér Jenő Antal (Szeged, Hungary)

Altered Cardiac Repolarization Associated With Cellular Electrophysiological Remodeling Following Chronic Testosterone Administration in a Large Animal Model

44. Başak Neslihan (Ankara, Turkey)

Investigation The Cause Cardiac Disorders Due To Spinal Muscular Atrophy At Molecular And Genomic Level

45. Kocovic Aleksandar (Kragujevac, Serbia)

Assessing the Cardioprotective Potential of Usnic Acid in Mitigating Doxorubicin-Induced Cardiotoxicity in Rats

46. Brăescu Laurentiu (Timișoara, Romania)

Effects of Statin Therapy on Epicardial Adipose Tissue: Focus On Oxidative Stress

**Special Acknowledgments to the Companies/Organizations
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