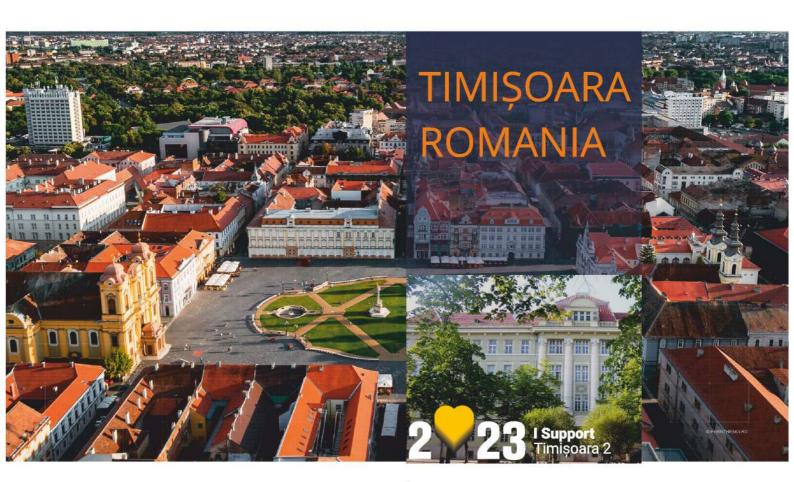




European Section Meeting of the International Academy of Cardiovascular Sciences



october 4 7 2023

PROGRAMME & ABSTRACT BOOK

Editura "Victor Babeş"

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

October 4th – 7th, 2023

Timișoara, Romania



PROGRAMME & ABSTRACT BOOK

Editors: Danina M. Muntean, Maria D. Dănilă, Adrian Sturza

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 Timişoara, Romania.

The meeting will be held between October 4th – 7th, at "Victor Babeş" University of Medicine and Pharmacy from Timişoara, 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 Timişoara 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. Creţu, 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 Timişoara E. Murgu Sq., nr. 2, 300041 Timişoara, 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,

"Victor Babes" University of Medicine and Pharmacy from Timisoara, Romania

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Organizing Committees

International Organizing Committee

Naranjan Dhalla, CEO, IACS (Winnipeg, Canada)

Vladimir Jakovljevic, President IACS-European Section (Kragujevac, Serbia)

Grant Pierce, President IACS (Winnipeg, Canada)

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

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István Baczkó, Secretary General IACS-European Section (Szeged, Hungary)

Local Organizing Committee

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

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Maria D. Dănilă

Cristina A. Dehelean

Dan Gaiță

Ana Lascu

Ioana M. Mozos

Adrian Sturza

Sorin Ursoniu

Overview of Conference Programme

DAY 1 (October 4, 2023)	
Aula Magna Hall	
12:00 -	Registration – Central Lobby of the University
15:00 - 15:30	OPENING CEREMONY / WELCOME MESSAGES
13.00 - 13.30	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)
15:30 - 16:00	András Varró (Hungary, President elect of IACS) IACS RECOGNITIONS:
13.30 - 10.00	Presentation by Profs. Grant Pierce, Vladimir Jakovljevic, and
	András Varró
	1. Lifetime Achievement Award:
	Prof. Octavian Cretu, Rector of "Victor Babes" University of Medicine
	and Pharmacy from Timişoara, Romania
	2. Distinguished Leadership Awards:
	Prof. Daniel Lighezan, Vice-Rector for Education, "Victor Babeş"
	University of Medicine and Pharmacy from Timisoara, Romania
	Prof. Claudia Borza, Vice-Rector for International Affairs, "Victor
	Babeş" University of Medicine and Pharmacy of Timisoara, Romania
	3. Distinguished Service Award:
	Assoc. Prof. Adrian Sturza, Director of the Organizing Committee,
	"Victor Babeş" University of Medicine and Pharmacy of Timișoara,
	Romania
16:00 - 16:30	UNIVERSITY RECOGNITIONS:
	Presentation by Profs. Danina Muntean, 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:
16:30-19:00	Prof. Vladimir Jakovljevic, University of Kragujevac, Serbia PLENARY LECTURES
Chairs:	Vladimir Jakovljevic (Serbia), Danina Muntean (Romania)
16:30-17:00	Naranjan Dhalla Honorary Lecture
10.30-17.00	Gerd Heusch (Essen, Germany)
	Remote Ischemic Conditioning and Its Translation
17:00-17:05	Presentation of Naranjan Dhalla Honorary Lecture Award
17:05-17:35	Rodolphe Fischmeister (Paris, France)
17.05 17.55	Enhancing Cardiac Phosphodiesterase Activity: A Therapeutic Strategy
	in Heart Failure?
15 25 10 00	
17:35-18:00	Coffee Break
Chairs:	István Baczkó (Hungary), Andrei Motoc (Romania)

18:00-18:30	Michael Czubryt (Winnipeg, Canada) Scleraxis: A Master Regulator of Wound Healing and Scarring
18:30-19:00	Devendra Agrawal (Pomona, USA) Novel Therapeutic Targets to Prevent Atherosclerotic Plaque Burden and Rupture
19:00 -	Welcome Reception (University building - sponsored by VOLVO)
	DAY 2 (October 5, 2023)
Pavallal sa	essions in Aula Magna Hall, Senate Hall and Iagnov Hall
08:30-10:25	Session 1 – Pathophysiology and Therapeutics of Heart Failure I
08:30-10:25	Aula Magna Hall
Cassian ahains	
Session chairs: 08:30-08:55	Zoltán Papp (Hungary), Lucian Petrescu (Romania)
08:30-08:33	David Eisner (Manchester, UK)
	Calcium Entry Into the Ventricular Myocytes: Beyond the L-Type
00.55.00.20	Calcium Current
08:55-09:20	Zoltán Papp (Debrecen, Hungary)
	From Myosin Activation to Myosin Inhibition for the Treatment of
00.20 00.45	Cardiac Diseases Count Townships (Associated Brown The Netherslands)
09:20-09:45	Coert Zuurbier (Amsterdam, The Netherlands)
00.45 10.10	Vascular and Myocardial Effects of SGLT2 Inhibitors
09:45-10:10	Dan Gaiță (Timișoara, Romania)
10.10.10.25	Is SGLT2 Inhibition the Perfect Pathway to Heart Failure Prevention?
10:10-10:25	Dan-Alexandru Cozac (Târgu Mureș, Romania)
	Effects Of Chronic Beta-Blockers Therapy On In-Hospital Outcomes In
	Patients With ST-Segment Elevation Myocardial Infarction Treated With Primary Population Coronary Interpretation
08:30-10:25	With Primary Percutaneous Coronary Intervention
08:30-10:25	Session 2 – Basic and Translational Approaches in Cardiac
	Arrhythmias Senate Hall
Session chairs:	José Jalife (Spain), Torsten Christ (Germany)
08:30-08:55	Torsten Christ (Hamburg, Germany)
	Engineered Heart Tissue Based on Human Induced Pluripotent Stem
	Cell Derived Atrial Cardiomyocytes: A Useful Model To Study Human
08:55-09:20	Atrial Electrophysiology? José Jalife (Madrid, Spain)
08.33-09.20	Dysfunction of the $Na_v1.5$ -Kir2.1 Channelosome and the Mechanism of
	Arrhythmias in Inherited Channelopathies
09:20-09:45	István Baczkó (Szeged, Hungary)
09.20-09.43	Transgenic Rabbit Models of Congenital LQT Syndromes
09:45-10:10	Norbert Nagy (Szeged, Hungary)
07.15 10.10	Assessment of Cardiac Alternans in a Canine Model of Elite Exercise
10:10-10:25	Băraru-Bojan Iris (Iași, Romania)
10.10 10.23	The Genetic Characteristics Associated With The Prothrombotic
	Condition In Individuals Diagnosed With Type 2 Diabetes
10:25-11:00	Coffee Break
11:00-12:55	Session 3 – Myocardial Ischemia-Reperfusion Injury: Mechanisms
11,00-12,00	and Cardioprotective Strategies
	and carmoprotective of ategies

	Aula Magna Hall
Session chairs:	Peter Ferdinandy (Hungary), Ranko Škrbić (Bosnia & Herzegovina)
11:00-11:25	Naranjan S. Dhalla (Winnipeg, Canada)
	Mechanism Defects in Adrenergic Signal Transduction System in
	Ischemic Heart Disease
11:25-11:50	Peter Ferdinandy (Budapest, Hungary)
	Development of miRNA Therapeutics for Cardioprotection
11:50-12:15	Rakesh Kukreja (Virginia, USA)
	cGMP Signaling in Cardioprotection and Beyond
12:15-12:40	Ranko Škrbić (Banja Luka, Bosnia & Herzegovina)
	Liraglutide, A GLP-1 Receptor Agonist, Attenuates Isoprenaline-Induced
	Acute Myocardial Injury via Inhibition of the Wnt/B-Catenin Signaling
	Pathway
12:40-12:55	Nevena Mihailovic-Stanojevic (Belgrade, Serbia)
	Caffeic Acid Improves Antioxidant Defense And Attenuates Oxidative
	Stress In Heart Of Spontaneously Hypertensive Rat
11:00-12:55	Session 4 – Cardiovascular Dysfunction and Adaptation to Stress
	Senate Hall
Session chairs:	Petr Ostadal (Czech Republic), Inna-Rabinovich-Nikitin (Canada)
11:00-11:25	Petr Ostadal (Prague, Czech Republic)
	Extracorporeal Membrane Oxygenation in the Therapy of Cardiogenic
	Shock
11:25-11:50	Inna Rabinovich-Nikitin (Winnipeg, Canada)
	Retinoic Acid-Related Orphan Receptors Regulate Autophagy and Cell
	Survival in Cardiac Myocytes During Hypoxic Stress
11:50-12:15	Saadeh Suleiman (Bristol, UK)
	Cardio-resilience Due to Chronic (Atherosclerosis) or Brief
	(Conditioning) Ischemia
12:15-12:40	Péter Bencsik (Szeged, Hungary)
	Immuno-Cardiovascular Diseasome: A Novel Approach to Reveal
	Confounding Factors Between Myocardial Infarction and
10 10 10 77	Immunological Diseases
12:40-12:55	Jovana Joksimovic-Jovic (Kragujevac, Serbia)
	Relationship Between Hypertensive-Like Traits in a Rat Model of PCOS
11 00 12 55	and Oxidative Stress
11:00-12:55	Symposium: Cardiometabolic Alterations and Regulation of the
	Associated Pathways in Mammalian Heart Function and
Cassian shains	Regeneration I – Iagnov Hall Polyno Tymor (Tymbor) Syroch Type (USA)
Session chairs	Belma Turan (Turkey), Suresh Tyagi (USA)
11:00-11:20	Belma Turan (Ankara, Turkey)
	Comparisons of Pleiotropic Effects of SGLT2 Inhibition and GLP-1
11.20 11.40	Receptor Agonism on Cardiac Glucose Intolerance
11:20-11:40	Erkan Tuncay (Ankara, Turkey) The Polationship Potygon Cytogolio (Mitochondrial Labile Zine Pation)
	The Relationship Between Cytosolic/Mitochondrial Labile Zinc Ratio
11:40-12:00	and Mitochondrial Dynamics in Cardiomyocytes: Role of Znt6
11:40-12:00	Yusuf Olgar (Ankara, Turkey) Acute Action of Ineratin Rasad Therapouties on Againg Myocardium
12.00 12.20	Acute Action of Incretin-Based Therapeutics on Ageing Myocardium Cowlor Vonda Pitinim (Ankara Turkov)
12:00-12:20	Ceylan Verda Bitirim (Ankara, Turkey)

	Improving Stem Cell-Based Therapy in Cardiac Failure: The Effect of
	Estrogen on Regenerative Capacity of Cardiac Progenitor Cells
12:20-12:40	Aysegul Durak (Ankara, Turkey)
	GLP-1 Receptor Agonist Attenuates Ageing-Associated Cardiac
	Insufficiencies Through Recovery in Mitochondria
12:40-12:55	Anica Petrovic (Kragujevac, Serbia)
	From Forest o Healing: Development and Evaluation of Pinus Sibirica
	Essential Oil Based-Topical Gel for Wound Healing in Diabetic Rats
13:00-13:10	GROUP PHOTO in Front of the University
13:10-14:00	Lunch Break (lunch boxes provided)
	Work Lunch for IACS Officials in Petru Drăgan Hall
14:00-15:55	Session 5 - Pathomechanisms and Therapeutic Targets in
	Cardiometabolic Diseases
	Aula Magna Hall
Session chairs:	Denis Angoulvant (France), Vesna Vucic (Serbia)
14:00-14:25	Denis Angoulvant (Tours, France)
	Targeting Inflammation in Cardiovascular Diseases
14:25-14:50	Vladimir Jakovljević (Kragujevac, Serbia)
	Sacubitril/Valsartan Promotes White Adipose Tissue Browning in Rats
	with Metabolic Syndrome
14:50-15:15	Ramaroson Andriantsitohaina (Montpellier, France)
	NLRP3-Inflammasome Carried by Extracellular Vesicles Validates the
	Inflammatory Hypothesis of Atherosclerosis in Metabolic Syndrome
	Patients
15:15-15:40	Vesna Vucic (Belgrade, Serbia)
	Osteosarcopenic Adiposity - Implications for Cardiometabolic Disorder
15:40-15:55	Avram Vlad-Florian (Timișoara, Romania)
	Improving Mitochondrial Respiration of Human Platelets With Cell-
	Permeable Succinate in Metabolic Disease
15:55-16:15	Coffee break
14:00-15:55	Session 6 – Natural Compounds, Ageing and Cardiovascular Risk
	Senate Hall
	Monika Bartekova (Slovakia), Adrian Sturza (Romania)
14:00-14:25	Monika Bartekova (Bratislava, Slovak Republic)
	Role of Ageing and Metabolic Comorbidities in Beneficial Effects of
	Quercetin in Cardiovascular System
14:25-14:50	Isidora Milosavljevic (Kragujevac, Serbia)
	Melissa Officinalis as Cardioprotective Tool in Experimental
	Autoimmune Myocarditis
14:50-15:15	Ioana Mozoş (Timişoara, Romania)
14.50 15.15	Arterial Stiffness and Cardiovascular Risk
15:15-15:40	Simona Drăgan (Timișoara, Romania)
10.10 10.10	Cardioprotective Effects of Polyphenols and Future Perspectives for
	Functional Foods
15:40-15:55	Minodora Andor (Timișoara, Romania)
15.10 15.55	Evaluation of Black Chokeberry Bio Juice Effect on Blood Pressure
	Levels and Endothelial Damage in Patients Under Chronic
	Antihypertensive Treatment (Preliminary data)
15:55-16:15	Coffee Break
10.00 10.10	C VALVE BY VIII.

16:15-17:30	Session 7 – Comorbidities and Novel Therapeutic Strategies in
	Cardiovascular Diseases
	Aula Magna Hall
Session chairs:	Ferenc Gallyas (Hungary), Patrycja Kaczara (Krakow, Poland)
16:15-16:40	Ferenc Gallyas (Pécs, Hungary)
	Protective Effect of Olaparib in Experimental Crohn's Disease
16:40-17:05	Patrycja Kaczara (Krakow, Poland)
	Pharmacology of Energy Metabolism to Regulate Platelet Activation
17:05-17:30	Ștefan Mihăicuță (Timișoara, Romania)
	Obstructive Sleep Apnea and Cardiovascular Comorbidities Might
	Tailor Different Pathogenetic Treatment Strategies
17:15-18:30	POSTER SESSION I (Sport Hall)
	Chairs: Thomas Jespersen (Denmark), Péter Bencsik (Hungary),
	Miloš Stojiljković (Bosnia & Herzegovina)
14:30-17:00	Meeting of the MCB Editors (Ms. Aicha Hanna) – Petru Drăgan Hall

	DAY 3 (October 6, 2023)	
Parallel sessions in Aula Magna Hall, Senate Hall and Iagnov Hall		
08:30-10:25	Session 8 - Identifying the Right Targets and Therapeutic	
	Approaches: Uncharted Paths	
	Aula Magna Hall	
Session chairs:	Martin Morad (USA), András Varró (Hungary)	
08:30-08:55	Martin Morad (Charleston, USA)	
	What Are We Learning From Gene Editing of Human Ryr2 About CPVT1	
	Arrhythmia and Cardiac EC-Coupling?	
08:55-09:20	Antonio Zaza (Milano, Italy)	
	SERCA2a Loss vs. Gain of Function: Which Is Worse?	
09:20-09:45	András Varró (Szeged, Hungary)	
	The Electrophysiological Effect of Orange Alkaloid Hesperetin in Dog	
00.45.40.40	Cardiac Ventricular Preparations	
09:45-10:10	Hector Martinez-Navarro (Oxford, UK)	
	In Silico Trials in Ischemic Heart Disease: The Future of Diagnosis and	
10 10 10 25	Treatment	
10:10-10:25	Muhammad Naveed (Szeged, Hungary)	
	Arrhythmias Triggered By Medication: The Proarrhythmic Risk	
10:25-11:00	Associated With Class 1 Antiarrhythmics And Cannabinoids Coffee Break	
08:30-10:25	Session 9 – Pathophysiology and Therapeutics of Heart Failure II	
00.30-10.23	Senate Hall	
Session chairs:	Katharine Dibb (UK), Dragoş Cozma (Romania)	
08:30-08:55	Katharine Dibb (Manchester, UK)	
00.30-00.33	Atrial Fibrillation in Heart Failure and Ageing: Understanding the	
	Mechanisms	
08:55-09:20	Suresh Tyagi (Louisville, USA)	
00.00 07.20	Interoceptive Inhibition of ADAMTS1 and Angiogenic Strategy for	
	Prevention of HFrEF	
09:20-09:45	Ruxandra Christodorescu (Timişoara, Romania)	

	New Trends in the Management of Advanced Heart Failure
09:45-10:10	Dragoș Cozma (Timișoara, Romania)
	From Left Atrial Stretch to Heart Failure
10:10-10:25	Niskala Alisha Annikki (Copenhagen, Denmark)
	The Role of Colchicine on Cardiac Fibrosis in a Porcine Model of Atrial
	Fibrillation
10:25-11:00	Coffee break
11:00-12:55	Session 10 - Cardiac Regeneration and Response to Infection
	Aula Magna Hall
Session chairs:	Roberto Bolli (USA), Grant Pierce (Canada)
11:00-11:25	Roberto Bolli (Louisville, USA)
11.00 11.20	Reparative/Regenerative Cardiology: Hype vs. Reality
11:25-11:50	Grant Pierce (Winnipeg, Canada)
11.25 11.50	Bacterial Infection and Cardiovascular Disease
11:50-12:15	Thomas Jespersen (Copenhagen, Denmark)
11.30-12.13	In Vitro Reprogramming of Fibroblasts From Human Cadavers to
	Generate iPSC-Cardiomyocytes
12:15-12:40	V V
12:13-12:40	Sanjiv Dhingra (Winnipeg, Canada)
12.40 12.55	Immuno-Engineering Approaches for Cardiac Regenerative Medicine
12:40-12:55	Abhay Srivastava (Winnipeg, Canada)
	Development of iPSC-Based Clinical Trial Selection Platform for
11 00 12 40	Patients with Inherited Metabolic and Cardiovascular Disorders
11:00-12:40	Session 11 – Cardiometabolic Diseases – From Pathophysiology to
	Treatment
C	Senate Hall
Session chairs:	Olga Pechanova (Slovakia), Luca Constantin (Romania)
11:00-11:25	Olga Pechanova (Bratislava, Slovakia)
11.25.11.50	The Role of Nitric Oxide in Metabolic Syndrome: An Experimental Study
11:25-11:50	Paramjit Tappia (Winnipeg, Canada)
11.50.10.15	High Fructose Diet Induces Cardiovascular Dysfunction
11:50-12:15	Florinela Cătoi (Cluj-Napoca, Romania)
10.15.10.10	Obesity, Metabolic/Bariatric Surgery and Cardiovascular Disease
12:15-12:40	Cristian Mornoș (Timișoara, Romania)
	Epicardial Adipose Tissue Thickness as Independent Predictor in
	Coronary Artery Disease: Assessment by Echocardiography
11:00-13:20	Young Investigator Award Competition – Iagnov Hall
Session chairs	Antonio Zaza (Italy), Suleiman Saadeh (UK), Michael Czubryt
	(Canada)
11:00-11:20	Jovana Bradic (Kragujevac, Serbia)
	Gallium Verum Extract As A Novel Cardioprotective Agent Against
	Doxorubicin-Induced Cardiotoxicity In Rats
11:20-11:40	Bogdan Halațiu (Târgu-Mureș, Romania)
	Interleukin-8 Inhibition – A Possible Pathway to Reduce Hemodynamic
	Complications in Post-Coronary Artery Bypass Grafting Surgery
	Patients
11:40-12:00	Leto Luana Riebel (Oxford, UK)
	Human In Silico Trials to Evaluate the Safety of Regenerative Cell
	Therapy
12:00-12:20	Arnela Saljic (Copenhagen, Denmark)
	······································

	Atrial Fat Infiltration Post Myocardial Infarction in a Göttingen Minipig Model of Obesity
12:20- 12:40	Mélodie Schneider (Copenhagen, Denmark)
	Metformin Reduces Atrial Fibrillation Inducibility in Horses
12:40- 13:00	Leila Topal (Szeged, Hungary)
	Increased Arrhythmia Susceptibility Associated With Cardiac
	Remodelling Following Vigorous Endurance Training in a Canine
	Athlete's Heart Model
13:00- 13:20	Noemi Toth (Charleston, USA)
13.00-13.20	
	Calcium Signalling Consequences of Calcium Release Deficiency
	Associated Ryr2-S4938F and Ryr2-I4855M Mutations Expressed in
12 00 11 00	HiPSC-CMs
13:00-14:00	Lunch Break (lunch boxes provided)
	Work Lunch for IACS Officials in Petru Drăgan Hall
14:00-15:30	Session 12 – Cardiovascular Dysfunction Due to Toxicity
	Aula Magna Hall
Session chairs:	Lorrie Kirshenbaum (Canada), Theodora Angoulvant (France)
14:00-14:25	Lorrie Kirshenbaum (Winnipeg, Canada)
	TRAF2-NF-kB Signaling in Doxorubicin Cardiomyopathy
14:25-14:50	Dinender K. Singla (Orlando, USA)
	Exosomes Ameliorates Doxorubicin-Induced Cardiomyopathy
14:50-15:15	Theodora Angoulvant (Tours, France)
1	Immune Checkpoint Inhibitors-Related Myocarditis
15:15-15:30	Stojanovic Aleksandra (Kragujevac, Serbia)
13.13-13.30	The Increased Expression of Extracellular Vesicles In Patients With
	Rheumatoid Arthritis: Novel Potential Biomarker For Disease
	Monitoring?
	Symposium: Cardiometabolic Alterations and Regulation of the
	Associated Pathways in Mammalian Heart Function and
	·
Caratan abatan	Regeneration II – Iagnov Hall
Session chairs:	Belma Turan (Turkey), Dinender Singla (USA)
14:00-14:20	Ebru Arioglu-Inan (Ankara, Turkey)
	Diabetic Heart And The Effects of Antidiabetic Drugs On Cardiac
11.50.11.10	Function
14:20-14:40	Gizem Kayki-Mutlu (Ankara, Turkey)
	The Metabolic Roles of GRK2 in Cardiac Pathologies
14:40-15:00	Asena Gökçay Canpolat (Ankara, Turkey)
	Glucose Lowering Therapies for Cardiovascular Risk Reduction in
	Diabetes Mellitus
15:00-15:20	Firat Akat (Ankara, Turkey)
	The Roles of Sirtuins and K-Acetylation in Metabolic Syndrome
	Associated Heart Remodeling
15:30-16:00	Coffee Break
16:00-17:15	Session 13 – Translational Approaches in Cardiac Arrhythmias
	Aula Magna Hall
Session chairs:	Norbert Jost (Hungary), Viviana Ivan (Romania)
16:00-16:25	Belma Turan (Ankara, Turkey)
10.00 10.23	The Electrotonic Modulation in Mixed-Mode Electrical Conduction Can
	Be a Novel Approach for SQT-Characterized Cardiac Remodelling
	De a Novel Approach for SQ1-Characterizea Caratac Remodelling

16:25-16:50	Norbert Jost (Szeged, Hungary)
	Comparative Study of the Rapid (IKr) and Slow (IKs) Delayed Rectifier
	Potassium Currents in Undiseased Human, Dog, Rabbit and Guinea Pig
	Cardiac Ventricular Preparations
16:50-17:15	Viviana Ivan (Timișoara, Romania)
	Antiarrhythmic Effect of Metabolic Therapy: The Role of Late Potentials
	In Risk Assessment
16:00-17:15	Session 14 – Natural Compounds in Cardiovascular Protection
	Senate Hall
Session chairs:	Jerzy Beltowski (Poland), Alina Pârvu (Romania)
16:00-16:25	Miloš Stojiljković (Banja Luka, Bosnia & Herzegovina)
	Antioxidative Capacity of Pomegranate Peel Extracts: Results of In Vitro
	and In Vivo Studies
16:25-16:50	Jerzy Beltowski (Lublin, Poland)
	Green Tea Extract Improves Vasodilating Effect of Insulin on Resistance
	Arteries in Rats with Metabolic Syndrome By Converting H_2S to
	Polysulfides
16:50-17:15	Alina Pârvu (Cluj-Napoca, Romania)
	Cardioprotective Effects of Mahonia Aquifolium Extracts
17:15-18:30	POSTER SESSION II (Sport Hall)
	Chairs: Devendra Agrawal (USA), Zoltán Papp (Hungary),
	Vladimir Zivkovic (Serbia)
20.00-24.00 6	CALA DINNER & AWARDS CEREMONIES (bus transfer

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?
	Aula Magna Hall
Session chairs	Ivan Srejovic (Serbia), Oana Aburel (Romania)
09:00-09:25	Melanie Hezzel (Bristol, UK)
	A One Health Approach to Cardiovascular Research – What Can Dogs
	Teach Us About Heart Disease?
09:25-09:50	Slavica Mutavdzin Krneta (Belgrade, Serbia)
	Effects of Vitamin B6 and Folic Acid on the Cardiovascular System of
	Rats with Streptozotocin-Induced Diabetes Mellitus
09:50-10:15	Vladimir Zivkovic (Kragujevac, Serbia)
	The Effects of Different Exercise Types on a Rat Model of Myocardial
	Ischemia/Reperfusion Injury
10:15-10:40	Ivan Srejovic (Kragujevac, Serbia)
	The Effects of L-Glutamate on Heart Function, Morphology and Redox
	Balance in Rats
09:00-10:55	Session 16 – Novel Biomarkers, Therapeutic Targets and Unusual
	Cases: What Humans Have Taught Us?
	Senate Hall
Session chairs	Isidora Milosavljevic (Serbia), Caius Streian (Romania)
09:00-09:25	Manuela Ciocoiu (Iași, Romania)

	The Development of Aortic Wall Aneurysms: Insights Into Molecular and
	Cellular Mechanisms
09:25-09:40	Adrian Apostol (Timișoara, Romania)
	RAS Inhibition Therapy in Dialized Patients and the Effects on Positive
	Remodelling
09:40-09:55	Caius Streian (Timișoara, Romania)
	An Unusual Form of Left Ventricular Tumor
09:55-10:10	Ana Lascu (Timișoara, Romania)
	Concurrent Causes For Acute Severe Right Ventricular Failure In An
	Apparently Healthy Patient
10:10-10:25	Sonia Rațiu (Timișoara, Romania)
	Vitamin D Mitigates Oxidative Stress in Varicose Veins Explants From
	Obese and Non-Obese Patients
10:25-10:40	Răzvan Adrian Bertici (Timișoara, Romania)
	Evolution and New Etiological Trends in Patients With Pulmonary
	Arterial Hypertension
10:45-11:00	Closing Remarks (Aula Magna)
11:30-	Social program

Social Program

Welcome Reception will take place at the meeting venue, "Victor Babeş" University of Medicine and Pharmacy of Timişoara, E.Murgu Sq., nr.2 Timişoara, 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. Bitay Gergő (Szeged, Hungary)

Investigation of Action Potential and Ca2+ Transient Alternans in Canine Athlete's Heart Model

3. Besher 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 (Timişoara, 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. Déri Szilvia (Szeged, Hungary)

A Possible Explanation for the Low Penetrance of Pathogenic Kenel Variants in Long QT Syndrome Type 5

12. Bînă Paul (Timişoara, 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 (Iks) in Dog And Rabbit Cardiac Ventricular Muscle Preparations and Isolated Myocytes - A Proarrhythmic Candidate

14. Saljic Arnela (Copenhagen, Denmark)

Atrial Fat Infiltration Post Myocardial Infarction in a Göttingen Minipig Model of Obesity

15. Beţiu Alina (Timişoara, 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 (Timişoara, 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 - Case Presentation

21. Sandu Oana (Timişoara, Romania)

Pulmonary Thromboembolism in Adults Under 50 Years Old

22. Karanović Danijela (Belgrade, Serbia)

Natural Versus Synthetic Antioxidant Supplementation of Losartan Treatment in an Experimental Model of Hypertension and Chronic Kidney Disease: Is Together Better?

23. Dăniluc Larissa (Timișoara, 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. Soșdean 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. Mariş Mihaela-Ioana (Timişoara, 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 (Timişoara, 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 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 (Timişoara, Romania)

Is a Pacient With Hemophilia Protected Against Ischemia?

35. Todor Ivanka Marian (Timişoara, 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 Hemoglobin Value in Aortic Stenosis After TAVR

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

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

38. Goje Iacob Daniel (Timişoara, 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 Diseasome 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 Post-Cardiopulmonary Bypass

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)

Mitochondrial Dysfunction in iPSC-derived Ventricular Cardiomyocytes in Spinal Muscular Atrophy

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

47. Bitay Gergő (Szeged, Hungary)

Investigation of the Action Potential Alternans in Human Heart Failure

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ABSTRACTS OF THE LECTURES

OSTEOSARCOPENIC ADIPOSITY - IMPLICATIONS FOR CARDIOMETABOLIC DISORDERS

Vesna Vučić

Group for Nutritional Biochemistry and Dietology, Centre of Research Excellence in Nutrition and Metabolism, Institute for Medical Research, National Institute of Republic of Serbia, University of Belgrade, Belgrade, Serbia

Body composition impairments, encompassing concurrent deterioration of bone, muscle, and adipose tissue, are defined as osteosarcopenic obesity/adiposity (OSO/OSA). The objective of this scoping review was to evaluate human studies addressing OSA in relation to cardiovascular and metabolic diseases. The search was conducted in PubMed, Scopus, and Web of Science databases to examine relevant articles published until August 2023, using the MeSH terms in the search strategy. Only studies published in English and conducted in adult humans with cardiometabolic disorders (dyslipidemia, hypertension, metabolic syndrome, cardiovascular disease - CVD) were included. A total of n = 272 articles were retrieved from all three databases. After removing duplicates and articles unrelated to the topic, only n = 11 studies met the inclusion criteria. Six studies were conducted in Asia, one in the USA, one in Brazil and three in the EU. Eight studies were cross-sectional, one was nested case-control and one retrospective study. Additionally, we identified only one interventional study in obese postmenopausal women supplemented with calcium and vitamin D or with dairy products. The studies included 16220 participants (60-4500). In general, a significantly higher prevalence of OSA was found in patients with CVD, hypertension, dyslipidemia, insulin resistance, nonalcoholic fatty liver disease and metabolic syndrome. Higher levels of CRP and other biomarkers of chronic inflammation were also detected in persons with OSA. The only interventional study has shown significant improvement in lipid profile, leptin, adiponectin and hypertension in the intervention groups. In summary, OSA is a frequent comorbidity in patients with cardiovascular and/or metabolic disorders. More studies are warranted to establish a causal relationship between OSA and cardiometabolic diseases.