



„VICTOR BABEȘ“ UNIVERSITY
OF MEDICINE AND PHARMACY
FROM TIMIȘOARA



The 16th New Frontiers in Cardiovascular Research Meeting:
France & Central Europe
May 27 – 29, 2026
Timișoara, Romania

Meeting Venue:

”Victor Babeș” University of Medicine and Pharmacy from Timișoara,
E. Murgu Sq., no. 2

DAY 1 (May 27, 2026) <i>Aula Magna Hall</i>	
8:30 -	Registration – Central Lobby of the University
9:00-9:20	OPENING ADDRESS Daniel Lighezan (Honorary President of the Meeting) Rodolphe Fischmeister (Paris, France, Founding Chair) Bohuslav Ošťádal (Prague, Czech Republic, Founding Chair) Danina Muntean (Chair of the Meeting) Dan Gaiță (Vice-Chair of the Meeting) Claudia Borza (Vice-Chair of the Meeting)
9:20-10:30	SESSION 1
Chairs:	Rodolphe Fischmeister (France), Bohuslav Ošťádal (Czech Republic)
09:20-9:40	Bohuslav Ošťádal (Prague, Czech Republic) <i>Perinatal Hypoxia and the Developing Heart</i>
09:40-10:00	Rodolphe Fischmeister (Paris-Orsay, France) <i>Cardiac Gene Therapy with Phosphodiesterases Limits Maladaptive Remodeling in Heart Failure</i>
10:00-10:20	Stefan Chlopicki (Krakow, Poland) <i>Heterogenous Mechanisms of Endothelial Dysfunction: An Insight From In Vivo Studies</i>
10:20-10:30	Q&A
10:30-11:00	Coffee Break
11:00-12:45	SESSION 2
Chairs:	Ivan Zahradnik (Slovakia), Alain Lacampagne (France)
11:00-11:20	Alain Lacampagne (Montpellier, France) <i>Role of the Ryanodine Receptors in the Heart-Brain Dialogue</i>
11:20-11:40	Ramaroson Andriantsitohaina (Montpellier, France) <i>Extracellular Vesicles-Guided Delivery and NLRP3 Blockade: A Hypothalamic Therapeutic Roadmap for Atherosclerosis and Atrial Fibrillation</i>
11:40-12:00	Ivan Zahradnik (Bratislava, Slovakia) <i>Three Stories on the Structure-Function Relationship in Cardiac Myocytes</i>
12:00-12:20	Martin Štěrba (Hradec Králové, Czech Republic)

	<i>Understanding the Role of DNA Damage and DDR Signalling in the Cardiotoxicity and Anticancer Efficacy of Anthracycline Chemotherapeutics</i>
12:20-12:40	Simina Crişan (Timișoara, Romania) <i>From Heart Failure to Coronary Artery Disease: An Integrated Inflammatory Approach</i>
12:40-12:50	Q&A
12:50	GROUP PHOTO in front of the University
13:00-14:00	Lunch Break (lunch boxes provided)
14:00-15:45	SESSION 3
Chairs:	Tatiana Ravingerova (Slovakia), Jitka Žurmanova (Czech Republic)
14:00-14:20	Antigone Lazou (Thessaloniki, Greece) <i>Restoring Myocardial Metabolic Flexibility in the Diabetic Heart</i>
14:20-14:40	Tatiana Ravingerova (Bratislava, Slovakia) <i>Physical Exercise as a Non-Invasive Strategy to Trigger Cellular Mechanisms of Cardioprotection in Healthy and Diseased Heart</i>
14:40-15:00	Jitka Žurmanova (Prague, Czech Republic) <i>The Mechanism of Cold-Induced Cardioprotection Differs Depending on the Regimen</i>
15:00-15:20	Petra Alánová (Prague, Czech Republic) <i>The Role of HIF-1α and Mitochondria in Cardioprotection Induced by Chronic Hypoxia</i>
15:20-15:35	Andrea Mičurová (Bratislava, Slovakia) <i>The Role of Dimethyl Fumarate in the Heart of Female Hypertriglyceridemic Rats Exposed to Chronic Psychosocial Stress</i>
15:40-15:45	Q & A
15:45-16:15	Coffee Break
16:15-17:45	SESSION 4
Chairs:	Jerzy Beltowski (Poland), Andrija Đuranović (Serbia)
16:15-16:35	Jerzy Beltowski (Lublin, Poland) <i>Role of Leptin in The Pathogenesis of Obesity-Associated Platelet Hyperactivity & Abnormalities of Coagulation/Fibrinolysis Balance: Implications for Cardiovascular Diseases</i>
16:35-16:55	Patrycja Kaczara (Krakow, Poland) <i>Metabolic Control of Platelet Reactivity: Can We Improve Antiplatelet Therapy?</i>
16:55-17:15	Oana Aburel (Timișoara, Romania) <i>Methylene Blue as a Redox Modulator in Cardio-Metabolic Dysfunction</i>
17:15-17:30	Anca Bîcă (Timișoara, Romania) <i>Mitochondrial Respiratory Dysfunction in Preeclampsia: Platelets Mirror When Placenta Struggles to Breathe</i>
17:30-17:45	Andrija Đuranović (Belgrade, Serbia) <i>Comparison of Blood Biomarkers Between Professional Football Players and Recreational Athletes: Is There a Reliable Marker of Overtraining</i>
17:45-19:15	POSTER SESSION – Sport Hall
Chairs:	Antigone Lazou (Greece), Petra Alánová (Czech Republic)
17:45-19:15	YOUNG INVESTIGATOR AWARD COMPETITION – Senate Hall
Chairs:	Ramaroson Andriantsitohaina (France), Bohuslav Ošťádal (Czech Republic)
17:45-18:00	Georges Madders (France)

	<i>PEGylation Size Exclusion Technology Enables Independent Activation of Cardiac B-Adrenergic Receptors Located in Either the T-Tubule or the Outer Surface Membrane</i>
18:00-18:15	Reyhaneh Nejati Bervanlou (Slovakia) <i>Greater Voluntary Exercise Does Not Rescue Hypertensive Cardiac Remodeling: Divergent Functional And BDNF–TRKB-Linked Left Ventricular Adaptation in Spontaneously Hypertensive Rats</i>
18:15-18:30	Ottó Tatai (Hungary) <i>Tissue-Specific Autoantibody Signatures Reveal Immune Alterations Undetected by Routine Serology in Long COVID</i>
18:30-18:45	Alexandra Frişan (Romania) <i>A Simple Risk Score Combining Myocardial Work and Coronary Anatomy for Risk Stratification After STEMI</i>
18:45-19:00	Ulrika Duřová (Slovakia) <i>Beyond Antioxidants: The Role of Quercetin in Mitochondrial Energetics in the Diabetic Rat Heart</i>
19:00-19:15	Răzvan Bertici (Romania) <i>Sleep-Disordered Breathing in Precapillary Pulmonary Hypertension: A Case Series From Timișoara Regional Referral Center</i>
19:15 -	Welcome Reception (University building/courtyard)
DAY 2 (May 28, 2026) <i>Aula Magna Hall</i>	
09:00-10:30	SESSION 5
Chairs:	Zoltán Papp (Hungary), Albano Meli (France)
09:00-09:20	Albano Meli (Montpellier, France) <i>Integrated Functional and Genomic Profiling of LMNA-Related Dilated Cardiomyopathy</i>
09:20-09:40	Zoltán Papp (Debrecen, Hungary) <i>Less is More: The Paradoxical Benefit of Myosin Inhibition on Cardiac Reserve</i>
09:40-10:00	Attila Tóth (Debrecen, Hungary) <i>More is Less: Why Myosin Activation Fails to Improve Cardiac Performance In Vivo</i>
10:00-10:20	Adina Ionac (Timișoara, Romania) <i>A Comprehensive Diagnostic and Therapeutic Approach to Obstructive Hypertrophic Cardiomyopathy</i>
10:20-10:30	Q&A
10:30-11:00	Coffee Break
11:00-12:50	SESSION 6
Chairs:	Bruno Podesser (Austria), Derek Hausenloy (Singapore & UK)
11:00-11:20	Derek Hausenloy (Singapore & London, UK) <i>Target Discovery in Heart Failure from iPSC Stem Cells and Bat Biology</i>
11:20-11:40	Bruno Podesser (Vienna, Austria) <i>Vascular (Dys)function in the Failing Heart</i>
11:40-12:00	Ludovic Gomez (Lyon, France) <i>Using Ischemia-Reperfusion Model to Re-Investigate Congestive and Chronic Heart Failure Development in Mice According to Sex</i>
12:00-12:20	Jaroslav Hrdlička (Prague, Czech Republic)

	<i>Cardiac Remodelling in Wistar Rats With Early Postnatal Pressure Overload: Sex Differences and the Role of the Proliferative Phase of Cardiac Development</i>
12:20-12:40	Bogdan Enache (Timișoara, Romania) <i>The Non-Inferiority Trap: Lessons From Contemporary Cardiology Trials</i>
12:40-12:50	Q&A
12:50-14:00	Lunch Break (lunch boxes provided)
14:00-15:45	SESSION 7
Chairs:	Olga Pechanova (Slovakia), Vladimir Jakovljevic (Serbia)
14:00-14:20	Vladimir Jakovljevic (Kragujevac, Serbia) <i>Therapeutic Effects of Galium verum L.extract in an Experimental Model of Aphthous Stomatitis</i>
14:20-14:40	Olga Pechanova (Bratislava, Slovakia) <i>Hormetic Effects of Polyphenol-Rich Cornus mas on Redox Balance: Evidence from Animal and Human Studies</i>
14:40-15:00	Monika Bartekova (Bratislava, Slovakia) <i>Cardioprotection in the Diabetic Heart: Effect of Quercetin</i>
15:00-15:20	Slavica Mutavdzin-Krneta (Belgrade, Serbia) <i>Targeting the Homocysteine-Oxidative Stress Axis with Folate and Vitamin B6: Cardioprotection in Diabetes and Heart Failure</i>
15:20-15:35	Dagmar Štěpánová Jarkovská (Prague, Czech Republic) <i>Silver Nanoparticle-Potentiated Antibiotic Therapy In A Porcine Model Of Sepsis – Are the Animal Models Necessary?</i>
15:35-15:45	Q&A
15:45-16:15	Coffee Break
17:30-20:00	Social Program
20:00 GALA DINNER & AWARDS CEREMONY	
DAY 3 (May 29, 2026)	
09:00-10:30	SESSION 8
Chairs:	Ana Maria Gomez (France), András Varró (Hungary)
09:00-09:20	András Varró (Szeged, Hungary) <i>The Cellular Cardiac Electrophysiological Effect of Chronic Amiodarone Treatment in End-Stage Heart Failure Patients</i>
09:20-09:40	Ana Maria Gomez (Paris-Orsay, France) <i>Calcium Signaling in Cardiac Arrhythmias: From Local Control to RyR2 Channelopathies</i>
09:40-10:00	István Baczkó (Szeged, Hungary) <i>Proarrhythmic Remodeling of Pulmonary Vein Sleeve Myocytes in a Large Animal Model of Endurance Exercise</i>
10:00-10:20	Norbert Jost (Szeged, Hungary) <i>The Ultrarapid Delayed Rectifier Potassium Current Has Important Functional Role in the Repolarization Reserve of Canine and Human Ventricular Muscle</i>
10:20-10:35	Letiția Olteanu (Timișoara, Romania) <i>Are GLP-1 Receptor Agonists Associated With Pro-Arrhythmic Signals? A Pharmacovigilance Disproportionality Analysis Using The FAERS Database</i>
10:35-10:45	Q&A
10:45-11:15	Coffee Break
11:15-13:00	SESSION 9

Chairs	Viviana Ivan (Romania), Ioana Mozoș (Romania)
11:15-11:35	Simona Drăgan (Timișoara, Romania) <i>Challenges in Diagnosing Heart Failure With Preserved Ejection Fraction</i>
11:35-11:55	Viviana Ivan (Timișoara, Romania) <i>Sex differences in Heart Failure: The Impact on Treatment</i>
11:55-12:15	Ioana Mozoș (Timișoara, Romania) <i>Decoding the Lipid–Vascular Interplay: Insights from Pulse Wave Analysis and Metabolic Biomarkers</i>
12:15-12:35	Minodora Andor (Timișoara, Romania) <i>Fibrosis and Associated Dysfunctions in Heart Failure: An Integrative Perspective</i>
12:35-12:55	Adrian Sturza (Timișoara, Romania) <i>Monoamine Oxidase-Related Oxidative Stress in Obese Patients With Heart Failure: The Beneficial Role of SGLT2i</i>
12:55-13:00 (Rapid Fire)	Diana Buzzi (Timișoara, Romania) <i>SGLT2 Inhibitors: Distinct Cardiac Remodeling Pattern in Heart Failure With Reduced and Preserved Ejection Fraction</i>
13:00	Closing Remarks