



CZECH CARDIOVASCULAR RESEARCH AND INNOVATION DAYS

2025

11th EUROPEAN SECTION MEETING OF THE INTERNATIONAL ACADEMY OF CARDIOVASCULAR SCIENCES

November 2–4
Prague, Czechia

SCIENTIFIC PROGRAMME

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General Information

Event Dates:

November 2 - 4 2025

Event Venue:

Vienna House by Wyndham Diplomat Prague

Evropská 15, Praha 6, Czechia

Organized by:

**Czech Society of Cardiology
& European Section of the International Academy of
Cardiovascular Sciences**

Programme Committee Chair:

Prof. Zuzana Motovska

Organizing Committee Chair:

Prof. Petr Ostadal

Organizing Agency:

GALEN - SYMPOSION s.r.o.



Sunday • November 2nd, 2025

MAIN HALL (CD)

16.00-17.00 Opening Ceremony

Czech Society of Cardiology Awards Ceremony

chairs: Petr Ostadal, Ales Linhart, Zuzana Motovska, Milos Taborsky

17.00-19.00 Plenary Session

chairs: Vladimir Jakovljevic, Andras Varro, Istvan Baczko

17.00-17.30

Presidential Address:

Effect of a selective IK_{ur} inhibitor XEN-D0103 on dog and human cardiac ventricular and Purkinje fiber

Andras Varro /HUN/ 30'

17.30-18.00

Naranjan Honorary Lecture:

Epigenetics and morning heart attacks

Suresh Tyagi /USA/ 30'

18.00-18.30

Plenary Lecture:

Cardiovascular oncology: Cancer-Therapy Related Hypertension

Rhian Touyz /CAN/ 30'

18.30-19.00

Plenary Lecture:

Heart failure with preserved ejection fraction: The new frontier

Roberto Bolli /USA/ 30'

19.00-21.00

Dinner

Monday • November 3rd, 2025

MAIN HALL (CD)

9.00-10.30	IACS Symposium 1: Advances in Cardiovascular Sciences	
	chairs: Andras Varro, Grant N. Pierce	
9.00-9.22	The vago-splenic axis in cardioprotection <u>Gerd Heusch</u> , Petra Kleinbongard /GER/	18'+4'
9.22-9.44	Effects of Polluted Air on the Pathophysiology of Myocardial Ischemia <u>Ricardo J. Gelpi</u> , Pablo Evelson /ARG/	18'+4'
9.44-10.06	Epitranscriptomic regulations in the heart Marketa Hlavackova /CZE/	18'+4'
10.06-10.28	Pyridostigmine Treatment Significantly Alleviates Isoprenaline-Induced Chronic Heart Failure in Rats <u>Milos P. Stojiljkovic</u> , Ranko Skrbic, Sonja T. Marinkovic, Tanja Sobot, Zana M. Maksimovic, Dorde Dukanovic, Snezana Uletilovic, Nebojsa Mandic-Kovacevic, Sanja Jovicic, Milka Maticic, Milica Gajic Bojic, Aneta Stojmenovski, Andela Bojanic, Dragana Loncar-Stojiljkovic /BIH/	18'+4'
10.30-11.00	Coffee Break	
	Posters in focus: 1-15: "Arrhythmias and Electrophysiology" & "Biomarkers and Cardioprotection 1"	
11.00-12.30	Session 2: Molecular & Circadian Mechanisms	
	chairs: Michael Czubryt, Inna Rabinovich-Nikitin	
11.00-11.18	Scleraxis: a stress-responsive regulator of wound healing and fibrosis Michael Czubryt /CAN/	15'+3'
11.18-11.36	How RyR2 Phosphorylation Tunes the Heart rate for Fight or Flight Ana Gomez /FRA/	15'+3'
11.36-11.54	Role of protein kinase A and calcium/calmodulin-dependent protein kinase II in beta-adrenergic regulation of potassium channels <u>Balazs Horvath</u> , Denes Kiss, Tamas Hezso, Roland Veress, Csaba Dienes, Zsigmond Kovacs, Norbert Szentandrassy, Janos Magyar, Tamas Banyasz, Peter Pal Nanasi /HUN/	15'+3'
11.54-12.12	The Cardiac Pathophysiological Outcomes of Circadian Disruption during Pregnancy Inna Rabinovich-Nikitin /CAN/	15'+3'
12.12-12.30	Dysferlin in the Heart: Supporting Structure, Safeguarding Rhythm Katharine Dibb /GBR/	15'+3'
12.30-13.30	Lunch	

13.30-15.00	CSC Symposium
	chairs: Petr Ostadal, Ales Linhart
13.30-13.52	TBD Gilles Montalescot /FRA/18'+4'
13.52-14.14	TBD Zuzana Motovska /CZE/18'+4'
14.14-14.36	TBD Perry M. Elliott /GBR/18'+4'
14.36-14.58	Czech Contribution to Fabry Disease Ales Linhart /CZE/18'+4'
15.00-15.30	Coffee Break
	Posters in focus: 16-31: "Biomarkers and Cardioprotection 2" "Ischemia-reperfusion Injury, Oxidative Stress and Pharmacotherapy"
15.30-17.00	Session 6: Ischemia-Reperfusion & Cardioprotection
	chairs: Ranko Skrbic, Bohuslav Ostadal
15.30-15.48	Hypoxia and the immature heart Bohuslav Ostadal /CZE/15'+3'
15.48-16.06	Cardioprotection by remote ischemic conditioning: red blood cell-mediated reduction of myocardial infarct size and coronary no-reflow <u>Petra Kleinbongard</u> , Michelle Alff, Hanna Kristin Seifert, Helmut Raphael Lieder /GER/15'+3'
16.06-16.24	Modification of Ischemia-Reperfusion Injury by Polyclonal Antibodies against Sarcolemmal Ca²⁺/Mg²⁺-ecto ATPase Naranjan S. Dhalla /CAN/15'+3'
16.24-16.42	Role of lysophosphatidylcholine in ischemia-reperfusion injury <u>Paramjit Tappia</u> , Naranjan S. Dhalla /CAN/15'+3'
16.42-17.00	Levosimendan pretreatment preserves intestinal tissue damage and multi-organ injury by attenuating oxidative stress, inflammation and apoptosis induced by mesenteric artery ischemia and reperfusion <u>Ranko Skrbic</u> , Zoran Matkovic, Milica Gajic-Bojic, Ugljesa Malicevic, Nebojsa Mandic-Kovacevic, Snjezana Uletilovic, Ljiljana Amidzic, Sanja Jovicic, Maja Barudzija, Milos P. Stojiljkovic /BIH/15'+3'
18.00-19.00	IACS Awards Ceremony
	chairs: Naranjan S. Dhalla, Vladimir Jakovljevic, Andras Varro, Grant N. Pierce
19.00-22.00	Dinner

HALL A**9.00-10.30****Session 1:****Arrhythmias & Electrophysiology 1**

chairs: Istvan Baczko, Milos Taborsky

9.00-9.15

The comparison of the properties and role in in cardiac action potential of the atrial and ventricular transient outward potassium current

Norbert Laszlo Jost /HUN/12'+3'

9.15-9.30

Mechano-sensitive channels and arrhythmia - Effect of axial stretch on Ca²⁺ sparks in atrial cardiomyocytes

Ursula Ravens /GER/12'+3'

9.30-9.45

Electrophysiological and antiarrhythmic effects of a new analogue of mexiletine

Istvan Baczko /HUN/12'+3'

9.45-10.00

Functional analysis in three probands suffering from "true" idiopathic ventricular fibrillationMarketa Bebarova, Martin Kral, Natalie Jankova, Olga Svecova, Stefan Zelenak, Jiri Pachernik, Tomas Barta, Michal Pasek, Jana Zidkova, Tomas Novotny /CZE/12'+3'

10.00-10.15

Novel therapeutic strategies for inherited arrhythmia syndromes

Carol Ann Remme /NLD/12'+3'

10.15-10.30

CONventional vs. Optimized PERiprocedural Analgosedation vs. Total IntraVENous anesthesia for Pulsed-Field Ablation: A Randomized Controlled Trial (COOPERATIVE-PFA)Marek Hozman, Veronika Sochorova, Veronika Kunstatova, Pavel Osmancik, Frantisek Duska, Petr Waldauf, Dalibor Herman /CZE/12'+3'

10.30-11.00

Coffee Break

Posters in focus: 1-15:**"Arrhythmias and Electrophysiology" & "Biomarkers and Cardioprotection 1"****11.00-12.30****Session 3:****Cardiogenic Shock and Cardiac Arrest**

chairs: Jan Belohlavek, Petr Ostadal

11.00-11.18

Prague-OHCA Contribution to Cardiac Arrest Knowledge

Jan Belohlavek /CZE/15'+3'

11.18-11.36

Near Death Experiences (NDE) in Patients with Refractory Cardiac Arrest Treated with Conventional and Extracorporeal Cardiopulmonary Resuscitation in light of further researchJaroslava Tereza Kovarova, Frantisek Trantina, Renata Cifkova, Daniel Rob, Jan Belohlavek /CZE/15'+3'

11.36-11.54

Who May Benefit from ECMO in Cardiogenic Shock?

Petr Ostadal /CZE/15'+3'

11.54-12.12

TBD

Mikulas Mlcek /CZE/15'+3'

12.12-12.30

Clinical Outcomes in Patients with Cardiogenic Shock Treated with Wearable Cardioverter Defibrillator: Data from a Multicenter International Registry

Mohammad Abumayyaleh /GER/15'+3'

12.30-13.30

Lunch

13.30-15.00 **Session 4:** **Novel Experimental & Therapeutic Opportunities**

chairs: Danina M. Muntean, Cristina Molina

- 13.30-13.48 **Conclusions from 20 years of cellular AP recordings: AP parameter correlations, solution-, age-, and sex-dependence**
Norbert Szentandrassy, Jozsef Ovari, Zsigmond Kovacs, Balazs Horvath, Janos Magyar, Tamas Banyasz, Peter P. Nanasi /HUN/15'+3'
- 13.48-14.06 **Human specific cGMP regulation: cGMP measurements in living human cardiomyocytes reveal new NO-based drug targets**
Cristina Molina /GER/15'+3'
- 14.06-14.24 **Precision in Practice: Direct Biochemical Monitoring of Drug Efficacy for Personalized Cardiovascular Therapy**
Attila Toth, Umar Muhammad Azeem Jalil, Gergely Visnyovszky, Otto Tatai, Szilard Nagy, Nguyen Huynh Thanh Trai, Miklos Fagyas, Zoltan Papp /HUN/15'+3'
- 14.24-14.42 **New advances in computational modelling of the heart**
Jakub Tomek /GBR/15'+3'
- 14.42-15.00 **Monoamine oxidases link oxidative stress to inflammation in the pathogenesis of vascular dysfunction: insights from rodent models and humans**
Danina M. Muntean, Adrian Sturza /ROU/15'+3'
- 15.00-15.30 Coffee Break

Posters in focus: 16-31:

"Biomarkers and Cardioprotection 2"

"Ischemia-reperfusion Injury, Oxidative Stress and Pharmacotherapy"

15.30-17.00 **Session 7:** **Metabolism, Lipids & Systems Regulation**

chairs: Monika Bartekova, Amir Ravandi

- 15.30-15.48 **Cardioprotective potential of flavonoid quercetin in aged diabetic fatty rats**
Monika Bartekova, Barbora Kalocayova, Linda Bartosova, Tomas Rajtik, Kristina Ferenczyova /SVK/15'+3'
- 15.48-16.06 **Green tea polyphenols inhibit metabolic syndrome-associated cardiomyopathy by modifying endogenous reactive sulphur species**
Jerzy Beltowski /POL/15'+3'
- 16.06-16.24 **The critical roles of healthy gut microbiomes, antioxidant diets, and lifestyle modifications in preventing cardiovascular diseases.**
Harpal Buttar /CAN/15'+3'
- 16.24-16.42 **Oxidative stress and immune/inflammation in metabolic syndrome: the effect of Rosuvastatin**
Marija Vavlukis, Ana Vavlukis /MKD/15'+3'
- 16.42-17.00 **Expanding the Precision Toolbox: The Role of Lipidomics in Cardiovascular Disease**
Amir Ravandi /CAN/15'+3'

HALL B**9.00-10.30 Innovations Symposium 1**

chairs: Petr Tousek, Richard Rokyta

- 9.00-9.22 **From Pixels to Predictions: CCTA and AI Transforming Cardiology**
lecture supported by Siemens Healthcare
 Lukasz Koltowski /POL/ 18'+4'
- 9.22-9.44 **Innovations in Impella Heart Recovery Therapy**
lecture supported by Johnson & Johnson MedTech
 tbd 18'+4'
- 9.44-10.06 **Synchronized Pulsatile ECMO - The Future of Circulatory Mechanical Support**
lecture supported by Fresenius Medical Care
 Petr Ostadal /CZE/ 18'+4'
- 10.06-10.28 **VDI Monitor - Use of ultra high frequency ECG in clinical pacing**
lecture supported by Cardion
 Pavel Jurák /CZE/ 18'+4'
- 10.30-11.00 Coffee Break

Posters in focus: 1-15:
"Arrhythmias and Electrophysiology"
"Biomarkers and Cardioprotection 1"

11.00-12.30 Young Investigator Awards Session 1: Valvular Heart Disease

chairs: Radek Pudil, Hana Linkova

- 11.00-11.15 **Impact of Right Ventricle to Pulmonary Artery Coupling on Outcomes in Patients with Primary Mitral Regurgitation**
 Nadeem Elmasry /NLD/ 12'+3'
- 11.15-11.30 **Concomitant Mitral Regurgitation in Severe Aortic Stenosis — Insights from the CURRENT AS Registry-2**
 Yuki Obayashi /NLD/ 12'+3'
- 11.30-11.45 **Substance XXX - an unknown compound similar to N,N-dimethyltryptamine in Pig Serum After Experimental Cardiac Arrest**
 Petra Tomasova, Jaroslava Tereza Kovarova, Renata Cifkova, Mikulas Mlcek, Leos Tejkl, Petr Kovar, Marek Vecka, Roman Zazula, Michal Moravec /CZE/ 12'+3'
- 11.45-12.00 **Association between body mass index, left ventricular remodeling, and long-term outcome in patients with bicuspid aortic valve**
 Jingjing He /NLD/ 12'+3'
- 12.00-12.15 **The Importance of Sex Differences in Left Ventricular Remodeling for Risk Stratification of Patients with Aortic Regurgitation**
 Huihong Tang /NLD/ 12'+3'
- 12.15-12.30 **The clinical course of phenotype-negative patients with the positive genotype of hypertrophic cardiomyopathy**
Veronika Puchnerova, Michael Jenovsky, Veronika Zoubkova, Petra Peldova, Pavel Votypka, Milan Macek Jr., Petr Ostadal, Jiri Bonaventura /CZE/ 12'+3'
- 12.30-13.30 Lunch

**13.30-15.00 Session 5:
Heart Failure & Cardiomyopathy 1**

chairs: Adriana Duris Adameova, Vojtech Melenovsky

- 13.30-13.48 **Necrosis-like cell death likely plays an important role in heart failure with reduced but not preserved ejection fraction: mechanisms and therapeutic approaches.**
Adriana Duris Adameova, Jaroslav Hrdlicka, Andrea Marcinikova, Diana Vavrincova, Veronika Olejnickova, Csaba Horvath, Eva Goncalvesova, Jan Neckar, Frantisek Kolar, M Saadeh Suleiman, Izabela Jarabicova /SVK/15'+3'
- 13.48-14.06 **Analysis of the quantity of protein products of the titin gene in patients with dilated cardiomyopathy**
Marketa Adamova, Franziska Koser, Eva Kutilkova, Milos Kubanek, Alice Krebsova, Vojtech Melenovsky, Wolfgang Linke /CZE/15'+3'
- 14.06-14.24 **Reaching target fundamental drug doses in patients with chronic heart failure: MOST HF**
Filip Malek, Josef Dodulik, Gabriela Sterbakova, Iveta Svobodova, Hana Burianova, Josef Danek, Jana Biathova, Julius Godava, Renata Aiglova, Jiri Hanis, Martina Vitaskova, Jiri Vesely, Vojtech Melenovsky /CZE/15'+3'
- 14.24-14.42 **Pulmonary congestion assessment by automated quantitative photon-counting computer tomography in heart failure patients**
Vojtech Melenovsky, Dominik Jenca, Theodor Adla, Svetlana Yarnykh, Hikmet Al-Hiti, Jana Binova, Sam Peterson, John D Newell, Barry A Borlaug /CZE/15'+3'
- 14.42-15.00 **SGLT2 Inhibitors and Cardiac Metabolic Remodelling: Insights from Models of Heart Failure, Ischemia, and Hypertrophy**
 Attila Kiss /AUT/15'+3'
- 15.00-15.30 Coffee Break

Posters in focus: 16-31:

"Biomarkers and Cardioprotection 2"

"Ischemia-reperfusion Injury, Oxidative Stress and Pharmacotherapy"

15.30-17.00 Young Investigator Awards Session 2:**Coronary Dysfunction & Vascular Remodelling**

chairs: Michael Aschermann, Petr Kala (FN Motol)

- 15.30-15.45 **Comprehensive coronary functional testing in patients with angina pectoris with nonobstructive coronary arteries: A Single-Center Experience**
Veronika Gasparkova, Petr Kala, Petr Hajek, Radka Adlova, Petr Ostadal /CZE/.12'+3'
- 15.45-16.00 **Sex differences in cardiac damage due to pressure overload: the role of inflammation and oxidative stress**
Csaba Horvath, Izabela Jarabicova, Jaroslav Hrdlicka, Veronika Olejnickova, Jan Neckar, Frantisek Kolar, Ivana Radosova, Rastislav Medved, Adriana Adameova /SVK/.....12'+3'
- 16.00-16.15 **Prediabetes in ST-elevation myocardial infarction patients: implications for left ventricular function one year post-infarction**
 Laima Caunite /NLD/.....12'+3'
- 16.15-16.30 **The effect of a comprehensive cardiac rehabilitation program on exercise parameters in patients with arterial hypertension**
Libor Jelinek, Radek Adamek, Marketa Sovova, Jan Berger, Eliska Sovova, Eva Kocianova, Jan Olsr, Tomas Chupan, Filip Matejka /CZE/12'+3'
- 16.30-16.45 **Sex Based Differences in Association with Plaque Burden and Ischemia — a CREDESCENCE Trial Substudy**
 Yipu Ding /NLD/12'+3'
- 16.45-17.00 **New double-hit rat model of myocardial infarction with pulmonary hypertension**
Matus Miklovic, Matej Molnar, Petr Kala, Katerina Kroupova, Zdenka Vaňourkova, Dominik Havlicek, Daniel Jirak, Vojtech Melenovsky /CZE/12'+3'

Tuesday • November 4th, 2025

MAIN HALL (CD)

9.00-10.30	IACS Symposium 2: Roberto Bolli Symposium for Cardiovascular Investigators
	chairs: Vladimir Jakovljevic, Lorrie A. Kirshenbaum, Roberto Bolli
9.00-9.22	The effects of imiquimod induced psoriasis like pathology on cardiovascular function and redox balance <u>Vladimir Jakovljevic</u> , Jasmina Sretenovic, Katarina Mihajlovic, Maja Muric, Ivan Srejovic /SRB/ 18'+4'
9.22-9.44	Immunobiology of Unstable Plaques in Carotid Artery and Novel Treatment Strategies Devendra K. Agrawal /USA/ 18'+4'
9.44-10.06	Impaired Autophagy Mediates Doxorubicin Cardiomyopathy Through the cGAS-STING Inflammasome Pathway Raneeta Thingnam, Rimpay Dhirga, <u>Lorrie A. Kirshenbaum</u> /CAN/ 18'+4'
10.06-10.28	Infection and Cardiovascular Disease Grant N. Pierce /CAN/ 18'+4'
10.30-11.00	Coffee Break
	Posters in focus: 32-48: "Coronary Artery Disease, Vacuolopathy and Hypertension" "Heart Failure and Cardiomyopathy 1"
11.00-12.30	IACS Symposium 3: Advances in Cardiovascular Medicine
	chairs: Buddhadeb Dawn, Devendra K. Agrawal
11.00-11.22	Advances in MSC therapy: Bench to bedside Buddhadeb Dawn /USA/ 18'+4'
11.22-11.44	Cardiology on High Beam: Obstacles and Opportunities Joseph Hill /USA/ 18'+4'
11.44-12.06	Cardioprotective effects of pyridoxine in experimental diabetic cardiomyopathy and hyperhomocysteinemia: evaluation on cardiometabolic status, oxidative stress and histomorphological changes <u>Dragan Djuric</u> , Slavica Mutavdzin Krneta, Dusan Todorovic /SRB/ 18'+4'
12.06-12.28	Distinct functions of cardiac β-adrenergic receptors in the T-tubule vs. outer surface membrane Rodolphe Fischmeister /FRA/ 18'+4'
12.30-13.30	Lunch

13.30-15.00 **Session 10:** **Heart Failure & Cardiomyopathy 2**

chairs: Zoltan Papp, Filip Malek

- 13.30-13.48 **The comparison of ECG findings in patients with light-chain and wild-type transthyretin cardiac amyloidosis at the time of diagnosis**
Jan Habasko, Barbora Chocholova, Nikol Kubinova, Petr Kuchynka, Tomas Palecek /CZE/15'+3'
- 13.48-14.06 **The comparison of echocardiographic profiles in patients with al and wild-type ATTR cardiac amyloidosis at the time of diagnosis**
Nikol Kubinova, Jan Habasko, Barbora Chocholova, Petr Kuchynka, Tomas Palecek /CZE/15'+3'
- 14.06-14.24 **To what extent does myosin inhibition limit cardiac performance?**
Zoltan Papp, Daniel Priksz, Fruzsina Sarkany, Beata Bodi /HUN/15'+3'
- 14.24-14.42 **CIEDs in patients with cardiac sarcoidosis - data from clinical practice**
Gabriel Piskalla, Martin Valek, Petr Kuchynka, Kristyna Kysperka, Tomas Palecek, Zdeňka Fingrova, Sudheera Magage, Miroslav Psenicka, Eva Kejrova, Jan Habasko, Stepan Havranek /CZE/15'+3'
- 14.42-15.00 **HiPSC-CM as a model to study exercise-induced arrhythmias in HCM?**
Torsten Christ /GER/15'+3'
- 15.00-15.30 Coffee Break

Posters in focus: 49-64:
"Heart Failure and Cardiomyopathy 2"

15.30-17.00 **Session 13:** **Coronary, Valvular and Structural Heart Disease**

chairs: Petr Kala (FN Brno), Petr Hajek

- 15.30-15.48 **One-year outcomes of high-risk percutaneous coronary interventions with versus without mechanical circulatory support: propensity score-matched analysis**
Ewelina Błażejowska /POL/15'+3'
- 15.48-16.06 **Valvular Heart Disease- Surgical Treatment- Update**
Henrique Furtado /BRA/15'+3'
- 16.06-16.24 **Roles and mechanisms of lactate in pathogenesis of Takotsubo syndrome studying in human induced pluripotent stem cell derived cardiomyocytes**
Binyi Zhao /GER/15'+3'
- 16.24-16.42 **New Onset of Arrhythmia After Patent Foramen Ovale (PFO) Closure Study - Preliminary results**
Martina Podolec, Petr Volf, Veronika Bulkova, Aneta Dvorakova, Martin Mates, Petr Neuzil /CZE/15'+3'
- 16.42-17.00 **Age Variation in Patients with Troponin Level Elevation Without Obstructive Culprit Lesion or Suspected Myocardial Infarction with Non-obstructive Coronary Arteries—Long-Term Data covering over Decade**
Mohammad Abumayyaleh /GER/15'+3'
- 17.00-17.30 Coffee Break

17.30-18.30 **Young Investigators Awards Ceremony** **Closing Ceremony**

chairs: Petr Ostadal, Zuzana Motovska, Ales Linhart,
Vladimir Jakovljevic, Istvan Baczko

HALL A**9.00-10.30****Session 8:****Exercise Effects and Novel Pharmacological Intervention**

chairs: Alicia D'Souza, Ramesh Goyal

9.00-9.15

Complementary Cardiometabolic Effects of Evolocumab and Simvastatin-CoQ10 Nanoparticles in Obese RatsOlga Pechanova, Ezgi Saman, Martina Cebova, Andrej Barta /SVK/12'+3'

9.15-9.30

Off-target effects of a dual GLP-1/GIP receptor agonist via modulation of the β -adrenoceptors and glucose metabolism in cardiac cells

Belma Turan /TUR/12'+3'

9.30-9.45

Cardioprotective effects of natural polyphenolsFerenc Gallyas Jr., Roland Gal, Katalin Fekete, Robert Halmosi /HUN/12'+3'

9.45-10.00

Modulation of NF- κ B mediated MMP-9, ICAM and VCAM by Bioflavonoids for diabetes-induced cardiomyopathy and retinopathy

Ramesh Goyal /IND/12'+3'

10.00-10.15

Exercise-induced desaturation in patent foramen ovale: Insights from the MEASURE PFO StudyMartina Podolec, Jiri Dostal, Josef Stasek, Petr Volf, Aneta Dvorakova, Martin Mates, Petr Neuzil /CZE/12'+3'

10.15-10.30

Endurance exercise remodels pulmonary vein sleeve myocytes and promotes a proarrhythmic atrial substrate

Alicia D'Souza /GBR/12'+3'

10.30-11.00

Coffee Break

Posters in focus: 32-48:**"Coronary Artery Disease, Vaculopathy and Hypertension"****"Heart Failure and Cardiomyopathy 1"****11.00-12.30****Session 9:****Coronary Artery Disease, Atherosclerosis, Protection & Regeneration**

chairs: Tatiana Ravingerova, Sanjiv Dhingra

11.00-11.18

Recent advances in non-pharmacological strategies aimed to trigger innate cardioprotection in healthy and diseased myocardiumTatiana Ravingerova, Lubomir Lonek, Jan Graban, Veronika Farkasova /SVK/ ...15'+3'

11.18-11.36

Establishment of a Registry for Patients with Spontaneous Coronary Artery Dissection (SCAD): Rationale, Design, and Preliminary InsightsKarolina Bartoskova, Petr Tousek /CZE/15'+3'

11.36-11.54

Allogeneic stem cell therapy for cardiac regenerative medicine

Sanjiv Dhingra /CAN/15'+3'

11.54-12.12

Effects of classic anti-arrhythmic drugs in short QT syndrome type 5: preclinical insights from human-induced pluripotent stem cell-derived cardiomyocytes

Zongqian Xue /GER/15'+3'

12.12-12.30

Genetic Causes of Aortic Syndromes in a Representative Czech Population SampleDominik Gardas, Eva Kutilkova, Pavel Votypka, Petra Peldova, Veronika Zoubkova, Jiri Hostasa, Ondrej Szarsoi, Marketa Adamova, Jan Janousek, Josef Kautzner, Milan Macek, Alice Krebsova /CZE/15'+3'

12.30-13.30

Lunch

13.30-15.00 Session 11:**Arrhythmias & Electrophysiology 2**

chairs: Jose Jalife, Jakub Honek

- 13.30-13.45 **Comparison of procedural workflow, safety, and one-year efficacy of catheter ablation of atrial fibrillation using radiofrequency and pulsed-field energy**
Sabri Hassouna, Dalibor Herman, Marek Hozman, Jakub Karch, Jana Vesela, Pavel Osmancik /CZE/ 12'+3'
- 13.45-14.00 **Involvement of CaV1.2 channels in a LQT2 (HERG) mutation: ion channel crosstalk?**
 Antonio Zaza /ITA/ 12'+3'
- 14.00-14.15 **Bioresorbable electronic devices for cardiac pacing and defibrillation**
Igor Efimov, Eric Rytkin, John Rogers /USA/ 12'+3'
- 14.15-14.30 **A lysosomal ion channel variant that disrupts lysosomal-to-mitochondrial interaction is a novel genetic cause of short QT syndrome**
 Jose Jalife /ESP/ 12'+3'
- 14.30-14.45 **Roles and mechanisms of NLRP3 inflammasome related signaling in pathogenesis of Brugada Syndrome**
 Chen Yan /GER/ 12'+3'
- 14.45-15.00 **Connexin 43 as a novel calcium transport pathway in the nuclear envelope of human induced pluripotent stem cell derived cardiomyocytes**
 Noemi Toth, Nordine Helassa, Martin Morad 12'+3'
- 15.00-15.30 Coffee Break

Posters in focus: 49-64:**"Heart Failure and Cardiomyopathy 2"****15.30-17.00 Session 14:****Heart Failure and Hemodynamics**

chairs: Petr Kuchynka, Jan Naar

- 15.30-15.48 **Change in pulse pressure and stroke volume variation induced by passive leg raise as a predictor of fluid response in acute cardiac care patients**
Jan Naar, Andreas Krüger, Marek Janotka, Marcela Sumanova, Katarina Koscova, Petr Neuzil, Petr Ostadal /CZE/ 15'+3'
- 15.48-16.06 **Cardio-Oncologic Considerations in Heart Failure with Mildly Reduced Ejection Fraction: Prevalence and Prognostic Impact of Malignancies**
 Tobias Schupp /GER/ 15'+3'
- 16.06-16.24 **Prevalence and Prognosis of Multimorbidity in Heart Failure with Mildly Reduced Ejection Fraction**
 Marielen Reinhardt /GER/ 15'+3'
- 16.24-16.42 **Prognostic Significance of Adaptive vs. Maladaptive Right Ventricular Hypertrophy in Heart Failure: A Prospective Cohort Study**
 Lale Dinc Asarcikli /NLD/ 15'+3'
- 16.42-17.00 **Sex differences in cardiac remodelling induced by early abdominal aortic constriction in Wistar rats**
Jaroslav Hrdlicka, Eva Zabrodska, Alena Kvasilova, Anna Jelinkova-Jokelova, Veronika Olejnickova /CZE/ 15'+3'

HALL B**9.00-10.30 Young Investigator Awards Session 3:
Heart Failure, Cardiomyopathy & Protection**

chairs: Filip Malek, Tomas Hnat

- 9.00-9.15 **Exploring the Potential Etiological Role of Cardiac Autoimmunity in Post-COVID Syndrome**
Szilard Nagy, Otto Tatai, Huynh Thanh Trai Nguyen, Zoltan Papp, Attila Toth /HUN/
..... 12'+3'
- 9.15-9.30 **Integrative In Vivo and In Silico Analysis of Exercise-Induced Cardioprotection in Hypertensive and Normotensive Rats**
Reyhaneh Nejati Bervanlou, Jan Graban, Tatiana Ravingerova, Daniela Jezova, Barbora Kalocayova, Veronika Farkasova, Lubomir Lonek, Natasa Hlavacova /SVK/
..... 12'+3'
- 9.30-9.45 **Study of the effect of beta-hydroxybutyrate on the contractility of isolated myocardium in rat models**
Thu Thao Nguyen, Jan Kropacek /CZE/ 12'+3'
- 9.45-10.00 **A soluble guanylate cyclase stimulator improves survival in a rat model of heart failure with reduced ejection fraction and chronic kidney disease induced by aorto-caval fistula and 5/6 nephrectomy**
Jan Mikula, Petr Kala, Ludek Cervenka /CZE/ 12'+3'
- 10.00-10.15 **Correlation of heart failure biomarkers and markers of vascular remodelling with prognostic scores in outpatients with chronic heart failure**
Eva Tyleckova, Jana Vranova, Katerina Novotna, Dmitri Matveyev, Zuzana Jiraskova Zakostelska, Milan Chovanec, Petr Doskar, Petr Neuzil, Filip Malek /CZE/ 12'+3'
- 10.15-10.30 **Role of biomarkers of cardiac and vascular remodeling in the assessment of volemia status in patients with chronic heart failure**
Dmitry Matveyev, Filip Malek, Petr Doskar, Jana Vranova, Katerina Novotna, Eva Tyleckova, Tomas Mandula, Zuzana Jiraskova Zakostelska, Petr Neuzil /CZE/
..... 12'+3'
- 10.30-11.00 Coffee Break

Posters in focus: 32-48:**"Coronary Artery Disease, Vaculopathy and Hypertension"****"Heart Failure and Cardiomyopathy 1"****11.00-12.30 Innovations Symposium 2**

chairs: Milos Taborsky, Zuzana Motovska

- 11.00-11.22 **AI in Health Care**
lecture supported by Bristol-Myers Squibb
Matej Misar /CZE/ 18'+4'
- 11.22-11.44 **Image Guided Therapy Today and in the Future**
lecture supported by Philips Health Systems
Erik Buts /NLD/ 18'+4'
- 11.44-12.06 **Conduction System Pacing - The New Standard in the Treatment of Bradycardia**
lecture supported by Biotronik
Jan Holy /CZE/ 18'+4'
- 12.06-12.28 **Next Chapter in TAVI Evidence**
lecture supported by Edwards Lifesciences
tbd 18'+4'

12.30-13.30 Lunch

**13.30-15.00 Session 12:
Hypertension & Preventive Cardiology**

chairs: Renata Cifkova, Goran Krstacic

- 13.30-13.48 **Dynamic performance assessment of athletes and its relation to cardiovascular risk**
Radek Adamek, Eliska Sovova, Libor Jelinek, Marketa Sovova, Ota Jiravsky, Bogna Jiravska-Godula, Dalibor Pastucha /CZE/15'+3'
- 13.48-14.06 **30-year trends in blood pressure, prevalence, awareness, treatment and control of hypertension in women of reproductive age. The Czech Monica and Czech Post-Monica studies**
Renata Cifkova, Alena Hrubes Krajcoviechova, Jan Bruthans, Marie Jozifova, Peter Wohlfahrt, Ales Linhart, Jiri Widimsky, Jan Filipovsky, Vera Lanska /CZE/15'+3'
- 14.06-14.24 **Diabetes and prediabetes in coronary heart disease patients in EUROASPIRE studies**
Jan Bruthans, Otto Mayer, Jan Polak, Lars Ryden, Jan Bruthans jun /CZE/15'+3'
- 14.24-14.42 **Preventive cardiology: A new role of high sensitive troponin I**
Goran Krstacic, Antonija Krstacic /HRV/15'+3'
- 15.00-15.30 Coffee Break
- Posters in focus: 49-64:
"Heart Failure and Cardiomyopathy 2"**

POSTERS

Monday • November 3rd

10.30-11.00

"Arrhythmias and Electrophysiology"

- 1) **Concentration-dependent electrophysiological effects of amsacrine on canine ventricular cardiomyocytes**
Jozsef Ovari, Zsigmond Kovacs, Janos Magyar, Tamas Banyasz, Peter Pal Nanasi, Balazs Horvath, Norbert Szentandrassy /HUN/
- 2) **Effect of right ventricular pacing lead site on mortality - results of pilot study**
Katerina Luxova, Tomas Novotny, Tomas Klabik, Sepsi Milan, Martin Hetmer, Milan Kozak, Lubos Krivan, Jitka Vlasinova, Sam Lietava, Marian Nociar, Petr Kala /CZE/
- 3) **Distinct effects of PDE5 inhibition on cGMP and calcium signalling in human atrial myocytes from patients in sinus rhythm versus atrial fibrillation**
David Revuelta, Andrea Brunetti, Beate Reiter, Evaldas Girdauskas, Leif Hove-Madsen, Cristina E. Molina /GER/
- 4) **Chronic amiodarone treatment modifies electrophysiological response to IKr block in human failing ventricular myocardium**
Gabor Mohacsi, Leila Topal, Benjamin Paskuj, Gergő Bitay, Norbert Nagy, Norbert Jost, Laszlo Virag, Istvan Baczko, Andras Varro /HUN/
- 5) **Molecular changes in calcium handling associated with increased arrhythmia susceptibility in a large animal model of intensive training**
Vivien Demeter-Haludka, Szilvia Deri, Leila Topal, Norbert Nagy, Noemi Zombori-Toth, Gergő Bitay, Zsolia Kohajda, Alexandra Polyak, Jenő A. Pinter, Aiman S. A. Mohammed, Istvan Baczko, Andras Varro /HUN/
- 6) **ELECTROPHYSIOLOGICAL EFFECTS OF EMPAGLIFLOZIN AND DAPAGLIFLOZIN: IMPLICATIONS FOR PEAK SODIUM CURRENT**
Benjamin Paskuj, Vivien Demeter-Haludka, Gabor Mohacsi, Gergő Bitay, Leila Topal, Norbert Nagy, Zoltan Husti, Tibor Hornyik, Andras Varro, Istvan Baczko /HUN/
- 7) **Cardiac electrophysiological effects of chronic testosterone administration: insights from canine in vivo and in vitro studies**
Leila Topal, Jenő Pinter, Gabor Mohacsi, Benjamin Paskuj, Vivien Demeter-Haludka, Alexandra Polyak, Gergő Bitay, Zsolia Kohajda, Norbert Nagy, Istvan Baczko, Andras Varro /HUN/
- 8) **Electrophysiological remodelling of the pulmonary vein in a canine model of training-induced atrial fibrillation**
Tibor Hornyik, Zoltan Husti, Luca Soattin, Leila Topal, Jenő Pinter, Aiman S. A. Mohammed, Eleonora Torre, Gabriella Forte, Mark R. Boyett, Laszlo Virag, Norbert Jost, Matteo E. Mangoni, Bo H. Bentzen, Gwilym M. Morris, Alicia D'Souza, Andras Varro, Istvan Baczko /HUN/
- 9) **Investigating the arrhythmogenic effect of action potential alternans in human heart failure**
Gergő Bitay, Kalman Benke, Ali Alex Sayour, Tamas Radovits, Miklos Bitay, Andras Varro, Istvan Baczko, Bela Merkely, Norbert Nagy /HUN/
- 10) **Is IKur more than an atrial current? Effect of selective IKur inhibition on canine and human cardiac ventricular and Purkinje fibers**
Alaa Amin E. Abdelmagid, Leila Topal, Aiman Saleh A. Mohammed, Gabor Mohacsi, Benjamin Paskuj, Muhammad Naveed, Vivien Demeter-Haludka, Szilvia Deri, Gergő Bitay, Zsolia Kohajda, Norbert Nagy, Laszlo Virag, Istvan Baczko, Norbert Jost, Andras Varro /HUN/

Monday • November 3rd**10.30-11.00****"Biomarkers and Cardioprotection 1"**

- 11) Serum Neprilysin Activity Assay and Its Implications in Renal and Oncologic Conditions: A Cardiovascular Perspective**
Tamas Bence Pinter, Petra Erzsebet Biro, Attila Adam Szabo, Zsuzsa Muszka, Miklos Fagyas /HUN/
- 12) MATRIX METALLOPROTEINASES AS AN EARLY-STAGE MARKERS OF CARDIAC DAMAGE IN CANINE HEARTWORM DISEASE**
Rados Knezevic, Katarina Novakovic, Kristina Spariosu, Selena Duric, Anja Ilic Bozovic, Milica Kovacevic Filipovic, Zoran Miloradovic /SRB/
- 13) Galectin-3 shapes systemic inflammatory signatures in psoriasis: Troponin-related serum changes**
Nikola Mitovic, Marija Kosic, Sanja Despotovic, Sanja Stankovic, Sanjin Kovacevic, Maja Stojanovic, Mirjana Milinkovic Sreckovic, Marija Stankovic /SRB/
- 14) Association of galectin 3 gene polymorphism with myocardial infarction risk**
Jelena Becarevic, Vanja Vidovic, Zana Radic Savic, Irina Milovac, Irina Milovac, Nikola Malesevic, Danilo Stevandic, Tamara Kovacevic Preradovic, Stojko Vidovic, Ranko Skrbic /BIH/
- 15) Cardioprotection via Adaptation to Chronic Hypoxia: HIF-1 α as a Key Driver of Metabolic and Mitochondrial Remodeling**
Barbora Opletalova, Lukas Alan, Adam Eckhardt, Gabriela Pavlinkova, Frantisek Kolar, Petra Alanova /CZE/

Monday • November 3rd**15.00-15.30****"Biomarkers and Cardioprotection 2"**

- 16) HIF-1 α Signaling Mediates Cardioprotection Through Metabolic and Mitochondrial Remodeling in Chronic Hypoxia**
Petra Alanova, Barbora Opletalova, Lukas Alan, Romana Bohuslavova, Miroslav Ferko, Adam Eckhardt, Kristyna Holzerova, Pavel Abaffy, Bohuslav Ostadal, Gabriela Pavlinkova, Frantisek Kolar /CZE/
- 17) Natural Cardioprotection in Psoriasis: Effects of Melissa officinalis Extract on Heart Performance and Oxidative Markers**
Jasmina Sretenovic, Katarina Mihajlovic, Jovana Joksimovic Jovic, Maja Muric, Jovan Milosavljevic, Nevena Draginic, Vladimir Jakovljevic /SRB/
- 18) Evaluation of Chenodeoxycholic Acid as a Cardioprotective Agent in Isoprenaline-Induced Myocardial Injury**
Dorde Dukanovic, Dalibor Mihajlovic, Zana M. Maksimovic, Sonja Marinkovic, Ugljesa Malicevic, Snezana Uletilovic, Nebojsa Mandic-Kovacevic, Sanja Jovicic, Zorislava Bajic, Tanja Sobot, Momir Mikov, Ranko Skrbic /BIH/

Monday • November 3rd**15.00-15.30****"Ischemia-reperfusion Injury, Oxidative Stress and Pharmacotherapy"**

- 19) Intermittent Fasting and Myocardial Ischemia-Reperfusion Injury in Mice: Effect of HIF-1 α**
Miloslava Chalupova, Kristyna Holzerova, Daniel Benak, Gabriela Pavlinkova, Frantisek Kolar, Marketa Hlavackova /CZE/
- 20) More mitochondrial fission mediator Drp1 in endothelial cells - increased microvascular damage after ischemia/reperfusion injury**
Eickelmann, Chantal, LeBlanc, Amanda J, Beyrer, Andreas M, Kleinbongard, Petra /GER/

- 21) Molecular Adaptations in the Heart Following Perinatal Hypoxia: Insights from Multi-Omics Analysis**
Kristyna Holzerova, Daniel Benak, Miloslava Chalupova, Jaroslav Hrdlicka, Gabriela Pavlinkova, Valeria Fabriciova, Frantisek Kolar, Marketa Hlavackova /CZE/
- 22) Cardiovascular effects of four-week curcumin treatment on the heart of Wistar rats in a model of experimental rheumatoid arthritis**
Tamara Nikolic Turnic, Katarina Djordjevic, Bozidar Pindovic, Zorka Stanic, Katarina Postolovic, Vladimir Zivkovic, Vladimir Jakovljevic /SRB/
- 23) EFFECTS OF IMEGLIMIN ON PLATELET MITOCHONDRIAL RESPIRATION AND OXIDATIVE STRESS IN PATIENTS WITH TYPE 2 DIABETES MELLITUS**
Theia Stanciu-Lelcu, Vlad Florian Avram, Maria Daniela Danila, Adina Valentina Furdui-Linta, Adrian Sturza, Mirela-Danina Muntean, Bodgan Timar /ROU/
- 24) Sex-specific differences in pro-inflammatory and oxidative stress responses in pressure overload-induced cardiac damage.**
Rastislav Medved, Izabela Jarabicova, Jaroslav Hrdlicka, Veronika Olejnickova, Jan Neckar, Frantisek Kolar, Adriana Adameova, Csaba Horvath /SVK/
- 25) TOPICAL APPLICATION OF IMMORTELLE ESSENTIAL OIL- ENRICHED OINTMENT MITIGATES OXIDATIVE STRESS AND INFLAMMATION IN WOUND TISSUE**
Marijana Andjic, Nevena Lazarevic, Aleksandar Kocovic, Vladimir Jakovljevic, Jovana Bradic /SRB/
- 26) VALORIZATION OF WINE INDUSTRY BYPRODUCTS: UNLOCKING ANTIOXIDANT POTENTIAL FOR DIABETES-ASSOCIATED APPLICATION**
Jovana Bradic, Vladimir Jakovljevic, Edina Avdovic, Anica Petrovic, Jovana Joksimovic Jovic, Marko Simic, Aleksandar Kocovic /SRB/
- 27) The effect of preventive and therapeutic administration of curcumin on oxidative stress in experimental model of rheumatoid arthritis**
Katarina Djordjevic, Tamara Nikolic Turnic, Bozidar Pindovic, Katarina Mihajlovic, Jelena Terzic, Zorka Stanic, Katarina Postolovic, Vladimir Zivkovic, Vladimir Jakovljevic /SRB/
- 28) Antioxidant and Vasodilatory Properties of Medicinal Plant *Geranium robertianum* L.**
Andela Bojanic, Nebojsa Mandic-Kovacevic, Milica Gajic-Bojic, Relja Surucic, Ranko Skrbic /BIH/
- 29) ANTI-INFLAMMATORY EFFECTS OF POLYPHENOL-ENRICHED HYDROGELS IN DIABETIC WOUND HEALING**
Aleksandar Kocovic, Vladimir Jakovljevic, Edina Avdovic, Anica Petrovic, Jovana Joksimovic Jovic, Marko Simic, Jovana Bradic /SRB/
- 30) An investigation on the effects of a phenolic-containing compound pine bark extract in an aging-induced AC16 cells**
Pinar Cevikbas Ilik, Fatemeh Hosseimpourshirazi, Lubne Aljaser, Yasemin Atici, Yusuf Olgar, Belma Turan /TUR/
- 31) Liraglutide Restores Zinc Homeostasis and Mitochondrial Function in an Insulin-Resistant Senescent Cardiomyocyte Model**
Fatemeh Hosseimpourshirazi, Umur D. Mendes, Zeynep B. Aksoy, Dunya Aydos, Merve Sözer, Manolya Gundogdu, Suatnur Sık, Erkan Tuncay, Yusuf Olgar /TUR/

Tuesday • November 4th

10.30-11.00

Coronary Artery Disease, Vaculopathy and Hypertension

- 32) Introduction of Photon-Counting CT-Derived pFAI to Assess Coronary Inflammation: Initial Preliminary Results**
Eliska Nemeckova, Martin Maly /CZE/
- 33) Characteristics and outcomes of acute coronary syndrome in young patients: a single-centre analysis**
Vojtech Berka, David Bauer, Adam Fojtik, Viktor Kocka, Petr Tousek /CZE/

- 34) Cardiac Involvement in Takayasu Arteritis: A Case of Concurrent Coronary Artery Disease and Severe Aortic Regurgitation**
Ionica Loredana- Nicoleta, Rachieru Ciprian, Goje Iacob Daniel, Mitu Diana Alexandra, Lighezan Daniel Florin, Feier Horea Bogdan /ROU/
- 35) Peripartur Baroreflex Sensitivity in Chronic Hypertensive Dams**
Mirjana Jovanovic, Nikola Mitovic, Zoran Bukumiric, David Murphy, Nina Japundzic-Zigon /SRB/
- 36) CHRONIC SALT LOADING DESENSITIZES VP GENE TRANSCRIPTION IN SON OF BORDERLINE HYPERTENSIVE RATS**
Bojana Stevanovic, Marija Kosic, Tatjana Tasic, David Murphy, Nina Japundzic-Zigon /SRB/
- 37) OLIVE LEAF EXTRACT AND LOSARTAN BLUNTED FIBROSIS BY DOWNREGULATING β -CATENIN/FIBRONECTIN PATHWAY IN HYPERTENSIVE RATS WITH CHRONIC KIDNEY DISEASE: IS WNT4 RESPONSIBLE?**
Danijela Karanovic, Nevena Mihailovic-Stanojevic, Milan Ivanov, Una-Jovana Vujacic, Jelica Grujic-Milanovic, Maja Zivotic, Dragana Dekanski, Djurdjica Jovovic, Zoran Miloradovic /SRB/
- 38) MONOAMINE OXIDASE OVEREXPRESSION PERSISTS DESPITE GLYCEMIA NORMALIZATION AND CONTRIBUTES TO ENDOTHELIAL DYSFUNCTION IN EXPERIMENTAL DIABETES**
Adrian Sturza, Darius Buriman, Maria Danila, Andreea Anechitei, Vlad Avram, Horea B. Feier, Claudia Borza, Danina M. Muntean /ROU/
- 39) Mechanisms of diazepam-induced vasodilation in human umbilical arteries**
Milica Gajic Bojic, Andela Bojanic, Aneta Stojmenovski, Zorislava Bajic, Tanja Sobot, Zana Maksimovic, Sonja Marinkovic, Natasa Stojakovic, Svjetlana Stoisavljevic Satara, Ranko Skrbic /BIH/
- 40) Undermining the molecular roots of atherosclerosis: In Silico screening of commercially available drugs and their natural analogs targeting DKK2 Protein - Molecular docking and ADME-based evaluation**
Dorde Kovacevic, Nikola Mitovic, Dragan Ilic, Milica Milosevic, Maja Milosevic, Sanjin Kovacevic, Jelena Nesovic Ostojic, Marija Stankovic /SRB/

Tuesday • November 4th

10.30-11.00

Heart Failure and Cardiomyopathy 1

- 41) Identification of diagnostic and prognostic biomarkers in heart failure patients undergoing levosimendan treatment**
Petra Erzsebet Biro, Tamas Bence Pinter, Arnold Peter Raduly, Mate Kovacs, Attila Adam Szabo, Miklos Fagyas, Attila Borbely /HUN/
- 42) Prognostic value of pulmonary circulation parameters in patients with idiopathic recent-onset dilated cardiomyopathy**
Lukas Opatril, Mary Mojica-Pisciotti, Roman Panovsky, Jan Machal, Tomas Holecek, Vera Feitova, Julius Godava, Hana Poloczko, Vladimir Kincl, Jan Krejci /CZE/
- 43) Role of inflammation and diabetes mellitus in echocardiographic parameters and New York Heart Association Functional Classification in patients with recent-onset dilated cardiomyopathy**
K. Motilova /CZE/
- 44) CHRONIC LEMON BALM EXTRACT ADMINISTRATION MODULATES THE PROGRESSION OF DILATED CARDIOMYOPATHY IN EXPERIMENTAL AUTOIMMUNE MYOCARDITIS**
Nevena Lazarevic, Marijana Andjic, Marina Nikolic, Jovana Novakovic, Jasmina Sretenovic, Isidora Milosavljevic, Vladimir Jakovljevic /SRB/
- 45) THE ROLE OF MITOCHONDRIAL DAMAGE-ASSOCIATED MOLECULAR PATTERNS IN NECROSIS-LIKE CELL DEATH FOLLOWING MYOCARDIAL INFARCTION-INDUCED HEART FAILURE**
Andrea Marcinikova, Diana Vavrincova, Soňa Sykorova, Jan Neckar, Veronika Olejnickova, Csaba Horvath, Izabela Jarabikova, Adriana Duris Adameova /SVK/

46) Necroptosis in an early stage of post-myocardial infarction heart failure is likely mediated by tumour necrosis factor but not interferons

Izabela Jarabicova, Csaba Horvath, Jaroslav Hrdlicka, Almos Boros, Martin Chudy, Eva Goncalvesova, Jan Neckar, Frantisek Kolar, Adriana Adameova /SVK/

47) Examination of cardiac effects of modern antidiabetic treatment on physical inactivity and obesity-induced heart failure with preserved ejection fraction (HFpEF) animal model

Szilard Toth, Krisztina Fekete, Katalin Ördög, Ferenc Gallyas, Kalman Toth, Robert Halmosi, Laszlo Deres /HUN/

48) Iron deficiency in patients after heart transplantation

Maria Bakosova, Julius Godava, Tomas Honek, Hana Poloczkova, Eva Ozabalova, Petr Hude, Jan Krejci, Helena Bedanova, Petr Nemec /CZE/

Tuesday • November 4th

15.00-15.30

Heart Failure and Cardiomyopathy 2

49) Isoprenaline-induced chronic heart failure is alleviated by pyridostigmine treatment in rats

Zana M Maksimovic, Sonja T Marinkovic, Tanja Sobot, Dorde Dukanovic, Snezana Uletilovic, Nebojsa Mandic-Kovacevic, Sanja Jovicic, Milka Maticic, Milica Gajic Bojic, Aneta Stojmenovski, Andela Bojanic, Ranko Skrbic, Milos P Stojiljkovic /BIH/

50) The effect of SGLT2 inhibitors on secretoneurin levels in heart failure patients: a six-month follow-up

Jozef Dodulik, Jiri Plasek, Marie Lazarova, Diana Drienikova, Nela Chobolova /CZE/

51) Biomarkers

Lenka Dodulikova, Jozef Dodulik, Jiri Plasek, Jan Vaclavik /CZE/

52) Laboratory and clinical determinants of eligibility for iron replacement in heart failure patients with reduced ejection fraction: a retrospective cohort study

Kristyna Podzemna, Jozef Dodulik, Jiri Plasek, Jan Vaclavik /CZE/

53) Effect of conventional and new type of inotropic agents on mitochondrial respiration

Laszlo Deres, Kitti Bruszt, Orsolya Horvath, Katalin Ordog, Szilard Toth, Eszter Vamos, Ferenc Gallyas, Kalman Toth, Robert Halmosi /HUN/

54) Adipose Tissue Lipid Remodeling in Heart Failure

Barbora Judita Kasperova, Ondrej Kuda, Martin Riecan, Petra Janovska, Eliska Haasova, Katerina Adamcova, Tomas Cajka, Jan Kopecky, Milos Mraz, Martin Haluzik, Vojtech Melenovsky /CZE/

55) A Translational Two-Hit HFpEF Mouse Model Reflecting Diastolic Dysfunction, Pulmonary Hypertension, and Endothelial Impairment

Christoph A. Baumgartner, Ibrahim Aykac, Ouafa Hamza, Attila Kiss, Bruno K. Podesser /AUT/

56) Effects of dabigatran and nattokinase on in vivo and ex vivo cardiac function in isoproterenol-induced heart failure rats

Maja Muric, Ivan Srejovic, Aleksandra Stojanovic, Marina Nikolic, Jovan Milosavljevic, Djurdjina Petrovic, Vladimir Jakovljevic /SRB/

57) Therapeutic potential of zofenopril & diuretics in preventing cardiac remodeling and ischemic injury in hypertension

Bozidar Pindovic, Maja Savic, Nevena Dragasevic, Jasmina Sretenovic, Katarina Mihajlovic, Marijana Andjic, Katarina Djordjevic, Vladimir Zivkovic, Ivan Srejovic, Sergey Bolevich, Stefani Bolevich, Vladimir Jakovljevic, Tamara Nikolic Turnic /SRB/

58) Circadian Disruption Exacerbates Heart Failure with Preserved Ejection Fraction

Ruzzell Flores, Huong Nguyen, Inna Rabinovich - Nikitin /CAN/

59) Impact of losartan on Angiotensin II-induced cardiac fibrosis and role of scleraxis in this pathway

Sikta Chattopadhyaya, Kimberley O'Hara, Teri Moffatt, Raghu Sundaresan Nagalingam, D. Allison Milosevic, Michael P. Czubyrt /CAN/

- 60) Assessment of Quality of Life in Patients with HFpEF Using the EQ-5D-5L Instrument in Serbian Population: A Case-Control Study**
Tamara Nedeljkovic, Masa Petrovic, Natasa Cvetinovic, Goran Loncar, Milovan Bojic /SRB/
- 61) THE ROLE OF UROLITHIN A IN PREVENTION OF ISOPRENALINE-INDUCED HEART FAILURE IN RATS**
Zorislava Bajic, Aleksandra Krivokuca, Tanja Sobot, Milica Gajic Bojic, Aneta Stojmenovski, Andela Bojanic, Tanja Cvjetkovic, Snezana Uletilovic, Nebojsa Kovacevic-Mandic, Natasa Bednarcuk, Maja Barudzija, Sanja Jovicic, Milka Maticic, Jovana Govedar, Dragan M Djuric, Milos P Stojiljkovic, Ranko Skrbic /BIH/
- 62) The impact of the dabigatran and nattokinase on the redox status in isoproterenol-induced heart failure**
Aleksandra Stojanovic, Ivan Srejovic, Maja Muric, Marina Nikolic, Jovan Milosavljevic, Djurdjina Petrovic, Vladimir Jakovljevic /SRB/
- 63) THE ANALYSIS OF NECROPTOTIC AND AUTOPHAGIC SIGNALING PATHWAYS IN CARDIOMEGALY AND THE POTENTIAL ROLE OF BIOLOGICAL SEX**
Ivana Radosova, Izabela Jarabicova, Jaroslav Hrdlicka, Veronika Olejnickova, Jan Neckar, Frantisek Kolar, Adriana Adameova, Csaba Horvath /SVK/
- 64) Risk Factors for Spinal Anesthesia - Induced Hypotension During the Elective Cesarean Section**
Selena Duric, Arsen Uvelin, Rados Knezevic, Zoran Miloradovic /SRB/