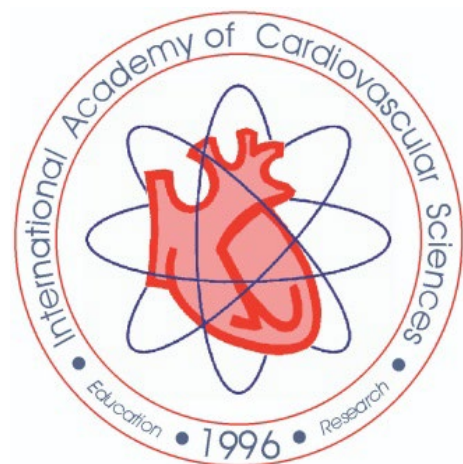


Promoting Cardiovascular Education, Research and Prevention

CV Network

THE OFFICIAL BULLETIN OF THE INTERNATIONAL ACADEMY OF CARDIOVASCULAR SCIENCES

PUBLISHED WITH THE ASSISTANCE OF THE ST. BONIFACE
HOSPITAL ALBRECHTSEN RESEARCH CENTRE



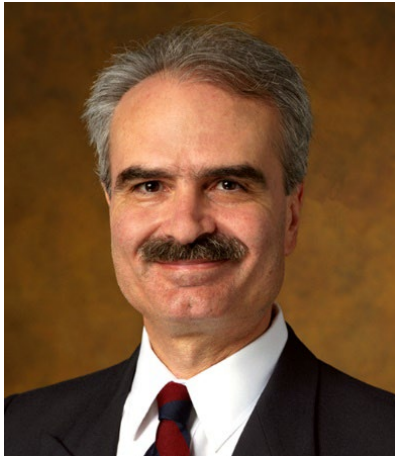
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Academy Announces new Young Scientist Award and Symposium on Women Heart Health

The Academy is pleased to announce two new young scientist programs as follows.

Roberto Bolli Young Investigator Award Competition at Annual Meetings of the IACS- European Section



*Dr. Roberto Bolli, Director
Institute of Molecular Cardiology
University of Louisville, USA*

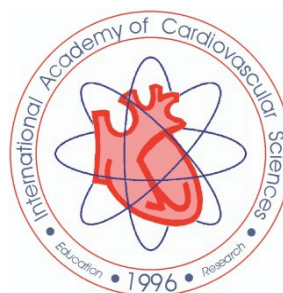
The IACS Executive Council has approved scheduling the above-mentioned Competition at the European Section Meetings effective 2024. Four Young Investigators will be selected by the IACS European Section Awards Committee for competition and one individual will be chosen for the Award by a panel of judges for the Symposium. All four candidates will be provided free registration, 3 nights hotel accommodation and hospitality (but no travel) during each meeting and the Award winner will be announced during the Gala Dinner. All the terms and conditions as well as procedures for this Competition will be similar to those being used for such a Competition being held in IACS-North America.

Institute of Cardiovascular Science Symposium on Women Heart Health at Annual Meetings of IACS-North American Section



*Dr. Lorrie Kirshenbaum, Director
Institute of Cardiovascular Sciences
St. Boniface Hospital Albrechtsen
Research Centre, Winnipeg, Canada*

The IACS Council has approved scheduling the above-mentioned symposium at Annual Meetings of the IACS- North American Section effective 2024. Four Investigators in the area of Women Heart Health will be selected for invitations to speak at each annual meeting and will be provided free registration, 3 nights hotel accommodation and hospitality (but no travel) during the meeting. The Secretary General of the IACS- North American in consultation with his President and Council will select these speakers and make recommendation to the meeting chair for sending invitations. The terms and conditions as well as the procedures for this symposium will be in accordance to IACS Council- North American Section. The Institute of Cardiovascular Sciences support will be acknowledged every year.



Report of the 9th European Section Meeting of the IACS Timișoara, Romania

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The 9th European Section Meeting of the IACS was held in Timișoara, Romania, between October 4th – 7th 2023. The Meeting venue was “Victor Babeș” University of Medicine and Pharmacy, the largest medical university with international accreditation from Western Romania. The Conference was attended by a large number of leading cardiovascular researchers with 62 invited speakers from 16 countries: Bosnia and Herzegovina, Canada, Czech Republic, Denmark, Germany, Hungary, Italy, Poland, Romania, Serbia, Slovakia, Spain, The Netherlands, Turkey, the UK and the USA.

Dr. Danina M. Muntean served as Chair of the Meeting and Dr. Naranjan S. Dhalla was the Honorary Chair of the Meeting. The Rector of the university, Prof. Octavian Crețu was the President of the Meeting, while the Vice Rectors, Prof. Claudia Borza, Prof. Daniel Lighezan and Prof. Cristian Oancea served as main organizers. The International Organizing Committee consisted of reputed professors belonging to IACS leadership, Dr. Vladimir Jakovljevic (President of IACS-ES), Dr. Grant Pierce (President of IACS), Dr. András Varró (President-elect of IACS), Dr. Michael Czubyrt (President of IACS North-American Section) and Dr. István Baczkó (General Secretary of IACS-ES). The Local Organizing Committee was composed of the following tenured faculty members and collaborators of the Center for Translational Research and Systems Medicine (Advanced Research Center of the university): Prof. Ioana Mozoș, Prof. Sorin Ursoniu, Assoc.Prof. Oana M. Aburel, Lect. Maria Dănilă, Lect. Ana Lascu (members) and Profs. Cristina Dehelean and Dan Gaiță (collaborators). Assoc. Prof. Adrian Sturza served as Director of the Local Organizing Committee.

The Meeting comprised 16 sessions organized according 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?*”. In addition, two symposia, proposed by Prof. Belma Turan (Ankara, Turkey) and entitled “*Cardiometabolic Alterations and Regulation of the Associated Pathways in Mammalian Heart Function and Regeneration I and II*” were held in separate days.

The Conference included lectures of invited speakers and free oral communications selected from the submitted abstracts and served as a platform for the exchange of new ideas and concepts by offering a great educational opportunity for early and mid-career trainees and students who highly attended the event and allowing personal interactions for all the participants. As every year, the Meeting also provided the opportunity for several young investigators to present their latest research results and compete in both oral and poster sessions. The particularity of this year Meeting was an impressive number of medical undergraduate students (more than 200) from the Romanian, English and French sections of the Faculty of Medicine who attended the sessions and also, volunteered in the organization under the umbrella of the Society of the Medical Students of Timișoara (SSMT).

The Conference began (October 4th) with the opening ceremony and welcoming messages from Dr. Danina M. Muntean (Timișoara, Romania, Chair of the Meeting, Vice President of IACS-ES), Dr. Vladimir Jakovljevic (Kragujevac, Serbia, President of IACS-ES), Dr. Naranjan Dhalla (Winnipeg, Canada, Honorary Life President of IACS), Dr. Grant Pierce (Winnipeg, Canada, President of IACS), Dr. András Varró (Szeged, Hungary, President-elect of IACS), and Dr. István Baczkó (Szeged, Hungary, Secretary General IACS-ES).

During the opening ceremony the following IACS recognitions were presented by Professors Grant Pierce, Vladimir Jakovljevic and András Varró: the **Lifetime Achievement Award to the Rector of the university, Prof. Octavian Crețu**, and two **Distinguished**

Leadership Awards to Prof. Daniel Lighezan, Vice Rector for Education, and Prof. Claudia Borza, Vice Rector for International Affairs who strongly supported the organization of the Meeting.



Dr. Octavian Crețu, Rector, Receiving IACS Lifetime Achievement Award. L to R: Drs. Jakovljevic, Crețu, Pierce and Varró.



Dr. Daniel Lighezan, Vice Rector, Receiving IACS Distinguished Leadership Award. L to R: Drs. Jakovljevic, Lighezan, Pierce and Varró.



Dr. Claudia Borza, Vice Rector, Receiving IACS Distinguished Leadership Award. L to R: Drs. Jakovljevic, Borza, Pierce and Varró.

The host university also wanted to recognize the exceptional commitment and excellence in scientific research of some of the outstanding guest speakers. **Professor Octavian Crețu in his capacity of the Rector awarded the Lifetime Leadership in Cardiovascular Sciences Award to Prof. Naranjan Dhalla** (Institute of Cardiovascular Sciences, University of Manitoba and St

Boniface Hospital Albrechtsen Research Centre, Winnipeg, Canada, Founder and Honorary Life President of IACS) and acknowledged his great contribution to the international recognition of the university. Subsequently the following awards were presented by Professors Danina M. Muntean, Daniel Lighezan and Claudia Borza: i) the **Excellence in Cardiovascular Research Awards to Prof. Roberto Bolli** (University of Louisville, USA, Past President of IACS) and **Prof. Zoltán Papp** (Vice-Dean for Scientific Affairs at the Faculty of Medicine, University of Debrecen, Hungary), respectively, and ii) the **Visiting Professor Title to Prof. Vladimir Jakovljevic** (Dean of the Faculty of Medicine at the University of Kragujevac, Serbia).

The opening ceremony was followed by two Plenary Lectures sessions. The first one, was chaired by Prof. Vladimir Jakovljevic (Kragujevac, Serbia, President of IACS-ES) and Prof. Danina M. Muntean (Timișoara, Romania, Vice President of IACS-ES) and had two invited keynote speakers, Prof. Gerd Heusch (Essen, Germany, Chair of the Institute for Pathophysiology, Past President of the International Society for Heart Research - European Section and the German Cardiac Society) who gave the lecture entitled “*Remote Ischemic Conditioning and Its Translation*”, followed by Prof. Rodolphe Fischmeister (Paris, France) who presented the lecture “*Enhancing Cardiac Phosphodiesterase Activity: A Therapeutic Strategy in Heart Failure?*”. During this session the **Naranjan Dhalla Honorary Lecture Award was presented to Prof. Gerd Heusch** after the *Laudatio* read by Prof. Jakovljevic, the President of IACS-ES.



Dr. Gerd Heusch Receiving the Naranjan Dhalla Honorary Lecture Award. L to R: Drs. Jakovljevic, Heusch, Muntean and Varró.

The second session was chaired by Prof. István Baczkó (Szeged, Hungary, General Secretary of IACS-ES) and Prof. Andrei Motoc (Timișoara, Romania, Vice Rector for Postgraduate studies and Residency). The two other plenary lectures presented by prestigious keynote lecturers, Prof. Michael Czubryt (Winnipeg, Canada, Executive Director of Research at St. Boniface University Hospital, President of IACS North-American Section) who spoke about “*Scleraxis: A Master Regulator of Wound*

Healing and Scarring” and Prof. Devendra Agrawal (Pomona, USA, Director of the Department of Translational Research at the Western University of Health Sciences, Secretary General and Treasurer of IACS - North American Section) who spoke about *“Novel Therapeutic Targets to Prevent Atherosclerotic Plaque Burden and Rupture”*. The awards for these three keynote speakers were given at the Gala Dinner (October 6th). The Opening ceremony was completed with an exquisite and extravagant Welcome reception held in the inner yard of the university.



Dr. Heusch with Dr. Dhalla (Top); image of Honorary Lecture Award (Bottom).

The 2nd day of the Meeting (October 5th) comprised 7 parallel sessions and 1 symposium held in Aula Magna, Senate Hall and Iagnov Hall of the university, respectively. Session 1 entitled *“Pathophysiology and Therapeutics of Heart Failure I”* was chaired by Profs. Zoltán Papp (Debrecen, Hungary) and Lucian Petrescu (Timișoara, Romania). The four invited speakers in this session were: Prof. David Eisner (Manchester, UK) who spoke on *“Calcium Entry Into the Ventricular Myocytes: Beyond the L-type Calcium Current”*; Dr. Zoltán Papp (Debrecen, Hungary) who presented a lecture entitled *“From Myosin Activation to Myosin Inhibition for the Treatment of Cardiac Diseases”*; Prof. Coert Zuurbier (Amsterdam, The Netherlands) who presented on vascular and myocardial effects of SGLT2 inhibitors, and Prof. Dan Gaiță (Timișoara, Romania) who discussed whether SGLT2 inhibition is the perfect pathway to heart failure prevention. Finally, in this session Dr. Dan-Alexandru Cozac (Târgu Mureș, Romania) spoke on the effects of chronic beta-blockers therapy on in-hospital outcomes in

patients with ST-segment elevation myocardial infarction treated with primary percutaneous coronary intervention.

Session 2 entitled *“Basic and Translational Approaches in Cardiac Arrhythmias”* was chaired by Profs. José Jalife (Madrid, Spain) and Torsten Christ (Hamburg, Germany). The four invited speakers were: Prof. Torsten Christ (Hamburg, Germany) who spoke on engineered heart tissue based on human induced pluripotent stem cell derived atrial cardiomyocytes as a useful model to study human atrial electrophysiology; Prof. José Jalife (Madrid, Spain) presented on dysfunction of the Na_v1.5-Kir2.1 channelosome and the mechanism of arrhythmias in inherited channelopathies; Prof. István Baczkó (Szeged, Hungary) gave a lecture on transgenic rabbit models of congenital long QT syndromes and Assoc. Prof. Norbert Nagy (Szeged, Hungary) on the assessment of cardiac alternans in a canine model of elite exercise. Dr. Băraru-Bojan Iris (Iași, Romania) ended this session on the genetic characteristics associated with the prothrombotic condition in individuals diagnosed with type 2 diabetes.

The topic of Session 3 was *“Myocardial Ischemia-Reperfusion Injury: Mechanisms and Cardioprotective Strategies”* and included five invited speakers. Prof. Naranjan S. Dhalla (Winnipeg, Canada) opened the session with the lecture entitled *“Mechanism Defects in Adrenergic Signal Transduction System in Ischemic Heart Disease”*; Prof. Peter Ferdinandy (Budapest, Hungary) gave an on-line talk on development of miRNA therapeutics for cardioprotection; Assoc. Prof. Adrian Sturza who delivered a talk on MAO-related cardiovascular oxidative stress and the anti-diabetic drugs; last but not least, Prof. Ranko Škrbić (Banja Luka, Bosnia & Herzegovina) presented on liraglutide, a GLP-1 receptor agonist, which attenuates isoprenaline-induced acute myocardial injury via the inhibition of the Wnt/B-catenin signaling pathway. Finally, Nevena Mihailovic-Stanojevic (Belgrade, Serbia) briefly spoke on caffeic acid improves antioxidant defense and attenuates oxidative stress in heart of spontaneously hypertensive rat.

Session 4 entitled *“Cardiovascular Dysfunction and Adaptation to Stress”* was chaired by Prof. Petr Ostadal (Prague, Czech Republic) and Dr. Inna-Rabinovich-Nikitin (Winnipeg, Canada) and gave the first two invited lectures on the role of extracorporeal membrane oxygenation in the therapy of cardiogenic shock and on how retinoic acid-related orphan receptors regulate autophagy and cell survival in cardiac myocytes during hypoxic stress, respectively. These talks were followed by presentations by other two reputed invited researchers, Dr. Saadeh Suleiman (Bristol, UK) on cardio-resilience due to chronic (atherosclerosis) or brief (conditioning) ischemia and Dr. Péter Bencsik (Szeged, Hungary) on immunocardiocardiovascular disease as novel approach to reveal

confounding factors between myocardial infarction and immunological diseases. Dr. Jovana Joksimovic-Jovic (Kragujevac, Serbia) ended the session with an oral communication on the relationship between hypertensive-like traits in a rat model of polycystic ovary syndrome and oxidative stress.

A parallel symposium entitled “*Cardiometabolic Alterations and Regulation of the Associated Pathways in Mammalian Heart Function and Regeneration P*” was chaired by Profs. Belma Turan (Ankara, Turkey) and Suresh Tyagi (Louisville, USA). The six speakers of this symposium were: Dr. Belma Turan (Ankara, Turkey) who presented on comparisons of pleiotropic effects of SGLT2 inhibition and GLP-1 receptor agonism on cardiac glucose intolerance; Dr. Erkan Tuncay (Ankara, Turkey) on the relationship between cytosolic/mitochondrial labile zinc ratio and mitochondrial dynamics in cardiomyocytes: role of Znt6; Dr. Yusuf Olgar (Ankara, Turkey) on acute action of incretin-based therapeutics on ageing myocardium; Dr. Ceylan Verda Bitirim (Ankara, Turkey) on improving stem cell-based therapy in cardiac failure: the effect of estrogen on regenerative capacity of cardiac progenitor cells; Dr. Aysegul Durak (Ankara, Turkey) on the role of GLP-1 receptor agonist to attenuate the ageing-associated cardiac insufficiencies through recovery in mitochondria and, lastly Dr. Anica Petrovic (Kragujevac, Serbia) on the development and evaluation of *Pinus sibirica* essential oil based-topical gel for wound healing in diabetic rats.

The morning ended with organization of a group photo in front of the university and the lunch break with lunch-boxes being provided for the registered participants and volunteers.

A work lunch was provided in the Petru Drăgan Hall for the Meeting of IACS-ES officials and their guests. Session 5 entitled “*Pathomechanisms and Therapeutic Targets in Cardiometabolic Diseases*” was chaired by Profs. Denis Angoulvant (Tours, France) and Vesna Vucic (Belgrade, Serbia) and hosted four invited speakers. The session started with the presentation by Prof. Denis Angoulvant (Tours, France) on targeting inflammation in cardiovascular diseases and was followed by Vladimir Jakovljević (Kragujevac, Serbia) who spoke on how sacubitril/valsartan promotes white adipose tissue browning in rats with metabolic syndrome; Prof. Ramaroson Andriantsitohaina (Montpellier, France) presented on how NLRP3-inflammasome carried by extracellular vesicles validates the inflammatory hypothesis of atherosclerosis in metabolic syndrome patients and Prof. Vesna Vucic (Belgrade, Serbia) on osteosarcopenic adiposity - implications for cardiometabolic disorder. The short oral communication in this session was delivered by Dr. Avram Vlad-Florian (Timișoara, Romania) who spoke on improving mitochondrial respiration of human platelets with cell-permeable succinate in metabolic disease.

In parallel, Assoc. Profs. Monika Bartekova (Bratislava, Slovakia) and Adrian Sturza (Timișoara, Romania) chaired Session 6 entitled “*Natural Compounds, Ageing and Cardiovascular Risk*”. This session opened with a presentation by Dr. Monika Bartekova on the role of ageing and metabolic comorbidities in beneficial effects of quercetin in cardiovascular system and was followed by a talk by Dr. Isidora Milosavljevic (Kragujevac, Serbia) on *Melissa Officinalis* as cardioprotective tool in experimental autoimmune myocarditis.



Victor Babeș University of Medicine and Pharmacy Presented Lifetime Leadership Award to Dr. Dhalla (Top Left); Excellence in Cardiovascular Research Award to Drs. Bolli (Top Right) and Papp (Bottom Left) and Visiting Professor Award to Dr. Jakovljevic.

In continuation, Prof. Ioana Mozoş (Timișoara, Romania) presented on arterial stiffness and cardiovascular risk, while Prof. Simona Drăgan (Timișoara, Romania) spoke about the cardioprotective effects of polyphenols and future perspectives for functional foods. At the end Dr. Minodora Andor (Timișoara, Romania) presented preliminary data on the evaluation of black chokeberry bio juice effect on blood pressure levels and endothelial damage in patients under chronic antihypertensive treatment (and kindly provided samples of the investigated juice in the afternoon coffee break).

The last session of the first day (Session 7) was entitled “*Comorbidities and Novel Therapeutic Strategies in Cardiovascular Diseases*” and chaired by Drs. Ferenc Gallyas (Pecs, Hungary) and Patrycja Kaczara (Krakow, Poland) who also delivered the first two presentations: Dr. Ferenc Gallyas on the protective effect of Olaparib in experimental Crohn’s disease and Dr. Patrycja Kaczara on the pharmacology of energy metabolism to regulate platelet activation, respectively. Session 7 ended with Dr. Ștefan Mihăicuță (Timișoara, Romania) who spoke on how obstructive sleep apnea and cardiovascular comorbidities might tailor different pathogenetic treatment strategies.

During the afternoon of the 2nd day, Petru Drăgan Hall hosted the meeting of Miss Aicha Hanna, Assistant Publisher at Springer Nature (Medicine and Life Sciences Journals) with the editors of Molecular and Cellular Biochemistry journal. Miss Hanna generously offered 3 Springer Book vouchers for 200 Euro each, which were awarded to the 3 winners of the Young Investigator Award Competition.

The 3rd day of the Meeting (October 6th) also comprised 7 parallel sessions and 1 symposium held in Aula Magna, Senate Hall and Iagnov Hall of the university, respectively. The day started with Sessions 8 and 9, which were held in parallel in Aula Magna and the Senate Hall and included 8 invited speakers. Session 8 entitled “*Identifying the Right Targets and Therapeutic Approaches: Uncharted Paths*” was chaired by Profs. Martin Morad (Charleston, USA) and András Varró (Szeged, Hungary). Dr. Morad opened the session with his talk on what we learned from gene editing of human Ryr2 about CPVT1 arrhythmia and cardiac excitation-contraction coupling, followed by the talk of Prof. Antonio Zaza (Milano, Italy) entitled “*SERCA2a Loss vs. Gain of Function: Which is Worse?*”. The following two presentations in this session were given by Drs. András Varró (Szeged, Hungary) on the electrophysiological effect of orange alkaloid hesperetin in dog cardiac ventricular preparations and Hector Martinez-Navarro (Oxford, UK) on the role of *in silico* trials for future diagnosis and treatment in ischemic heart disease. The session ended with the short oral talk by Muhammad

Naveed (Szeged, Hungary) on arrhythmias triggered by medication, tackling the proarrhythmic risk associated with class I antiarrhythmics and cannabinoids.

Session 9 entitled “*Pathophysiology and Therapeutics of Heart Failure II*” was chaired by Drs. Katharine Dibb (Manchester, UK) and Dragoș Cozma (Timișoara, Romania). Dr. Dibb presented first on the mechanisms of atrial fibrillation in heart failure and ageing, which was followed by the lecture delivered by Prof. Suresh Tyagi (Louisville, USA) on interoceptive inhibition of ADAMTS1 and angiogenic strategy for the prevention of heart failure with reduced ejection fraction. These talks were followed by presentations by Dr. Ruxandra Christodorescu and Dragoș Cozma (Timișoara, Romania) entitled “*New Trends in the Management of Advanced Heart Failure*” and “*From Left Atrial Stretch to Heart Failure*”, respectively. The oral communication in this session was delivered by Dr. Niskala Alisha Annikki (Copenhagen, Denmark) on the role of colchicine on cardiac fibrosis in a porcine model of atrial fibrillation.

Session 10 entitled “*Cardiac Regeneration and Response to Infection*” was chaired by Profs. Roberto Bolli (Louisville, USA) and Grant Pierce (Winnipeg, Canada). Dr. Bolli spoke on reparative/regenerative cardiology: hype vs. reality, while Dr. Pierce (on bacterial infection and cardiovascular disease. The other two invited speakers in this session were Prof. Thomas Jespersen (Copenhagen, Denmark) who presented on *in vitro* reprogramming of fibroblasts from human cadavers to generate iPSC-cardiomyocytes and Prof. Sanjiv Dhingra (Winnipeg, Canada) on immuno-engineering approaches for cardiac regenerative medicine. Dr. Abhay Srivastava (Winnipeg, Canada) ended the session with a short talk on the development of iPSC-based clinical trial selection platform for patients with inherited metabolic and cardiovascular disorders.

Session 11 entitled “*Cardiometabolic Diseases – From Pathophysiology to Treatment*” was chaired by Profs. Olga Pechanova (Bratislava, Slovakia) and Luca Constantin (Timișoara, Romania). Dr. Pechanova opened this session with a lecture on the role of nitric oxide in metabolic syndrome. The other three invited speakers in this session were: Dr. Paramjit Tappia (Winnipeg, Canada) who spoke on high fructose diet-induced cardiovascular dysfunction, Prof. Florinela Cătoi (Cluj-Napoca, Romania) who presented on obesity, metabolic/bariatric surgery and cardiovascular disease and Assoc. Prof. Cristian Mornoș (Timișoara, Romania), who tackled the role of epicardial adipose tissue thickness assessed by echocardiography as independent predictor in coronary artery disease.

In parallel, the Young Investigator Award Competition was held with Profs. Antonio Zaza (Italy), Suleiman Saadeh (UK) and Michael Czubyrt (Canada) as chairs.

There were 7 contestants in this competition: Jovana Bradic (Kragujevac, Serbia) who presented her work on *Gallium verum* extract as a novel cardioprotective agent against doxorubicin-induced cardiotoxicity in rats; Bogdan Halațiu (Târgu-Mureș, Romania) who talked about interleukin-8 inhibition as a possible pathway to reduce hemodynamic complications in post-coronary artery bypass grafting surgery patients; Leto Luana Riebel (Oxford, UK) on human *in silico* trials to evaluate the safety of regenerative cell therapy; Arnela Saljic (Copenhagen, Denmark) on her work on the atrial fat infiltration post myocardial infarction in a Göttingen minipig model of obesity; Mélodie Schneider (Copenhagen, Denmark) on how metformin reduces atrial fibrillation inducibility in horses; Leila Topal (Szeged, Hungary) on increased arrhythmia susceptibility associated with cardiac remodelling following vigorous endurance training in a canine athlete's heart model and Noemi Toth (Charleston, USA) on calcium signalling consequences of calcium release deficiency-associated Ryr2-S4938F and Ryr2-I4855M mutations expressed in HiPSC cardiomyocytes.

A work lunch was provided in the Petru Drăgan Hall for the Meeting of IACS World officials and their guests and lunch boxes for the participants. The afternoon sessions began with Session 12 on “*Cardiovascular Dysfunction Due to Toxicity*”, which was chaired by Profs. Lorrie Kirshenbaum (Winnipeg, Canada) and Theodora Bejan-Angoulvant (Tours, France) and had three invited speakers. Dr. Kirshenbaum firstly spoke on the TRAF2-NF-κB signaling in doxorubicin cardiomyopathy, which was followed by a talk by Prof. Dinender K. Singla (Orlando, USA) on how exosomes ameliorated doxorubicin-induced cardiomyopathy, while Prof. Bejan-Angoulvant addressed the immune checkpoint inhibitors-related myocarditis. Dr. Stojanovic Aleksandra (Kragujevac, Serbia) ended the session with her oral communication on the increased expression of extracellular vesicles in patients with rheumatoid arthritis as novel potential biomarker for disease monitoring.

In parallel, the symposium “*Cardiometabolic Alterations and Regulation of the Associated Pathways in Mammalian Heart Function and Regeneration II*” was chaired by Profs. Belma Turan (Ankara, Turkey) and Dinender Singla (Orlando, USA). Prof. Ebru Arioglu-Inan (Ankara, Turkey) spoke on diabetic heart and the effects of antidiabetic drugs on cardiac function. This presentation was followed with the talks delivered by Drs. Gizem Kayki-Mutlu (Ankara, Turkey) on the metabolic roles of GRK2 in cardiac pathologies, Asena Gökçay Canpolat (Ankara, Turkey) on the glucose lowering therapies for cardiovascular risk reduction in diabetes mellitus and Firat Akat (Ankara, Turkey) on the roles of sirtuins and K-

acetylation in metabolic syndrome associated heart remodeling.

In the afternoon, Session 13 “*Translational Approaches in Cardiac Arrhythmias*” and Session 14 “*Natural Compounds in Cardiovascular Protection*” were held in parallel. Prof. Belma Turan (Ankara, Turkey) opened Session 13 with the presentation entitled “*Electrotonic Modulation in Mixed-Mode Electrical Conduction Can Be a Novel Approach for SQT-Characterized Cardiac Remodelling*” and the session ended with a talk by Assoc. Prof. Viviana Ivan (Timișoara, Romania) on the antiarrhythmic effect of metabolic therapy and the role of late potentials in risk assessment. Session 14 was chaired by Profs. Jerzy Beltowski (Lublin, Poland) and Alina Pârvu (Cluj-Napoca, Romania). The lecture of Prof. Miloš Stojiljković and Prof. Ranko Škrbić (Banja Luka, Bosnia & Herzegovina) summarized the results of *in vitro* and *in vivo* studies regarding the antioxidative capacity of pomegranate peel extracts and was followed by the ones of Prof. Beltowski (Lublin, Poland) on how green tea extract improved the vasodilating effect of insulin on resistance arteries in rats with metabolic syndrome by converting H₂S to polysulfides and of Prof. Pârvu (Cluj-Napoca, Romania) on the cardioprotective effects of *Mahonia aquifolium* extracts.

Day 3 culminated with an outstanding Gala dinner and awards ceremony at a premier restaurant called Galla. Two Poster Sessions were held in days 2 and 3 of the Meeting and 7 poster prizes were awarded during the Gala dinner. During the Gala Dinner, Dr. Dhalla presided over the presentation of the following IACS awards: the *Bohuslav Ostadal Award for Excellence in Cardiovascular Sciences* was presented to Dr. Rodolphe Fischmeister, Université Paris-Saclay, Orsay, France, and to Dr. Michael Czubyrt, University of Manitoba, Winnipeg, Canada, and the *Andras Varro Award for Excellence in Cardiovascular Sciences* to Dr. Devendra Agrawal, Western University of Health Sciences, Pomona, USA.

In addition, the *IACS Lifetime Achievement Award* was presented to Dr. Danina M. Muntean, Conference Chair and the *IACS Distinguished Service Award* to Dr. Adrian Sturza, Director of the Local Organizing Committee, Drs. Jakovljevic, Muntean and Baczkó presented 3 awards for the Young Investigator Award Competition and following 6 poster awards: 2 awards named after Dr. Attila Ziegelhöffer, 2 awards named after Dr. Karl Werdan and for the first time, 2 awards named after Dr. Milosav Kostić have been generously proposed by Prof. Vladimir Jakovljevic. In addition, a Best Poster Award was given for an excellent poster presentation.

The last day of the conference (October 7th) included the parallel Sessions 15 and 16. Session 15 entitled “*Novel*



Dr. Rodolphe Fischmeister (Top Left) and Dr. Michael Czubryt (Top Right) Receiving the Bohuslav Ostadal Award for Excellence in Cardiovascular Sciences; Bottom Left: Dr. Devendra Agrawal Receiving the Andras Varro Award for Excellence in Cardiovascular Sciences and Bottom Right: Dr. Danina Muntean Receiving the IACS Lifetime Achievement Award.

Targets and Therapies in Cardiovascular Diseases: What Animal Models Have Taught Us?” was chaired by Assoc. Profs. Ivan Srejovic (Kragujevac, Serbia) and Oana Aburel (Timișoara, Romania) and included four invited speakers Dr. Melanie Hezzel (Bristol, UK) spoke first on the one health approach to cardiovascular research – what can dogs teach us about heart disease, which was followed by Dr. Slavica Mutavdzin Krneta (Belgrade, Serbia) presentation on the effects of vitamin B6 and folic acid on the cardiovascular system of rats with streptozotocin-induced diabetes mellitus. The other two lectures were delivered by Prof. Vladimir Zivkovic (Kragujevac, Serbia) on the effects of different exercise types on a rat model of myocardial ischemia/reperfusion injury and Assoc. Prof. Ivan Srejovic (Kragujevac, Serbia) on the effects of L-glutamate on heart function, morphology and redox balance in rats.

Session 16, last one of the conference, was chaired by Assoc. Profs. Isidora Milosavljevic (Kragujevac, Serbia) and Caius Streian (Timișoara, Romania) and had the topic “*Novel Biomarkers, Therapeutic Targets and Unusual Cases: What Humans Have Taught Us?*”. The lecture of Prof. Manuela Ciocoiu (Iași, Romania) on the molecular and cellular mechanisms in the development of aortic wall aneurysms was presented by Dr. Iris Băraru-Bojan and this

was followed by five oral communications, as follows: Dr. Adrian Apostol (Timișoara, Romania) spoke on RAS inhibition therapy in dialized patients and the effects on positive remodelling, Dr. Caius Streian on an unusual form of left ventricular tumor, Dr. Ana Lascu (Timișoara, Romania) on concurrent causes for acute severe right ventricular failure in an apparently healthy patient, Dr. Sonia Rațiu (Timișoara, Romania) on how vitamin D mitigated oxidative stress in varicose veins explants from obese and non-obese patients and finally, Dr. Răzvan Adrian Bertici (Timișoara, Romania) presented on the evolution and new etiological trends in patients with pulmonary arterial hypertension.

The Meeting was closed by remarks and expressions of gratitude by the President of the IACS-ES Dr. Vladimir Jakovljevic, the President of IACS World, Dr. Grant Pierce, the General Secretary of IACS-ES, Dr. István Baczkó, and the Chair of the Meeting, Dr. Danina M. Muntean who extended the acknowledgement for the valuable contributions and sponsorship of the conference by: “Victor Babeș” University of Medicine and Pharmacy from Timișoara, IACS, Hamilton, Volvo, Bayer, Boehringer-Ingelheim, Family Dental Clinic, AWR Lease Solutions, EuroCas, DiaLab Solutions, MC Fink, PKF Ekonometrica, Hotel President and Crama Aramic.



Top Left: Dr. Adrian Sturza Receiving IACS Distinguished Service Award; and three Recipients of the Young Investigator Awards.

Timișoara is a multicultural and educational center known for its hospitality and beauty; the very soul of the city is a charming blend of provincial town and a big city, which makes you feel at home and welcome. It is one of the most dynamic cities in Romania and is also the place where the Revolution against communism started in 1989. In 2023 Timișoara has been one of three nominated European Capitals of Culture, having as slogan a vivid message: “*Shine Your Light!*”. The combination of internationally recognized speakers, cutting-edge themes, diversity of symposia and meeting venue offered a great scientific and educational experience and contributed to the success of the conference. We had all a wonderful opportunity to “shine our light” at this meeting while discussing the latest advances in experimental and clinical cardiovascular research, to renew old friendships and make new ones. Besides the productive exchanges, we share lasting impressions about the social program, in particular the elegant exhibitions of two famous sculptors, Constantin Brâncuși and Peter Jeczka.



Dr. Roberto Bolli Award for Young Investigator Presented at the IACS-North American Section Meeting in Tampa, September, 2023



Dr. Petra Kienesberger

The Roberto Bolli Young Investigator Award was presented to Dr. Petra Kienesberger during the North American Section meeting of the IACS in Tampa, USA in September, 2023.

Dr. Petra Kienesberger is an Associate Professor in the Department of Biochemistry and Molecular Biology, Dalhousie University, located at Dalhousie Medicine New Brunswick. Dr. Kienesberger is a co-founder of the pan-Canadian IMPART team (<https://impart.team/>) and a core member of the Dalhousie Cardiac Research Excellence Wave (DALCrew).

Dr. Kienesberger's research focuses on examining how bioactive lipids influence energy metabolism and function of the heart, skeletal muscle, and adipose tissue in health and during obesity/insulin resistance/diabetes. Dr. Kienesberger has expertise in lipid and energy metabolism, mitochondrial biology, cell signalling, and muscle and adipose physiology. Her laboratory is funded by the Canadian Institutes of Health Research and Natural Sciences and Engineering Research Council of Canada.

Dr. Kienesberger was also the recipient of a Heart and Stroke Foundation of Canada National New Investigator award. She also received the Roberto Bolli Young Investigator Award from the International Academy of Cardiovascular Sciences – North American Section. She serves as a reviewer for national and international grant panels and on the organizing committee of national and international conferences, including the International Society for Heart Research conference in Halifax in 2018 and Global Talents In Science Symposium 2023. She is a member of the editorial board of the Canadian Journal of Physiology and Pharmacology, Nutrients, and Frontiers in Cardiovascular Medicine-Cardiovascular Metabolism.

Dr. Buddhadeb Dawn Early Career Award Presented at the IACS-North American Section Meeting in Tampa, September, 2023



Dr. Inna Rabinovich-Nikitin

The Buddhadeb Dawn Early Career Award was presented to Dr. Inna Rabinovich-Nikitin during the North American Section meeting of the IACS in Tampa, USA in September, 2023.

Dr. Inna Rabinovich-Nikitin is an Assistant Professor at the Institute of Cardiovascular Sciences, St. Boniface Albrechtsen Research Centre, Winnipeg, MB. Her research

program focuses on women's heart health, cardiometabolic function and circadian rhythm. Dr. Rabinovich-Nikitin's research focuses on uncovering the genes and networks that are associated with both circadian rhythms and metabolic function toward developing innovative therapeutic strategies to treat cardiometabolic dysfunction in a sex specific manner.

Dr. Rabinovich-Nikitin has published in top journals, including *Circulation*, *Journal of Clinical Investigations*, *Circulation Research*, *Nature Communication* and others. She serves on the editorial board of several prestigious journals, including *Circulation Research*, *Molecular and Cellular Biology* and *Canadian Journal of Physiology and Pharmacology*. In addition, Dr. Rabinovich-Nikitin is the recipient of many prestigious research awards including the AHA Louis N. and Arnold M. Katz Basic Science Research Prize, Martha Donovan Women's Leadership Development Award, IACS Roberto Bolli Young investigator award and many others.

25th Naranjan Dhalla Cardiovascular Awards Day

Lorrie Kirshenbaum

Director, Institute of Cardiovascular Sciences

St. Boniface Hospital Albrechtsen Research Centre

Max Rady College of Medicine, Rady Faculty of Health Sciences, University of Manitoba

Email: lkirshenbaum@sbrc.ca

The Institute of Cardiovascular Sciences (ICS) at the St. Boniface Hospital Albrechtsen Research Centre in Winnipeg, Canada celebrated the annual Naranjan Dhalla Awards Day on November 1-2, 2023 which celebrates leadership in research education and training.



Dr. Jean-Lucien Rouleau (C), receiving ICS Gold Medal from Senator Osler (L) and Dr. Kirshenbaum (R).

This year was a very special year as it was the 25th Silver Anniversary of the event. The awards program day was established by Dr. Naranjan Dhalla, the founder of the Institute of Cardiovascular Sciences 25 years ago to



Dr. Metin Avkiran (L), receiving the Dr. R.E. Beamish Award from Dr. Kirshenbaum (R).

recognize the leadership and contributions of individuals who profoundly influenced the global cardiovascular community. The awards program also honours trainees at different stages of career that include summer students, graduate students, medical students, post-doctoral fellows



Unveiling of special 25-year anniversary plaque for ICS Awards Day with L to R: Drs. Czubryt, Kirshenbaum, Dhalla and Dhingra.

and recognizes others who have contributed to the advancement of the Institute of Cardiovascular Sciences.



Dr. Asa Gustafsson (L), receiving the Mr. Ken Bowman Award from Dr. Czubryt (R).



Dr. Jianyi “Jay” Zhang (L), receiving the Dr. John Forester Award from Mrs. Forester (R).

These awards include the Institute of Cardiovascular Sciences Gold Medal Award, for the life-time achievement in advancing cardiovascular medicine, Dr. Robert E. Beamish Leadership Award for outstanding leadership in cardiovascular sciences and education; Mr. Ken Bowman Research Achievement Award for outstanding achievements in cardiovascular research; Dr. John Foerster Distinguished Lecture Award for lifetime contributions to cardiovascular medicine; Dr. Vincenzo Panagia Distinguished Lecture Award for cutting edge research in cardiovascular sciences; Mr. Jack Litvack Exemplary Service Award for exemplary service to the Institute of Cardiovascular Sciences; Dr. Arnold Naimark Young Investigator Award for excellence in cardiovascular research by a post-doctoral scientist; Dr. Henry Friesen Young Scientist Award for excellence in cardiovascular research by pre-doctoral trainee; Sr. Jacqueline St-Yves Publication Award for best paper published in cardiovascular research; Mr. Kalwant Dhalla Research Technician Award for high quality of dedicated technical services; Dr. T. Edward Cuddy and Dr. James McGoey Student awards for exemplary performance of summer students. Moreover, the Institute of Cardiovascular Sciences established a special award to honour the top MSc students within the ICS program called the Institute of Cardiovascular Sciences Award for Master Student.



Dr. Zamaneh Kassiri (L) receiving the Dr. Vincenzo Panagia Award from Dr. Dhingra (R).

The two-day event is marked by a gala dinner, early career program, scientific forum followed by the awards ceremony and reception. Over the past 25 years, this premier event has honoured many distinguished scientists including several Nobel Prize Laureates.

On Thursday, November 2nd, 2023, the 25th Annual Institute of Cardiovascular Sciences, Naranjan Dhalla Cardiovascular Awards Day Program was held and honoured several world-class scientists including, Dr. Jean-Lucien Rouleau, University of Montreal, Montreal, Canada (Gold Medal); Dr. Metin Avkiran, King’s College London, London, England (Dr. R.E. Beamish Award); Dr. Asa Gustafsson, University of California San Diego, San Diego, USA (Mr. Ken Bowman Award); Dr. Jianyi “Jay” Zhang, The University of Alabama at Birmingham, Birmingham, USA (Dr. John Forester Award); Dr. Zamaneh Kassiri, University of Alberta, Edmonton, Canada (Dr. Vincenzo Panagia Award).

The awards program showcased outstanding cardiovascular research and training in Winnipeg, Canada. We are deeply indebted to Dr. Naranjan Dhalla for his leadership in creating the awards day which is a marquee event for the Institute of Cardiovascular Sciences and the University of Manitoba.



Academy Announces Fellowship Award to Seven Cardiovascular Investigators

Dr. Grant Pierce, President of IACS, is pleased to announce the election of the following seven Fellows effective December 1, 2023. (The maximum number of active Fellows of the Academy does not exceed 250 at any given time):

1. Dr. Adriana Adameova, Bratislava, Slovak Republic
2. Dr. Sanjiv Dhingra, Winnipeg, Canada
3. Dr. Mukesh Nandave, New Delhi, India
4. Dr. Guilherme Oliveira, Tampa, USA
5. Dr. Petr Ostadal, Prague, Czech Republic
6. Dr. Paramjit S. Tappia, Winnipeg, Canada
7. Dr. Harlokesh Narayan Yadav, New Delhi, India

Dr. Adriana Duris Adameova



Dr. Adriana Adameova

Dr. Adriana Duris Adameova is currently Professor and Head of the Laboratory of Experimental Cardiology and Pharmacology at the Faculty of Pharmacy, Comenius University and the Centre of Experimental Medicine, Slovak Academy of Sciences, Bratislava, Slovak Republic. She has a particular interest in translational and basic research.

Dr. Adriana Duris Adameova received her Doctor of Pharmacy degree (2002) and Ph.D. degree (2006) in pharmacology from the Faculty of Pharmacy, Comenius University, Slovak Republic. She completed a post-doctoral fellowship in the field of cardiac pharmacology and as a part of a post-doctoral training she spent several months in the Hatter Cardiovascular Institute, University College London, UK and St. Boniface Hospital Albrechtsen Research Centre, Institute of Cardiovascular Sciences (ICS) in Winnipeg, Canada. Then she progressed her academic and scientific ladder to become Associate Professor (2014), and Full Professor (2018) at the Faculty of Pharmacy, Comenius University in Bratislava. In 2018, she was recruited to the Centre of Experimental Medicine, Slovak Academy of Sciences, Bratislava as an independent

researcher of the Institute for Heart Research. She was a member of the Efficacy Working Party, European Medicines Agency (2007-2010), a member of the Subcommittee for generic medicine, State Institute for Drug Control (2007-2021) and currently she is a board member of the Slovak Pharmacological Society and a member of the Scientific Board of the Faculty of Pharmacy. Dr. Duris Adameova serves as a Chair of the Faculty Union of Basic Pharmacology and a Guarantor of Doctoral study in pharmacology. S

he established the Laboratory of Experimental Cardiology and Pharmacology and by getting personal and professional trust and financial support provided by the government, industry and university she has been able to execute research projects and give the opportunity to several master, doctoral students and postdocs to get trained and launch their career. Many of her trainees have gone on to successful independent careers as clinical pharmacists, researchers and faculty members. She has published over 200 scientific and professional peer-reviewed papers and her research has been funded by Slovak and European funding agencies and pharmaceutical companies (e.g. APVV, VEGA, ERANET, Slovak Society of Cardiology, COST, Pfizer, Zentiva).

She is a recipient of several prestigious awards, including the Weiser Professional Development Award (University of Michigan, 2023), Award of the Universidad Complutense in Madrid (Catedra A. Dubcek, 2005), Award of the American Journal of Physiology–Heart and Circulatory Physiology for the best review scientific publication (AJP-Heart and Circ Best Review Article Award, 2020), Award ESF JPD 3 2005/1-049 -

Promotion of research activities of young investigators (2007, 2008), Rector's Award of the Comenius University in Bratislava for excellent contribution in pedagogical and scientific activities (2012).

Dr. Duris Adameova's early research focused on the mechanisms responsible for myocardial ischemia/reperfusion injury under various metabolic disturbances. She is currently investigating necrosis-like cell death (necroptosis, pyroptosis) in the heart. For the first time in the literature, her team together with clinical

collaborators reported that human failing hearts of various etiology are positive for necroptotic markers and provided a hypothesis that this pro-inflammatory, strictly regulated cell death form may be responsible for heart dysfunction and remodeling. Likewise, they showed that preconditioning-mediated cardioprotection may be due to the retardation of necroptosis in the heart. She is very passionate in this field of cardiac research and by more detailed investigations she wishes to contribute to better understanding of the heart disease and suggest pharmacological interventions accordingly.

Dr. Sanjiv Dhingra



Dr. Sanjiv Dhingra

Dr. Sanjiv Dhingra is a Professor and Associate Head of the Department of Physiology and Pathophysiology, University of Manitoba. He is also the Director of the Canada Italy Tissue Engineering Program at the Institute of Cardiovascular Sciences, St. Boniface Hospital Research Centre, Winnipeg, Canada. His research interests are focused

on the post- myocardial infarction cardiac regeneration and tissue engineering using stem cell therapy and biomaterials.

The current research in Dr. Dhingra's lab focuses on understanding the host immune response against transplanted stem cells. Another major area of interest in Dr. Dhingra's lab is to develop immunomodulatory biomaterials to prevent rejection of transplanted stem cells and solid organs. Dr. Dhingra has published several papers in this area in prominent journals. Dr. Dhingra has been actively involved in promoting the field of cardiac stem cell therapy and tissue engineering. He has organized several national and international conferences and symposia. He

was the Chair of International Conferences on the Future of Regenerative Medicine, which were held in different parts of Italy, in Tuscania (2017), Ostuni (2018), and Rome (2023). Dr. Dhingra served as the Joint Secretary for the annual meeting of the International Academy of Cardiovascular Sciences (IACS)- North American Section which was held in Winnipeg in September 2022. Dr. Dhingra has been recognized nationally and internationally for his accomplishments in research.

He received Outstanding Leadership Award in Cardiovascular Research from the Life Science Association of Manitoba. Previously he has been recognized by the American Heart Association (AHA) in 2012 and Canadian Cardiovascular Society in 2017 for his efforts in the field of cardiovascular stem cell therapy and tissue engineering. Recently Dr. Dhingra received Dr. Rakesh Kukreja Oration Award (2023) at the Annual Meeting of the International Academy of Cardiovascular Sciences (Indian Section), and Dr. Guido Tarone Lecture Award (2023) at the Annual Congress of the Italian Society of Cardiovascular Sciences.

Dr. Dhingra's laboratory is currently funded by multiple agencies including CIHR, Heart and Stroke Foundation and NSERC. He continues to serve as committee member on several granting agency review panels such as CIHR, Heart and Stroke Foundation of Canada, NSERC, CFI, NFRF, Israel Science Foundation, European Science Foundation, Shastri Indo-Canadian Fellowship program, and Medical Research Council of England.

Dr. Mukesh Nandave



Dr. Mukesh Nandave

Dr. Mukesh Nandave is presently the Associate Dean (Research & Consultancy) Head, Dept. of Pharmacology and Pharmaceutical Biotechnology Delhi Pharmaceutical Sciences and Research University, Govt. of NCT of Delhi, New Delhi.

Dr. Nandave earned his Ph. D. in Pharmacology from

AIIMS, Delhi and received his Post-Doctoral training from the Division of Cardiothoracic Surgery, the Ohio State University Medical Center, Columbus, USA.

Since more than 20 years Dr. Nandave has been investigating the role of nutraceuticals, herbomineral formulations, plant extracts & phytoconstituents for myocardial ischemia & reperfusion injury, diabetes, obesity, and pain management.

He has published numerous papers in peer-reviewed national and international journals as well as in various books and book chapters. His lab received funding for his research from various sources including Govt. (DBT, DST, ICMR and AYUSH) as well as industry (Pharmazz Inc., Dabur India, Charak Pharma, Madhavbaug, Sandu Pharma).

Dr. Nandave has received several awards including Distinguished Leadership Award of IACS; G. Achari Gold Medal by Indian Pharmacological Society; Association of Pharmaceutical Teachers of India Young Pharmacy Teacher of the Year Award, Early Investigator Award by International Society for Heart Research, Prof. Duggirala Visweswaram & Prof. Sreemantula Satyanarayana Prize; Best Research Output of the Year for 2014-2015, 2013-2014, and 2012-2013 Award" of SVKM's NMIMS University.

Dr. Nandave is Secretary General, IACS-India Section and Treasurer of Society for Promotion and Research of Cardiovascular Sciences. He is life member of various professional bodies including ISHR, IACS; Indian Pharmacological Society; Association of Physiologist and Pharmacologist of India (APPI); Indian Pharmaceutical Association; Association of Pharmaceutical Teachers of India and Society for Ethnopharmacology.

Dr. Guilherme Oliveira



Dr. Guilherme Oliveira

Dr. Guilherme Oliveira, serves as Vice President of Tampa General Hospital and Chief of its Heart & Vascular Institute and as Director of the USF Division of Cardiovascular Sciences. He is also the Ed C. Wright Professor and Chair of Cardiovascular Research as well as Co-Director of the

USF Heart Institute for Research. Dr. Oliveira is an internationally renowned physician leader in

cardiovascular medicine who was previously director of the Heart Failure and Transplant Center at University Hospitals, Case Western Reserve University in Cleveland. Before that, Dr. Oliveira was co-director of Cardio-Oncology in the Section of Heart Failure at Cleveland Clinic, Ohio and Director of heart failure services at M. D. Anderson Cancer Center.

After earning his medical degree at the Faculdade Nacional de Medicina in Rio de Janeiro, Dr. Oliveira did his internal medicine residency at Mayo Clinic Rochester and cardiology and heart failure fellowships at Baylor College of Medicine at Houston Methodist Hospital and the Texas Heart Institute. In 2016, Dr. Oliveira earned a Masters of Business Administration from MIT's Sloan School of Management. Dr. Oliveira is an externally funded clinical investigator whose work and expertise span advanced heart failure, mechanical circulatory support, heart

transplantation and cardio-oncology. With over one hundred peer-reviewed publications, Dr. Oliveira is internationally known for his work on mechanical circulatory support and heart transplantation in cancer survivors exposed to chemotherapy and radiation, having lectured on these topics at major academic institutions nationally and around the globe.

Lastly, Dr. Oliveira sits on advisory boards in industry, editorial peer review journals, NIH work groups and major societies. In 2021, Dr. Oliveira was honored as the Keynote Speaker at the 76th Scientific Sessions of the Brazilian Society of Cardiology, the third largest cardiovascular society in the world. He currently serves as president-elect of the American Heart Association's Tampa Metro Board.

Dr. Petr Ostadal



Petr Ostadal completed his studies in 1996 at the Second Faculty of Medicine, Charles University in Prague, and worked at the Department of Internal Medicine and then at the Department of Cardiology, Motol University Hospital (Prague, Czech Republic).

as the head of Coronary Care Unit C. In the years 2008–2023, he worked at the Na Homolce Hospital (Prague, Czech Republic) as the head of the Department of Acute Cardiology and deputy head of the Department of Cardiology. From 2023, he is the head of the Department of Cardiology, Second Faculty of Medicine, Charles University and Motol University Hospital (Prague, Czech Republic).

In 2004, he defended his Ph.D. thesis in the field of human physiology and pathophysiology, and in 2020 he became a professor of medicine at the Second Faculty of Medicine, Charles University. He is the president of the Czech Society of Cardiology (for the period 2023-2027) and the chairman of the Czech Acute Cardiac Care Association. His areas of expertise include pathogenic mechanisms and management of cardiogenic shock and cardiac arrest (with a special focus on post-cardiac arrest syndrome), use of mechanical circulatory support, and management of acute coronary syndromes

Dr. Petr Ostadal

In the years 2006–2008, he worked at the 3rd Department of Internal Medicine – Cardiology, University Hospital Kralovske Vinohrady (Prague, Czech Republic)

Dr. Paramjit S. Tappia



Dr. Paramjit S. Tappia has over 30 years of research experience, with particular interest on nutrition, biomarkers and subcellular and molecular mechanisms of human disease. He received his B.Sc. (Honors) in Pharmacology from the University of Sunderland, U.K. in 1985 and Ph.D. in Biochemistry from

the University of Wolverhampton, U.K. in 1992. He received postdoctoral training in the Institute of Human Nutrition, University of Southampton, U.K. from 1992-1995. In 1996, he joined the Institute of Cardiovascular Sciences, St. Boniface Hospital Albrechtsen Research Centre, Winnipeg, Canada as a Research Associate. He is currently Principal Investigator and Clinical Scientist in the Asper Clinical Research Institute, St. Boniface Hospital. As a clinical trialist, Dr. Tappia has conducted several trials in the area of diabetes, heart failure, gut health and cancer diagnostics. To date, he has published 128 papers with H-index of 38, and 37 book chapters in the field of cardiovascular sciences and nutrition. He has co-edited 9 books and serves on the Editorial Boards for 3 international journals. Dr. Tappia also serves as Editor-in-Chief of CV Network, and is serving on the Board of Directors of the IACS.

Dr. Paramjit S. Tappia

Dr. Harlokesh Narayan Yadav



Dr. Harlokesh Narayan Yadav

research experience and guided more than 50 M.Sc/M.Pharm/MD/PhD students. He has published more than 65 research papers in different national and international journals of high repute.

Dr. Yadav is working as Additional Professor in the Department of Pharmacology, AIIMS, New Delhi. His research area of interest is Cardiovascular Pharmacology.

He has more than 16 years of academic and

He is the member of National Academy of Medical Sciences India (NAMS) and National Academy of Sciences India (NASI) and served as a Secretary International of Indian Pharmacological Society (IPS).

Currently, he is serving as President for the Society of Pharmaceutical Education & Research (SPER), Delhi branch. Additionally, he is involved in various research projects (more than 17) funded by different funding agencies *i.e.* AIIMS, ICMR, DBT and DST.

Moreover, he has been bestowed with different prestigious awards such as Prof. N.S Dhalla oration award 2023, Fellowship by Asian Pacific Society of Hypertension 2022, Pharmacy Ratna Award UP 2021, Dr. Manjeet Singh Award, N.N. Datta Prize, best research paper award 2018, awarded with diploma by International Society of Cardiovascular Pharmacotherapy, distinguished scientist award by Society for Bioinformatics and Biological Science, Allahabad 2019 *etc.* in the field of pharmacology.

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Punjab Forum for Sciences & Technology Honors Dr. Dhalla with Lifetime Achievement Award

On November 22, 2023, the Punjab Forum for Science and Technology Communication conferred the Lifetime Achievement Award to Dr. Naranjan Dhalla in recognition of his exceptional contributions to the realm of Experimental Cardiology at the International Conference on “One Planet, One Health, One Future” held at DAV University, Jalandhar, Punjab, India.



Dr. Dhalla being honored by Dr. Manoj Kumar, Vice Chancellor, DAV University, Jalandhar and Dr. R.C. Sobti, former Vice Chancellor, Punjab University, Chandigarh as well as Ambedkar University, Lucknow.



Dr. Dhalla Receiving Lifetime Achievement Award from Drs. Kumar and Sobti with other dignitaries from DAV University and Conference Organizers.



Inscription on the Lifetime Achievement Award plaque dedicated to Dr. Dhalla.



Report on the 29th Scientific Forum of the International Congress of Cardiovascular Sciences and the 21st Annual Meeting of the IACS-South American Section, Vitória, Brazil, October 20 – 21, 2023

Melchior Luiz Lima

President, IACS-South America Section
Hospital Meridional Vitória, Rua Desembargador José Fortunato Ribeiro, 30 - Mata da Praia
Vitória - ES, 29200-010, Espírito Santo, Brazil
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The importance of the 21st Annual Meeting of the South American Section of the International Academy of Cardiovascular Sciences, which took place together with the 29th Scientific Forum - International Congress of Cardiovascular Sciences, at Hospital Meridional Vitória on October 20th and 21st, 2023, in the city of Vitória, ES, Brazil, was highlighted by its relevance in the advancement of cardiovascular science and medicine. The event was coordinated by Prof. Dr. Otoni Moreira Gomes, advised by Prof. Dr. Elias Kallás, and the local coordination of Prof. Dr. Elaine Gomes and Prof. Dr. Melchior Luiz Lima.



L to R: Drs. Melchior Lima, Elias Kallás, Elaine Gomes and Ricardo Gelpi.

Cardiovascular science and medicine have advanced significantly in recent years, with the development of new technologies and treatments. However, it is essential that these advances are disseminated and shared with the medical and scientific community, in order to promote improvements in the population's cardiovascular health.

The meeting provided a conducive environment for the exchange of knowledge and experiences between health professionals, researchers and students, contributing to the advancement of cardiovascular science and medicine. The inclusion of medical students and young doctors in this process is extremely important, as they represent the future

of medicine and are responsible for driving innovation and progress in the field. Furthermore, diversity and equity are essential to ensure that all healthcare professionals have equal access to learning and development opportunities. This includes including individuals from different ethnic, racial and socioeconomic backgrounds in clinical studies in order to ensure the validity and applicability of results. Furthermore, it is important that advances in cardiovascular science and medicine are accompanied by efforts to improve access to health care to ensure that all individuals have the opportunity to benefit from all of these



Talk given by Dr. Lima.

advances. Collaboration between institutions, such as the partnership between the Postgraduate Program in Physiological Sciences by the Laboratory of Myocardial Contractility and Vascular Reactivity Laboratory of Cardiac Electromechanics and Vascular Reactivity and the Laboratory of Cardiac Mitochondrial Metabolism of the Federal University of Espírito Santo (UFES), Brazil.

This Educational Institution collaborates with: University of California Davis - UC Davis (Dr. Donald Bers); Florida State University (Dr. Maicon Landim-Vieira and Dr. Jose Renato Pinto); University of Illinois Chicago (Dr. John Solaro, Dr. Paulina Langa); Louisiana State University Healthy Sciences Center, New Orleans (Dr. Kurt Varner);

University of Cambridge (Dr. Mike Murphy); Federal University of Minas Gerais (Dr. Silvia Guatimosim) and UNICAMP (Dr. Ana Paula Davel).

During the event, scientific works and innovative research were presented, allowing participants to stay up to date with the latest discoveries and advances. The meeting also provided opportunities for networking and establishing partnerships between participants, which could lead to future collaborations and research projects. Holding this event contributed to improving the population's cardiovascular health, as advances in global cardiovascular science and medicine were discussed and shared among participants, enabling the adoption of more effective practices in the diagnosis and treatment of cardiovascular diseases.

The International Academy of Cardiovascular Sciences is an internationally recognized institution, which gives even

more importance and relevance to the event held at Hospital Meridional Vitória. Through its scientific events, the International Academy of Cardiovascular Sciences contributes to the advancement of cardiovascular science and medicine. There was a positive impact on the local community, as it brought health professionals and researchers from different parts of the world to the city of Vitória, stimulating the local economy and promoting the city's image as a center of excellence in health.

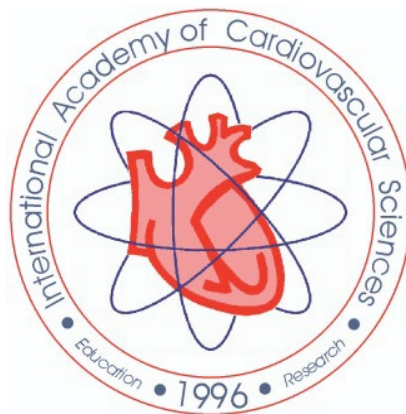
At its core, the International Scientific Forum is a testament to the bold vision of two leaders who believed in the power of global cooperation to drive advances in cardiovascular medicine. As we celebrate nearly three decades of this extraordinary journey, it is clear that the Forum will continue to be an inspiring beacon for future generations of scientists, guiding the way toward a deeper and more effective understanding of cardiovascular sciences.



Delegates in attendance of lecture.



Dr. Melchor Lima (L) with meeting delegates.



“Victor Babeş” University of Medicine and Pharmacy of Timișoara: the Oldest and Largest Medical University with International Accreditation from Western Romania

*Octavian Marius Crețu, Rector, “Victor Babeş” University of Medicine and Pharmacy of Timișoara and
Danina Mirela Muntean, Chair of the 9th IACS-ES Meeting in Romania*

“Victor Babeş” University of Medicine and Pharmacy of Timișoara is the oldest and largest medical state university from Western Romania. It was named in the honor of the worldwide known scientist Victor Babeş (1854-1926), founder of the Romanian School of Microbiology and co-author of the first treatise of Bacteriology in the world.

The school was established as a Faculty of Human Medicine following the Royal Decree no. 660, signed by His Majesty King Michael I of Romania, which was published in the Official Gazette on December 30th, 1944 and in the Law no. 361 issued on May 4th, 1945. In October 1945 the faculty was given the current main residence, the “Banatia” building, a former German-language high school that previously belonged to the “Banatia” Foundation of the Catholic Church (and was requisitioned and transformed into a Soviet military hospital during World War II).

Following the education reform, by Government Decree no. 175/1948, the Faculty of Medicine became the Institute of Medicine, encompassing three faculties: General Medicine, Pediatrics and Hygiene (the last one being active for a shorter period of time) and a Department of Dentistry, which became the Faculty of Stomatology in 1963. By virtue of Decree 147/1974, the institution became the Institute of Medicine of Timișoara, with the specializations: General Medicine, Pediatrics and Stomatology.

The Revolution against the communism who started in Timișoara in mid-December 1989 and spread throughout the country marked a turning point in the history of the university besides the dramatic changes that followed in the social, economical and political life. After the 90s the institute changed its name to the University of Medicine and Pharmacy of Timișoara and included three independent faculties: Medicine, Dental Medicine and Pharmacy with both education and research evolving at a rapid pace. The university received its current name, “Victor Babeş” University of Medicine and Pharmacy of Timișoara (abbreviated UMFT, UMFVBT) by the Government Decision no. 23/2001. The iconic researcher Victor Babeş whose origins are in the Banat region (Timiș county) became the university's namesake ever since.

The mission of the university is to provide education and research at international levels of excellence, according to the motto: “*Doctrina and Scientia in Posterum*” (“Education and science for the future”) embedded in its coat-of-arms.

UMFVBT has been ranked by the Romanian Ministry of Education as an “education and research university” and several bachelor, PhD programmes, as well as Master programmes and continuing medical professional development courses are offered within the, as further detailed:

The Faculty of Medicine offers the following programs of study at undergraduate (bachelor) level with full-time attendance:

- Medicine (MD) provided in 3 languages: Romanian, English and French – 6 years of studies
- Nursing (Registered nurses in Medicine) provided in 3 locations: Timișoara, Lugoj and Deva – 4 years of studies
- Nutrition and Dietetics – 3 years of studies
- Balneophysiotherapeutic and Rehabilitation – 3 years of studies

The Faculty of Dental Medicine offers the following programs of study at undergraduate (bachelor) level with full-time attendance:

- Dental Medicine (DMD) provided in 2 languages: Romanian, English – 6 years of studies
- Nursing in dentistry (Registered nurses in Dentistry)
- Dental technique (Registered technicians) – 3 years of studies

The Faculty of Pharmacy offers the following programs of study at undergraduate (bachelor) level with full-time attendance:

- Pharmacy (Pharm) provided in 2 languages: Romanian, French – 5 years of studies
- Medical Cosmetics and Cosmetic Product Technology – 3 years of studies

Since its foundation, more than 25,000 students have graduated from the university, including more than 5,000 foreign students from all over the world. Currently, the university has almost 8,000 national and international students enrolled in bachelor, master, doctoral and postdoctoral programs of the three faculties (with the largest share belonging to the Faculty of Medicine) and an academic staff of more than 900 members.

For the Faculty of Medicine, most of the teaching in the preclinical years (I-III) is carried out in the two main buildings of the university: Medicine I and Medicine II, while the clinical studies (years IV-VI) are conducted in ten university hospitals and 2 private medical centers (on a contractual basis with the university). These hospitals also provide the training for around 3,500 residents in all specialties.

In addition to participating in classes held in well-equipped lecture and seminar halls, students pursue practice-based learning in laboratories, medical and surgical hospital wards and clinics whose infrastructure has been constantly improved.

“Victor Babeș” Publishing House of UMFVBT, established in 2008, has 8 collections (Academica, Hippocrate, Scientific Research, Manuals, Laboratory and Practical Guidelines, Scientific Manifestations, Literature, and In Memoriam) and has released over 550 titles of books (including e-books) during its 15 years of existence in order to support high-quality teaching in all three languages.

However, in the recent years, the teaching methods have been improved and refined (also to meet the challenges imposed by the COVID-19 pandemic that required a prolonged period of on-line instruction). The university leadership is committed to support the evolution toward the digital university of the future and provide the students with skills in digital technologies aimed at improving the work efficiency and promoting the culture of innovation alongside with teaching basic clinical skills (physical examination, history-taking and communication with patients), in-person classes, problem-based group learning and clinical reasoning, which are fundamental to the art of medicine.

Scientific research represents an essential part of each faculty activity. In the past two decades the members of the academic staff have won an increasing number of national grants/projects and have been involved in submitting applications for joining international research networks (e.g., COST actions) and EU projects.

In line with the EU strategy for 2021-2027 regarding the knowledge triangle (research-education-innovation), the university aims at improving the quality and efficiency of

education through research, stimulating creativity and innovation, including entrepreneurship at all levels of training, and creating a culture of active, lifelong learning. The university research objectives are in line with the ones of Horizon Europe 2021 – 2027 Research and Innovation policy, the Work Programme 2023-2024, namely: 1) Staying healthy in a rapidly changing society, 2) Living and working in a health-promoting environment, 3) Tackling infectious diseases, non-communicable and rare diseases and reducing disease burden, 4) Ensuring access to innovative, sustainable and high-quality health, 5) Unlocking the full potential of new tools, technologies and digital solutions for a healthy society. These objectives are supported by basic, translational and clinical research, technological development and transfer in the biomedical field, as well as consultancy and assistance in several biomedical and pharmaceutical domains. The university offers monthly mobility allowances for the members of the academic staff interested in gather expertise in novel diagnostic techniques, training in surgical procedures or research methods, which will be implemented when back in the hospital, laboratory or research center where he/she is working.

Also, in the past 3 years the university has made increasing efforts to support scientific research. Accordingly, research activities are carried out in two types of research centres, differentially financed by the university: Advanced Research Centers (10) and Methodological & Research Centers (more than 40) where several hundreds of doctoral/postdoctoral and master students are working and undergraduate students are encouraged to become affiliated. Moreover, during this period, in order to support the dissemination of research results, all the open-access publications in journals with impact factor have been financially supported. As a consequence, in 2022, the university has been included in the list of the top 500 medical higher education institutions according to the Shanghai Ranking 2022, category Global Ranking for Academic Subjects - Clinical Medicine.

At the end of 2020, the President of Romania awarded the university with the highest distinction in the field of healthcare: the Order "Sanitary Merit" in the rank of Knight.

As a confirmation of the confidence invested in its extraordinary potential, UMFVBT experienced in the past two years a sustained development in order to meet the European standards, advance knowledge generally through science, research, innovation and internationalisation, enhance the quality of instruction, and contribute to the societal economic development. Thus, in terms of asset development, the building of the "Pius Brânzeu" Center for Training and Experimental Surgery, a center of excellence in the surgical training of students and residents, was

extended by one level and a new building of more than 4300 sqm (and a parking lot with 150 places) was bought in the vicinity of the main building for teaching purposes. Last but not least, in 2022 a major investment project amounting to almost 30 million Euros for the construction of a novel university campus, fully financed by the Romanian Government, was awarded to the university.

Since January 2023 the university received the highest international accreditation granted for medical education by the Independent Agency for Accreditation and Rating (IAAR), accreditation recognised by the World Federation of Medical Education (WFME), the European Quality Assurance Register in Higher Education (EQAR) and the European Association for Quality Assurance in Higher Education (ENQA).

Also, in 2023 the social and spiritual life has become more vibrant since Timișoara was nominated one of the European Capitals of Culture, having as slogan a vivid message: “*Shine Your Light!*”. In support, the university financed the organization of two international scientific meetings, Smart Diaspora and the European Section Meeting of the International Academy of Cardiovascular Sciences, which attracted the largest number of top medical specialists and scientists from all over the world.

Having established itself as one of the most esteemed Romanian medical universities, both its history and recent development attest to the potential of Victor Babeș” University of Medicine and Pharmacy of Timișoara for further success in educating the next generation of physicians, dentists and pharmacists, as well as providing healthcare to the general public, in line with its *credo*: “A University for the Community!”



UNIVERSITATEA
DE MEDICINĂ ȘI FARMACIE
„VICTOR BABEȘ“ DIN TIMIȘOARA



JOINT ANNUAL MEETING OF
INTERNATIONAL SOCIETY FOR HEART RESEARCH (INDIAN SECTION)
& INTERNATIONAL ACADEMY OF CARDIOVASCULAR SCIENCES (INDIA SECTION)

Theme : Cardiovascular Sciences - From Molecule to Clinical

16th, 17th & 18th Feb 2024 | Venue: Auditorium, AIIMS, Jodhpur, India

Website : www.ishr2024jodhpur.com

FIRST ANNOUNCEMENT BROCHURE



WELCOME MESSAGE

Dear Friends & Colleagues,

Greetings from the Blue City of India - Jodhpur!!

It gives us immense pleasure to invite you to the Joint Annual Meeting of International Society for Heart Research (Indian Section) & International Academy of Cardiovascular Sciences (India Section), ISHR 2024: Cardiovascular Sciences – From Molecule to Clinical to be held on 16th, 17th & 18th February 2024 at All India Institute of Medical Sciences, Jodhpur, Rajasthan, India.

This Annual Conference is hosted by the Department of Cardiology, AIIMS, Jodhpur. We expect more than 600 delegates, from across India, and more than 50 International experts, making it one of the largest meetings in the cardiovascular discipline providing a platform for interaction between basic scientists and clinicians. The purpose of this conference is to offer an opportunity to engage practitioners and researchers from different fields and enable them to interact with key experts and international legends on various topics. The scientific program will feature an Echocardiography workshop, ECG symposium, and various interactive educative sessions, apart from the conventional plenary sessions, featured symposia, breakout sessions, and oral presentation sessions for abstracts and challenging cases. Topics include revisiting the state-of-the-art management practices, the available new technologies and drugs, and current initiatives for quality improvement.

Jodhpur is the second-largest city in Rajasthan and the former capital of the Marwar region. It is situated just northwest of the Luni River on a sterile tract of land covered with high sand hills. Jodhpur is also known as the Blue City, an apt name as most houses in the old city have shades of blue. The forts and palaces, temples and havelis, culture and tradition, spices and fabrics, color and texture, and a booming handicrafts industry, all add up to make this historic city worth a visit. Jodhpur has its own domestic airport which is just 5 kilometers from the city center and is well-connected.

AIIMS Jodhpur is a premier medical research public university and is an Institute of National Importance (INI). The Institute is running various undergraduate, postgraduate, Doctoral, and Super-Speciality courses in the streams of Medicine, Dentistry, Nursing, and biotechnology successfully and is emerging as one of the best among the newly established AIIMS.

Renowned international and national faculty have confirmed their participation in the conference. Our endeavor is to provide a stimulating and memorable scientific program. The organizing committee has arranged invigorating evenings depicting the cultural diversity of Rajasthan. We sincerely hope that the blend of pleasant weather, warm hospitality, and revitalizing social evenings will make the scientific environment richer.

We look forward to the honor of welcoming you to Jodhpur, the cultural capital of Rajasthan, in February 2024.

Thanks & Regards
Organising Committee
Department of Cardiology, AIIMS, Jodhpur

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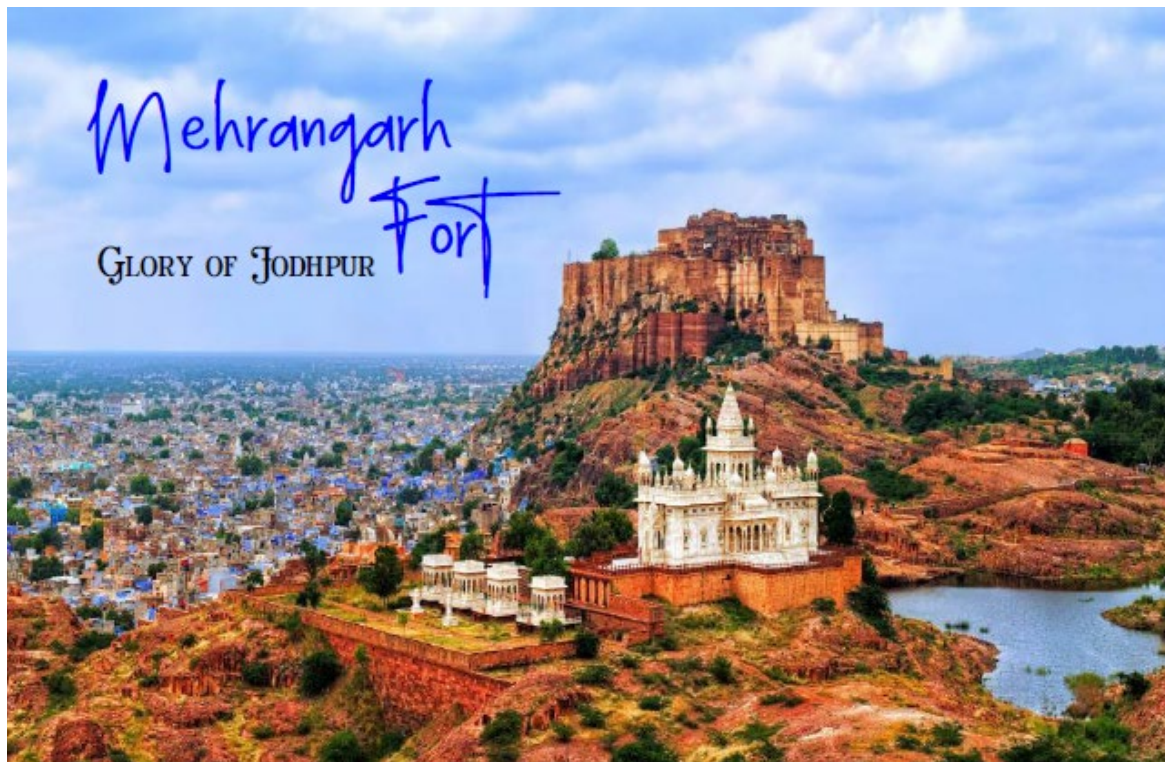
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Mehrangarh Fort

GLORY OF JODHPUR

MEHRANGARH FORT IS INARGUABLY THE BEST TOURIST PLACE TO VISIT IN JODHPUR. SITUATED ON TOP OF A 410FT HIGH HILLOCK. IT IS ALSO AMONGST THE LARGEST FORTS IN INDIA AND ACCOMMODATES SEVERAL PALACES WITHIN IT. BUILT BY RAO JODHA IN 1460, THE FORT IS KNOWN FOR ITS INTRICATE CARVINGS AND EXPANSIVE COURTYARDS.

CONFERENCE SECRETARIAT

Dr. SURENDER DEORA

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11th Annual IACS-NAS

Meeting of the North American Section of the
International Academy of Cardiovascular Sciences

September 19 - 21, 2024
HOUSTON, TEXAS

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THE TEXAS HEART INSTITUTE™

10th Annual Meeting of the European Section

of the International Academy
of Cardiovascular Sciences

Know the heart: novel insights into the prevention and treatment
of heart disease to live and promote the healthy lifestyle.



Heart research **in the Heart of Europe**

September 30 – October 2, 2024



FACULTY OF PHARMACY
University of Zagreb
Zagreb, Croatia



10th Annual Meeting of the European Section of the International Academy of Cardiovascular Sciences



FACULTY OF PHARMACY
Comenius University
Bratislava

September 30 – October 2, 2024

Šamorín, Bratislava, Slovak Republic

Venue of the meeting

Šamorín, Bratislava, Slovak Republic

Meeting location

X-BIONIC Sphere, Šamorín, Dubová 2254/33, 931 01, Slovak Republic

Meeting chair

Adriana Duris Adameova, Prof. PharmDr., PhD. – adriana.duris.adameova@uniba.sk;
adriana.duris.adameova@savba.sk

Meeting co-chairs

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SAVE THE DATE

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10th Annual Meeting of the European Section of the International Academy of Cardiovascular Sciences



FACULTY OF PHARMACY
Comenius University
Bratislava

September 30 – October 2, 2024

Šamorín, Bratislava, Slovak Republic

Dear colleagues, dear friends,

It is our pleasure to announce the 10th Jubilee Meeting of the European Section of the International Academy of Cardiovascular Sciences (IACS-ES 2024) which will be held in Šamorín, near Bratislava, a capital city of the Slovak Republic, on September 30 – October 2, 2024.

As you may know, the Slovak Republic is localized in the heart of Europe, so the logo and subtitle of the scientific conference, which is Heart Research in the Heart of Europe, refers to this fact. In addition, because many of the researchers from the host country collaborate very actively with researchers from other countries of the Europe as well as from other states of the world these personal and professional links are indicated as arrows on the map logo of the conference.

Our ambition is to provide you with the excellent lectures given by the keynote internationally recognized speakers and introduce you the rising stars of the heart research. Furthermore, we wish to bridge the gap between basic and clinical heart research and thus, we are organizing the conference with the collaboration and support of the Slovak Society of Cardiology, whose annual meeting will continue after ours.

The motto of the IACS-ES 2024 conference is: "Know the heart: novel insights into the prevention and treatment of heart disease to live and promote the healthy lifestyle". Accordingly, the scientific topics will address this theme and include:

- Cardiac inflammation and immunology
- Women's heart: when gender matters
- Cardiac aging
- Inter-organ communication in heart disease
- Myocardial adaptation and novel targets of intrinsic cardioprotection
- Bio-engineering in heart research
- Healthy diet for healthy heart
- Cardiac toxicity of non-cardiovascular drugs
- Efficacy and safety of pharmacological interventions for treatment of heart disease
- Aspects of clinical pharmacy in management of heart disease

The further details of the IACS-ES 2024 conference will be available on the website of the conference: www.iacs2024.com and the homepage of IACS European Section www.iacs.sav.sk/meetings.html.

We believe that we all together will make this meeting successful and that the 10th anniversary of the European Section Meeting of the International Academy of Cardiovascular Sciences will be an unforgettable experience.

Looking forward to meeting you in the heart of Europe and to talking to you (not only) about the heart research.

Cordially,

Prof. Adriana Duris Adameova – **chair of meeting**
Dr. Tatiana Ravingerova, Prof. Jan Slezak – **meeting co-chairs**
Dr. Tomas Rajtik, Dr. Csaba Horvath – **scientific secretary**

A Holistic Approach for Improving the Health and Wellness

Paramjit S. Tappia

Asper Clinical Research Institute and Albrechtsen Research Centre, St Boniface Hospital

Email: ptappia@sbr.ca

We all know that prevention is cheaper than treatment. So why are we all not engaged in preventive strategies? What are the obstacles we face in undertaking such activity? It is our contention that raised awareness and education are vital and integral components of preventive medicine. This proposal will describe methods to educate youth, adult and elders on life style changes including the value of good nutrition and physical activity. Furthermore, the importance of the different dimensions of health will also be discussed. The definition of health is just not about the absence or presence of disease and/or illness, but also your overall wellness. Indeed, the World Health Organization (WHO) defines health as “the state of complete physical, mental, and social well-being, not merely the absence of disease or infirmity”. Accordingly, the definition of health has now been extended to include dimensions of wellness, which are in turn important determinants of health. These interconnected wellness dimensions are depicted in the following diagram:



Through awareness and education, a higher level of wellness can be attained. Indeed, maintaining a balance of these dimensions is an important determinant of health. Teachings on contemporary issues in health and wellness in school and community settings will create an awareness of skill and knowledge sets necessary to understand and make responsible and healthy decisions. It is also important to note that health changes in every stage of life with different influences that can either exert a positive or an adverse impact an individual's health and wellness.

For example, during childhood years, the parents play a significant role in the lifestyle choices and health behavior, but during the adolescent years, the social network i.e. friends can play a significant role on health behaviors. On the other hand, during adulthood there are different social factors that can impact health, such as relationship with co-workers, family, partner, and children. Middle age presents different stressors that again can impact on the health and wellness such as having aging parents to look after or even planning for retirement. While elders are faced with an increased risk of co-morbidities due to the aging process.

So, what are the “health outcomes” we are looking to see? There are several outcome measures that assess the health and wellness of an individual as listed below that can be achieved through increased awareness and teachings:

- Improved quality of life (QOL)
- Reduction in morbidity and mortality
- Greater energy levels and capacity for fun
- Stronger immunity
- Improved self-confidence, -esteem, -concept and -efficacy
- Enhanced relationships
- Improved ability to handle stress
- Reduced reliance on the health care system
- Increased cardiovascular endurance, muscle tone, flexibility, appearance and function
- Positive outlook on life
- Enhanced environmental sensitivity and responsibility
- Enhanced level of spiritual health, awareness and meaning in life

In order to achieve a higher state of health and wellness through increased awareness and teachings, several areas within each health dimension that are relevant to the Indigenous populations will need to be described. Thus, within the area of interpersonal health, sexual health, relationships substance abuse and addiction, conflict and resolution should be covered. For spiritual health, values and beliefs, fulfillment, sense of belonging, in relation to health and wellness are important factors. For emotional health: stress/time management, body image, mental illness are important

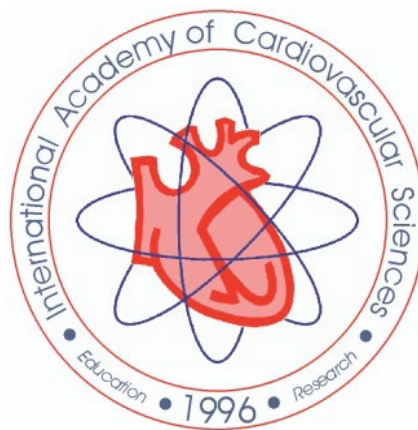
considerations. For occupational health: work/life balance, workplace health initiatives are relevant factors. For physical health and nutrition: nutrition, fitness, disease and illness should be considered. For environmental health: human health impact and climate change are clearly timely aspects that need to be understood. For cultural health, a focus on cultural beliefs in health need to be undertaken and for intellectual health, decision making and reasoning will be discussed.

From the aforementioned, through these teachings, Indigenous people will have a better understanding on holistic approaches in the practice of preventive medicine. In other words, considering all of an individual's physical, mental, and social conditions in the treatment of illness as well as understanding that a whole system of beliefs must be taken into consideration in the prevention of illness and to have a higher degree of wellness. We must disseminate that being healthy is not based on a single component, but is assessed through all of the above-mentioned dimensions. At the same time, it would also be important to recognize and identify behaviors that are most likely to cause problems or behaviors that present a greater risk for illness, which can be readily determined through a personal health assessment questionnaire.

It is well known that Indigenous peoples of Canada experience and are at very high risk for a number of health issues including diabetes, cardiovascular disease, cancer, respiratory illnesses, addictions and emotional well-being. Increasing the awareness of health-related challenges faced by Indigenous populations and preventive actions necessary to reduce the risk of adverse health outcomes could be achieved as follows:

1. Organizing public forums and workshops for local as well as remote Indigenous communities. This will include public speakers by experts within the field of disease prevention and promotion of health and wellness. These open seminars/workshops will take place in a classroom setting in community and learning/resource centres.
2. Demonstration of preventive/screening programs and how easy it is to take a test for determining individuals at risk for developing chronic illnesses.
3. The creation and distribution of educational material that highlights the health-related issues among Indigenous populations as well as a check list to assess if a person is at risk for chronic disease as well as mental/emotional health instability. Such educational material will also include brochures, pamphlets and social media in appropriate Indigenous languages. The intent is to shift people along the wellness paradigm and ultimately toward a higher level of wellness. This can only be achieved through increased awareness and education.

In view of the fact that there is an elevated risk, as well as high occurrence of many chronic diseases and illnesses in the Indigenous people, a population-based health approach is required. It is evident that "prevention is better than cure". There is a large body of scientific evidence that demonstrates lifestyle modifications, including nutritional interventions, increased physical activity, reduction of stress, smoking cessation, improvement of overall health and wellness would provide an integrative approach for the prevention of many health-related challenges experienced by the Indigenous people. Such preventive approaches would not only improve the quality of life, but also help in reducing the economic burden on the health care system.



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Lorrie Kirshenbaum, Winnipeg, Canada
Melchior L. Lima, Vitoria, Brazil
Gary Lopaschuk, Edmonton, Canada
Naoki Makino, Beppu, Japan
Jawahar L. Mehta, Little Rock, USA
Tatiana Ravingerova, Bratislava, Slovak Republic
Pawan K. Singal, Winnipeg, Canada
Jan Slezak, Bratislava, Slovak Republic
Andras Varro, Szeged, Hungary

2022-2025

President: Grant Pierce, Winnipeg, Canada
President-Elect: Andras Varro, Szeged, Hungary
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Ricardo J. Gelpi, Buenos Aires, Argentina
Ramesh K. Goyal, New Delhi, India
Gerd Heusch, Essen, Germany
Chandrasekharan Kartha, Trivandrum, India
Lorrie Kirshenbaum, Winnipeg, Canada
Melchior L. Lima, Vitoria, Brazil
Gary Lopaschuk, Edmonton, Canada
Jawahar L. Mehta, Little Rock, USA
Tatiana Ravingerova, Bratislava, Slovak Republic
Rhian M. Touyz, Montreal, Canada

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President: Naoki Makino, Beppu, Japan
Secretary General: Atushi Takeda, Tokyo, Japan

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Vice President: Praveen Kerala Varma, Kochi, India
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Secretary General: Mukesh Nandave, New Delhi, India

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Hon. Life President: Otoni Gomes, Belo Horizonte, Brazil
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Past President: Ricardo Gelpi, Buenos Aires, Argentina
Secretary General: Elaine M.G. Freitas, Belo Horizonte, Brazil
Advisor: Elias Kallas, Minas Gerais, Brazil



**ACADEMY OF
CARDIOVASCULAR SCIENCES**
IACS- India Section



IACS Honour and Award Recipients

A. Medal of Merit Recipients

1. Michael DeBakey: Houston, USA	2001	21. Eric Olson: Dallas, USA	2009
2. Richard Bing: Pasadena, USA	2001	22. Arnold M Katz: Norwich, USA	2010
3. Edwin Krebs: Seattle, USA	2002	23. Laszlo Szekeres: Szeged, Hungary	2010
4. Robert Furchgott: Brooklyn, USA	2002	24. Jay Cohn: Minneapolis, USA	2011
5. Eugene Braunwald: Boston, USA	2003	25. Salim Yusuf: Hamilton, Canada	2011
6. Robert Lefkowitz: Durham, USA	2003	26. Piero Anversa: Boston, USA	2012
7. Sir. John Vane: London, UK	2004	27. Laurentiu M. Popescu: Bucharest, Romania	2012
8. James Willerson: Houston, USA	2004	28. Makoto Nagano: Tokyo, Japan	2012
9. Sir. Magdi Yacoub: London, UK	2005	29. Roberto Bolli: Louisville, USA	2013
10. Robert B. Jennings: Durham, USA	2005	30. Ferid Murad: Washington, USA	2014
11. Sir. George Radda: Singapore	2006	31. Francois M. Abboud: Iowa City, USA	2015
12. Victor Dzau: Durham, USA	2006	32. Valentin Fuster: New York, USA	2016
13. Louis Ignarro: Los Angeles, USA	2007	33. Otoni Moreira Gomes: Belo Horizonte, Brazil	2016
14. Sen. Wilbert Keon: Ottawa, Canada	2007	34. Arnold Schwartz: Cincinnati, USA	2017
15. Jutta Schaper: Bad Nauheim, Germany	2007	35. Bohuslav Ostadal: Prague, Czech Republic	2018
16. Nirmal Ganguly: New Delhi, India	2008	36. Jeffrey Robbins: Cincinnati, USA	2018
17. Salvador Moncada: London, UK	2008	37. Jan Slezak: Bratislava, Slovak Republic	2019
18. Wolfgang Schaper: Bad Nauheim, Germany	2008	38. Jawahar Mehta: Little Rock, USA	2022
19. Howard Morgan: Winfield, USA	2008	39. Joseph Hill: Dallas, USA	2023
20. Ernesto Carafoli: Padua, Italy	2009		

B. Academy's Honour and Award Recipients:

1. Lifetime Achievement Award in Cardiovascular Science, Medicine and Surgery:

1. Newman Stephens: Winnipeg, Canada	2005	27. Horacio Cingolani: La Plata, Argentina	2015
2. Onkar Tripathi: Lucknow, India	2005	28. Mohammad A.Q. Siddiqui: New York, USA	2015
3. Keld Kjeldsen: Copenhagen, Denmark	2005	29. M. Sankaran V. Valiathan: Manipal, India	2015
4. Wagner Padua Filho: Belo Horizonte, Brazil	2005	30. Noboru Yamazaki: Hamamatsu, Japan	2015
5. Bohuslav Ostadal: Prague, Czech Republic	2005	31. Ismail Sallam: Cairo, Egypt	2016
6. Donald Beanlands: Ottawa, Canada	2005	32. Andras Varro: Szeged, Hungary	2016
7. Stig Haunso: Copenhagen, Denmark	2006	33. Philip J. Kadowitz: New Orleans, USA	2017
8. Jay Cohn: Minneapolis, USA	2009	34. Karl T. Weber: Memphis, USA	2017
9. Jan Slezak: Bratislava, Slovak Republic	2009	35. Mark Entman: Houston, USA	2017
10. Elizabeth Roth: Pecs, Hungary	2010	36. William B. Weglicki: Washington DC, USA	2017
11. Otoni Gomes: Belo Horizonte, Brazil	2010	37. Grant Pierce: Winnipeg, Canada	2018
12. Keyur Parikh: Ahmedabad, India	2010	38. Gary Lopaschuk: Edmonton, Canada	2018
13. Ramesh Goyal: Vadodara, India	2011	39. Asher Kimchi: Los Angeles, USA	2019
14. Belma Turan: Ankara, Turkey	2011	40. Suresh Gupta: New Delhi, India	2019
15. Stephen F. Vatner: Newark, USA	2011	41. Jawahar L. Mehta: Little Rock, USA	2019
16. Yogendra K. Gupta: New Delhi, India	2011	42. Pavel Hamet: Montreal, Canada	2019
17. Nobuakira Takeda: Tokyo, Japan	2012	43. Vladimir Jakovljevic: Kragujevac, Serbia	2019
18. Irving Joshua: Louisville, USA	2012	45. C.C. Kartha: Trivandrum, India	2020
19. John H. McNeill: Vancouver, Canada	2014	46. Ranko Škrbić: Banja Luka, Bosnia & Herzegovina	2021
20. Dennis B. McNamara: New Orleans, USA	2014	47. Lorrie Kirshenbaum: Winnipeg, Canada	2022
21. James R. Parratt: Glasgow, UK	2014	48. Roberto Bolli: Louisville, USA	2022
22. Attila Ziegelhoffer: Bratislava, Slovak Republic	2014	49. István Baczkó: Szeged, Hungary	2022
23. S.S. Agrawal: New Delhi, India	2015	50. Kewal K. Talwar: New Delhi, India	2023
24. Edwin E. Daniel: Victoria, Canada	2015	51. Charles Lockwood: Tampa, USA	2023
25. Irving Zucker: Omaha, USA	2015	52. Danina Muntean: Timișoara, Romania	2023
26. Dragan Djuric: Belgrade, Serbia	2015	53. Octavian Crețu: Timișoara, Romania	2023

2. Distinguished Leadership Award in Cardiovascular Sciences:

1. Jacques Genest: Montreal, Canada	2001	24. Ferenc Gallyas Jr.: Pecs, Hungary	2017
2. Ruth Collins-Nakai: Edmonton, Canada	2001	25. Sankar Natesan: Madurai, India	2018
3. Elizabeth Roth: Pecs, Hungary	2013	26. Tatiana Ravingerova: Bratislava, Slovak Republic	2018
4. Karl Werdan: Halle, Germany	2013	27. Jan Slezak, Bratislava: Slovak Republic	2018
5. Salim Yusuf: Hamilton, Canada	2013	28. Eduardo Rivas-Estany: Havana, Cuba	2018
6. Otoni Gomes: Belo Horizonte, Brazil	2013	29. José Wanderley Neto: Maceio-AL, Brazil	2018
7. Suresh K. Gupta: New Delhi, India	2014	30. CN Manjunath: Bangalore, India	2019
8. Alan H. Menkis: Winnipeg, Canada	2014	31. Madhu Khullar: Chandigarh, India	2019
9. Karl Weber: Winnipeg, Canada	2014	32. Dragan M. Djuric: Belgrade, Serbia	2019
10. Ricardo Gelpi: Buenos Aires, Argentina	2014	33. Belma Turan: Ankara, Turkey	2019
11. Andras Varro: Szeged, Hungary	2014	34. Ramesh K. Goyal: New Delhi, India	2020
12. Miroslav Barancik: Bratislava, Slovak Republic	2015	35. Miloš P Stojiljković: Bosnia & Herzegovina	2021
13. Devendra K. Agrawal: Omaha, USA	2015	36. Gary Lopaschuk: Edmonton, Canada	2022
14. Chandrasekharan C. Kartha: Trivandrum, India	2015	37. Joseph Hill: Dallas, USA	2022
15. Vladimir Jakovljevic: Belgrade, Serbia	2015	38. Michael Czubryt: Winnipeg, Canada	2022
16. Shyam S. Agrawal: Noida, India	2015	39. Lorrie Kirshenbaum: Winnipeg, Canada	2022
17. Melchior Luiz Lima: Vitoria, Brazil	2015	40. Ajay Bahl: Chandigarh, India	2023
18. Enrique Castaneda Saldana: Lima, Peru	2015	41. Mukesh Nandave: New Delhi, India	2023
19. Tejal Gandhi: Anand, India	2016	42. Srinivas Tipparaju: Tampa, USA	2023
20. Ghassan Bkaily: Sherbrook, Canada	2016	43. Guilherme Oliveira: Tampa, USA	2023
21. José Carlos Dorsa Vieira Pontes: Belo Horizonte, Brazil	2016	44. Claudia Borza: Timișoara, Romania	2023
22. Arunabha Ray: New Delhi, India	2017	45. Daniel Lighezan: Timișoara, Romania	2023
23. Dinender K. Singla: Orlando, USA	2017		

3. Distinguished Service Award in Cardiovascular Science, Medicine and Surgery:

1. Pavel Braveny: Brno, Czech Republic	2003	30. George Jackowski: Woodbridge, Canada	2015
2. Otoni Gomes: Belo Horizonte, Brazil	2003	31. Surya Ramachandran: Thiruvananthapuram, India	2015
3. Elizabeth Roth: Pecs, Hungary	2003	32. Elias Kallas: Pouso Alegre, Brazil	2015
4. Vijay K. Puri: Lucknow, India	2004	33. Anita Mehta: Ahmedabad, India	2016
5. Suresh K Gupta: New Delhi, India	2004	34. Jyotsnaben Patel: Anand, India	2016
6. Fause Attie: Mexico City, Mexico	2004	35. Ivan Berkowitz: Winnipeg, Canada	2016
7. Daniel Villarreal: Syracuse, USA	2004	36. Danielle Jacques: Sherbrooke, Canada	2016
8. Haruo Naito: Tokyo, Japan	2004	37. Hideo Kumamoto: Tokyo, Japan	2016
9. Ramesh K Goyal: Vadodara, India	2005	38. Pierre Reid: Sherbrooke, Canada	2016
10. Belma Turan: Ankara, Turkey	2005	39. Istvan Baczko: Szeged, Hungary	2016
11. David Brasil: Belo Horizonte, Brazil	2005	40. Samir Saadeddine Jr.: Belo Horizonte, Brazil	2016
12. Wagner Padua Filho: Belo Horizonte, Brazil	2005	41. Kavita Gulati: New Delhi, India	2017
13. Dennis McNamara: New Orleans, USA	2005	42. Sampath Parthasarathy: Orlando, USA	2017
14. Hideaki Kawaguchi: Sapparo, Japan	2006	43. William M. DeCampli: Orlando, USA	2017
15. Robert Kalina: Oakville, Canada	2008	44. Ricardo Adala Benfatti: Campo Grande, Brazil	2017
16. Frantisek Kolar: Prague, Czech Republic	2008	45. Andiappan Rathinavel: Madurai, India	2018
17. Keld Kjeldsen: Copenhagen, Denmark	2009	46. Delfin Rodriguez-Leyva: Winnipeg, Canada	2018
18. Attila Ziegelhoffer: Bratislava, Slovak Republic	2010	47. Melchior Luiz Lima: Vitoria, Brazil	2018
19. Milan Chag: Ahmedabad, India	2011	48. SR Kalpana: Bangalore, India	2019
20. Balram Bhargava: New Delhi, India	2012	49. Vladimir Zivkovic: Kragujevac, Serbia	2019
21. Subir K. Maulik: New Delhi, India	2012	50. Ivan Srejovic: Kragujevac, Serbia	2019
22. Elaine Maria Gomes Freitas: Belo Horizonte, Brazil	2012	51. Kamil Can Akcali: Anakara, Turkey	2019
23. Elton Silva Gomes: Belo Horizonte, Brazil	2012	52. Harvinder Popli: New Delhi, India	2020
24. Tanya Ravingerova: Bratislava, Slovak Republic	2013	53. Nathan D. Wong: Irvine, USA	2021
25. Suresh Tyagi: Louisville, USA	2013	54. Peter Bencsik, Szeged, Hungary	2022
26. Ursula Muller Werdan: Halle, Germany	2013	55. Norbert Nagy, Szeged, Hungary	2022
27. Ferenc Gallyas Jr.: Pecs, Hungary	2013	56. Kevin Sneed. Tampa, USA	2023
28. Monika Bartekova: Bratislava, Slovak Republic	2014	57. Adrian Sturza, Timișoara, Romania	2023
29. Michael Czubryt: Winnipeg, Canada	2014		

4. Exemplary Service Awards for Promoting Heart Health:

1. Nikolaus (Klaus) Lahr: Winnipeg, Canada	2018	3. Yetta & Jack Levit Family: Winnipeg, Canada	2018
2. Kamta Roy Singh: Winnipeg, Canada	2018	4. Sonny Dhalla: Brandon, Canada	2018

C. North American Section Award Recipients:

1. Howard Morgan Award for Distinguished Achievements in Cardiovascular Research:

1. Laszlo Szekeres: Szeged, Hungary	2002	10. Bruce McManus: Vancouver, Canada	2015
2. K. Gopal Nair: Mumbai, India	2003	11. Morris Karmazyn; London, Canada	2016
3. Shunzo Onishi: Tokyo, Japan	2004	12. Gary Lopaschuk: Edmonton, Canada	2017
4. Roberto Bolli: Louisville, USA	2005	13. Lorrie Kirshenbaum: Winnipeg, Canada	2018
5. Heinz Gerd Zimmer: Leipzig, Germany	2006	14. Martin Morad: Charleston, USA	2019
6. Dipak Das: Farmington, USA	2009	15. Bohuslav Ostadal: Prague, Czech Republic	2021
7. Subodh Verma: Toronto, Canada	2011	16. Junichi Sadoshima: New York, USA	2022
8. Sumeet Chugh: Los Angeles	2013	17. Dragan Djuric: Belgrade, Serbia	2022
9. Jagat Narula: New York, USA	2014	18. Evan Dale Abel: Los Angeles, USA	2023

2. Makoto Nagano Award for Distinguished Achievements in Cardiovascular Education:

1. Chong-Chin Liew: Boston, USA	2002	9. Martin Morad: Charleston, USA	2014
2. Bal K. Sharma: Panchkula, India	2003	10. Suresh K. Gupta: New Delhi, India	2015
3. Bruce McManus: Vancouver, Canada	2004	11. Grant N. Pierce: Winnipeg, Manitoba	2016
4. Karl Weber: Memphis, USA	2005	12. András Varró: Szeged, Hungary	2017
5. John Solaro: Chicago, USA	2006	13. Chandrasekharan C. Kartha: Trivandrum, India	2018
6. Agnes Vegh: Szeged, Hungary	2009	14. Buddhadeb Dawn: Las Vegas, USA	2019
7. Zoltan Papp: Debrecen, Hungary	2011	15. Richard Kitsis: New York, USA	2022
8. David Lefer: Atlanta, USA	2013		

3. Naranjan Dhalla Award for Innovative Investigators in Cardiovascular Sciences:

1. Aiji Sakamoto: Tokyo, Japan	2002	9. Morris Karmazyn: London, Canada	2014
2. Luiz Souza: Curitiba, Brazil	2003	10. Jan Slezak: Bratislava, Slovak Republic	2015
3. Sukhinder Cheema: St. John's, Canada	2004	11. André Carpentier: Sherbrooke, Canada	2016
4. Richard Schulz: Edmonton, Canada	2005	12. Gary Lopaschuk: Edmonton, Canada	2017
5. Balwant S. Tuana: Ottawa, Canada	2006	13. Andrew Marks: New York, USA	2018
6. Hideo Baba: Essen, Germany	2009	14. Dr. Ren-Ke Li: Toronto, Canada	2019
7. Gary Baxter: Cardiff, Wales	2011	15. Chandrasekharan C. Kartha: Kochi, India	2022
8. Andras Varro: Szeged, Hungary	2013	16. Vladimir Jakovljevic: Kragujevac, Serbia	2023

4. Norman Alpert Award for Established Investigators in Cardiovascular Sciences:

1. Jan Slezak: Bratislava, Slovak Republic	2002	9. Gary Lopaschuk: Edmonton, Canada	2014
2. Bohuslav Ostadal: Prague, Czech Republic	2003	10. Aruni Bhatnagar: Louisville, USA 2	2015
3. Nirmal K. Ganguly: New Delhi, India	2004	11. Peter Backx: Toronto, Canada	2016
4. Kewal K. Talwar: Chandigarh, India	2005	12. Michael P. Czubryt: Winnipeg, Canada	2017
5. Seiryō Sugura: Tokyo, Japan	2006	13. Lorrie Kirshenbaum: Winnipeg, Canada	2018
6. Stephen Schaffer: Mobile, USA	2009	14. Peter Ferdinandy: Budapest, Hungary	2019
7. Grant Pierce: Winnipeg, Canada	2011	15. Istvan Bacsko: Szeged, Hungary	2021
8. Rakesh C. Kukreja: Richmond, USA	2013	16. Frantisek Kolar: Prague, Czech Republic	2022

5. James Willerson Award for Excellence in Cardiovascular Medicine:

1. Four Symposium Speakers: Winnipeg, Canada	2014	7. Marek Michalak: Edmonton, Canada	2019
2. Four Symposium Speakers: Omaha, USA	2015	8. Dragan Djuric: Belgrade, Serbia	2021
3. Four Symposium Speakers: Sherbrook, Canada	2016	9. Buddhadeb Dawn: Las Vegas, USA	2022
4. Andrea L. Edel: Winnipeg, Canada	2017	10. Andras Varro: Szeged, Hungary	2022
5. James Weiss: Los Angeles, USA	2018	11. Lorrie Kirshenbaum, Winnipeg, Canada	2023

6. Grant Pierce Award for Excellence in Cardiovascular Sciences:

1. Four Symposium Speakers: Winnipeg, Canada	2014	7. Zoltan Papp: Debrecen, Hungary	2019
2. Four Symposium Speakers: Omaha, USA	2015	8. Andras Varro: Szeged, Hungary	2021
3. Four Symposium Speakers: Sherbrook, Canada	2016	9. Peter Backx: Toronto, Canada	2022
4. Chandarakala Alugantinarasimhulu, Orlando, USA	2017	10. Rhian M. Touyz: Montreal, Canada	2023
5. Suresh Tyagi: Louisville, USA	2018		

7. Dennis B. McNamara Award for Excellence in Cardiovascular Sciences:

1. Four Symposium Speakers: Winnipeg, Canada	2014	6. Madhu Anand-Srivastava: Montreal, Canada	2019
2. Four Symposium Speakers: Omaha, USA	2015	7. Buddhadeb Dawn: Las Vegas, USA	2021
3. Four Symposium Speakers: Sherbrook, Canada	2016	8. Peipei Ping: Los Angeles, USA	2022
4. Four Symposium Speakers: Orlando, USA	2017	9. Istvan Baczko: Szeged, Hungary	2023
5. Four Symposium Speakers: Havana, Cuba	2018		

8. Jay Mehta Annual Award for Clinical Scientists:

1. Roberto Bolli: Louisville, USA	2021
2. Ali J. Marian: Houston, USA	2022
3. Robert J. Shmookler Reis: Little Rock, USA	2023

9. Amarjit Arneja Distinguished Lecture Award in Prevention of Heart Disease:

1. Gavin Oudit: Edmonton, Canada	2022
2. Buddhadeb Dawn: Las Vegas, USA	2023

10. Paul Ganguly Distinguished Lecture Award in Cardiovascular Science:

1. Deepak Srivastava: San Francisco, USA	2022
2. Ren-Ke Li: Toronto, Canada	2023

11. Roberto Bolli Award for Young Investigators:

1. Roberto Bolli Symposia: Winnipeg, Canada	2014	5. Ayelen Rodriguez-Portelles: Holguin, Cuba	2018
2. Roberto Bolli Symposia: Omaha, USA	2015	6. Rushita Bagchi: Colorado, USA	2019
3. Roberto Bolli Symposia: Sherbrook, Canada	2016	7. Inna Rabinovich-Nikitin: Winnipeg, Canada	2021
4. Sanjiv Dhingra: Winnipeg, Canada	2017	8. Jovana Bradic: Kragujevac, Serbia	2021

12. Gary Lopaschuk Award for Graduate Students:

1. Garry Lopaschuk Symposia: Winnipeg, Canada	2014	5. Anthony Cannavici: Toronto, Canada	2018
2. Garry Lopaschuk Symposia: Omaha, USA	2015	6. Gary Lopaschuk Symposia: Vrnjacka Banja, Serbia	2019
3. Garry Lopaschuk Symposia: Sherbrook, Canada	2016	7. Noemi Toth: Szeged, Hungary	2021
4. Jamillah Hammond: Orlando, USA	2017		

13. Morris Karmazyn Poster Award in Translational Medicine:

1. Four Poster Awards: Winnipeg, Canada	2014	6. Four Poster Awards: Vrnjacka Banja Serbia	2019
2. Four Poster Awards: Omaha, USA	2015	7. Four Poster Awards: Banja Luka, Bosnia & Herzegovina	2021
3. Four Poster Awards: Sherbrook, Canada	2016	8. Four Poster Awards: Winnipeg, Canada	2022
4. Four Poster Awards: Orlando, USA	2017	9. Four Poster Awards: Tampa, USA	2023
5. Four Poster Awards: Havana, Cuba	2018		

14. Margaret Moffat Poster Award in Biomedical Sciences:

1. Four Poster Awards: Winnipeg, Canada	2014	6. Four Poster Awards: Vrnjacka Banja Serbia	2019
2. Four Poster Awards: Omaha, USA	2015	7. Four Poster Awards: Banja Luka, Bosnia & Herzegovina	2021
3. Four Poster Awards: Sherbrook, Canada	2016	8. Four Poster Awards: Winnipeg, Canada	2022
4. Four Poster Awards: Orlando, USA	2017	9. Four Poster Awards: Tampa, USA	2023
5. Four Poster Awards: Havana, Cuba	2018		

15. St. Boniface Hospital Albrechtsen Research Centre Travel/Poster Awards:

- | | |
|---|------|
| 1. Seven Poster Awards: Sherbrook, Canada | 2017 |
| 2. Seven Poster Awards: Havana, Cuba | 2018 |
| 3. Six Poster Awards: Vrnjacka Banja Serbia | 2019 |

D. European Section Award Recipients:

1. Bohuslav Ostadal Award for Excellence in Cardiovascular Sciences:

- | | | | |
|---|------|---|------|
| 1. Grant Pierce: Winnipeg, Canada | 2014 | 6. Lorrie Kirshenbaum: Winnipeg, Canada | 2019 |
| 2. Devendra Agrawal: Orlando, USA | 2015 | 7. Gary Lopaschuk: Edmonton, Canada | 2021 |
| 3. David Eisner: Manchester, United Kingdom | 2016 | 8. Tanya Ravingerova: Bratislava, Slovak Republic | 2022 |
| 4. Peter Ferdinandy: Budapest, Hungary | 2017 | 9. Rodolphe Fischmeister: Orsay, France | 2023 |
| 5. Narcisa Tribulova: Bratislava, Slovak Republic | 2018 | 10. Michael Czubryt: Winnipeg, Canada | 2023 |

2. Jan Slezak Award for Excellence in Cardiovascular Sciences:

- | | | | |
|--|------|---|------|
| 1. Belma Turan: Ankara, Turkey | 2014 | 5. Frantisek Kolar: Prague, Czech Republic | 2018 |
| 2. Tanya Ravingerova: Bratislava, Slovakia | 2015 | 6. Andrew R. Marks: New York, USA | 2019 |
| 3. Zoltán Papp: Debrecen, Hungary | 2016 | 7. Michael Czubryt: Winnipeg, Canada | 2021 |
| 4. Martin Morad: Charleston, USA | 2017 | 8. Vladimir Jakovljevic: Kragujevac, Serbia | 2022 |

3. Andras Varro Award for Excellence in Cardiovascular Sciences:

- | | | | |
|--|------|----------------------------------|------|
| 1. Deepak Srivastava: San Francisco, USA | 2016 | 5. Martin Morad: Charleston, USA | 2021 |
| 2. Edward Carmeliet: Leuven, Belgium | 2017 | 6. Ricardo Gelpi: Buenos Aires, | 2022 |
| 3. Dragan M. Djuric: Belgrade, Serbia | 2018 | 8. Devendra Agrawal: Pomona, USA | 2023 |
| 4. Michael Czubryt: Winnipeg, Manitoba | 2019 | | |

4. Annual Honorary Lecture Medal Dedicated to Dr. Naranjan Dhalla:

- | | | | |
|--|------|---|------|
| 1. Ursula Raven: Freiburg, Germany | 2016 | 5. Lorrie Kirshenbaum: Winnipeg, Canada | 2021 |
| 2. David Eisner: Manchester, USA | 2017 | 6. Igor Efimov: Washington DC, USA | 2022 |
| 3. Ger Stienen: Amsterdam, Netherlands | 2018 | 7. Gerd Heusch: Essen, Germany | 2023 |
| 4. Grant Pierce: Winnipeg, Canada | 2019 | | |

5. Poster Awards:

- | | |
|--|------|
| 1. Karl Werdan and Keld Kjeldsen (4): Vrnjack Banja, Serbia | 2019 |
| 2. Karl Werdan and Attila Ziegelhöffer (4): Banja Luka, Bosnia & Herzegovina | 2021 |
| 3. Karl Werdan and Attila Ziegelhöffer (4): Szeged, Hungary | 2022 |
| 4. Karl Werdan, Attila Ziegelhöffer and Milosav Kostić (6): Timișoara, Romania | 2023 |

E. South American Section Award Recipients:

1. Otoni Gomes Award for Excellence in Cardiovascular Sciences:

- | | | | |
|---|------|--|------|
| 1. Tania Maria Andrade Rodrigues: Sergipe, Brazil | 2014 | 4. Bruno Buchholz: Buenos Aires, Argentina | 2017 |
| 2. Veronica D'Annunzio: Buenos Aires, Argentina | 2015 | 5. Péter P. Nanasi: Debrecen, Hungary | 2018 |
| 3. Harpal S. Buttar: Ottawa, Canada | 2016 | | |

2. Ricardo Gelpi Award for Excellence in Cardiovascular Sciences:

- | | | | |
|---|------|--|------|
| 1. Martin Donato: Buenos Aires, Argentina | 2014 | 4. Melchior Luiz Lima: Vitoria, Brazil | 2017 |
| 2. Antoinette Oliveira Blackman: Brasilia, Brazil | 2015 | 5. Andrés Varró: Szeged, Hungary | 2018 |
| 3. Devendra K. Agrawal: Omaha, USA | 2016 | | |

F. India Section Award Recipients:

1. Suresh K. Gupta Oration Award in Cardiovascular Sciences:

1. Bohuslav Ostadal: Prague, Czech Republic	2014	5. Pawan Singal: Winnipeg, Canada	2017
2. Morris Karmazyn: London, Canada	2015	6. Peter Nanasi: Debrecen, Hungary	2018
3. Dinender K. Singla: Orlando, USA	2015	7. Mahesh P. Gupta: Chicago, USA	2019
4. Grant Pierce: Winnipeg, Canada	2016	8. Lorrie A. Kirshenbaum: Winnipeg, Canada	2020

2. Ramesh Goyal Oration Award in Cardiovascular Sciences:

1. Grant Pierce: Winnipeg, Canada	2014	5. Madhu Anand Srivastava: Montreal, Canada	2018
2. Ghassan Bkaily: Sherbrooke, Canada	2015	6. Paul K. Ganguly: Riyadh; Saudi Arabia	2019
3. Chandrasekharan C. Kartha: Trivandrum, India	2016	7. Buddhadeb Dawn: Las Vegas, USA	2020
4. Om Parkash Yadava: New Delhi, India	2017	8. Rajiv Narang: New Delhi, India	2023

3. Harpal Buttar Oration Award in Cardiovascular Sciences:

1. Shyam S. Agrawal: New Delhi, India	2014	5. Rajesh Kumar: Chandigarh, India	2018
2. Devendra Agrawal: Omaha, USA	2015	6. Vijaya M. Nayak: Bangalore, India	2019
3. Dinender K. Singla: Orlando, USA	2016	7. Atul Abhyankar: Surat, India	2020
4. Viswanathan Mohan: Chennai, India	2017	8. Srinivas Tipparaju: Tampa, USA	2023

4. Rakesh Kukreja Oration Award in Cardiovascular Sciences:

1. Balram Bhargava: New Delhi, India	2017	4. Vandana Patravale: Mumbai, India	2020
2. Vivek Jawali: Bangalore, India	2018	5. Sanjiv Dhingra: Winnipeg, Canada	2023
3. ShivaKumar: Trivandrum, India	2019		

5. Suresh Tyagi Young Faculty Award:

1. V.T. Siddharth: Madurai, India	2018
2. Kalaivani V: Trivandrum, India	2019

6. Devendra K. Agrawal Young Investigator Award:

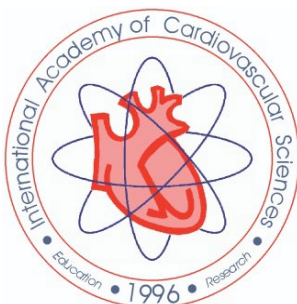
1. Lakshmi Subramanian: Chennai, India	2018
2. Raghu Bhushan: Mangalore, India	2019

7. Riya and Paul Ganguly Symposium Award:

1. 4 Speakers: Bangalore, India	2019
2. 4 Speakers: New Delhi, India	2020

8. Poster Awards:

1. Naranjan S. Dhalla Poster Awards
2. C.C. Kartha Student Travel Awards



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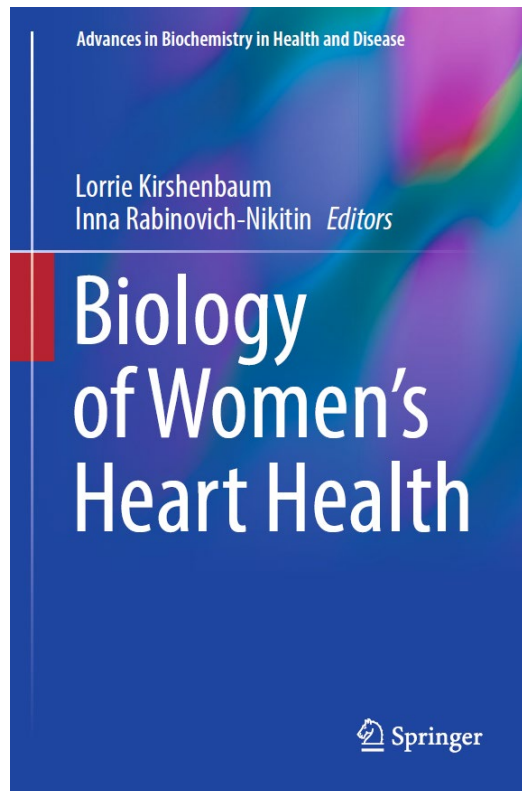
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Cardiovascular disease (CVD) is the leading cause of morbidity and mortality in women and men worldwide and represents a major financial burden to world health care systems. Importantly, CVD has eclipsed cancer as the leading cause of death for women globally. Through advancements in research and clinical testing, the symptoms and risk factors for CVD have been well established for men, but not for women. Consequently, there is an immediate need for new innovative research that will bridge this gap and allow for improved early diagnosis and treatment of CVD in women. This book will serve as a guide for health care providers to better understand the physiological, biochemical, and genetic differences in heart disease in women with the goal of providing improved education, awareness and treatment of cardiovascular disease in women. The book will cover topics such as: sex dependent clinical outcomes of cardiovascular disease, cardiac protection by estrogen, cardiac health during menopause, cardiac rehabilitation programs, fitness and exercise, cardio-oncology, shift work and the CVD risk, and pregnancy related CVD.

"Biology of Women's Heart Health" discusses new perils on diagnosis, treatment, education and prevention of heart disease in women, offers data to understand of why women are more at risk than men for developing cardiovascular disease and provides updated research and clinical findings on cardiovascular disease and treatment in women. <https://link.springer.com/book/10.1007/978-3-031-39928-2>

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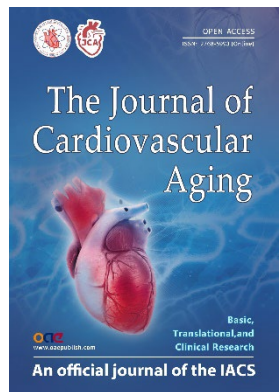
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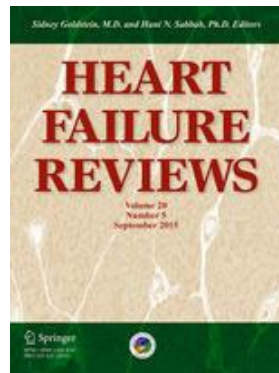
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