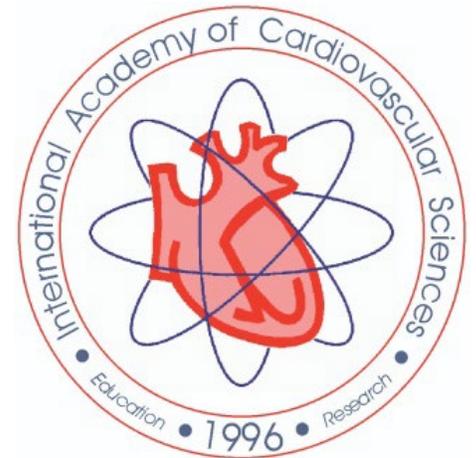


Promoting Cardiovascular Education, Research and Prevention

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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President Elect- IACS Scientific Achievements of Dr. András Varró



Dr. András Varró

Dr. András Varró was born in Szeged Hungary in 1954. He finished his high school studies in 1972 there. In this year András Varró won a national competition in history among high school student in Hungary. He earned medical degree in the Medical University of Szeged in 1978.

After graduation he started working in the Drug Research Institute in Budapest Hungary where his job was to participate in the development of antiarrhythmic and cardiotoxic drugs by applying standard in vivo and in vitro experimental models. Between 1982 and 1984 he spent two years as PhD student in the Krannert Institute of Cardiology, University of Indiana, Indianapolis USA under the supervision of Professor Borys Surawicz.

During his visit in Indianapolis he studied the cellular mechanism of different antiarrhythmic drugs by the conventional microelectrode technique. In the Drug Research Institute, András Varró defended his PhD thesis in 1987. Between 1988 and 1990, Dr. Varró spent two years in the Children's Hospital and the Department of Pharmacology and Cellular Biophysics University of Cincinnati, Ohio, USA working together with Professors Arnold Schwartz and David Lathrop studying the cellular mechanisms of antiarrhythmic and cardiotoxic drugs by applying the whole cell configuration of the patch-clamp technique.

After returning to Hungary he joined to the Department of Pharmacology and Pharmacotherapy of the Albert Szent Györgyi Medical University, Szeged, Hungary as the leader of the Cellular Electrophysiological Laboratory working together with Professor Julius Gy. Papp who served as chairman of the department. After earning the DSc degree, Dr. Varró was appointed as full professor in 1999 and served as chairman of the department between 2001 and 2019. Between 1991 and 1992 as Visiting

Scientist he worked in the Department of Physiology of Veterinary Preclinical Sciences at the University of Liverpool, UK with Professor David Eisner studying the cellular calcium handling in cardiac myocytes with the epifluorescence techniques. Professor András Varró served as Vice Rector for science and innovation of the University of Szeged between 2011 and 2014. Between 2019 and 2024 Dr. Varró worked as Full Professor as a leader of the Cardiac Cellular Electrophysiological Laboratory in the Department of Pharmacology and Pharmacotherapy University of Szeged, Hungary. Presently he is Professor Emeritus in the University of Szeged and works as full professor in the HUN-REN-SZTE Research Group of Cardiovascular Pharmacology.

His major research interest includes the cellular mechanisms of antiarrhythmic and proarrhythmic drug actions, particularly the physiology and pharmacology of cardiac potassium currents. Dr. Varró has published 351 papers (cum. IF=1086) in English languages which earned 17 517 citations and 72 Hirsh Index (Google Scholar). András Varró had been awarded with several awards like the "Carmeliet-Coraboeuf-Weidmann Lecture Award" given by EWGCCE, the "Distinguished Leadership Award, the Lifetime Achievement Award and Naranjan Dhalla Award in Innovative Investigation in Cardiovascular Sciences" by IACS.

He supervised the work of more than 10 PhD students and gives lecture for the undergraduate students in the topic of pharmacology in the Medical Faculty of the University of Szeged. He served in the Editorial Board of several internationally well-respected journals like Cardiovascular Research, British Journal of Pharmacology and Journal of Pharmacology and Pharmacotherapy. Dr. Varró is member of several scientific organisations and between 2013 and 2022 he served as president of the European Section of International Academy of Cardiovascular Sciences and currently he is the president elect of the same society in the international (World). In 2019, Dr. Varró was elected as a member of the Academia Europea. He is successful in obtaining research grants in the national and European levels.

List of 10 most important publications

1. Varró A, Nakaya Y, Elharrar V, Surawicz B. Use-dependent effects of amiodarone on V_{max} in cardiac Purkinje and ventricular muscle fibers. *Eur J Pharmacol* 112: 419-422, 1985.

2. Varró A, Negretti N, Hester SB, Eisner DA. An estimate of the calcium content of the sarcoplasmic reticulum in rat ventricular myocytes. *Pflügers Archiv Eur J Physiol* 423, 1993, 158-160.
3. Varró A, Baláti B, Jost N, Takács J, Virág L, Lathrop DA, Lengyel Cs, Tálosi L, Papp JGy: The role of the delayed rectifier component IKs in dog ventricular muscle and Purkinje fibre repolarization, *J Physiol* 523: 67-81, 2000.
4. Jost N, Virág L, Bitay M, Takács J, Lengyel Cs, Biliczki P, Nagy Z, Bogats G, Lathrop DA, Papp JGy, Varró A: Restricting excessive cardiac action potential and QT prolongation, *Circulation* 112: 1392-1399, 2005.
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6. Jost N, Virág L, Comtois P, Ördög B, Szűts V, Seprényi Gy, Bitay M, Kohajda Zs, Koncz I, Nagy N, Szél T, Magyar J, Kovács M, Puskás LG, Lengyel Cs, Wettwer E, Ravens U, Nánási PP, Papp JGy, Varró A, Nattel S: Ionic mechanisms limiting cardiac repolarization reserve in humans compared to dogs. *J Physiol* 591: 4189-4206, 2013.
7. Varró A, Tomek J, Nagy N, Virág L, Passini E, Rodriguez B, Baczkó I: Cardiac transmembrane ion channels and action potentials: Cellular physiology and arrhythmogenic behavior. *Physiol Revs* 101: 1083-1176, 2021.
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9. Mohammed ASA, Mohácsi G, Naveed M, Prorok J, Jost N, Virág L, Baczkó I, Topal L, Varró A: Cellular electrophysiological effects of the citrus flavonoid hesperetin in dog and rabbit cardiac ventricular preparations. *Sci Reports* 14: 7237, 2024.
10. Polyák A, Topal L, Zombori-Tóth N, Tóth N, Prorok J, Kohajda Zs, Déri S, Demeter-Haludka V, Hegyi P, Venglovecz V, Ágoston G, Husti Z, Gazdag P, Szlovák J, Árpádfy-Lovas T, Naveed M, Sarusi A, Jost N, Virág L, Nagy N, Baczkó I, Farkas AS, Varró A: Cardiac electrophysiological remodeling associated with enhanced arrhythmia susceptibility in a canine model of elite exercise. *eLife* 12: e80710, 2023.

**Officers, Advisory Board and Executive Council of International
Academy of Cardiovascular Sciences**

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Scientific and Professional Achievements of Dr. Harpal S. Buttar



Dr. Harpal S. Buttar

Dr. Harpal S. Buttar is Adjunct Professor, Department of Pathology & Laboratory Medicine, University of Ottawa, Faculty of Medicine, Ottawa, Ontario, Canada (since 1994 - to date). Visiting Prof. Faculty of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab, Honorary

Prof. Amity University, Noida, UP, India. Harpal Singh Buttar received Doctor of Veterinary Medicine Degree from Hissar, India, and M.Sc. & Ph.D. Degrees in Pharmacology from the University of Alberta, Edmonton, Canada. He also holds Fellowships in the International College of Nutrition (FICN) and International Academy of Cardiovascular Sciences (FIACS). For over 41 years, Dr. Buttar worked as a Senior Research Scientist & Assessment Officer in the Therapeutic Products Directorate, Health Canada (Canadian Equivalent of US-FDA), and retired in January 2013. Since May 1994 - to date, he has held cross-appointment of Adjunct Professorship in the Department of Pathology & Laboratory Medicine, Faculty of Medicine, University of Ottawa, Ontario, Canada. Currently, he is also a Visiting Prof. in the Faculty of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab, and Amity University, Noida, UP, India.

Dr. Buttar is the author/co-author of 50 book chapters, one monograph, and 157 research and review papers published in peer-reviewed journals. According to ResearchGate (September 25, 2024), his publications have been cited 3,320-times in leading biomedical journals and books, and his h-index is 26. Dr. Buttar has made valuable contributions in the area of prevention of cardiovascular diseases, obesity, and diabetes through dietary interventions, functional foods, and lifestyle modifications. In January 2014, the International Academy of Cardiovascular Sciences (India-Section) established "Dr. Harpal S. Buttar Oration Award" to recognize his international leadership and outstanding contributions in promoting nutritional and lifestyle changes in the prevention of cardiovascular diseases in Canada and

around the world. His Oration Award recipients are selected/honoured Annually by the International Academy of Cardiovascular Sciences (IACS)- India-Section.

Based on his scientific accomplishments and distinguished contributions made in the field of Pharmacology, Reproductive & Developmental Toxicology, Clinical Nutrition, Cardiovascular Sciences, and Biomedical Applications of Nanotechnology, Dr. Buttar was awarded the Fellowship of the International College of Nutrition (FICN), October 2013, and was elected as Fellow of the International Academy of Cardiovascular Sciences (FIACS), October 2015.

He also received Honorary Fellowship from the Punjab Academy of Sciences, February 2012, and was Awarded Fellowship by the Society of Pharmaceutical Education & Research (FSPER), March 2016. The Society for Ethnopharmacology of India gave him the Special Prestigious Recognition Award on February 2019. He has also received several National & International Honours and Awards. His Biographical Sketches have been published in: Directory of International Biography; Men of Achievement; and Men & Women of Science.

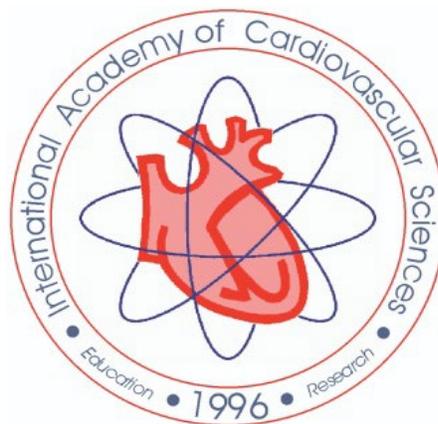
As a Biomedical Scientist, Pharmacology/Toxicology Researcher and Professor, Dr. Buttar has been publishing co-authorship papers and Book Chapters with Professors and Scholars from India, Iran, Egypt, Greece, Bulgaria, Hungary, Turkey, Poland, Thailand, Japan, Brazil, UK, Canada, and USA. Dr. Buttar has held membership in several professional societies and volunteer organizations, has served on the Editorial Boards of several International Journals, and External Examiner of M.Sc. and Ph.D. candidates. He is recipient of the 10-, 15-, and 25-Years Volunteer Services Awards from the Ontario Ministry of Citizenship and Culture as well as the Commemorative Medal for the 125th Anniversary of the Confederation of Canada.

Dr. Buttar is a World-renowned Scientist. His Quest is to Promote Excellence in Education and Research in Pharmacology, Toxicology & Pharmaceutical Sciences as well as prevention of diabetes mellitus & cardiovascular diseases globally. To promote excellence in Education and Research in Pharmaceutical Sciences, Dr. Buttar and his wife (Harinder Kaur) have established Annual Merit Awards at The Punjab Academy of Sciences, Punjabi University, Patiala, and Guru Nanak Dev University, Amritsar, Punjab. In March 2018, the Buttar and Sandhu Families made an Endowment of Ten Lakh Rupees and Established Annual Merit Awards in the name of their

grand-father, Sardar Amar Singh Mohanpur Memorial Awards, at Guru Gobind Singh Khalsa High School and College for Women, Sarhali, Punjab, India.

List of 10 most recent publications

1. Kothawade SM, Buttar HS, Tuli HS, Kaur G. Therapeutic potential of flavonoids in the management of obesity-induced Alzheimer's disease: an overview of preclinical and clinical studies. *Naunyn Schmiedebergs Arch Pharmacol* 396(11): 2813-2830, 2023.
2. Télessy IG, Buttar HS, Wilson DW, Okpala COR. Dietary supplements could prevent cardiometabolic syndrome: Are they safe and reliable enough for disease prevention and health promotion? *Front Cardiovasc Med* 10: 1091327, 2023.
3. Mehta JK, Kaur G, Buttar HS, Bagabir HA, Bagabir RA, Bagabir SA, Haque S, Tuli HS, Telessy IG. Role of the renin-angiotensin system in the pathophysiology of coronary heart disease and heart failure: Diagnostic biomarkers and therapy with drugs and natural products. *Front Physiol* 14:1034170, 2023.
4. Chaudhari V, Bagwe-Parab S, Buttar HS, Gupta S, Vora A, Kaur G. Challenges and opportunities of metal chelation therapy in trace metals overload-induced Alzheimer's Disease. *Neurotox Res* 41(3): 270-287, 2023.
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7. Singh D, Kaur P, Attri S, Singh S, Sharma P, Mohana P, Kaur K, Kaur H, Singh G, Rashid F, Singh D, Kumar A, Rajput A, Bedi N, Singh B, Buttar HS, Arora S. Recent advances in the local delivery systems for improvement of Anticancer therapy. *Curr Drug Deliv* 19(5): 560-586, 2022.
8. Mehra R, Garhwal R, Sangwanm K, Guiné RPF, Lemos ET, Buttar HS, Visen PKS, Kumar N, Bhardwaj A and Kumar H. Insights into the research trends on bovine colostrum: Beneficial health perspectives with special reference to manufacturing of functional foods and feed supplements. *Nutrients* 14(3):659, 2022.
9. Mehra R, Kumar H, Kumar N, Ranvir S, Jana A, Buttar HS, Telessy IG, Awuchi CG, Okpala COR, Korzeniowska M, Guine RPF. Whey proteins processing and emergent derivatives: An insight perspective from constituents, bioactivities functionalities to therapeutic applications. *J Functional Foods* 87: 104760, 2021.
10. Hussein L, Gouda M and Buttar HS (2021): Pomegranate, its components, and modern deliverable formulations as potential botanicals in the prevention and treatment of various cancers. *Curr Drug Deliv* 18(10):1391-1405, 2021.



University of Manitoba Bestows Title of Distinguished Professor Emeritus Upon Dr. Grant Pierce

On November 21, 2024, the University of Manitoba honored Dr. Grant Pierce, with the title of Distinguished Professor Emeritus. This award is bestowed upon distinguished former and current members of the University of Manitoba faculty and administration. It is one of the highest honours at the University and individuals are selected based on their distinguished service to administrative leadership, teaching, research, creative and scholarly works and service. It is one of several awards given by the university in celebrating and recognizing the success of colleagues and other distinguished individuals.



Dr. Grant Pierce (C) with University of Manitoba Chancellor, Anne Mahon (L) and President, Michael Benarroch (R)

Photo credit: University of Manitoba

Dr. Grant Pierce has made extraordinary contributions to cardiovascular research, education, and leadership over his distinguished career at the University of Manitoba. His over 250 peer-reviewed research manuscripts and 8 textbooks on ischemic heart disease, diabetes-related heart dysfunction, and the cardiovascular benefits of flaxseed have attracted over 11,300 citations. He recently identified a new platform for antibiotics that was transformed into a multimillion dollar biotech company.

His leadership and visionary contributions include the creation of the Canadian Centre for Agri-food Research in Health and Medicine, a unique collaboration of the Universities of Manitoba and Winnipeg, St Boniface Hospital and Agriculture and Agri-food Canada. He created the Youth BioLab, the only one in the world, which has hosted over 10,000 Manitoban children. Dr Pierce served as Chair of the Executive Review Committee for the Heart and Stroke Foundation of Canada, Executive Director of Research for St Boniface Hospital and Editor-in-Chief of the Canadian Journal of Physiology and Pharmacology.

He is World President of the International Academy of Cardiovascular Sciences. Dr Pierce's accomplishments were recognized with investiture in the Order of Manitoba, the Queen Elizabeth II Diamond Jubilee Medal, the Research Canada Leadership Award, election as a Fellow of the Royal Society of Canada, and in 2023, he received the Order of Canada, the highest distinction for a citizen in Canada. The University of Manitoba is proud to confer upon Dr. Grant Pierce the title of Distinguished Emeritus Professor of Physiology.

For the full story please click: <https://news.umanitoba.ca/um-honours-emeriti-2024/>

Report of the 11th North American Section Meeting of the IACS, Houston, Texas, USA

Paramjit S. Tappia

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The 11th Meeting of the North American Section of the IACS was held in Houston, Texas, USA, on September 19-21, 2024. Dr. Ali J Marian of the University of Texas Health Science Center and Dr. Joseph G. Rogers of the Texas Heart Institute served as the Conference Chairs.

Furthermore, competition for the Morris Karmazyn and Margaret Moffat Poster Awards were also organized during the conference with scheduled viewing and presentation times for the trainees.



*Welcome & Opening Comments by
Dr. Ali J. Marian*



*Welcome & Opening Comments
from Dr. Joseph G. Rogers*

The meeting featured both basic sciences and translational/clinical sessions, including three plenary talks, and 18 symposiums with lectures from eminent invited speakers. The meeting was organized into the following scientific topics: (1) Advances in Cardiovascular Sciences; (2) The JCA Symposium; (3) Novel Therapies for Cardiovascular Diseases; (4) Cell and Gene Therapy for Heart Failure; (5) Genetics and Genomics; (6) Women's Heart Health; (7) Metabolic Regulation of Heart Failure; (8) Cardiac Arrhythmias (Atrial Fibrillation); (9) Advances in Cardiovascular Science; (10) Vascular Biology; (11) Myocardial Fibrosis; (12) New Approaches and Therapeutic Targets in Heart Failure; (13) Advances in the Diagnosis and Treatment of Heart Failure; (14) Interventions in Cardiovascular Medicine and (15) Regulation of Cardiac Metabolism.

In addition, three award competitions, Roberto Bolli, M.D. Young Investigator Award, Gary Lopaschuk, Ph.D. Graduate Student Award and the Buddha Dawn, M.D. Early Career Award were organized during the conference.

The conference began (September 19) with the Dr. James T. Willerson Symposium with welcome remarks from the conference chairs, Drs. Marian and Rogers. This was followed with the address by Dr. Michael Czubyrt (University of Manitoba, Canada) President of the IACS-North America



*Presidential Address by Dr.
Michael Czubyrt*

Section. Dr. Naranjan S. Dhalla, Honorary Life President and Executive Director of the IACS made the announcement of the recipient of the IACS Medal of Merit to Dr. Heinrich Taegtmeier (UTHealth, USA) who was unable to attend the conference. To mark the opening of the conference a video tribute in memory of Dr. Willerson was broadcast.



IACS Honary Life President Dr. Naranjan S. Dhalla (University of Manitoba)

This was followed by three Keynote Lectures; one by Dr. Emerson Perin (The Texas Heart Institute, USA), entitled “Mesenchymal Precursor Cells: A New Approach to the Treatment of Heart Failure”; Dr. James F. Martin (Baylor College of Medicine/The Texas Heart Institute, USA) entitled “Hippo Signaling in Heart Regeneration” and Dr. Robert J. Schwartz (University of Houston, USA) entitled “Delivery of Therapeutic RNA to the Infarcted Heart”. After the keynote lectures the inauguration session concluded and attendees were invited to the reception and dinner buffet.



Keynote Lecture by Dr. Emerson Perin (The Texas Heart Institute)

Day 2 (September 20) began with two concurrent sessions. Session 1 entitled “Advances in Cardiovascular Sciences” was chaired by Drs. Michael Czubryt (Winnipeg, Canada) and Manisha Deogharia (UTHealth, USA) with four speakers: Dr. Gary Lopaschuk (University of Alberta,



Keynote Lecture by Dr. James F. Martin (Baylor College of Medicine/The Texas Heart Institute, USA)

Canada), who spoke on “High Cardiac Fatty Acid Oxidation Rates Decrease Cardiac Efficiency in Heart Failure”; Dr. Junichi Sadoshima (New Jersey Medical School, USA) presented on “Senescence Cardiomyopathy”; Dr. Buddha Dawn (University of Nevada, USA) on “Cardiac Cell Therapy: Cumulative Evidence and Emerging Approaches and finally in this session, Dr. Dragan Djuric (Belgrade, Serbia) spoke on “Homocysteine and Related Compounds in Translational and Clinical Cardiovascular Research”.

Session 2 entitled “The JCA Symposium” was chaired by Drs. Liela Rouhi (Houston, USA) and John Cooke (Houston, USA). The four speakers in this session were Dr. Lisa Lesniewski (University of Utah, USA) who presented



Keynote Lecture by Dr. Robert J. Schwartz (University of Houston, USA)

on “Endothelial Senescence: Mechanisms, Consequences and Potential Therapeutics”, which was followed by Dr. Weiwei Dang (Baylor College of Medicine, USA) who spoke on “Epigenetic and Chromatin Regulation of Aging in Mammalian Stem Cells”; Dr. Zheng Chen (UTHealth, USA) on “Targeting the Circadian Clock in Disease and Aging”; and Dr. Ronald DePinho (The University of Texas MD Anderson Cancer Center, USA) ended this session with a talk entitled “Treatment of Aging”.

Sessions 3 and 4 ran concurrently. The topic of session 3 was “Novel Therapies for Cardiovascular Disease” and was chaired by Drs. Priyatansh Gurha (UTHealth, USA) and Chu-Huang Chen (Texas Heart Institute, USA). The speakers in this session were Dr. John P. Cooke (Houston Methodist Hospital, USA) who spoke on “The Promise of RNA Therapeutic Effects of Cell-Based Therapy”; Dr. Christie Ballantyne (Baylor College of Medicine, USA) presented on “Update on Development of Genetically Identified Targets for the Treatment of Lipids and Atherosclerosis”; Dr. William Lagor (Houston, USA) presented “Gene Editing for Lipid and Vascular Diseases (Houston, USA) with the final talk in this session by Dr. Darren Woodside (Houston, USA) on “Integrins as Therapeutic Targets in Cardiovascular Disease”

Session 4 entitled “Cell and Gene Therapy for Heart Failure” was chaired by Drs. Reza Ardehali and Buddha Dawn. The 4 speakers in this session were Dr. Roberto Bolli (University of Louisville, USA) who presented on “Cell Therapy for Heart Failure; Dr. Tamer Mahmoud Abdelfattah Mohamed (Baylor College of Medicine, USA) who spoke on “Drawing the Roadmap for Forced Cell Cycle Induction in Cardiomyocytes”; Dr. Joshua Hare who gave a talk on “Mechanisms of Action Underlying Therapeutic Effects of Cell-based Therapy” and Dr. Jop van Berlo (University of Minnesota, USA) presented on “The Role of Endoglin in Cardiac Regeneration”.

Sessions 5 and 6 ran parallel and began promptly after the lunch break. Session 5 entitled “Genetics and Genomics” was chaired by Drs. Benjamin Cathcart and Ashish Kapoor. The first presenter in this session was Dr. Thomas Cooper (Baylor College of Medicine, USA) and he gave a lecture on “Mechanistic Insights of RNA Toxicity and Disrupted RNA Processing from Modeling Myotonic Dystrophy in Mice; which was followed by the presentation “The Role of the KDM5 Family of Histone Demethylase in the Heart” by Dr. Priyatansh Gurha (UTHealth, USA); “Short-chain Fatty Acids in the Gut-heart-Axis: Writing the Histone Code” by Dr. Maha Abdeltalif (Rutger’s Health, New Jersey Medical School, USA) and ended with a lecture by Dr. Kyle Eagen (Baylor College of Medicine, USA) on “Chromatin Structure and Regulation of Genes Expression”. Session 6 entitled “Women’s Heart Health” was chaired by Drs. Buddha Dawn and Lorrie Kirshenbaum (University of Manitoba, Canada). The first presenter in this session was Dr. Stephanie Coulter (The Texas Heart Institute, USA) on “The Rise in Non-Atherosclerosis Vascular Conditions” this was followed by a talk on “Adverse Effects of Shift Work on Cardiovascular Health During Pregnancy and Fetal Development” by Dr. Inna Rabinovich-Nikitin (University of Manitoba, Canada); “Women’s Heart Health: The Canary in the Coalmine of Women’s Health” by Dr. Colleen Norris (University of Alberta, Canada) and ended with a talk by Dr. Wanling Xuan (USFHealth, USA)

on “The Role of Paracardial Adipose Tissue in Age-Associated Cardiac Diastolic Dysfunction.”

Following the afternoon coffee break, sessions 7 and 8 began; Session 7 entitled “Metabolic Regulation of Heart Failure” was chaired by Drs. Manisha Deogharia and Jiang Chang. The first of 4 speakers in this session was Dr. Asa Gustafsson (University of California-San Diego, USA) who presented a talk on “Mitochondrial Quality Control in the Heart”, which was then followed by talks by Dr. Jason M. Karch (Baylor College of Medicine, USA) on “The ANT Family Contribution to mPTP-Dependent Necrosis in I/R injury”; Dr. Lorrie Kirshenbaum on “Innate Signaling Pathways in Doxorubicin Cardiomyopathy” and finally by Dr. Martin E. Young (UAB) on “Circadian Control of Cardiac Physiology & Pathophysiology”. Session 8, chaired by Drs. Christina Miyake and Miguel Valderrabano, entitled “Cardiac Arrhythmias (Atrial Fibrillation)” began with Dr. William Pu (Boston Children’s Hospital who gave a presentation on “Development and Regulation of Cardiac Dyads” and then Dr. Na Li (Baylor College of Medicine, USA) who presented on “Inflammatory Signaling and Atrial Arrhythmogenesis”; Dr. Martin Morad (Medical University of South Carolina, USA) who spoke on “RYR2 Mutations and CPVT” and ended with a presentation on “To Beat or Not to Beat: A Hippo in the Sinoatrial Node” by Dr. Jun Wang (UTHealth, USA).

With completion of the scientific sessions on Day 2, the poster viewing/competition for the Morris Karmazyn Best Poster Awards (4) and the Margaret Moffat Awards (4) for Best Poster began. Judges for this part of the conference were Dr. Leila Rouhi, who served as Chair, and Drs. Manisha Deogharia, Kedryn Baskin, Martin Young, Devendra K. Agrawal and Jun-ichi Abe. The evening ended with a reception and dinner buffet.

Day 3 (September 21) began with parallel sessions 9 and 10. Dr. Grant N. Pierce (University of Manitoba, Canada) and Dr. Leila Rouhi chaired session 9 entitled “Advances in Cardiovascular Science”. This session opened with a presentation by Dr. Nikolaos Frangogiannis (Albert Einstein College of Medicine, USA) on “Cellular and Molecular Mechanisms of Cardiac Fibrosis” followed by Dr. Philipp E. Scherer (The University of Texas Southwestern Medical Center, USA) who spoke on “Residual Cardiovascular Risk Post Weight Loss-Is there Room for Improvement?” This was followed with a talk by Dr. Sanjiv Dhingra (University of Manitoba, Canada) on “Cardiac Stem Cell Therapy: Do the Benefits Outnumber Risks”. The final speaker in this session was Dr. Thomas Vondriska (University of California, Los Angeles, USA) who spoke on “Chromatin as a Biomechanical Sensor. Session 10 was chaired by Drs. Mendel Chen and Daren Woodside. A talk by Dr. Dianna M. Milewicz (UTHealth, USA) on “Genetic and Molecular Triggers of Acute Aortic

Dissections” started this session. The next speaker in this session was Dr. Ying H. Shen from Baylor College of Medicine, USA, who spoke on “Aortic Disease Progression: Shifting from Compensatory Aneurysms to Decompensated Dissection. This presentation was followed talks by Dr. Vihang A. Narkar (UTHealth, USA) on “Exercise Mimicking Therapeutic Targets for Peripheral Arterial Disease” and Dr. Devendra K. Agrawal (Western University of Health Sciences, USA) on “Novel Strategies to Reduce Plaque Burden and Enhance Plaque Stability in Carotid Artery”.

Following the morning coffee break parallel sessions 11 and 12 began. Session 11 entitled “Myocardial Fibrosis” was chaired by Drs. Roberto Bolli and Nikolaos Frangogiannis. This session began with a lecture by Dr. Jiang Chang (Texas A&M University, USA) SA) on “Spurious Transcript Accumulation: A Conserved Mechanism in Heart Failure”; which was followed by Dr. Czubryt on “Targeting Scleraxis to Attenuate Cardiac Fibrosis and Heart Failure”; Dr. Reza Ardehali (Baylor College of Medicine, USA) on “Development of Perivascular Fibrosis after Myocardial Injury” and Dr. Ravichandran Ramasamy (NYU Langone, USA) ended this session with a talk on “Cell-specific Roles for RAGE in Myocardial Ischemia-Reperfusion Injury”. Session 12 entitled “New Approaches and Therapeutic Targets in Heart Failure” was chaired by Drs. Vihang A. Narkar and Junichi Sadoshima. The first of the 4 talks in this session was by Dr. Lilei Zhang (Baylor College of Medicine, USA) on “Circadian Regulation of Cardiac Remodeling”, which was followed by talks by Dr. Suresh Tyagi (University of Louisville, USA) on “Interceptive Inhibition of ADAMTS1 by Exercise-exosome for Attenuation of HFpEF”; Dr. Camila Hochman-Mendez (The Texas Heart Institute, USA) on “Reframing Cardiovascular Bioengineering: Innovative Solutions for End-Stage Heart Failure “ and Dr. Rakesh C. Kukreja (Virginia Commonwealth University, USA) on “Cardioprotective Signaling in Cancer Chemotherapy”. There were two further talks in this session by Drs. Rakesh Kukreja (Richmond, VA, USA) on PDE5 inhibition improves cancer chemotherapy and attenuates cardiotoxicity; Mohammed Alomar (Tampa, FL, USA) on cardiovascular complications emerging cancer therapeutics.

Concurrent Sessions 13 and 14 began after the lunch break. Session 13 entitled “Advances in the Diagnosis and Treatment of Heart Failure” and chaired by Drs. Roberto Bolli and Joseph G. Rogers, began with a talk by Dr. Sherif Naguch (Houston Methodist Hospital, USA) on “Cardiac Imaging in the Evaluation of HFpEF Patients”, which was followed by 3 further talks; Dr. Anita Deswal (The University of Texas MD Anderson Cancer Center, USA) on “GLP-1 agonists and Heart Failure: Is It All About the Weight Loss?”; Dr. Mark Draznepr (The University of Texas Southwestern Medical Center, USA) on “The

Remarkable Story of SGLT2 Inhibitors for Heart Failure” and then Dr. Douglas L. Mann (Washington University School of Medicine in St. Louis, USA) on “Myocardial Remission: The Audacity of Hope”. Drs. William Wang and Kostas Charitakis chaired Session 14 entitled “Interventions in Cardiovascular Medicine” and began with the presentation by Dr. Neal S. Kleiman (Houston Methodist Hospital, USA) on “Advances in Interventional Cardiology”, followed by talks of Dr. Mehdi Rezavi (The Texas Heart Institute, Baylor College of Medicine, USA) on “Biophysics of RF Ablation”; Dr. Yaxin Wang (The Texas Heart Institute, USA) on “Development Updates for a Pediatric Left Ventricular Assist Device with Miniature Maglev System” and Dr. Amir Ravandi (University of Manitoba, Canada) on “Impact of Cardiogenic Shock on Plasma Lipidome”.

After the lunch break, parallel Sessions 15 and 16 were the trainee competition awards. Session 15 was the “Roberto Bolli, M.D. Young Investigator Award” and Session 16 was the “Gary Lopaschuk, Ph.D. Graduate Student Award”. There were 3 oral presentations in Session 15 and the judges were Drs. Roberto Bolli, Sai Sudha Koka, Srinivas Tipparaju and Junischi Sadoshima. The first contestant to speak was Dr. Manisha Deogharia (UTHealth, USA) who presented on “Role of Histone Lysine Demethylase KDM5A in LMNA-Associated Dilated Cardiomyopathy”. The 2 other contestants in this competition were Dr. Arash Pezhouman (Baylor College of Medicine, USA) who spoke on “Generation of Chamber-Specific Cardiomyocytes: A Safe and Effective Strategy” and Dr. Andrew A. Gibb (University of Louisville, USA) who presented on “Targeting Glutamine Metabolism in the Pathogenesis of HF” There were 4 contestants in session 16 with Drs. Ravichandran Ramasamy, Gary Lopaschuk, Priyatansh Gurha and Grant Pierce serving as judges. The first of the competitors was Sikta Chattopadhyaya (University of Manitoba, Canada) who presented on “Interplay of Losartan and Scleraxis in Angiotensin II-induced Cardiac Fibrosis”; Hannah Sanders (Ohio State University, USA) who spoke on “High-phosphate Diet Induces Skeletal But Not Cardiac Muscle Mitochondrial Dysfunction and Metabolism in Mice”; Shannon Edhart (UTHealth, USA) on “Exploring the Role of Yap/Taz in Cardiac Neural Crest-derived Heart Development” and Huan-Hsing Chiang (Texas Heart Institute, USA) who spoke on “Lipidomic Profiling Substantiates the Atherogenicity of Electronegative L5 LDL, V5 VLDL and H5 HDL”.

The next competition (Session 17) was the “Buddhadeb Dawn, M.D. Early Career Award” continued after the coffee break with 4 presentations that were judged by Drs. Michael Czubryt, Suresh C. Tyagi, Buddhadeb Dawn and William Pu. The first contestant was Dr. Leila Rouhi (UTHealth, USA) who spoke on “DNA Double-Stranded Breaks in Cardiac Cells in Nuclear Envelopathies”. This

was followed by presentations by the other contestants, Dr. Vikrant Rai (Western University of Health Sciences, USA) who spoke on “DAMPs as Novel Molecular Targets to Attenuate Plaque Vulnerability”; Dr. Samarjit Das (Johns Hopkins Medicine, USA) on “The Secret Messages Between the Heart and Skeletal Muscle During Heart Failure; Dr. Venkatesh Sundararajan (West Virginia University, USA) who spoke on “The Mitochondrial LonP1 is Indispensable for Cardiac Maturation and Function”.

Parallel Session 18 entitled “Regulation of Cardiac Metabolism” was chaired by Drs. Maha Abdellatif and Asa Gustafsson. This session began with a talk by Dr. Ranko Skrbic (University of Banja Luka, Bosnia & Herzegovina) on “Urolithin A, a Gut Microbiota Metabolite, Attenuates Isoprelainine-induced Acute Myocardial Injury in Rats”. The 3 other speakers in this session were Dr. Srinivas Tipparaju (USFHealth, USA) on “Nampt Activation for Protecting the Diabetic Heart”; Dr. Vladimir Jakovljevic (University of Kragujevac, Serbia) on “The Role of Combined Administration of AT1 Receptor Antagonist & Nerylistin Inhibitor in the Promotion of Browning in an Experimental Model of Metabolic Syndrome”, and Dr. Kedryn Baskin (The Ohio State University, USA) on “The Crossroads of Transcriptional Regulation and Metabolism”.

Following the Adjournment and Closing ceremony, Day 3 culminated with an outstanding Gala Dinner with IACS Honours and Recognitions presented during the Awards Ceremony at the Westin Hotel Medical Center. Dr. Naranjan S. Dhalla presided over the presentation of the following IACS awards. The Medal of Merit was presented to Dr. Heinrich Taegtmeier (Houston, USA), which was received by Dr. Kedryn Baskin (The Ohio State University, USA) accepted the award on Dr. Taegtmeier’s behalf. The IACS Howard Morgan Award for Established Investigator in Cardiovascular Sciences was presented to Dr. Buddha Dawn (Las Vegas, USA).



Dr. Buddha Dawn (C) Receiving the Howard Morgan Award from Dr. Grant Pierce (L) and Dr. Roberto Bolli (R)

The Naranjan Dhalla Award for Innovative Investigators in Cardiovascular Science was awarded to Dr. Dragan Djuric (Belgrade, Serbia). Dr. Nikolaos Frangogiannis (New York, USA) was the recipient of the James Willerson Award for Excellence in Cardiovascular Medicine.



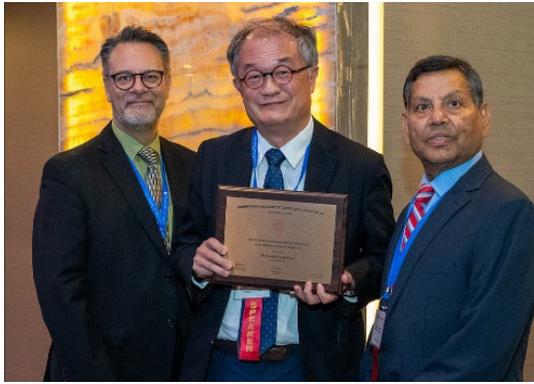
Dr. Dragan Djuric (C) Receiving the Naranjan Dhalla Award from Dr. Grant Pierce (L) and Dr. Roberto Bolli (R)



Dr. Kedryn Baskin (C) Receiving the Medal of Merit on behalf of Dr. Heinrich Taegtmeier from Dr. Grant Pierce (L) and Dr. Roberto Bolli (R)



Dr. Nikolaos Frangogiannis (C) Receiving the James Willerson Award from Dr. Grant Pierce (L) and Dr. Roberto Bolli (R)



Dr. Junichi Sadoshima (C) Receiving the Grant Pierce Award from Dr. Michael Czubryt (L) and Dr. Devendra K. Agrawal (R)

The Grant Pierce Award for Excellence in Cardiovascular Sciences was presented to Dr. Junichi Sadoshima (Newark, USA) and Dr. Sanjiv Dhingra (Winnipeg, Canada) received the Jawahar (Jay) Mehta Award for Clinical Scientist. The Dr. Amarjit Arneja Distinguished Lecture Award for Prevention of Heart Disease was awarded to Dr. Philipp Scherer (Dallas, USA).



Dr. Gary Lopaschuk (C) Receiving the Paul Ganguly Award from Dr. Roberto Bolli (L) and Dr. Buddha Dawn (R)

The Paul Ganguly Distinguished Lecture Award in Cardiovascular Science was presented to Dr. Gary Lopaschuk (Edmonton, Canada). The next 4 awards to the local team were presented to reflect not only their achievements, but also as recognition of hosting a very successful meeting of the IACS-North America Section.



Dr. Sanjiv Dhingra (C) Receiving the Jawahar (Jay) Mehta Award from Dr. Roberto Bolli (L) and Dr. Buddha Dawn (R)



Dr. Liela Rouhi (C) Receiving the IACS Distinguished Service Award from Dr. Grant Pierce (L) and Dr. Michael Czubryt (R)



Dr. Philipp Scherer (C) Receiving the Amarjit Arneja Award from Dr. Roberto Bolli (L) and Dr. Buddha Dawn (R)



Dr. Joseph Rogers (C) Receiving the IACS Distinguished Leadership Award from Dr. Grant Pierce (L) and Dr. Michael Czubryt (R)

Specifically, Dr. Liela Rouhi (Houston, USA) received the IACS Distinguished Service Award in Cardiovascular Medicine and Surgery; Dr. Joseph G. Rogers (Houston, USA) and Dr. Douglas Mann (St. Louis, USA) were the recipients of the Distinguished Leadership Award in Cardiovascular Sciences and lastly, but not the least, Dr. Ali J. Marian received the Lifetime Achievement Award in Cardiovascular Science, Medicine and Surgery.

The meeting was attended by a number of leading cardiovascular researchers from all over the world. Including from Canada, Europe, and the USA. This meeting provided an excellent opportunity for all participants to exchange their scientific ideas, renew existing and develop new friendships as well as enjoy the hospitality of The University of Texas Health Science Center, Houston, USA.



Dr. Douglas Mann (C) Receiving the IACS Distinguished Leadership Award from Dr. Grant Pierce (L) and Dr. Michael Czubryt (R)



Dr. Manisha Deogharia Recipient of the Dr. Roberto Bolli Young Investigator Award



Dr. Ali J. Marian (C) Receiving the IACS Lifetime Achievement Award from Dr. Grant Pierce (L) and Dr. Michael Czubryt (R)



Sikta Chattopadhyaya Recipient of the Dr. Gary Lopaschuk Graduate Student Award

Furthermore, Young Investigator Awards were presented by Drs. Michael Czubryt and Devendra K. Agrawal. The Roberto Bolli Young Investigator Award was presented to: Dr. Manisha Deogharia (UTHealth, USA) and the Gary Lopaschuk Graduate Student Award to Sikta Chattopadhyaya (University of Manitoba, Canada). The Buddha Dawn Early Career Award to Dr. Venkatesh Sundararajan (West Virginia University, USA). The awards also involved with the presentation of 4 awards for each of the poster sessions named after Margaret Moffat and Morris Karmazyn. The session and the conference were closed by remarks and expressions of gratitude by Drs. Marian and Rogers. The 2025 Annual meeting of the IACS-NAS was introduced by Dr. Buddha Dawn.



Dr. Venkatesh Sundararajan Recipient of the Dr. Buddha Dawn Early Career Award



Recipients of the Dr. Morris Karmazyn Poster Awards with Dr. Devendra Agrawal (L) and Dr. Michael Czubryt (R)



Recipients of the Margaret Moffat Poster Awards with Dr. Devendra Agrawal (L) and Dr. Michael Czubryt (R)

N.B. The Makoto Nagano Award for Distinguished Achievements in Cardiovascular Education was received by Dr. Rhian M. Touyz from the Research Institute of the McGill University Health Centre, Montréal, Québec, Canada, who was unable to attend the meeting.

The meeting was sponsored by: Baylor St. Luke’s Medical Center; UTHealth, Houston; The Journal of Cardiovascular Aging; Bristol Myers Squibb; Alnylam® Pharmaceuticals; Boston Scientific; Fujifilm; HEART; Health Resource Technology; Innovivo Speciality Therapeutics (ISTX); Kiniksa Pharmaceuticals; Wexler Surgical; Ms. Sara & Dr. Amy Willerson and Friends of James T. Willerson, M.D.

Acknowledgements: This meeting report was generated in consultation with and reviewed by Dr. A.J. Marian, M.D. (Conference Chair).



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Report on the 22nd Meeting of the South American Section of the IACS, Vitória, Brazil

Melchior Luiz Lima

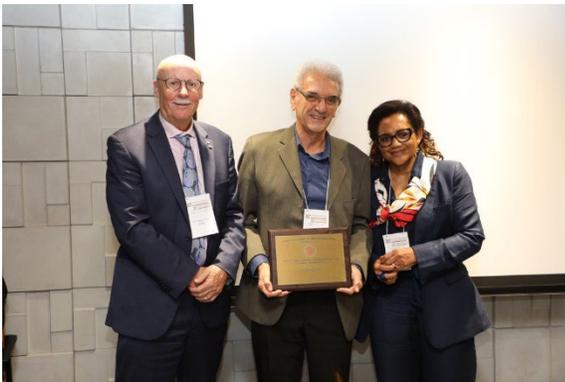
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The city of Vitória, Espírito Santo, through Hospital Meridional Vitória, had the honor of hosting the 30th Scientific Forum – International Congress of Cardiovascular Sciences, conceptualized by Prof. Dr. Otoni Moreira Gomes. Simultaneously, the 22nd Annual Meeting of the South American Section of the International Academy of Cardiovascular Sciences took place from October 17 to 19, 2024. This prestigious scientific gathering was coordinated by the São Francisco de Assis Cardiovascular Institute under the leadership of Dr. Elaine Maria Gomes Freitas, with Prof. Dr. Melchior Luiz Lima presiding as Congress President.

Eminent professors from the International Academy of Cardiovascular Sciences (IACS) enriched the event: Prof. Dr. Naranjan Dhalla (Canada), Prof. Dr. Grant Pierce (Canada), Prof. Dr. Lorrie Kirshenbaum (Canada), Prof. Dr. Dinender K. Singla (USA), Prof. Dr. Michael Kutryk (Canada), Prof. Dr. Ricardo Jorge Gelpi (Argentina), and Prof. Dr. Vladimir Jakovljevic (Serbia), each presenting critical scientific research. On October 17, Prof. Dr. Naranjan Dhalla from Winnipeg, Canada, delivered an outstanding keynote on the Global Milestones of the International Academy of Cardiovascular Sciences.



Dr. Dalton V. Vassallo (C) Receiving the Norman Alpert Award from Dr. Grant Pierce (L) and Dr. Antoinette Blackman (R)



Dr. Lorrie Kirshenbaum (C) Receiving the Ricardo Gelpi Award from Dr. Grant Pierce (L) and Dr. Elmiro Santos Resende (R)



Dr. Ivanita Stefanon (C) Receiving the Dennis B. McNamara Award from Dr. Grant Pierce (L) and Dr. Antoinette Blackman (R)



Dr. Michael Kutryk (C) Receiving the Dennis B. McNamara Award from Dr. Grant Pierce (L) and Dr. Henrique Barsanulfo Furtado (R)

The event featured a total of 76 presentations, including 57 lectures, 5 oral presentations, and 14 scientific research posters, with robust engagement among professors in discussions, bringing together 118 participants from across Brazil, including representatives from Espírito Santo.



Dr. Ricardo J. Gelpi (C) Receiving the Norman Alpert Award from Dr. Grant Pierce (L) and Dr. Antoinette Blackman (R)

The Forum provided an invaluable platform for young researchers to present advances in cardiovascular disease research, fostering knowledge exchange among leading professionals. A highlight was the participation of 20 graduate students from the Cardiovascular Electromechanics Laboratory at the Federal University of Espírito Santo (UFES), guided by Professors Dalton Valentim Vassallo and Ivanita Stefanon, who presented their research and contributed to the field's growth.

A special Awards Ceremony was held on October 18 in the Hospital Meridional Vitória Auditorium, coordinated by Professors Dr. Naranjan S. Dhalla and Dr. Grant N. Pierce. During the Meeting for Announcement of Recognition and Presentation of Awards by the South American Section of the IACS, the four best scientific research projects by UFES



Dr. Vladimir Jakovljevic (C) Receiving the Otoni Gomes Award from Dr. Grant Pierce (L) and Dr. Elmiro Santos Resende (R)

graduate students were recognized, honoring their academic excellence and innovation.



Dr. Melchior L. Lima (C) Receiving the IACS Lifetime Achievement Award from Dr. Grant Pierce (L) and Dr. Henrique Barsanulfo Furtado (R)

Professors Dalton Valentim Vassallo and Ivanita Stefanon, coordinators of the Graduate Program, received plaques in recognition of their exceptional contributions to cardiovascular sciences, celebrating their impact on training emerging researchers and advancing scientific knowledge. Additionally, the IACS awarded Prof. Dr. Lorrie Kirshenbaum (Canada), Prof. Dr. Michael Kutryk (Canada), Prof. Dr. Ricardo Jorge Gelpi (Argentina), Prof. Dr. Vladimir Jakovljevic (Serbia), and Prof. Dr. Melchior Luiz Lima for their notable contributions to scientific research. This Forum marked a significant milestone for Brazil's cardiovascular science community, facilitating productive dialogue among experts and reinforcing a shared commitment to advancing cardiovascular research and treatment.



Delegates in Attendance of the Meeting

Report of the 10th European Section Meeting of the IACS Bratislava, Slovak Republic

Adriana Duriš Adameová

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The 10th annual meeting of the European Section of the International Academy of Cardiovascular Sciences (IACS-ES) took place in Bratislava, Slovakia from 28th to 30th, October, 2024. The scientific part of the conference was held in the Hotel Tatra while the closing ceremony was held in the Primate's Palace located in the historical center of the city. The main organizers of the conference were the Faculty of Pharmacy, Comenius University Bratislava, the Centre of Experimental Medicine, Slovak Academy of Sciences and the International Academy of Cardiovascular Sciences (IACS-ES). The meeting attended about 180 delegates coming from various European countries (Czechia, Poland, Hungary, Germany, Spain, France, UK, Greece, Italy, Bosnia and Herzegovina, Serbia, Denmark, The Netherlands, Turkey, Slovakia) and from the South and North America.

The conference website was www.iacs20244.eu and served as a good platform for registration and abstract submission as well as for finding the updated information. The conference organizing committee made all efforts to make the meeting in an environment-friendly way and minimize the use of the paper as much as possible. QR codes referring to the online program were advertised in the conference venue and abstracts have been published online in the European Pharmaceutical Journal, an official journal of the Faculty of Pharmacy (<https://sciendo.com/journal/AFPUC>).

The motto of the conference was: "Know the heart: novel insights into the prevention and treatment of heart disease to live and promote a healthy lifestyle." Totally, 66 lectures were given by the invited speakers and 10 talks were given by young investigators to be judged by the scientific committees. The two parallel sections matching the motto referred to either of the following scientific topics: *i)* Advances in cardiovascular sciences, *ii)* Advances in cardiovascular medicine, *iii)* Novel insights into pathomechanisms of heart failure, *iv)* Effects of nutrition and environment on heart function, *v)* Electrical abnormalities of the heart and treatment, *vi)* Circadian variation, species and sex differences in cardiovascular studies, *vii)* Novel approaches and therapeutic targets in cardiovascular disease, *viii)* Hydrogen in medicine, *viiii)* Cardiometabolic conditions and heart, *vv)* Basic and translational knowledge in cardiovascular disease.

During the opening ceremony, the following IACS recognitions were presented: Dr. Robert Hatala - Distinguished Service Award (Bratislava, Slovak Republic), Dr. Miroslav Barančík - Distinguished Service Award (Bratislava, Slovak Republic), Dr. Eva Gonçalvesová - Distinguished Leadership Award (Bratislava, Slovak Republic), Dr. Jan Klimas - Distinguished Leadership Award (Bratislava, Slovak Republic) and Dr. Rodolphe Fischmeister - Naranjan Dhalla Honorary Lecture Medal (Orsay, France).



Dr. Robert Hatala (2nd Left) Receiving the Distinguished Service Award from Drs. Vladimír Jakovljević (L), István Baczkó (2nd Right) and Grant Pierce (R)



Dr. Eva Gonçalvesová (2nd Right) Receiving the Distinguished Leadership Award from Drs. Vladimír Jakovljević (L), István Baczkó (2nd Left) and Grant Pierce (R)



Dr. Jan Klimas (2nd Right) Receiving the Distinguished Leadership Award from Drs. Vladimir Jakovljevic (L), István Baczkó (2nd Left) and Grant Pierce (R)



Dr. Rodolphe Fischmeister Receiving the Naranjan Dhalla Honorary Lecture Medal from Drs. Naranjan Dhalla (L), Vladimir Jakovljevic (2nd Left) and András Varro (R)



Dr. Miroslav Barančík with the Distinguished Service Award

During the closing ceremony in the Hall of Mirrors of the Primate's Palace, the following IACS recognitions were presented: Dr. Danina Muntean - Andras Varro Award for Excellence in Cardiovascular Science, (Timisoara, Romania), Dr. Ferenc Gallyas Jr. - Bohuslav Ostadal Award for Excellence in Cardiovascular Science, (Pecs, Hungary), Dr. Ranko Skrbic - Ricardo

Gelpi Award for Excellence in Cardiovascular Sciences (Banja Luka, Bosnia and Hercegovina), Dr. Saadeh Suleiman - Jan Slezak Award for Excellence in Cardiovascular Science (Bristol, United Kingdom), Dr. Lorrie Kirshenbaum - Jan Slezak Award for Excellence in Cardiovascular Science (Winnipeg, Canada), Dr. Gerd Heusch - Howard Morgan Award for Distinguished Achievements in Cardiovascular Research (Essen, Germany), Dr. Peter Krenek - Distinguished Service Award (Bratislava, Slovak Republic), Dr. Mojmir Mach - Distinguished Leadership Award (Bratislava, Slovak Republic), and Dr. Adriana Duriš Adameová - Life-Time Achievement Award (Bratislava, Slovak Republic).

In line with the IACS mission, a particular attention on the young investigators was paid. There were several activities undertaken to support the attendance of young investigators from the Europe. Thanks to the Dr. Morad Fund, 11 travel grants were given to the PhD. students and post-docs and the 6 recipients selected by an international scientific committee were given a great opportunity to present the latest findings of their projects and compete in the IACS-ES 2024 Young Investigator Oral Presentation Competition. The selection criteria for the competition enrollment were the project quality and scientific achievements delineated in the CV.



Dr. Danina Muntean (C) Receiving the András Varro Award from Drs. Grant Pierce (L) and Vladimir Jakovljevic (R)



Dr. Ferenc Gallyas Jr. (C) Receiving the Bohuslav Ostadal Award from Drs. Roberto Bolli (L) and Vladimir Jakovljevic (R)



Dr. Ranko Skrbic (C) Receiving the Ricardo Gelpi Award from Drs. Grant Pierce (L) and Melchior Lima (R)



Dr. Saadeh Suleiman (C) Receiving the Jan Slezak Award from Drs. András Varró (L) and Vladimir Jakovljevic (R)

There was a constructive scientific discussion on each of the projects and the awards committee had a very difficult decision to select the winners because the project quality and scientific skills of the presenters were at a very high level. The laureates of the IACS-ES 2024 Young Investigator Award were A. Boros with the project entitled “Effects of chronic cholinergic potentiation on blood pressure, cardiac ischemic tolerance and immune system in hypertensive rats with expression of human C reactive protein” and Ana I Moreno-Manuel with the project “Enhancing the understanding of Short QT Syndrome type 3 and its therapeutical options”.

Another competition for young investigators was Roberto Bolli Young Investigator Competition. The conference expenses of the nominees of this competition were covered by the donor of the award – Dr. Bolli. Of all nominees, L. Ionica with her project “Cardiac monoamine oxidase is a target of SGLT2i in overweight non-diabetic patients with chronic heart failure.” was selected by the committee as a recipient of the Roberto Bolli Young Investigator Award. In addition to the oral competitions, there was also a poster presentation competition and 6 named poster awards were presented during the closing ceremony in the Primate’s Palace.

Although the delegates have agreed that the high-level science of the meeting kept them very busy during all three days, they had also some time for networking and informal discussions. The beautiful pieces of performance showing some attributes of the Slovak culture and the music of a violinist playing during the Closing ceremony in the Hall of Mirrors of the Primate’ Palace as well as a visit of the unique representative premises of the palace, which were open for the delegates during the Gala Dinner, were liked very much and contributed to the warm, friendly atmosphere of the meeting.



Dr. Lorrie Kirshenbaum (C) Receiving the Jan Slezak Award from Drs. András Varró (L) and Vladimir Jakovljevic (R)

We truly believe that our ambition that all delegates of the IACS-ES 2024 meeting benefit through a fruitful exchange of views, discussions and networking and that the meeting

is an unforgettable experience came true. We look forward to attending the next IACS meeting!



Top Left: Dr. Gerd Heusch (C) Receiving the Howard Morgan Award from Drs. Grant Pierce (L) and András Varró (R); Top Right: Dr. Peter Krenek (C) Receiving the Distinguished Service Award from Drs. Vladimir Jakovljevic (L) and István Baczkó (R); Bottom Left: Dr. Mojmir Mach Receiving the Distinguished Leadership Award from Drs. Vladimir Jakovljevic (L) and István Baczkó (R) and Dr. Adriana Duriš Adameová (C) Receiving the Life-Time Achievement Award from Drs. Naranjan Dhalla (L) and Grant Pierce (R)



L. Ionica (C) Receiving the Roberto Bolli Young Investigator Award from Drs. Adriana Duriš Adameová (R) and Vladimir Jakovljevic (L)

A. Baros (2nd Left) and Ana I. Moreno-Manuel (2nd Right) Receiving the IACS-European Section Young Investigator Award from Drs. Adriana Duriš Adameová (R) and András Varró (L)



Winners Receiving the IACS-European Section 2024 Poster Awards from Drs. Adriana Duriš Adameová (R) and István Baczkó (R); Bottom Right: Violinist playing at the Awards Gala Dinner



26th Annual Institute of Cardiovascular Sciences 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

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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 13-14, 2024 which celebrates leadership in research education and training. The awards program day was established by Dr. Naranjan Dhalla, the founder of the Institute of Cardiovascular Sciences 26 years ago to 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 and recognizes others who have contributed to the advancement of the Institute of Cardiovascular Sciences.

cardiovascular sciences; Mr. Jack Litvack Exemplary Service Award for exemplary service to the ICS; 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. Sonia Anand (L) Receiving the ICS Dr. Robert E. Beamish Leadership Award from Dr. Sabine Hombach-Klonisch



Dr. Sharon Mulvagh (L) Receiving the ICS Mr. Ken Bowman Outstanding Research Achievement Award from Dr. Jude Uzanne

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

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 26 years, this premier event has honoured many distinguished scientists including several Nobel Prize Laureates.

On Thursday, November 14, 2024, the 26th Annual Institute of Cardiovascular Sciences, Naranjan Dhalla Cardiovascular Awards Day Program was held and honoured several world-class scientists including; Dr. Sonia

S. Anand, McMaster University, Hamilton, Canada (Dr. R.E. Beamish Award); Dr. Sharon Mulvagh, Dalhousie University, Halifax, Canada (Mr. Ken Bowman Award); Dr. Stephen Archer, Queen's University, Kingston, Canada (Dr. John Forester Award); Dr. Nikolaos G. Frangogiannis, Albert Einstein College of Medicine, New York, USA (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.



Dr. Stephen Archer (L) Receiving the ICS Dr. John Forester Distinguished Lecture Award from Mrs. Forester



Dr. Nikolaos G. Frangogiannis (L) Receiving the ICS Dr. Vincenzo Panagia Distinguished Lecture Award from Dr. Ian Dixon

Bio's of the Award Recipients

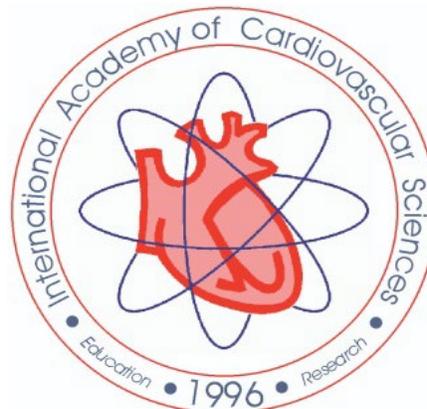
Dr. Sonia Anand is a Professor of Medicine and Epidemiology at McMaster University, is the Director of the Chanchlani Research Centre focused on Health Equity Research, and is a Senior Scientist at the Population Health Research Institute. Dr. Anand received a Doctor of Medicine from McMaster in 1992, Internal Medicine Training at McMaster and a Fellowship of the Royal College of Physicians and Surgeons of Canada in 1996. After additional clinical training in thrombosis and in vascular medicine at Harvard's Brigham and Women's Hospital, Dr. Anand works as a vascular medicine specialist at Hamilton Health Sciences and McMaster University. Dr. Anand further received her Master's in Clinical Epidemiology at McMaster in 1996 and Ph.D. in Health Research Methodology at McMaster in 2002. She holds the Canada Research Chair in Ethnic Diversity and Cardiovascular Disease and the Heart and Stroke Foundation of Ontario/Michael G. DeGroote Chair in Population Health Research. Her present research focuses upon the environmental and genetic determinants of vascular disease in populations of varying ancestral origin, women and cardiovascular disease. Dr. Anand's work is widely published amongst academic journals with over 475 scientific publications, and in 2019 she was inducted as a Fellow to the Canadian Academy of Health Sciences. In 2020 she received the Lifetime Achievement Award for Diabetes from the South Asian Health Foundation, UK. In 2021, Dr. Anand joined the National Heart and Stroke Foundation as a Board member. In 2022, Dr. Anand received the Margolese National Heart Disorders Prize, and was inducted as a Fellow of the Royal Society of Canada. In 2023, she was awarded the YWCA Women of Distinction award. As of July 2023, Dr. Anand has taken on the role of Associate Vice-President, Global Health.

Dr. Sharaon Mulvagh is Professor of Medicine at Dalhousie University, Halifax, Nova Scotia, Canada, Professor Emeritus at Mayo Clinic, Rochester, MN, USA, and President of the Canadian Society of Echocardiography. Dr. Mulvagh is a clinical cardiologist, echocardiographer, and clinician investigator for multiple Federal (CIHR-Canadian Institute of Health Research) and Foundation (Heart and Stroke Canada; Dalhousie University) funded collaborative research projects in Canada and USA focused on women and heart disease, contrast echocardiography, and POCUS. She is Co-Director of the Women's Heart Health Clinic at the Maritime Heart Center in Halifax, NS, and Immediate Past Director of Dalhousie University GIM POCUS program. She is a current member of National Board of Echocardiography (NBE) Critical Care Echocardiography Exam Writing Committee, and the NBE Critical Care Echocardiography and Adult Comprehensive Echocardiography Certification Committees, co-director of the American Society of Echocardiography (ASE) Echo Hawaii and serves on the International Contrast Ultrasound Society Board of Directors. She is a past member of ASE Board of Directors and Past-Chair of ASE

Scientific Sessions 2022, Immediate Past-Chair of the Nova Scotia Provincial Board of Directors for Heart & Stroke Canada, and Immediate Past-Chair of Canadian Women's Heart Health Alliance Knowledge Translation and Mobilization Working Group, She has chaired numerous echocardiographic guidelines imaging task forces and committees, including the initial consensus statement and subsequent guidelines and updates on Ultrasound Enhancing Agents. She has over 150 peer reviewed publications and is on the editorial boards of Canadian Journal of Cardiology, Journal of the American Society of Echocardiography, and Journal of the American College of Cardiology. Dr. Mulvagh received her medical degree, magna cum laude, from University of Ottawa, Canada, interned at Dalhousie University, then completed her residency at Boston University, and cardiology fellowship at Baylor College of Medicine in Houston, TX. There, she consulted for Universities Space Research Associates (USRA) at NASA, Johnson Space Center, monitoring cardiac responses during spacewalks from Mission Control, training astronauts to do echocardiograms during spaceflight and developing countermeasures to microgravity. She then embarked on a 26-year academic career at Mayo Clinic in Rochester, MN, subsequently returning to Canada in 2016 to establish clinical and educational programs in cardiovascular care for women, stress/contrast echocardiography, and point of care ultrasound.

Dr. Stephen Archer is the Director of the Translational Institute of Medicine (TIME) and holds the C. Franklin and Helene K. Bracken Chair. He formerly served as the Head of the Department of Medicine at Queens University from 2012 - 2023. He is a physician scientist and a practicing cardiologist who specializes in the care of patients with various forms of pulmonary hypertension. After training at the Royal Columbian Hospital in BC and the Minneapolis Veteran Affairs Medical Center he joined the faculty at the University of Minnesota in 1988. He spent a decade on faculty and attained the rank of Professor under the guidance of his mentor and friend, Dr. E.K. Weir. He then served as Chief of Cardiology and Heart & Stroke Chair for Northern Alberta at the University of Alberta (1998-2007) and Chair of Cardiology and Harold Hines Jr Professor at the University of Chicago (2007-12). Dr. Archer then returned to Queen's University as the Head of Medicine and Program Medical Director for Kingston Health Sciences Centre. His translational cardiovascular research has been recognized with numerous awards, including being elected as a Fellow of the Royal Society of Canada and being awarded Distinguished Scientist Awards from the American Heart Association and American College of Cardiology. He received the AFMC President's Award for Exemplary National Leadership in Academic Medicine and was named the Chicago American Heart Association Coeur d'Or recipient in 2013 for leading the establishment of a prehospital STEMI care network in Chicago.

Dr Nikolaos Frangogiannis earned his medical degree from the University of Athens Medical School, then completed residency training in Internal Medicine (Clinical Investigator Pathway), and a fellowship in Cardiology, at Baylor College of Medicine, in Houston TX. After completing his fellowship in 1999, he joined the faculty at Baylor and established his laboratory investigating inflammatory mechanisms in cardiac injury, repair and remodeling. In 2010, Dr Frangogiannis relocated to Albert Einstein College of Medicine (Bronx NY), where he currently holds the Edmond J Safra/Republic National Bank of New York Chair in Cardiovascular Medicine. His laboratory is funded by NIH and Department of Defense grants and studies mechanisms of repair, remodeling and fibrosis in ischemic and non-ischemic heart failure. He has contributed over 200 manuscripts in high-quality journals and his work has been highly cited. He was recognized as an ISI highly-cited investigator for the last 3 years (2022, 2023, 2024). He is a prolific reviewer and regularly serves in study sections, peer review panels and journal editorial boards.



**International Academy of Cardiovascular Sciences- India
Section in Partnership with Marengo CIMS Hospital
Host Joint International Conference, Ahmedabad, India**

JIC 2025
Joint International Conference
JANUARY 10 - 12
21st Annual Scientific Symposium
30th Year of Academics

ONE HEART
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UNBREAKABLE

- Celebrating 20 Years of Unbreakable Academics
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Joint International Conference-2025

(Theme: "Resilience through Pandemics, Connected Across Continents")



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21st Annual Scientific Symposium Care Institute of Medical Society for Research and Education & 22nd Annual Meeting of the International Academy of Cardiovascular Sciences (India Section)

Organized by:

Mariengo CIMS Hospital, Ahmedabad
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International Academy of Cardiovascular Sciences (India Section)

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Joint International Conference-2025

(Theme: "Resilience through Pandemics, Connected Across Continents")

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Key Highlights

RICH SCIENTIFIC FEAST:

Cardiovascular Internal Medicine	Surgical Management of Valvular Heart Disease	Clinical Management of Heart failure
Rheumatic Heart Diseases	Challenges in Heart Transplant	Recent trends in the Diagnostics of CVD
NAFLD	TAVR	Diabetes and Cardiovascular Complications
Cardiac Pharmacology & Therapeutics		

Orations and Symposia of IACS

Riya and Paul Ganguly Symposium	Suresh K. Gupta Oration	Rakesh Kukreja Oration
C. R. Soman Symposium on Heart Failure	Ramesh K. Goyal Oration	Suresh Tyagi Oration
N. Radhakrishnan Symposium on Vascular Diseases	Harpal Buttar Oration	Devendra Agrawal Oration

Awards to Young Investigators

N. S. Dhalla Awards in Basic Sciences & Genomics Research	C.C. Kartha Awards in Cardiovascular Research	N. K. Ganguly Awards in Clinical Research
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Marengo CIMS Awards for Best Poster paper Presentations

SATELLITE SYMPOSIUM

- An Evening of Cardiac Pharmacology & Therapeutics
- 10 Points to Remember for Physicians (Cardiology)
 - Pulmonary & Critical Care Symposium
 - Neurology Update
 - Nephrology Update
 - Infectious Diseases - The friend in Need_
- Update ER'25 - Recent Advances in Emergency Medicine
 - Breast Cancer Update

Motivational talk by Pujya Dr. Gnanvatsal Swami
Life Coach & Eminent Speaker,
BAPS Swaminarayan Sanstha

Cardiology &



Cardiovascular Sciences

PROGRAM HIGHLIGHTS

Day - 1 • INTERNAL MEDICINE SYMPOSIUM

**Day - 2 • CARDIOVASCULAR SYMPOSIUM
• IACS ORATIONS, SYMPOSIUM & POSTER PRESENTATION**

Day - 3 • CARDIO METABOLIC & DIABETES SYMPOSIUM

SATELLITE SYMPOSIUM

- An Evening of Cardiac Pharmacology & Therapeutics
- 10 Points to Remember for Physicians (Cardiology)
 - Pulmonary & Critical Care Symposium
 - Neurology Update
 - Nephrology Update
 - Infectious Diseases - The friend in Need_
- Collaborating with other specialities to save life
- Update ER'25 - Recent Advances in Emergency Medicine
 - Breast Cancer Update

INTERNATIONAL FACULTY

 **Dr Neil Mehta (USA)**

 **Dr Apurva Patel (USA)**

 **Dr. Bhavin Dalal (USA)**

 **Dr Parth Parikh (USA)**

 **Dr Derek Connolly (UK)**

 **Dr Aditi Patel (USA)**

 **Dr Markus P. Schlaich (Aus.) Tentative**



See you at **JIC 2025** in
Ahmedabad, India

FORUM (AUDITORIUM), CLUB 07
Off S.P. Ring Road, Shela,
Ahmedabad

Day 2 - 11th January, 2025 - Saturday
• IACS ORATIONS, SYMPOSIUM & POSTER PRESENTATION

IACS ORATIONS, SYMPOSIUM & POSTER PRESENTATION

IACS (India Section) Orations:

- Suresh K. Gupta Oration
- Ramesh K. Goyal Oration
- Suresh C. Tyagi Oration
- Rakesh Kukreja Oration
- Harpal S. Buttar Oration
- Devendra K. Agrawal Oration

IACS Symposium:

- Paul and Riya Ganguly Session on Cardiovascular abnormalities in Diabetes
- C R Soman Symposium for Prevention of Cardiovascular Diseases
- N. Radhakrishnan Symposium on Vascular Diseases

Prize Name	Number of Awards	Award Prize
Prof. N. S Dhalla Award	Five	₹ 5000/- (1) & ₹ 3000/- (4)
Prof. N. K. Ganguly Award	Two	₹ 5000/- & ₹ 3000/-
Prof. C. C. Kartha Award	Five	₹ 5000/- (1) & ₹ 3000/- (4)

Office Bearers of IACS (India Section)	Designation
Prof. Ramesh Goyal, PhD	President
Prof. Chandrakant C Kartha, MD	Immediate Past President
Prof. Harikrishnan S, MD, DM	Vice President
Prof. Praveen Varma, MS, MCh	Vice President
Prof. Tejal Gandhi, PhD	Vice President
Prof. Trupti Swain, MD, PhD	Vice President
Dr. Mukesh Nandave, PhD	Secretary General
Dr. Surya Ramchandran, PhD	Immediate Past Secretary General
Dr. Abdul Jaleel, PhD	Joint Secretary

2025 IACS Meeting Announcements

IACS is pleased to announce that the 11th meeting of the European Section of the Academy will be held in Prague, Czech Republic in October, 2025

For further information please contact: Prof. Petr Ostadal, MD, PhD, FESC, FIACS
President, Czech Society of Cardiology
Head, Department of Cardiology
Second Faculty of Medicine, Charles University
Motol University Hospital
V Uvalu 84, 15000, Prague, Czech Republic
Phone: +420224434901
E-mail: ostadal.petr@gmail.com



**Charles
University**

IACS is pleased to announce that the 12th meeting of the North American Section of the Academy will be held in Las Vegas, USA in September, 2025

For further information please contact: Dr. Buddhadeb Dawn, MD
Professor and Chairman
Department of Internal Medicine
Kirk Kerkorian School of Medicine
University of Las Vegas
1707 W Charleston Blvd STE 270
Las Vegas, NV 89102, USA
Email: buddha.dawn@unlv.edu



**University of Nevada,
Las Vegas**

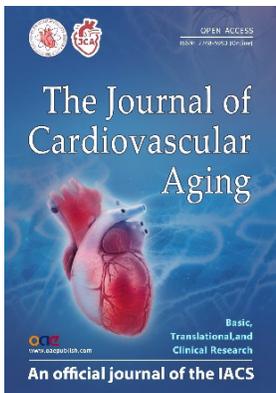
Partnering Journals of the IACS



Canadian Journal of Physiology and Pharmacology
Impact Factor: 2.1

Editor-in-Chief:
Dr. Lorrie A. Kirshenbaum

Editorial Office:
Canadian Science Publisher
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The Journal of Cardiovascular Aging
An Open Access Journal

Honorary Editor-in-Chief:
Dr. Dayi Hu

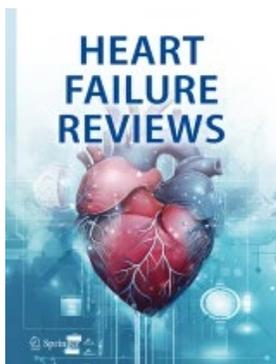
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American Journal of Cardiovascular Drugs
Impact Factor: 2.8; CiteScore: 6.7

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Dr. Amitabh Prakash

Editorial Office:
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Heart Failure Reviews
Impact Factor: 4.5

Editor-in-Chief:
Dr. Andrew P. Ambrosy

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2. *The Journal of Cardiovascular Aging*
3. *American Journal of Cardiovascular Drugs*
4. *Heart Failure Reviews*

Readers are encouraged to submit original research articles and reviews to these partnering journals.