Promoting Cardiovascular Education, Research and Prevention

CV Network

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9th International Conference of

Academy of Cardiovascular Sciences

(International Academy of Cardiovascular Sciences – India Section)

09 – 11 February, 2017

Venue

Vallabhbhai Patel Chest Institute (VPCI)
University of Delhi, Delhi (India)

Patrons

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Prof. C.C. Kartha (President, IACS Indian Section)
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Election of IACS Fellows for 2016

Prof. Dr. Bohuslav Ostadal, President of IACS, is pleased to announce the election of the following nine Fellows for the year 2016. (The maximum member of active Fellows of the Academy does not exceed 250 at any given time):

1. Dr. Balram Airan, New Delhi, India
2. Dr. Ghassan Bkaily, Sherbrooke, Canada
3. Dr. Joao Batista Vieira De Carvalho, Belo Horizonte, Brazil
4. Dr. Michael P. Czubryt, Winnipeg, Canada
5. Dr. Rajeev Gupta, Chandigarh, Jaipur, India
6. Dr. Ajit Sankardas Mullasari, Chennai, India
7. Dr. Jose Carlos Dorsa Vieira Pontes, Mato Grosso do Sul, Brazil
8. Dr. Vasan S. Ramachandran, Boston, USA
9. Dr. Arunabha Ray, Delhi, India

Dr. Balram Airan

Prof. Balram Airan; Dean (Academics) & Chief Cardiothoracic Centre at All India Institute of Medical Sciences, New Delhi is one of the most prominent academician, researcher and cardiac surgeon par excellence and an able administrator from India.

Born in December 1952 and an AIIMSonian, he qualified as a cardiothoracic surgeon in 1981 with training from AIIMS, New Delhi and Australia. He was promptly selected as a faculty member in the Department of Cardiothoracic & Vascular Surgery (CTVS) at AIIMS in December 1981. Since then, he has been a prolific cardiac surgeon specialising in complex cardiac operations. He has performed more than 20,000 open heart operations and has the world’s largest experience in a variety of complex cardiac conditions affecting the small children. He was a member of the pioneering team who performed the first heart transplant in India on 3rd August 1994 which was acknowledged by the Parliament and later on declared as Heart Transplant Day. He has done maximum number of heart transplants in public sector in the country. He was member of the team which performed LVAD implantation for the first time in Asia. Under his leadership, the organ retrieval and banking organisation (ORBO) is the nodal body for coordination of transplant program in Delhi & NCR.

Since 1981, Prof Airan has been the administrative foundation of Department of CTVS at AIIMS. In May 2008, He took over as the Head of the Department and Chief, Cardiothoracic Centre with administrative responsibilities of 10 sub-departments. Under his leadership, the centre has been established into a state of the art facility in terms of advanced quality patient care, human resource planning and development and research. More than 4000 cardiac surgical operations, maximum in a government set up, are performed annually besides training of 16 national and international surgeons at a time. His efficient administration ensures utilisation of bed strength, manpower resources and infrastructure maintenance with maximal possible efficiency. For several successive years, as per ‘India Today’ survey, CT Centre at AIIMS has been ranked as the best hospital for cardiac care in the country. He has turned over the Cardiothoracic sciences centre into a world-class facility with recent addition of hybrid operation theatre; robotic technology; proficient use of extracorporeal membrane technology in intensive care units and renovation with modernisation of patient care facilities.

Besides patient care, the CT centre also has the most advanced academic and research output in Southeast Asia. He has done pioneering work for the advancement of cardiac transplant and stem cell research programme in India. Stem cell facility at CT Centre conducts path-breaking research in many clinical specialities. It has been recognised as a ‘centre of excellence’ by the Department of Biotechnology. In 37 years of his academic career, he has trained more than 200 national and international cardiac surgeons who
occupy chair of excellence globally. He has been involved in more than 165 research projects, above 200 research publications in peer reviewed journals with significant impact factor (Highest 53.2 NEJM), more than 150 abstracts and has made more than 250 expert-speaker appearances in various national and international conferences besides chapters in books and monograms.

Prof. Airan is sensitive to the needs of the people of the country. Technological advances have been equally matched by popularising a “humane” approach to expensive cardiac care. With his diligence and intensive efforts, cardiac care at AIIMS is available to the poorest of the poor. Under his leadership, more than 1000 heart patients have been operated entirely free of cost. Cost of surgery has also been reduced for other patients over the past few years. Taking into cognizance the increasing global burden of Cardiovascular diseases especially so in India and realising the need for large scale expansion of existing facilities and putting AIIMS at the forefront of international cardiovascular research, Prof. Airan has planned for creation of an 800 bedded National Cardiovascular Centre and proposal has been accepted by the Government of India in principle.

Prof. Airan is a member of several national and international medical and scientific professionals’ bodies and has been awarded several prestigious honours, fellowships, and orations by various government and professional organisations. Notable amongst these include Fellow NAMS, Member ASCTVS, Founder Member WSPCHS, Fellow IACVS of India, National Best Medical Services award; prestigious Dr. Sadasivan oration, Prof. KG Despande oration and Prof. Thapa Oration. He has also been the President of Indian Association of Cardiothoracic and Vascular Surgeons. He has been the examiner/Expert for Mch/DNB courses in various institutions/Universities.

He has been involved in numerous Public Health Awareness and education programmes related to the superspeciality on All India Radio, TV and Print Media.

He has relentlessly put in selfless efforts in his entire career for the advancement of cardiovascular sciences not only in India but also in the Saarc countries. Creation of new advanced facilities, complete training of young surgeons and formulating latest national guidelines for treatment of children with heart diseases & adults with heart failure and the guidelines for the Transplantation of Human Organs Act have been his major contributions which have immensely benefitted the nation by improving the cardiac health care situation in India. He has literally been a man for the nation’s heart!

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Dr. Ghassan Bkaily

Dr. Ghassan Bkaily received his Ph.D. in Biophysics in 1982 from the University of Sherbrooke. He then undertook his post-doctoral training in Physiology at the University of Virginia and the University of Cincinnati. In 1984, Dr. Bkaily joined the Department of Physiology and Biophysics in the Faculty of Medicine at the University of Sherbrooke as a Professor. In 1996, he was appointed Chairman of the Department of Anatomy and Cell Biology at the same institution.

Dr. Bkaily’s research work in molecular cardiology currently focuses on healthy and non-healthy aging in the crosstalk between plasma and nuclear membrane receptors and ionic transporters in cells of the human cardiovascular system. He has held several positions, more specifically as Director of the CIHR Group on Cardiovascular Interactions and Director of the FRQNT Team on Nuclear Membrane GPCR Receptors. He also serves as Associate Editor of several scientific journals and since January 1, 2016 he is Editor-in-Chief of the Canadian Journal of Physiology and Pharmacology.

Throughout his career, Dr. Bkaily has published numerous papers and book chapters and has edited several books. His work received several awards and honors, such as the Most Outstanding Pharmacology Research Paper of the Pharmacological Society of Canada (2004), the Merck-Frosst-FRSQ Research Chair, and very recently the Ramesh K. Goyal oration award in cardiovascular sciences (International Academy of Cardiovascular Sciences, India section) and the Ken Bowman Research Achievement Award for excellence in cardiovascular research from the Institute of Cardiovascular Sciences (University of Manitoba). He was also appointed as the President of the 4th Annual meeting of the North American section of the International Academy of
Cardiovascular Sciences to be held in Sherbrooke, Canada in September 2016.

Dr. Bkaily’s research is supported by the CIHR, NSERC, HSFQ and FRQNT. Some of his discoveries include the slow sodium channel and its different subtypes, potassium channel openers, the cGMP activated potassium channel, and the R-type calcium channel. He holds several patents, with his colleagues, for a new class of calcium channel blocker. More recently, he reported the presence and role of nuclear T-tubules, GPCRs, and ionic transporters in nuclear membranes and their implication in the regulation of nuclear ionic homeostasis and cardiovascular pathology. From 2001 to 2016, he was also the President of a R&D biotechnological company, GBBC Medica Inc., specializing in the development of a new class of calcium blockers for treatment of cardiovascular diseases. His recent work in heart failure has led to the important discovery of the role of sodium overload in heart and vascular failures in Becker and Duchenne Muscular Dystrophy and the implication of the sodium-hydrogen exchanger in the pathogenesis of these diseases. This recently led to the approval of a sodium-hydrogen exchanger blocker for the treatment of heart failure in Duchenne Muscular Dystrophy patients.

Dr. João Batista Vieira de Carvalho

Graduated in Medicine from the Federal University of Minas Gerais (1987). Master (1994) and PhD (1999) in Surgery at the Post-Graduation in Surgery, Faculty of Medicine, Federal University of Minas Gerais. Professor at Federal University of Minas Gerais, Belo Horizonte, Brazil (UFMG) admitted in 1989 through public concourse of tests and titles in the first place the area of Human Anatomy, Department of Morphology, Institute of Biological Sciences. He is currently Associate Professor IV, Department of Surgery, Faculty of Medicine, Federal University of Minas Gerais. He is Professor of Cardiovascular Surgery, Faculty of Medical Sciences, University José do Rosário Vellano, UNIFENAS, Alfenas, MG. He is Professor of Honor Contributor University of Oviedo, Principality of Asturias, Spain. He is a specialist in Cardiovascular Surgery, Angiology and Vascular Peripheral surgery, General Surgery and Medicine Legal. Present experience in Medicine with research activities, extension, education postgraduate, graduate and Care Medicine, Cardiovascular Surgery specialties Angiology and Vascular Surgery, Experimental Surgery, area heart and kidney transplants, immunosuppression, ischemia and reperfusion of the heart and solid organs. He is leader of the Research Group in transplantation and reperfusion of organs (CNPq). He is Titular Member in Cardiac Surgery Brazilian College of Surgeons, Member of the Brazilian Society of Angiology and Vascular Surgery and member of the Brazilian Association of Organ Transplantation (ABTO). He is a member of the Cardiology and Cardiovascular Surgery Service of Clinical Hospital of Cardiovascular Surgery at the University Hospital Alzira Vellano, UNIFENAS, Alfenas, MG and Hospitals Luxembourg and Belo Horizonte MG.

He is Chief of Cardiovascular Surgery Department, Angiology and Vascular Surgery University Hospital Alzira Vellano, UNIFENAS, Alfenas, in MG. He was admitted in Federal University of Minas Gerais in 1989 as Assistant Professor of Human Anatomy at the Department of Morphology, Institute of Biological Sciences and later as Assistant Professor after vertical progression and completion of the Postgraduate Master's Course in the Department of Surgery, the Faculty of Medicine UFMG. In 1996 began its activities in the Department of Surgery, School of Medicine, Minas Gerais, Belo Horizonte, MG, Brazil and Assistant Professor after concourse of evidence and securities (1st place). In 1999 after obtaining Surgery Doctor title in the Post-Graduate Course of Department of Surgery, School of Medicine, Federal University of Minas Gerais, Belo Horizonte, Brazil assumed the position of Adjunct Professor with vertical progression to Associate Professor in 2010 after concourse of tests and titles. He is a member of the Brazilian Society of Angiology and Vascular Surgery and Member Holder in Heart Surgery of the Brazilian College of Surgeons Surgery.


Features 22 journal articles, 13 abstracts published in journals, 17 papers published in conference proceedings, 98 abstracts published in conference proceedings, edition of three medical books, wrote 19 chapters in medical books and 245 paper presentations, 03 Masters guidelines and 47 broad sense specialization guidelines on residency, scientific research among others in the field of cardiovascular surgery. Among the published works stand out 07 published in Cardiovascular Sciences Forum, 5 in the Brazilian Journal of Transplantation, 3 in the Journal of the Brazilian College of Surgeons, 2 in Transplantation Proceedings, 1 in Nurses Magazine of the State of Rio de Janeiro, 1 in Chirurgia, 1 Angiology & Vascular Surgery (Brazilian Vascular Journal), 1 in Brazilian RB-Radiology.

As Leader of the Research Group in transplantation and reperfusion bodies of the University José do Rosário Vellano, UNIFENAS, Alfenas, MG operates in the research lines in atherosclerosis changes in human arteries, arteries and veins transplantation, trachea transplantation, vascular substitutes, experimental heterotopic heart transplantation immunology and solid organs transplantation. Among other developed research lines are cited research proinflammatory cytokines in renal transplantation, reperfusion effects of ischemia on the ultrastructural myocardial in heart transplantation; Effects of immunosuppression on heart transplants, gut and skin, heart valve replacements, posttransplant nutritional assessment; transplantation and reperfusion organ and immunosuppression.

Among the awards received in scholarly activity and research are cited: Best Original Clinical Research of Angiology - Work: “Anatomic variations of the inferior vena cava, 25th Scientific Forum, 2015. Honorable Mention Award "Ruy Ferreira Santos" - Experimental results in immunosuppression with Amazonian plant extracts in experimental heterotopic heart transplant in rabbits” XXIX Research Forum in Surgery - Brazilian College of Surgeons, 2014 1st. Place - Best Free Theme - "Initial experimental results in immunosuppression with Amazonian plant extracts in experimental heterotopic heart transplant rabbits”, XXII Scientific Forum - International Congress of Cardiovascular Sciences. in 2012: 1st Place - Category Thesis in Surgery, Medical Excellence Competition - Mineira Academy of Medicine, 2012; Best experimental Work Cardiovascular Scientific Forum, 2010; Best Free Theme - Oral Presentation - Working “Effects of immunosuppression with cyclosporine and thalidomide in intestinal transplantation rabbits”, XX Scientific Forum - International Congress of Cardiovascular Sciences, 2010; Patron of the XVII Class Course of Medicine, University of Jose Rosario Velano - UNIFENAS, University José Rosario Velano - UNIFENAS, 2010; Class Name XVI Trainees in Medicine 2009 Faculty Medical Sciences, University José do Rosário Vellano, UNIFENAS, Alfenas, MG; Best Free Theme Award oral presentation “Study by microscopic analysis of the muscle fibers of the aortic arch and the distal portion of the saphenous vein to determine strength and efficiency in the manufacture of surgical anastomosis”, XIX International Congress of Cardiovascular Sciences Scientific Forum, Rio de Janeiro, Brazil, 2009; Honored Professor of Surgery of the Group XV of Trainees in Medicine 2009 Faculty of Medical Sciences of the University José do Rosário Vellano, UNIFENAS, Alfenas, MG, 2008; Honorary Senior professor at the University of Oviedo, University of Oviedo- Principality of Asturias-Spain-24/04/2003. Patron of X Class of 98/1 Medical Faculty of Medical Sciences of Alfenas, December 2003, UNIFENAS. Tutor of the Standing Committee on Research Exchange International Federation of Medical Students Associations, 25 October 2003, Standing
Committee on Research Exchange International Federation of Medical Students Associations; Sobradpeq Award 2001 Brazilian of Society for Development and Research in Surgery; honored teacher of the graduating class in Medicine, Medical School of the Federal University of Minas Geraes, Brazil, Class of Graduates of Medicine of 1997; Oscar Award Alves, Brazilian College of Surgeons, best article published in the Brazilian College of Surgeons Magazine in 1996 and Professor Honoured class of Medical Students from UFMG 1996 graduating class of Medicine UFMG 1996.

He is currently Advisor Professor of Course of Post Graduate in Cardiovascular Surgery of Cardiovascular Institute of St. Francis of Assis and the Post-graduate Course in Trauma at the University Green River Valley, UNINCOR. He is editor of Cardiovascular Science Forum. Participate in ten judging stalls Masters, three doctoral and six of expertise in monographies in Post –Graduate latu sensu Specialization in Surgery and Cardiovascular Surgery.

He offers extension activities in patient care of Vascular Surgery and Cardiovascular Hospital das Clinicas, University Hospital Alzira Vellano, UNIFENAS, Luxembourg Hospital and Belo Horizonte Hospital and Federal University of Minas Gerais, Belo Horizonte, Brazil. Supervisor and Founder of the League of Angiology and Vascular Surgery UNIFENAS, Alfenas, MG.

He was coordinator of medical residency and specialization latu sensu in the Federal University of Minas Geraes, Brazil, Clinical Hospital Cardiovascular Surgery from 1996 to 2007. He is currently coordinator of Cardiovascular Surgery Discipline of the Graduate Course in Medicine, Department of Surgery, Medical School of the Federal University of Minas Geraes, Brazil.

Dr. Michael P. Czubryt

I am a tenured Professor of Physiology and Pathophysiology at the University of Manitoba, and a Principal Investigator of the Institute of Cardiovascular Sciences at the St. Boniface Hospital Albrechtsen Research Centre. My research program focuses on how genes are activated or silenced, how these regulatory mechanisms contribute to heart disease, and how this knowledge can be exploited to create new therapies for cardiac patients. The work from my laboratory has provided new insight into the processes by which altered gene regulation leads to heart dysfunction, and more importantly has shown the way forwards to innovative and novel treatments not previously envisioned.

My postdoctoral studies focused on how energy use and hypertrophy are linked in cardiac muscle. These processes were originally believed to be governed by discrete signaling mechanisms. Using a novel mouse model of acute inducible heart failure, we discovered that a single regulatory protein (HDAC5) controlled genes responsible for both hypertrophy and energy production, allowing linked scaling of these two processes. Increased HDAC5 resulted in failure of heart cells to generate energy, loss of synchronization with cell growth, and rapid heart failure. This seminal paper was the first demonstration of this important biological relationship. This work has >230 citations to date, and remains highly cited over a decade later, underscoring the long-lasting relevance of the work to our understanding of the transcriptional control of cardiac energetics. This work underpinned my being awarded the 2004 McDonald Scholarship from the Heart and Stroke Foundation of Canada, given to the highest ranked New Investigator in Canada each year, as well as the Young Investigator Award of the Canadian Cardiovascular Society.

Cardiac fibrosis is a progressive stiffening of the heart arising from excessive extracellular matrix production. The underlying mechanism is poorly understood, thus there are currently no medications for treating this condition despite its contribution as an independent risk factor to poor patient outcomes including heart failure. My current work has uncovered a surprising new regulator of fibrosis in the heart: a protein called scleraxis, which governs how tendons form before birth. Like the heart, tendons are collagen-rich, and I was the first to hypothesize a common role for scleraxis in both tissues – the control of matrix genes and thus matrix production. Our recent publications in the field have confirmed this hypothesis, and revealed scleraxis as a new target for development of anti-fibrotic drugs. We have found that scleraxis not only governs matrix production in the heart, but in fact is both sufficient and necessary for the conversion of cardiac fibroblasts to pathological myofibroblasts. Our laboratory was the first to
describe this critical role for scleraxis, and most recently published the first evidence of post-translational modifications that may be targeted for therapeutic effect. An editorial in the Journal of Molecular and Cellular Cardiology described our initial discovery as “the Achilles’ heel” of cardiac fibrosis (2009), and a more recent editorial (2016) in the same journal has further highlighted our work as bearing tremendous promise for the treatment of fibrosis. We are actively working to translate our discoveries to the clinic, having launched seven provisional patents and with two full patents granted for targeting scleraxis in cardiac fibrosis, and for high throughput screening of potential blockers of scleraxis function. We are currently working to identify lead pharmaceutical compounds representing first-in-class for cardiac fibrosis treatment. For this work, I was recently honored with the Ronald Duhamel Innovation Fund Award.

Our work has prompted nearly 80 invitations to speak at universities, symposia (including the prestigious Keystone Symposium on Collagen, Biovaria 2013 in Munich and the 2014 Gordon Conference on Collagen) and national and international meetings (including the American Heart Association and Experimental Biology, where I have also been invited to develop speaker sessions and symposia). These speaking engagements have led directly to the establishment of numerous international collaborations to investigate the role of scleraxis in fibrotic diseases of other tissues including the lung, gut and skin.

I am proud that my trainees have also been recognized for their work in my laboratory. Dr. Rushita Bagchi recently obtained her PhD in my lab, and has been awarded over 20 times for her work on scleraxis, including selection as the first representative from Manitoba to attend the Lindau Nobel Laureate conference in Germany, as well as two gold medals from the Canadian Institutes of Health Research. Most recently she received the Drewry Award from the University of Manitoba – the highest honor bestowed upon a student in graduate medicine. She has also been invited to present her research at numerous international meetings including Experimental Biology. Several high school students in my laboratory have taken first prize in local science fairs and have gone on to place top-three in national science competitions.

To date I have published 55 papers, have nearly 1400 citations to my work and an H-index of 18. I have been continuously funded by national granting agencies since opening my laboratory. I was recently elected as Fellow of the American Physiological Society Cardiovascular Section and of the American Heart Association. I have served on the editorial board of four scientific journals, and have reviewed manuscripts for nearly 50 in total. I have served on numerous national and international peer review committees, including chairing the CIHR India-Canada Collaborative Teams in Childhood Obesity Research Committee, the Nova Scotia Health Research Foundation Medical Committee, and both the MSc and PhD Studentship Committees of Research Manitoba. I also served as Scientific Officer of the CIHR University-Industry Committee for nine years, and am the incoming Deputy Chair of the Heart & Stroke Foundation of Canada ERLI Committee. I served three years on the American Physiological Society Education and Joint Program Committees, and currently serve as the Cardiovascular Section Committee on Committees representative and member of the Steering Committee. I have served on the organizing committees of ten national and international conferences, and was Organizing Secretary of the 2nd Cardiovascular Forum for Promoting Centers of Excellence and Young Investigators hosted by the International Academy of Cardiovascular Sciences. I am very proud to have received the Distinguished Service Award from the IACS.

I sincerely thank the Fellows of the IACS for considering me for inclusion in their ranks as a new Fellow of the Academy.

Dr Rajeev Gupta

Dr Rajeev Gupta is currently Chairman, Preventive Cardiology, Internal Medicine and Research at Eternal Heart Care Centre and Research Institute, Mount Sinai New York Affiliate, Jaipur, India. He is Chair of Research and Development Unit at Rajasthan University of Health Sciences, Government of Rajasthan, Jaipur and Co-Chair of Hypertension Group at Indian Council of Medical Research, Government of India, New Delhi. His others positions are Distinguished Scientist, Birla...
Institute of Scientific Research, Jaipur and Chair, Centre for Development Communications NGO, Jaipur. He teaches medicine for National Board of Examinations, Government of India and was faculty in medicine (Professor) at Mahatma Gandhi Medical College affiliated to Rajasthan University of Health Sciences, Jaipur. He is pioneer in cardiovascular epidemiology in India. Jaipur Heart Watch study, which he began in 1990 and still leads, is the longest ongoing cardiovascular epidemiological study in the country. He is a member of steering committee of such landmark international epidemiological studies such as PURE, INTERSTROKE, CREATE, etc. He has participated in numerous path-breaking national and international research studies and clinical trials. He has more than 750 publications of which 500+ are original articles and reviews in peer reviewed journals including Lancet, New England Journal of Medicine, BMJ and Circulation. His research funders include National Institutes of Health, USA (NHLBI and NIDDK), Indian Departments of Health Research-Indian Council of Medical Research, Department of Science and Technology and other philanthropies.

Dr. Ajit Sankardas Mullasari

I, Dr. Mullasari Ajit Sankardas, am currently holding the position of Director of Cardiology at the Institute of Cardio-Vascular Diseases, Madras Medical Mission, Chennai, India (www.mmm.org.in). After graduating in 1983 from the Grant Medical College, University of Mumbai, I did my Masters in Medicine and Post Doctoral Degree in Cardiology from the same University in 1991. I completed my National Board examinations in Cardiology in the same year. Subsequently I completed a Fellowship in Interventional Cardiology from The Prince Charles Hospital, Brisbane, Australia. I was awarded a Fellowship of the Royal College of Physicians, Glasgow in 2010. During my undergraduate career, I was a recipient of the Glaxo Medical Education Award for the highest marks in Medicine at 3rd MBBS examination. In 1992, I was nominated for the Commonwealth Scholarship by the Government of India. I was also selected as the Rotary Foundation International Ambassadorial Scholar for 1993 – 1994. During the Euro Paris Revascularisation Interventional Course in 2001, my presentation “Transcatheter closure of post Myocardial Infarction Ventricular Septal Defect with Amplatzer Septal Occluder” was judged the best interventional case. I was awarded the 9th Prof. Rathinavelu Subramaniam Memorial Oration Award instituted by the Association of Physicians of India in August 2009. I was awarded a Lifetime Achievement Award 2011 by the Dr. MGR Medical University for my contribution in Cardiology by the Governor of Tamil Nadu, His Excellency Mr. Rosiah.

My interests include Interventional Cardiology, Vascular Imaging, Clinical Research and Research in Basic Cardiac Sciences. I have participated as Faculty in several interventional meetings including most of the major interventional courses all over the world. The Advanced Cardiovascular Therapeutics, which is one of the major interventional courses held in India, has been held consecutively for the last 10 years at the Institute of Cardio-Vascular Diseases, Madras Medical Mission with me as the Course Director. I have published 150 peer-reviewed papers and around 200 abstracts in peer reviewed journals. I have been the Primary Investigator in the last 5 years in 21 major National / International trials. I have served as a Member of the Task Force for Stem Cell Research, Dept. of Biotechnology, Government of India. I have been the Chief Editor of the Journal of the Institute of Cardio-Vascular Diseases and serve on the Editorial Board for Interventional Cardiology in the Indian Heart Journal. I have been an examiner for the DNB Cardiology (National Board of Cardiology), FNB Cardiology (National Board of Interventional Cardiology) and MRCP (PACES).

On the social front, I am a founder trustee for SANKALP, a school for autistic and learning disability children in Chennai catering to 250 children with these disabilities. This school is one of the largest schools for autism spectrum disorder in the country and holds a yearly congress for special needs called “LEARN”. I have been awarded the Melvin Jones Millennium Award 2011 for community service by the Lions Club International issued by the Lions Club District Governor. I have actively participated in multiple rural health camps.
in Kerala and Tamil Nadu prominent of which has been the ‘Hridayapoovam’ and ‘Hridayapoovam Sakhyam’ with the Malayala Manorama group.

10 IMPORTANT PAPERS PUBLISHED AS AUTHOR


Dr. Vasan S. Ramachandran

Narrative of Accomplishments: I am a cardiologist with subspecialty training in echocardiography and cardiovascular epidemiology. I have a long-standing commitment to clinical epidemiological research. I have been working at the Framingham Study as a senior investigator for the last 18 years. Presently, I am the Editor of Circulation Cardiovascular Genetics. I am Chief in the Section of Preventive Medicine and Epidemiology in the Department of Medicine and Professor of Medicine at Boston University School of Medicine. I was recently awarded the Jay D. Coffmann Chair at Boston University. At the Framingham Heart Study, I am the Principal Investigator of the entire study (its core contact).

My research has focused on A) The epidemiology and novel risk markers of heart failure (HF), including evaluation of the role of left ventricular (LV) remodeling; B) Population-based echocardiography, including identification of biological, environmental, and genetic determinants (correlates) of cardiac structure and function; and C) Detailed assessment of novel biomarkers of the process of LV remodeling. Over the last 23 years, I have made major contributions to the following four areas:

1. The genetic and non-genetic epidemiology of heart failure. I have identified key risk factors for the disease, described two major subsets, HF with preserved versus reduced ejection fraction, characterized natural histories of asymptomatic LV systolic and diastolic dysfunction, and evaluated the role of LV remodeling as its key underlying substrate.

2. Population-based vascular testing, echocardiography, and exercise testing. I have made major contributions to the identification of biological, environmental, and genetic determinants (correlates) of cardiac structure and function; formulated normative standards; provided detailed assessment of biomarkers of the process of LV remodeling, including but not limited to role of natriuretic peptides, insulin resistance, cardiac extracellular matrix markers, oxidative stress, inflammation, growth factors; elucidated the genetics of LV remodeling, LA and aortic structure and gene-environment interactions; described the epidemiology of brachial artery endothelial function, its correlates and tonometric assessment of large artery function.

3. The genetic and non-genetic epidemiology of high blood pressure. I have examined the lifetime risk of developing hypertension and rates of progression of different BP stages, and quantified the risks associated with various degrees of BP elevation, including high normal BP. In addition, I have elucidated the contribution of large artery stiffness and function to the pathogenesis of systolic hypertension in the elderly. My work has also included investigating the genetics of high blood pressure and large artery function.

4. Cardiovascular disease risk prediction and estimation in the short, medium- and long-term, with novel biomarkers including genomic biomarkers. I have contributed to the development of cardiovascular disease (CVD) risk prediction models, models predicting risk of developing hypertension, and described novel biomarkers associated with CVD risk and developed methods to quantify the incremental utility of newer biomarkers.

My complete list of published work (N=682) is shown on the following webpage: http://www.ncbi.nlm.nih.gov/pubmed/?term=Vasan+RS

I have continuously held NIH grants for over 20 years. During this period I have mentored about 70 individuals of varied background and research interests. These mentees include medical students, interns, physician scientists, fellows post-internal medicine residency, cardiology fellows, junior faculty, and senior physicians.

I have also received several recognitions for scholarly activity including the Searle Award (1989), the highest award of the Cardiological
Society of India; Outstanding mentoring Award (2010), Department of Medicine, Boston University School of Medicine; Outstanding mentoring Award (2012), Council on Epidemiology & Prevention, American Heart Association; and the Population Science Award (2014), highest award in this field from the American Heart Association.

**Dr. Arunabha Ray**

Prof. Arunabha Ray is currently Director-Professor and Head, Department of Pharmacology at Vallabhbhai Patel Chest Institute, Faculty of Medicine, University of Delhi, India. He is a medical graduate (MBBS) from the University of Calcutta with postgraduate (MD) and doctoral (PhD) degrees in Pharmacology from the Faculty of Medicine, University of Delhi. He has more than 37 years of teaching and research experience in basic and clinical pharmacology and allied biomedical sciences. In the initial stages of his professional career, he received his basic training as a physician in clinical medicine and cardiology. Subsequently he joined pharmacology and had specialized training in basic and clinical pharmacology and made significant contributions in the area of medical education and research in Pharmacology and allied areas. He followed up his doctoral degrees with postdoctoral training in USA and Canada.

**Research:**

Prof. Ray is internationally recognized as one of the leading exponents of stress research and stress pharmacology. Using a novel approach, he has integrated concepts of neuropharmacology and immunopharmacology to explain biological responses to emotional and environmental stressors and their impact on health and disease. The major focus of his research in the past two decades has been nitric oxide (NO), a gasotransmitter, well known for its cardiovascular effects, and its role as an endogenous anti-stress molecule by using acute and chronic stress models and proposed NO mediated signaling pathways for stress induced anxiogenesis and immunomodulation, as well as for ’stress adaptation’. In the process, he showed that NO could be acting via alternative signaling pathways (other than the classical GC – cGMP) while eliciting its anti–stress effects and could be responsible for the stress attenuating effects of some conventional as well as newer pharmacological agents. He further showed that gender differences in stress susceptibility and adaptation were under the regulatory influence of NO and suggested possible interactions of NO with reactive oxygen species during the differential nature of stress-induced physiological and behavioral responses. He extended his research hypothesis to different areas of stress related pathophysiology involving respiratory, cardiovascular and endocrine systems and their regulation by NO. In a recent study, he showed the role of NO and NO signaling mechanisms in drug-induced cardiotoxicity. On the basis of hemodynamic, electrocardiographic and biochemical data he showed that oxidative stress and its interactions with NO could result in such drug induced cardiac arrhythmias and myocardial ischemia toxicity. These findings were translated to patients and confirmed by clinical studies in obstructive airway disease being treated with theophylline.

Prof. Ray is a prolific researcher and his research has been recognized at the highest level which has led to several awards, honors and fellowships. Prof. Ray has been invited to several research/scientific platforms and academic institutions/universities to deliver lectures on his area of his research expertise. Most notably, he was awarded the Achari Prize (1983), the Uvnas Prize (1984) and the Young Asian Pharmacologist prize (1985) for excellence in research as a young pharmacologist. Later, he was awarded with a WHO Fellowship (1991) to study and train in immunopharmacology and allied areas in USA and Canada. He received the following prestigious oration awards of the Indian Pharmacological Society: Prof. B. Mukherjee Oration (1999), Prof. B.N. Ghosh Oration (2000), Prof. S.B. Pandey Oration (2010) and Prof. N.S. Dhallta Oration (2014). He has been invited as chairperson and speaker at several international meetings - most notably at consecutive IUPHAR sponsored conferences (2006, 2010, 2012 2014 and 2016) and as visiting scientist and guest speaker at leading international institutions/universities in USA, Canada, Hungary, Croatia, France, China, and South Africa. As a result, he is now internationally recognized as one of the leading exponents in the field of stress and NO research. He has had
collaborations with research laboratories in the academia and pharmaceutical industry both at the national and international levels - a further evidence of his scientific acumen. He has also organized several national and international scientific meetings attracting global experts and delivered guest lectures in reputed international universities/conferences. He is expert member at several national scientific committees at organizations like ICMR, DST, DBT, DRDO, CSIR, UGC, etc. and is on academic/research committees of several leading universities/institutes - thus playing a key role in guiding scientific research in pharmacology, toxicology and allied areas. He has more than 150 publications (research papers, reviews, monographs, book chapters, reports) and has authored 04 reference books and 01 Textbook in pharmacology and related areas. In view of his contributions to medical education and research he was elected as Fellow of National Academy of Medical Sciences (FAMS, 2005) and Fellow of the Indian Pharmacological Society (FIPS, 2007).

**Teaching and other professional contributions:**

Prof. Arunabha Ray is a highly reputed teacher and has made significant contributions for the advancement of medical education in the specialty of pharmacology and allied areas. In addition to being an excellent teacher with more than 37 years of teaching experience in the subject, he has guided/supervised research of several M.Sc, M.Pharm, MD and PhD students of the University of Delhi and postdoctoral fellows, who have later proceeded to make a mark for themselves as successful researchers/professionals in their chosen field. He is currently core group member of an international group (ORPHEUS) which is working for uniform Global Standards of Ph.D Education in Biomedicine and has disseminated his views as expert member in conferences/workshops in Spain, France and South Africa. He has been actively associated with several professional bodies/societies in pharmacology as well as allied fields, viz. Indian Pharmacological Society, International Academy of Cardiovascular Sciences, Immunological Society of India, Society for Toxicology, Society of Pharmacovigilance, International Neuroendocrine Federation, International Society for Ethnopharmacology, National Academy of Medical Sciences etc. He held senior executive positions in the Indian Pharmacological Society. Prof. Ray is also the Founder-Secretary of the Society for Nitric Oxide and Allied Radicals (SNOAR) which was established in 2011 for advancement of research in Nitric Oxide (NO) and allied radicals, and organized several scientific meetings on the subject matter.
Report: II Peru - Brazil Postdoctoral Joint Meeting
Cardiovascular Sciences, Lima, Peru

Sponsored by: Universidad Peruana Cayetano Heredia, Prof. Dr. Enrique Castañeda Saldaña
South America Section International Academy of Cardiovascular Sciences ServCor - São Francisco de Assis Cardiovascular Institute, Truth is
Jesus St John 14.6
Prof. Dr. Otoni M. Gomes, Prof. Dr. Elias Kallás, Prof. Dr. Melchior Luiz Lima
Co-sponsored by: Sociedad Peruana de Cirugía Cardiofálica
Toráyica y Vascular
Academic sponsor: Colegio Médico del Perú; Instituto de Fisiopatología Cardiovascular de la universidad de
Buenos Aires - Argentina

On 20 and 21 May 2016, it was held in Lima Peru-Brazil II Joint Meeting on Cardiovascular Sciences at the premises of the House Honorio Delgado of Cayetano Heredia Peruvian University, hosted the event.

It was attended by Professor Naranjan Dhalla, Honorary President of the International Academy on Cardiovascular Sciences, based in Canada. The organizing committee consists of Prof. Dr. Enrique Castañeda, from Peru and Prof. Dr. Otoni Gomes, Elias Kallas and Melchior Lima from Brazil.

Speakers were composed by experienced teachers of cardiology and cardiovascular surgery, and also medical students and young researchers, addressing issues of anatomy, physiology, pathology, medical and surgical clinic of cardiac and vascular diseases. Also topics on new technologies and advances in the treatment of these diseases were treated.

Another block of interest was the analysis of law and health

Among the speakers we had 26 from Brazil, two from Argentina, one from Canada and 19 from Peru.

200 attendees including medical professionals, nurses and medical students and related disciplines, highlighting a large proportion of young people were recorded.

It is worthwhile noting that in the commission of support as coordinators delegates sessions were done by students of Medicine from San Fernando Scientific Society of San Marcos University, led by the coordinator of the event Arq. Lorena Castaneda.

The discussion sessions after exposure blocks allowed the exchange of views and gave greater dynamism to the event.

The gala dinner allowed a relaxed meeting for participants enjoying the good Peruvian table and an art show. Also coffee break moments facilitated the meeting attendees so they interacting with exhibitors.

Following the event everybody was very pleased by the welcome, the high academic level and brotherhood among visitors and professors.
Thank you very much everyone for their contribution to enhance this event.

Dr. Enrique Castañeda
Professor of Surgery
Cayetano Heredia Peruvian University PERU
Report on the 1st Annual International Congress of the Cardiovascular and Thoracic Academy, Cairo, Egypt

By: Professor Ahmed Abdul Aziz, General Manager of the CTA, Cairo

International Academy of Cardiovascular Science Sponsored the 1st Annual Meeting of Cardio-Thoracic Academy in Cairo, Egypt during 28th-30th April, 2016

On the 28th of April, Prof. Dr. Ismail Sallam – Chairman of the conference and former Minister of Health and Population-inaugurated the 1st Annual International Congress of the Cardiovascular and Thoracic Academy under the patronage of Minister of Health and Population Prof. Dr. Ahmed Emad El-Din Rady, Minister of Higher Education Prof. Ahmed El-Shihy, Minister of International Cooperation Prof. Sahar Nasr, Acting President of Ain Shams University Prof. Abdel Wahab Ezzat and Dean of Ain Shams Faculty of Medicine Prof. Mahmoud El-Meteini.

The conference lasted for three days, starting on the 28th and ending on the 30th of April, in Cairo Marriott Hotel. On the first day 278 attendees participated in different workshops and sessions, in addition to 118 more who joined on the second day. Meanwhile, 142 Chairpersons and Speakers shared their knowledge throughout 15 scientific sessions and 7 practical workshops.

In the opening ceremony, Prof. Dr. Ismail Sallam honored the name of Hoda Talaat Harb, Dr. Naranjan Dhalla, Dr. Hamdy El-Sayed, Dr. Adel El-Shamry and Banque Misr.

The exquisite Egyptian cardiac surgeons and cardiologists were joined by 10 guest speakers.
from six countries, Alaa Shalaby from USA, Eman Ashgar from KSA, Harpall Buttar and Naranjan Dhalla from Canada, Hussein El-Shafei, Mario Petrou, Mohamed Zeinah and Paul Whitlock from UK, also Jean Bachet from France and Olivier Jegaden from UAE.

Seven practical skillful workshops were held, Coronary anastomosis, Bio Statistics, Balloon Mitral, Radial PCI, Intra-aortic balloon pump and intercostal tube thoracotomy.

The conference contained multiple different scientific sessions in cardio surgery, cardiology and pediatric cardiology including mitral sessions, aortic valve sessions, coronary sessions and others.

18 reputable medical and pharmaceutical companies sponsored the conference.

On Friday the conference board awarded the prominent members of Cardiothoracic Academy during the gala dinner.

The International Academy of Cardiovascular Sciences bestowed Lifetime Achievement Award upon Dr. Ismail Sallam at the International Conference of the Cardiovascular and Thoracic Academy in Cairo, Egypt during April 28-30, 2016. Dr. Sallam has been Professor of Cardiovascular Surgery at the Ain Shams University Hospital in Cairo. He is dedicated to promoting cardiovascular medicine, science and surgery in the Middle Eastern countries. He is a Former Minister of Health and Population in Egypt and he was awarded Fellowship in the Academy Science more than a decade ago. He is the founder of the Cardiovascular and Thoracic Academy in Cairo.
Burden of Coronary Heart Diseases in India

Dr Sanjay Ganapathi MD, DM
Associate Professor in Cardiology
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Trivandrum 695011, INDIA
dr.sanjayganesh@gmail.com

Demographic and Epidemiological trends in India

India saw dramatic transitions in its population structure as well as in the profile of diseases after independence in 1947. While the death rate started falling steadily from the third decade of the twentieth century, the birth rate started declining remarkably only after 1970. The life expectancy at birth has doubled since independence. Due to the improvements in health care and economy during these years, the epidemiological trends showed a remarkable transition from the era of infectious diseases and malnutrition to that of non-communicable diseases (NCD) by the turn of twenty-first century. India is considered to have reached the ‘age of degenerative and man-made diseases’. Currently, NCDs cause more deaths in Indians and two-third of the mortality due to NCD are contributed to by cardiovascular diseases (CVD) and related conditions.

Burden of CHD in India and its unique features

The prevalence of coronary heart disease (CHD) has progressively increased over the last 50 years in both urban and rural India, notwithstanding the limited nature of the estimates. The prevalence of CHD has increased by nearly 7 times over this period from 2% in 1960 in urban settings and by 4-5 folds in rural India (to about 7% in 2013). Currently, CVD is the leading cause of mortality in India in both urban and rural settings and in either sex. In a recent community study conducted in the state of Kerala, which has several health indicators similar to that of industrialized nations, the age adjusted prevalence of CHD was found to match the US. However, a few characteristics have been identified in the studies assessing CVD burden in India. In a case control study of patients with first myocardial infarction as well as in studies of migrant populations involving South Asians, it was noted that patients from the subcontinent manifest CHD at about 10 years younger than their western counterparts. While only a fourth of CVD deaths in western population occur below 70 years of age, in India, half of the CVD deaths occur in this age group. In addition, cardiovascular events resulted in fatal outcomes more often in low-income group populations in the world, mainly represented by India. In the PURE study, the case fatality rate for adverse cardiovascular events was 17% in low-income nations as against 6.5% in countries with higher income. Apart from loss of lives in relatively younger age groups, the economic impact of CVD is immense too.

Reasons for this pattern – the risk factors

In the INTERHEART Asia study, it was found that the increased expression of conventional cardiovascular risk factors accounted for the relatively younger age presentation of first myocardial infarction in this region. Tobacco use and lipid abnormalities accounted for two-third of the population attributable risk for first MI. A big challenge in India is paucity of a nation-wide data for most risk factors, except for tobacco use. More than a third of adult population in India use tobacco and its use is rapidly increasing among young adults. Almost a million die of tobacco related diseases in India annually. Regarding other cardiovascular risk factors, we have to rely on a few regional cross-sectional epidemiological studies. An average Indian is becoming more physically inactive and obese. The chances of coming across a diabetic Indian with abnormal lipid profile has increased over the years.

Challenges for India and the future perspectives

CHD causes higher mortality and morbidity among socioeconomic challenged individuals in India. This is largely contributed to by the fact that majority of the patients have to support themselves, involving significant out-of-pocket expenditure. Hence, the underprivileged are less likely to realize evidence based treatment, be it during the acute event or in a long-term basis. Clustering of cardiovascular risk factors occurs in these groups of individuals, along with low levels of awareness of the disease. Inaccessibility of health care and prolonged symptom-to-hospital-contact duration during acute events is another factor for concern. Rural areas have scarcity of health-care facilities and workforce equipped to
tackle these diseases. This is perhaps one of the reasons for a higher mortality among Indians with acute coronary events when compared to their western counterparts. Another area which needs improvement is a system of surveillance, with a focus on primordial and primary prevention. The recently established NCD programs at national and state level are expected to bring about robust changes in this aspect. In addition, a few laws in connection with risk factors are being introduced in the country. The state of Kerala announced ‘fat tax’ in 2016 for convenience foods, a strategy which was found to be effective in other countries. A nation-wide prohibition on smoking in public places came into effect in 2008. While India is being threatened by a substantial disease burden in the productive age groups, it has to gear up to face another challenge in the near future. The proportion of elderly individuals in the population is set to double in a couple of decades. Appropriate health-care models are gradually being envisaged to take care of this challenge, with the initiation of the National Program of Health-care for the Elderly in India.

References:


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Distinguished Cardiologists and Scientists Honored with 2016 International Academy of Cardiology Awards at the 21st World Congress on Heart Disease, Boston, MA, USA

Dr. Asher Kimchi, Founder and Chairman of the International Academy of Cardiology (IAC) today announced the winning recipients of the 2016 IAC Awards at the 21st World Congress on Heart Disease held in Boston, MA, USA. In addition to the IAC awards, the committee also named three faculty to receive the Distinguished Fellowship Awards.

Dr. Asher Kimchi, together with Co-Chairmen Dr. Jeffrey S. Borer and Dr. John A. Elefteriades, headed a committee comprised of 225 of the world's leading cardiologists and scientists that reviewed a prestigious list of nominees and voted for their top choice.

The following awards for 2016 were presented at the Opening Ceremony of the International Academy of Cardiology Annual Scientific Sessions 2016, 21st World Congress on Heart Disease, to honor the memory of distinguished colleagues, all former members of the faculty of previous International Academy of Cardiology meetings who made major contributions to Medicine and Cardiology:

- The Walter Bleifeld Memorial Award for distinguished work in the field of Clinical Research to Yochai Birnbaum M.D., Professor of Medicine, John S. Dunn Chair in Cardiology Research and Education, Baylor College of Medicine, Houston, TX, USA
- The Albrecht Fleckenstein Memorial Award for distinguished work in the field of Basic Research to Tadeusz Malinski, Ph.D., Marvin White Chair and Distinguished Professor of Biomedical Sciences, Ohio University, Athens, Ohio, USA
- The Jan J. Kellermann Memorial Award for distinguished work in the field of Cardiovascular Disease Prevention to Robert S. Rosenson, M.D., Professor of Medicine, Director of Cardiometabolic Disorders, Icahn School of Medicine at Mount Sinai, New York, NY, USA
The Hans-Peter Krayenbuehl Memorial Award for distinguished work in the field of Research in Cardiac Function to Brian D. Hoit, M.D., Professor of Medicine and Physiology and Biophysics, Case Western Reserve University, Cleveland, OH, USA

The Melvin L. Marcus Memorial Award for distinguished contribution as a Gifted Teacher to Arthur L. Klatsky, M.D., Adjunct Investigator, Division of Research, Kaiser Permanente, Oakland, CA, USA

The 2016 Distinguished Fellowship Awards were presented to three Faculty of the 21st World Congress on Heart Disease:

- **Charles H. Hennekens, M.D., Dr.P.H.**, Sir Richard Doll Professor, Senior Academic Advisor to the Dean, Charles E. Schmidt College of Medicine, Florida Atlantic University, Boca Raton, FL, USA

- **Shahbudin H. Rahimtoola, MB, FRCPD.Sc. (Hon)**, Distinguished Professor at University of Southern California, Griffith Professor of Cardiology and Professor of Medicine, University of Southern California, Los Angeles, CA, USA

- **Nanette K. Wenger, M.D.**, Professor of Medicine (Cardiology) Emeritus, Emory University School of Medicine, Atlanta, GA, USA

The Opening Ceremony and Awards Presentations were chaired by Dr. Jeffrey S. Borer, Professor of Medicine, Cell Biology, Radiology and Surgery at the State University of New York Downstate Medical Center and College of Medicine; Chairman, IAC Scientific Executive Committee and Dr. John A. Elefteriades, William W. L. Glenn Professor of Cardiothoracic Surgery, Director, Yale Center of Thoracic Aortic Disease, Yale University and Yale-New Haven Hospital; Member, IAC Scientific Executive Committee.

The following Members of the Scientific Executive Committee of the International Academy of Cardiology also took part in the Awards Ceremony:

- **Naranjan S. Dhalla, Ph.D., M.D,(Hon)**, Distinguished Professor at the Faculty of Medicine, University of Manitoba, Winnipeg, Canada

- **Laurence Sperling, M.D.**, Professor of Medicine (Cardiology), Founder and Director of The Heart Disease Prevention Center, Emory University, Atlanta, GA, USA
Nathan D. Wong, Ph.D., MPH, Professor and Director of the Heart Disease Prevention Program, Division of Cardiology, University of California, Irvine, CA, USA

The Tenth H.J.C. Swan Memorial Lecture at the Opening Ceremony of the International Academy of Cardiology Annual Scientific Sessions 2016, 21st World Congress on Heart Disease, was delivered by Eugene Braunwald, M.D, Distinguished Hersey Professor of Medicine at Harvard Medical School, and founding Chairman of the TIMI Study Group at the Brigham and Women’s Hospital, Boston, Massachusetts, USA, on the topic of “The War on Heart Failure.”

Dr. Kimchi comments, "The International Academy of Cardiology is dedicated to the advancement of global research in cardiovascular medicine through the support of scientific meetings and publications.”

In his opening remarks, Dr. Kimchi commented, “Over the past 27 years, the World Congress on Heart Disease has been an outstanding meeting for aspiring young researchers to present their research and interact with senior investigators in a relaxed and convivial atmosphere.”

Dr. Kimchi added, “The faculty of the Congress has repeatedly attested to the high quality of the research presented in these scientific sessions and the excellent interchange of ideas that transpires at each meeting.”

The World Congress on Heart Disease, the annual scientific session of the International Academy of Cardiology, provides the opportunity for a comprehensive overview of current concepts and future directions in cardiovascular medicine.

“We are delighted by the interest which has been shown in this year's Congress from clinicians and investigators from 44 countries around the globe. The 446 oral and poster presentations for this congress were carefully selected by the Scientific Abstract Review Committee from over 700 submitted abstracts,” said Dr. Kimchi.

Dr. Asher Kimchi, the Founder and Chairman of the World Congress on Heart Disease, is a former flight surgeon in the Israeli Air Force and is the Founder and Chairman of the International Academy of Cardiology. Dr. Kimchi is the Clinical Chief of the Division of Cardiology and the Co-Medical Director of the Preventive and Consultative Heart Center of Excellence at the Cedars-Sinai Heart Institute in Los Angeles, CA, USA. Dr. Kimchi holds the academic title of Clinical Professor of Medicine at Cedars-Sinai Medical Center and at David Geffen School of Medicine at UCLA. He is a Past-President of the American Heart Association, Los Angeles County Division.

Dr. Kimchi is a Fellow of the International Academy of Cardiovascular Sciences. (IACS) Both International Academy of Cardiology and IACS have established collaboration.

Academy Bestows Lifetime Achievement Award upon Prof. N. Yamazaki

Noboru Yamazaki MD, Ph.D.
Ex-President, Professor Emeritus
Hamamatsu University. School of Medicine

Professional Background

Name: Yamazaki Noboru
Date of birth: 8 June 1929
Present Address: 1-19-19, Sanarudai, Naka-ku, Hamamatsu, Japan
TEL/FAX: 053-449-1090
E-Mail: nobo-yamazaki@nifty.com

Education
April, 1950 Graduated from the Faculty of Medicine, University of Nagoya

www.heartacademy.org
April, 1954 Intern of the First Red Cross Hospital of Nagoya.

Research and Professional Experience

April, 1955 Resident in the Second Department of Internal Medicine, Nagoya University
April, 1958 Research Student of the Second Department of Internal Medicine, Nagoya University
September, 1961 Research Associate of Hospital in affiliation of Faculty of Medicine, Nagoya University
November, 1970 Instructor of Hospital in Affiliation of Faculty of Medicine, Nagoya University
May, 1992 Professor of Hamamatsu University School of Medicine
September, 1995 Honorary Professor of China Medical University
May, 1996 Vice President of Hamamatsu University, School of Medicine
May, 2000 President of Hamamatsu University, School of Medicine
May, 2000 Professor Emeritus of Hamamatsu University, School of Medicine
June, 2000 Honorary Professor of Shanghai Second Medical University

Professional Activities

I started a study on myocardium metabolism in April, 1958 in the Nagoya University and engaged in the studies on cause of the heart vascular disease during 42 years before retiring from the president of the Hamamatsu University in 2000.

1. Chairperson of the 2nd Sectional Meeting of Myocardial Metabolism. (Grand Hotel Hamamatsu 1979)
2. Chairperson of the XIth Sectional meeting in Japan of International Society for Heart Research, (Grand Hotel Hamamatsu: 1991)
3. The Honorary membership of International Society for Heart Research, (Sectional group in Japan 2000)

I published the results of my research in the IX, XIII, XVI, XVIIth World Congress of International Society for Heart Research, and I acted as chairperson of Symposium "Howard Morgan" in XVII World Congress of ISHR, Winnipeg, Canada in 2001.

Summary of Studies

(1) Research in relation to free radicals in ischemic cardiac muscle.

(a) Studies on indicator of myocardial hypoxia: electron spin resonance studies on myocardial ischemia. (Proceeding of the Vth European Congress of Cardiology: 555-564. 1968)

Coronary stenosis was induced in a dog, then with coronary vein catheterization, free radicals in coronary vein blood were measured using the electron spin resonance method, and we reported an increase in free radicals in ischemic cardiac muscle for the first time worldwide.

(b) Reperfusion Arrhythmia and Free Radical in Myocardial Mitochondria. (JPN.J. ELECTROCARDIOLOGY Vol. 11 SUPPL. 1991)

Electron spin resonance (ESR) was used to examine changes in free radicals in mitochondria of canine myocardium during ischemia and reperfusion, and as a result it was found that in ischemic cardiac muscle, at 5 minutes of reperfusion, free radicals had significantly increased in the mitochondria of the
myocardial reperfusion area. I reported that in the ventricular fibrillation (VF) (+) group that developed VF within 1 minute after reperfusion and 15 minutes of ischemia, there were significantly more free radicals in the mitochondria of the reperfused myocardium than in the VF (-) group.

(2) Research of myocardial catecholamine metabolism in heart failure.
(Jap. Cir. J. 35(8) 1971)

Heart failure by aortic stenosis was prepared using domestic rabbits with aortic stenosis to clarify the presence of dual impairment with impaired synthesis of catecholamine in the cardiac muscle, and impaired synthesis of cyclic AMT. Furthermore, I reported that at the time of heart failure, high levels of catecholamine were found in the blood, the blood vessels throughout the body were constricted, and after load was increased.

(3) Research involving the proarrhythmic mechanism of a sudden increase of free fatty acid in blood in ischemic heart.
(Recent advances in studies on cardiac structure and metabolism. Cardiac Adaptation 12:271-277,1978.)

We reported that suddenly increasing free fatty acid in blood by simultaneous intravenous injection of intralipid and heparin in a dog with coronary stenosis led to severe arrhythmia such as ventricular tachycardia and ventricular fibrillation, then death. We reported that some elderly individuals with ischemic cardiac disease suddenly die as a result of jogging early on a cold morning abruptly with an empty stomach, which is believed to be caused by a sudden increase in serum fatty acids brought about by the cold and exercise in a state of hypoglycemia early in the morning.

(4) Research of carnitine in ischemic cardiac muscle.
(a) We reported that in ischemic cardiac muscle of a dog, free carnitine and ATP were significantly low in the ischemic cardiac muscle, whereas long chain acyl carnitine and long chain acyl CoA were significantly high.

Upon administration of L-carnitine to the canine ischemic cardiac muscle, both the long chain acyl carnitine and the long chain acyl CoA decreased in the ischemic cardiac muscle, while free carnitine and ATP were significantly increased.

(b) Myocardial Carnitine deficiency in chronic heart failure.
(Lancet 8263, 116. 1982)

We reported that free carnitine was significantly low in the left ventricle papillary muscle of patients with heart failure, whereas long chain acyl carnitine was significantly elevated.

(c)Effects of L-Carnitine on exercise tolerance in patients with stable angina pectoris.

We reported that on comparing exercise tolerability using a treadmill before and after administration of L-Carnitine in patients with stable angina, it was found that exercise tolerability and ST1mm depression onset following administration of L-Carnitine significantly improved.

ACKNOWLEDGEMENTS FOR PARTNERSHIP WITH IACS FOR PROMOTING CARDIOVASCULAR EDUCATION

1. St. Boniface Hospital Albrechtsen Research Centre, Winnipeg, Canada
2. Mitsubishi Rayon Cleansui Co. Ltd., Tokyo, Japan
4. Pulsus Group, Current Research: Cardiology, Toronto, Canada
5. Levit Family, Yetta and Jack Levit Distinguished Lecture, Winnipeg, Canada
6. Winnipeg Caribbean Community, Winnipeg, Canada
A. Local Organizing Committee

Chair: Ghassan Bkaily, Professor, Faculty of Medicine, Université de Sherbrooke
Honorary Chair: Naranjan S. Dhalla, Distinguished Professor, University of Manitoba
André Carpentier, Professor, Department of Medicine
Faculty of Medicine and Health Sciences, Université de Sherbrooke
Pedro D’Orléans-Juste, Professor, Department of Pharmacology
Faculty of Medicine and Health Sciences, Université de Sherbrooke
Paul Farand, Professor, Department of Medicine
Faculty of Medicine and Health Sciences, Université de Sherbrooke
Danielle Jacques, Professor, Department of Anatomy and Cell Biology
Faculty of Medicine and Health Sciences, Université de Sherbrooke
Michel Nguyen, Professor, Department of Medicine
Faculty of Medicine and Health Sciences, Université de Sherbrooke
Serge Lepage, Professor, Department of Medicine
Faculty of Medicine and Health Sciences, Université de Sherbrooke
Lucien Bergeron Jr., Scientific Coordinator, CMDO, CRCHUS, Université de Sherbrooke

B. Preliminary Symposium Program

THURSDAY, SEPTEMBER 22
1:00 to 7:00 PM: Registration (Foyer Lower Level)
6:00 to 7:00 PM: Inaugural Address Dedicated to Dr. Naranjan S. Dhalla on his 80th Birthday
   Room: Salon Sherbrooke A-C
   Chair: Dr. Grant Pierce, President of IACS – North American Section
   University of Manitoba, Winnipeg, Canada
6:00 to 6:15 PM: Dr. Bohuslav Ostadal: Presentation of Dr. Naranjan S. Dhalla
6:15 to 7:00 PM: Dr. Andras Varro: An address and conference in the honour of Dr. Naranjan S. Dhalla
7:00 to 10:00 PM: Welcome Reception, Entertainment and Dinner Buffet
   Room: Salon Sherbrooke A-C
Welcome Remarks: Dr. Ghassan Bkaily, Chairman, 4th Cardiovascular Forum Sherbrooke, Canada
Program Highlights: Dr. Danielle Jacques, Secretary, 4th Cardiovascular Forum Sherbrooke, Canada

FRIDAY, SEPTEMBER 23
8:00 to 9:00 AM: Registration (Foyer Lower Level)
8:00 to 9:00 AM: Breakfast and Networking
9:00 to 10:20 AM 1. Thematic Symposium:
   Cardiovascular Dysfunction in Chronic Diabetes
   Room: Salon Sherbrooke A
   Chairs: Dr. Gary Lopaschuk and Dr. André Carpentier
   9:00 AM to 9:20 AM: Madhu Khullar: Role of Fibrosis Associated Transcription Factors in Hyperglycemia Induced Endothelial to Mesenchymal Transition (EndMT).
   9:20 AM to 9:40 AM: Vincenzo Lionetti: Maspin-enriched exosomes released from sulforaphane-treated fibroblasts prevents hypertrophy in angiotensin II induced HL-1 cardiomyocytes.
   10:00 AM to 10:20 AM: Gary Lopaschuk: Acetylation Control of Cardiac Fatty Acid β-Oxidation and Energy Metabolism in Obesity and Diabetes.

2. Dr. Grant Pierce Young Investigator Award Competition in Cardiovascular Science: Graduate Students
   Room: Salon Sherbrooke B
Chairs and Judges: Dr. Adriana Adameova and Dr. Stephen Schaffer Judges: Dr. Dinender Singla, Dr. Danielle Jacques and Dr. Fernand Gobeil
9:00 AM to 9:20 AM:
9:20 AM to 9:40 AM:
9:40 AM to 10:00 AM:
10:00 AM to 10:20 AM:

3. Gary Lopaschuk Young Faculty Award Competition in Cardiovascular Biomedical Sciences
Room: Salon Sherbrooke C
Chairs and Judges: Dr. Jan Slezak and Dr. Saadeh Suleiman
Judges: Dr. Sheldon Magder, Dr. Ashok Srivastava and Dr. Ren-Ke Li
9:00 AM to 9:20 AM:
9:20 AM to 9:40 AM:
9:40 AM to 10:00 AM:
10:00 AM to 10:20 AM:
10:20 to 10:40 AM: Coffee Break (Foyer Lower Level)
10:40 AM to 12:00PM: 4. Thematic Symposium: Arrhythmias and Heart Failure in Hereditary Cardiovascular Diseases
Room: Salon Sherbrooke A
Chairs: Dr. Ghassan Bkaily and Dr. Naranjan Dhalla
11:10 AM to 11:35 AM: Peter Backx: The role of exercise in arterial fibrillation.
11:35 AM to 12:00 AM: Ren-Ke Li: Conductive Polymer Hydrogel Improves Electrical Conduction Velocity in the Injured Heart.
5. Thematic Symposium: Age and Cardiovascular Disease
Room: Salon Sherbrooke B
Chairs: Dr. Frantisek Kolar and Dr. Dinender Singla
10:40 AM to 11:05 AM: Susan Howlett: Impact Of Age and Frailty on Cardiac Function in a Mouse Model.
11:05 AM to 11:30 AM: Carin Wittingnich: Does young age really put the heart at risk?
6. James Willerson Young Investigator Award Competition in Cardiovascular Medicine: Residents and Postdoctoral Fellows
Room: Salon Sherbrooke C
Chairs and Judges: Dr. Michel Nguyen and Dr. Tanya Ravingerova
Judges: Dr. Madhu Anand-Srivastava, Dr. James Gilchrist and Dr. Mohamed Chahine
10:40 AM to 11:00 AM:
11:00 AM to 11:20 AM:
11:20 AM to 11:40 AM:
11:40 AM to 12:00 PM:
12:00 to 1:10 PM: Lunch Break (Salon Sherbrooke B)
12:00 to 1:10 PM: IACS-North America Executive Committee Business Meeting (President: Dr. Grant Pierce) Room: Lac Orford
1:10 to 2:30 PM: 7. Thematic Symposium: Oxidants and Anti-oxidants in Heart Health and Diseases
Room: Salon Sherbrooke A
Chairs: Dr. Martin Morad and Peter Backx
1:10 PM to 1:35 PM: Jan Slezak: Radiation induced heart disease and amelioration of X ray toxic effect with selected substances and H2.
1:35 PM to 2:00 PM: Stephen Schaffer: Taurine deficient heart exhibits mitochondrial oxidative stress, apoptosis and impaired ATP generation.
2:00 PM to 2:25 PM: Frantisek Kolar: Effect of moderate exercise training and continuous normobaric hypoxia on postinfarction heart failure in rats.
8. Dennis B. McNamara Symposium: Vascular Disease and Atherosclerosis
Room: Salon Sherbrooke B
Chairs: Dr. Dennis B. McNamara and Dr. Devendra Agrawal
1:10 PM to 1:35 PM: Sampath Parthasarathy: Novel ways to lipid load cells to study macrophage functions.
1:35 PM to 2:00 PM: Ashok Srivastava: Stromal interaction molecule-1 and orai1 channel mediate angiotensin-II-induced expression of early growth response protein-1 (Egr-1) in vascular smooth muscle cells.
2:00 PM to 2:25 PM: Dinender Singla: Increased anti-inflammatory M2 macrophages Prevents Cardiac Diseases.
9. Thematic Symposium: Nutrition and Prevention of Cardiovascular Disease
Room: Salon Sherbrooke C
Chairs: Dr. Delfin Rodriguez-Leyva and Dr. Morris Karmazyn

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1:10 PM to 1:30 PM: Devendra Agrawal: Epicardial adipose tissue and vitamin D in the immunomodulation of coronary artery disease.

1:30 PM to 1:50 PM: Karmin O: Nutritional regulation of non-alcoholic fatty liver disease (NAFLD) and its impact on cardiovascular disease (CVD).

1:50 PM to 2:10 PM: Morris Karmazyn: Ginseng for the treatment of cardiovascular disease.

2:10 PM to 2:30 PM: Grant N. Pierce: The unique technical challenges that natural health products pose as a therapeutic intervention in a clinical trial.

2:30 to 2:50 PM: Coffee Break (Foyer Lower Level)

2:50 to 4:10 PM: Thematic Symposium: New Approaches for the Therapy of Cardiac Diseases: Novel Devices
Room: Salon Sherbrooke A
Chairs: Dr. Paul Farand and Dr. Vincenzo Lionetti

2:50 PM to 3:10 PM: Tanya Ravingerova: Novel “conditioning” approaches to mend the broken heart: a potential for clinical application?

3:10 PM to 3:30 PM: Serge Lepage: Roles of B-type Natriuretic Peptide (BNP) in decision making and follow up of heart failure patients.


3:50 PM to 4:10 PM: Michel Nguyen: High-Sensitivity Troponin for Diagnosis, Prognosis Stratification and Definition of Myocardial Infarction.

11. Karl Weber Symposium: Molecular Basis for Heart Disease
Room: Salon Sherbrooke B
Chairs: Dr. Pawan Singal and Dr. Nilanjana Maulik

2:50 PM to 3:10 PM: Adriana Adameova: Necroptosis in diseased heart.

3:10 PM to 3:30 PM: Patrick Burgon: Deletion of Muscle-enriched A-type Lamin-Interacting Protein (MLIP) leads to cardiac hyperactivation of Akt/mTOR and impaired cardiac adaptation.

3:30 PM to 3:50 PM: Nilanjana Maulik: New Molecular Targets of VEGF Signaling in Cardiovascular Disease.

3:50 PM to 4:10 PM: Jeffrey Wigle: Transcriptional control of cardiac fibroblast activation.

12. Stephen Vatner Young Investigator Orations in Cardiovascular Medicine: Graduate Students
Room: Salon Sherbrooke C
Chairs: Dr. Serge Lepage and Dr. Susan Howlett
2:50 PM to 3:10 PM:

3:10 PM to 3:30 PM:
3:30 PM to 3:50 PM:
3:50 PM to 4:10 PM:

4:10 to 6:00 PM: Wine and Cheese Combined Poster Session
Room: Foyer Lower Level
All posters will be judged in a single session. Cheese, crackers and beverages will be available during this session.

13. Translational Medicine (Morris Karmazyn Award)
Judges: Nilanjana Maulik, Tanya Ravingerova, Balwant Tuana, Jeffrey Wigle, Antoinette Blackman.

14. Biomedical Sciences (Margaret P. Moffat Award)
Judges: Patrick Burgon, Michael Czubryt, Abdelouahed Khalil, Madhu Khullar, Adel Schwertani.

6:00 to 7:00 PM: Presidential Address
7:00 PM: Free Evening for Networking

SATURDAY, SEPTEMBER 24
8:00 AM to 4:00 PM: Registration (Foyer Lower Level)
8:00 to 9:00 AM: Breakfast and Networking
9:00 to 10:20 AM: Anti hypertensive Drugs: Where Are We?
Room: Salon Sherbrooke A
Chairs: Dr. Madhu Anand-Srivastava and Dr. Sheldon Magder

9:00 AM to 9:25 AM: Domenico Regoli: Rational bases of modern therapies for cardiovascular diseases.

9:25 AM to 9:50 AM: Madhu Anand-Srivastava: Nitric oxide and regulation of blood pressure.


16. Otto F. Schanne Young Investigator Orations
Room: Salon Sherbrooke B
Chairs: Dr. Danielle Jacques and Dr. Balwant Tuana
9:00 AM to 9:20 AM:
9:20 AM to 9:40 AM:
9:40 AM to 10:00 AM:
10:00 AM to 10:20 AM:

17. Eric Olson Symposium: Cardiovascular Health and Disease
Room: Salon Sherbrooke C
Chairs: Dr. Bohuslav Ostadal and Dr. Andras Varro
9:00 AM to 9:20 AM: Naranjan Dhalla: Role of protease activation in cardiac dysfunction due to ischemia-reperfusion injury to the heart.


9:40 AM to 10:00 AM: Ghassan Bkaily: Sodium-hydrogen exchanger blocker for the treatment of heart and vascular failures in Becker and Duchenne muscular dystrophy.

10:00 AM to 10:20 AM: Antoinette Blackman: Clinical importance of grade I left ventricular diastolic dysfunction.

10:20 to 10:40 AM: Coffee Break (Foyer Lower Level)

10:40 AM to 12:00 PM: 18. Roberto Bolli Young Faculty Award Competition in Cardiovascular Medicine
Room: Salon Sherbrooke A
Chairs and Judges: Dr. Ren-Ke Li and Dr. Bohuslav Ostadal
Judges: Dr. Vincenzo Lionetti, Dr. Frantisek Kolar and Dr. Sampath Parthasarathy
10:40 AM to 11:00 AM:
11:00 AM to 11:20 AM:
11:20 AM to 11:40 AM:
11:40 AM to 12:00 PM:

Room: Salon Sherbrooke B
Chairs: Dr. Madhu Khullar and Dr. Patrick Burgon
10:40 AM to 11:00 AM: Pawan Singal: Role of Toll-like Receptors in Innate Signaling in Heart Failure.

11:00 AM to 11:20 AM: Balwant Tuana: New mechanisms leading to DCM.

11:20 AM to 11:40 AM: Abdelouahed Khalil: HDL functionality, or HDL quality versus HDL quantity.

11:40 AM to 12:00 PM: Michael Czubryt: Novel approaches to treating cardiac fibrosis.

20. Thematic Symposium: Endothelium and Cardiovascular Disease
Room: Salon Sherbrooke C
Chairs: Dr. Antoinette Blackman and Dr. Adel Schwartani
10:40 AM to 11:05 AM: Sheldon Magder: Cross talk between the heart and peripheral circulation: potential role of cardiac and peripheral endothelium.


11:30 AM to 12:00 PM: Danielle Jacques: Crosstalk between the NPY and ET-1 systems in human endocardial endothelial cells.

12:00 to 1:10 PM: Lunch Break

1:10 to 2:30 PM: 21. Bruce McManus Young Investigator Orations: Graduate Students, Biomedical Sciences
Room: Salon Sherbrooke A
Chairs: Dr. Jeffrey Wigle and Dr. Carin Wittnich
1:10 PM to 1:30 PM:
1:30 PM to 1:50 PM:
1:50 PM to 2:10 PM:
2:10 PM to 2:30 PM:

22. Nick Sperelakis Postdoctoral Young Investigator Orations
Room: Salon Sherbrooke B
Chairs: Dr. Michael Czubryt and Dr. Pedro D’Orleans-Juste
1:10 PM to 1:30 PM:
1:30 PM to 1:50 PM:
1:50 PM to 2:10 PM:
2:10 PM to 2:30 PM:

23. Combined Poster Oral Presentations: Translational Medicine (Morris Karmazyn Award) and Biomedical Sciences (Margaret P. Moffat Award)
Room: Salon Sherbrooke C
Chairs: Dr. Moni Nader and Dr. Fernand Gobeil
1:10 PM to 1:15 PM
1:15 PM to 1:20 PM
1:20 PM to 1:25 PM
1:25 PM to 1:30 PM
1:30 PM to 1:35 PM
1:35 PM to 1:40 PM
1:40 PM to 1:45 PM
1:45 PM to 1:50 PM
1:50 PM to 1:55 PM
2:35 to 6:00 PM: Free Time
6:00 to 10:00 PM: IACS Awards Banquet and Closing Reception
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3rd IACS-European Section Meeting, Marseille during October 1-4, 2016

A. Organization Committee

Chairman of the Meeting: Prof. András Varró, MD, DSc
Honorary Chairman of the Meeting: Prof. Naranjan S. Dhall, PhD, MD (Hon), DSc (Hon)
Organizing secretariat:
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B. Conference Program

Ship embarkation: MPCC Terminal port, Marseille, France, 11:00-12:30, October 1, 2016.
Day 1 (October 1, 2016) – Ship leaves Marseille, France
11:00-12:30 Ship embarkation (separate check-in desks for conference attendees provided)
12:30-13:30 Lunch

Lecture Hall A (Theatre): PLENARY LECTURES
Chairs: András Varró/Bohuslav Oštádal
14:00-14:10 Opening ceremony
14:10-14:50 Naranjan Dhall Honorary Lecture
Ursula Ravens, Freiburg, Germany
Antiarrhythmic drugs in atrial fibrillation – do we know what to target?
14:50-15:30 20th Anniversary of IACS – Ceremonial Plenary Lecture
Naranjan Dhall, Winnipeg, Canada
Antiplatelet agents as a novel therapy of heart failure due to myocardial infarction
16:00-17:00 Safety regulations presentation and drill by Pullmantur staff

Lecture Halls C and E (Library Room and Conference Room)
17:00-19:00 Poster Session I (even poster numbers, with wine and cheese)
21:00-23:00 Dinner
Day 2 (October 2, 2016) – Ship arrives in Livorno, Italy (~ 7:00 AM)
Facultative program for accompanying persons: Excursion to Pisa and Florence

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Parallel sessions in Lecture Halls B (Disco Bar), C (Library), D (Cardroom) and E (Conference Room)  
9:00-10:30 Parallel oral sessions (invited speakers and oral abstract presentations)  

**Lecture Hall B – Clinical (Disco Bar)**  
Chairs: Karl Werdan/Vladimir Jakovljevic  
Frans HH Leenen, Ottawa, Canada  
*Role of CNS MR - AT1R signaling in heart failure*  
Karl Werdan, Halle, Germany  
*Septic cardiomyopathy*  
Vladimir Jakovljevic, Kragujevac, Serbia  
*Oxidative stress in exercise: possible interventions with antioxidants for better adaptation*  

**Lecture Hall C – Basic science (Library)**  
Chairs: Ferenc Gallyas/Danina Muntean  
Ferenc Gallyas, Pécs, Hungary  
*Role of mitochondrial integrity and network dynamics in regulation of cell death*  
Bohuslav Ošt'ádal, Prague, Czech Republic  
*Protection of the developing heart- possible role of mitochondria*  
Danina Muntean, Timisoara, Romania  
*Improvement of mitochondrial function by methylene blue in experimental diabetes: a promising case of drug repurposing*  

**Lecture Hall D – Basic science (Cardroom)**  
Chairs: Antonio Zaza/Dobromir Dobrev Dobrev  
Dobrev, Essen, Germany  
*New insights into the molecular mechanisms of paroxysmal atrial fibrillation*  
Antonio Zaza, Milan, Italy  
*Modulation of the intracellular calcium store as an antiarrhythmic endpoint*  
Thomas Jespersen, Copenhagen, Denmark  
*Combined effect of class III antiarrhythmic agents and Ca2+-activated K+ (SK) channel inhibition in an isolated heart model of atrial fibrillation*  

10:30-11:00 Coffee break  

**Lecture Hall A (Theatre): PLENARY LECTURES**  
Chairs: Zoltán Csanádi/Dobromir Dobrev/Grant Pierce  
11:00-11:40 Kálmán Tóth, Pécs, Hungary  
*Myocardial and vascular protection by PARP inhibitors*  
11:40-12:20 David Eisner, Manchester, UK  
*Systolic and diastolic calcium: in and out of control*  
12:20-13:00 Gary Lopaschuk, Edmonton, Canada  
*Targeting cardiac fatty acid oxidation to treat heart failure*  
13:00-15:00 Lunch  

Parallel sessions in Lecture Halls A (Theatre), B (Disco Bar), C (Library), D (Cardroom)  
15:00-16:50 Parallel oral sessions (invited speakers and oral abstract presentations)
Lecture Hall A (Theatre) - Young Investigator Award Competition

Safa Abdul Ghani, Bristol, UK
Remote ischemic preconditioning triggers changes in heart rate, heart rate variability, microcirculatory blood flow and cardiac energetics

Nevena Jeremic, Louisville, USA
Ablation of TLR-4 mitigates blood pressure response during hyperhomocysteinemia

Kornél Kistamás, Manchester, UK
Dependence of diastolic calcium levels on frequency and extracellular calcium concentration

Zsófia Kohajda, Szeged, Hungary
Cellular electrophysiological and antiarrhythmic effect of sodium/calcium exchanger (NCX) inhibition

Victoria L Mascetti, Cambridge, UK
Human-mouse chimera validates human stem cell pluripotency and cardiovascular differentiation

Marta Rusek, Lublin, Poland
Effect of bisphosphonates on paraoxonase 1 (PON1) activity and gene expression in various tissues in patients with coexisting osteoporosis and increased risk of atherosclerosis

Krisztina Váczi, Debrecen, Hungary
Sarcolemmal Ca2+ entry through L-type Ca2+ channels controls the profile of Ca2+-activated Cl− current in canine ventricular myocytes

Lecture Hall B – Basic science (Disco Bar)
Chairs: Devendra Agrawal/Jerzy Beltowski

Devendra Agrawal, Omaha, USA
Novel mechanisms underlying instability of plaques in atherosclerotic arteries

Jerzy Beltowski, Lublin, Poland
Effect of statins on vitamin D metabolites: implications for pharmacotherapy of cardiovascular diseases

Zoltán Papp, Debrecen, Hungary
New vasodilators, inotropes and inodilators in the management of acute heart failure

Paramjit S Tappia, Winnipeg, Canada
A novel foot bathing approach for the treatment of foot ulcers due to peripheral arterial disease: a case study

Hideo A Baba, Essen, Germany
Bathing in CO2 enriched water alters protein expression in keratinocytes of skin tissue

Lecture Hall C – Clinical (Library)
Chairs: Chandrasekharan Kartha/Ramesh Goyal

Zoltán Csanádi, Debrecen, Hungary
Mechanisms of atrial fibrillation: lessons from a 20-year experience of transcatheter ablation

Chandrasekharan Kartha, Kerala, India
Tetralogy of Fallot: molecular defects in the cardiac right ventricle outflow

Gabriella Malfatto, Milano, Italy
Correlation of pulmonary pressure and thoracic impedance assessed by remote monitoring devices

Ramesh G Goyal, Chennai, India
Genome based diagnostics and therapeutics in cardiovascular complications: any light in the tunnel?

Deepak Srivastava, San Francisco, USA
Cellular reprogramming approaches for cardiovascular disease

Lecture Hall D – Basic science (Cardroom)
Chairs: Dinender K Singla/M.-Saadeh Suleiman

Michael Czubryt, Winnipeg, Canada
Development of novel therapeutics for cardiac fibrosis

Dinender K Singla, Orlando, USA
Stem cells derived exosomes attenuate adverse cardiac remodeling in doxorubicin induced cardiomyopathy

M.-Saadeh Suleiman, Bristol, UK
The role of cAMP/PKA/Epac signalling pathway in cardioprotection

Anikó Görbe, Budapest, Hungary
Cell-based platforms for cardioprotection

Monika Bartekova, Bratislava, Slovakia
Potential effects of quercetin in cardioprotection

Lecture Halls B and C (Conference Room and Library Room)
17:00-19:00 Poster Session II (odd poster numbers, with wine and cheese)
21:00-23:00 Dinner

Day 3 (October 3, 2016) – Ship arrives in Bastia, Corsica (~ 7:00 AM)
Social Programme: excursion in Corsica – fee depends on availability of sponsor funds
Parallel sessions in Lecture Halls A (Theatre), B (Disco Bar), C (Library), D (Cardroom)
15:00-17:00 Parallel oral sessions (invited speakers and oral abstract presentations)

**Lecture Hall A – Clinical (Theatre)**
Chairs: Simona Dragan/Buttar S Harpal

**Grant Pierce**, Winnipeg, Canada  
Addressing the problem of hypertension

**Simona Dragan**, Timisoara, Romania  
Predictors of progression of coronary heart disease in the clinical setting: life is not mathematics

**Buttar S Harpal**, Ottawa, Canada  
Clinical evidence for the benefits of mediterranean-type diet and lifestyle modifications in the prevention of cardiovascular diseases

**Naoki Makino**, Beppu, Japan  
Telomere biology and cardiovascular disease

**Lidia Hategan**, Szeged, Hungary  
Screening for known and novel genetic variants in ion channel diseases with next generation sequencing

**Lecture Hall B – Clinical (Disco Bar)**
Chairs: Helen Maddock/András Farkas

**Helen Maddock**, Coventry, UK  
New therapeutic strategies to protect the heart from cancer drugs

**Tetsuya Yamada**, Nagoya, Japan  
Clinical experiences of CO2 foot bath therapy: effects on peripheral arterial disease of dialysis patients with diabetes

**Hiroaki Hasebe**, New York, USA  
Utilization of near infrared spectroscopy imaging of chronic wound by CO2 enriched water foot bathing treatment

**András Farkas**, Szeged, Hungary  
Acquired long QT syndrome: does it matter for the clinician or just for the safety pharmacologist?

**István Koncz**, Szeged, Hungary  
Early repolarization syndrome

**Lecture Hall C – Basic science (Library)**
Chairs: Katja E Odening/Tamás Radovits

**Katja E Odening**, Freiburg, Germany  
Transgenic rabbit models for inherited arrhythmia disorders long-QT and short-QT syndrome

**Tamás Radovits**, Budapest, Hungary  
(Patho)physiology of athlete’s heart

**Norbert Nagy**, Szeged, Hungary  
Possible therapeutic implications of the selective cardiac Na+/Ca2+ exchanger inhibition: what can we learn from the pharmacological studies?

**Attila Farkas**, Szeged, Hungary  
The assessment of structural remodeling and proarrhythmic sensitivity in a new rabbit athlete's heart model

**László Virág**, Szeged, Hungary  
Cellular electrophysiological investigation of the chronic and acute effects of desethylamiodarone in dog cardiac ventricular preparations

**Lecture Hall D – Basic science (Cardroom)**
Chairs: Rakesh Kukreja/Belma Turan

**Ján Slezák**, Bratislava, Slovakia  
Protection of the heart in situations of increased production of oxygen free radicals: radiation and reperfusion injury

**Belma Turan**, Ankara, Turkey  
An investigation on the distribution of zinc-transporters in failing hearts of mammalians

**Suresh Tyagi**, Louisville, USA  
Role of H2S in cardiovascular remodeling

**Rakesh Kukreja**, Richmond, USA  
PDE5 inhibition in protection of diabetic heart

**Judit Barta**, Debrecen, Hungary  
Altered myofilament protein phosphorylation pattern contributes to increased right ventricular passive stiffness in a rat model of post-ischemic heart failure

17:30-19:00  
Award Ceremony (Disco Bar)
21:00-23:00  
Dinner

**Day 4 (October 4, 2016) – Ship arrives in Marseille, France (~ 8:00 AM)**
Arrival and disembarkation.
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