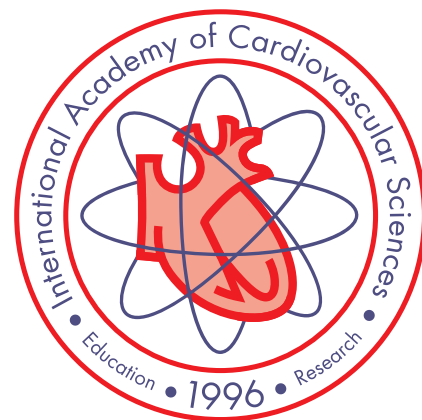


Promoting Cardiovascular Education, Research and Prevention

CV Network

THE OFFICIAL BULLETIN OF THE INTERNATIONAL ACADEMY OF CARDIOVASCULAR SCIENCES



PUBLISHED WITH THE ASSISTANCE OF THE MYLES ROBINSON
MEMORIAL HEART TRUST & ST. BONIFACE HOSPITAL FOUNDATION



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24th SCIENTIFIC FORUM

INTERNATIONAL CONGRESS OF CARDIOVASCULAR SCIENCES
SÃO FRANCISCO DE ASSIS CARDIOVASCULAR FOUNDATION- SERVCOR
Truth is Jesus - St John 14,6

13th-15th - November - 2014

HOTEL RADISSON MACEIÓ | AV. DR. ANTÔNIO GOUVEIA, 925 - PAJUÇARA, MACEIÓ - AL



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INTERNATIONAL ACADEMY OF CARDIOVASCULAR SCIENCES

XXXII BRAZILIAN CONGRESS OF EXTRACORPOREAL CIRCULATION

IV FORUM OF CARDIOVASCULAR BIOMEDICINE

XVI ECUMENIC FORUM "TO HEAL THE WOUNDED HEARTS - ST. ISAÍAH 61,1"

- ARCHBISHOP DOM WALMOR OLIVEIRA DE AZEVEDO -

X BRAZILIAN MEETING ON CARDIOLOGY FOR THE FAMILY

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XV INTERNATIONAL FORUM ON APPLIED CARDIOVASCULAR PHYSIOLOGY

INTERNATIONAL COURSE OF SCIENTIFIC INITIATION

ON CARDIOVASCULAR SCIENCES - 30 Hours

ACHIEVEMENT



SCIENTIFIC SUPPORT



SPONSORSHIP



CONTRIBUTION



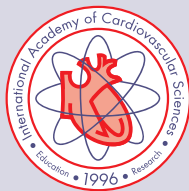
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International Academy of Cardiovascular Sciences



The challenge for the Academy and its members is to adopt a mind-set, which continuously raises the question of how new and existing knowledge, can be translated into prevention, improved diagnosis and therapy of cardiovascular disease. This approach offers the hope of a continued reduction in morbidity and mortality due to cardiovascular diseases.

– Howard Morgan, Founding President

The International Academy of Cardiovascular Sciences (IACS) was founded in 1996 and is headquartered in Winnipeg, Manitoba, Canada. Established by renowned Cardiovascular Scientists, Surgeons and Cardiologists, the Academy provides the organizational structure for the world-wide sharing of research and education information in the field of heart health. Although great strides have been made in improving the death rate from heart disease, heart attacks and related problems are still the number one killer. The Academy believes that research has found answers but the facts are too slow in moving beyond the laboratories to the bedside.

IACS is structured with 7 Sections in India, Japan, Russia, China, Europe, North and South America which are operating independently, but in a coordinated fashion. IACS is active to recognize the achievements of cardiovascular investigators by:

- a) Identifying established investigators of high reputation for awarding Fellowships of the Academy (not more than 250 at any given time)
- b) Awarding major prizes to distinguished scientists
- c) Selecting young talents for awards and travel grants

IACS AWARD WINNERS

Medal of Merit Recipients

This Highest Honour of the Academy is Bestowed for Outstanding Achievements in Cardiovascular Education and Research

2001 Michael DeBakey (Houston, USA) Richard Bing (Pasadena, USA)	2002 Edwin Krebs (Seattle, USA) Robert Furchgott (Brooklyn, USA)	2003 Eugene Braunwald (Boston, USA) Robert Lefkowitz (Durham, USA)
2004 Sir John Vane (London, UK) James Willerson (Houston, USA)	2005 Sir Magdi Yacoub (London, UK) Robert B. Jennings (Durham, USA)	2006 Sir George Radda (Singapore) Victor Dzau (Durham, USA)
2007 Louis Ignarro (Los Angeles, USA) Sen. Wilbert Keon (Ottawa, Canada) Jutta Schaper (Bad Nauheim, Germany)	2008 Nirmal Ganguly (New Delhi, India) Salvador Moncada (London, UK) Wolfgang Schaper (Bad Nauheim, Germany) Howard Morgan (Winfield, USA)	2009 Ernesto Carafoli (Padua, Italy) Eric Olson (Dallas, USA)
2010 Arnold M. Katz (Norwich, USA) Laszlo Szekeres (Szeged, Hungary)	2011 Jay Cohn (Minneapolis, USA) Salim Yusuf (Hamilton, Canada)	2012 Piero Anversa (Boston, USA) Laurentiu M. Popescu (Bucharest, Romania) Makoto Nagano (Tokyo, Japan)
2013 Roberto Bolli (Louisville, USA)	2014 Ferid Murad (Washington, USA)	

Recipients of the Makoto Nagano Award for Distinguished Achievements in Cardiovascular Education

2002 Chong-Chin Liew (Boston, USA)	2003 Bal K. Sharma (Haryana, India)	2004 Bruce McManus (Vancouver, Canada)	2005 Karl Weber (Memphis, USA)
2006 John Solaro (Chicago, USA)	2009 Agnes Vegh (Szeged, Hungary)	2011 Dr. Zoltan Papp (Debrecen, Hungary)	2013 Dr. David Lefer (Atlanta, USA)

Recipients of the Norman Alpert Award for Established Investigators in Cardiovascular Sciences

2002 Jan Slezak (Bratislava, Slovak Republic)	2003 Bohuslav Ostadel (Prague, Czech Republic)	2004 N K Ganguly (New Delhi, India)	2005 K. K. Talwar (Chandigarh, India)
2006 Seiryo Sugiura (Tokyo, Japan)	2009 Stephen Schaffer (Mobile, USA)	2011 Grant Pierce (Winnipeg, Canada)	2013 Rakesh C. Kukreja (Richmond, USA)

Recipients of the Howard Morgan Award for Distinguished Achievements in Cardiovascular Research

2002 Lazlo Szekeres (Szeged, Hungary)	2003 K. Gorpal Nair (Mumbai, India)	2004 Shunzo Onishi (Tokyo, Japan)	2005 Roberto Bolli (Louisville, USA)
2006 Heinz Gerd Zimmer (Louisville, USA)	2009 Dipak Das (Farmington, USA)	2011 Subodh Verma (Vancouver, Canada)	2013 Sumeet Chugh (Los Angeles, USA)

Recipients of the Naranjan Dhalla Award for Innovative Investigators in Cardiovascular Sciences

2002 Aiji Sakamoto (Tokyo, Japan)	2003 Luiz Souza (Curitiba, Brazil)	2004 Sukhinder Cheema (St. John's, Canada)	2005 Richard Schulz (Edmonton, Canada)
2006 Balwant S. Tuana (Ottawa, Canada)	2009 Hideo Baba (Essen, Germany)	2011 Gary Baxter (Cardiff, Wales)	2013 Andras Varro (Szeged, Hungary)

Distinguished Service in Cardiovascular Science, Medicine & Surgery Award

2003 Pavel Braveny (Brno, Czech Republic) Otoni Gomes (Belo Horizonte, Brazil) Elizabeth Roth (Pecs, Hungary)	2004 V. K. Puri (Lucknow, India) Suresh K. Gupta (New Delhi, India) Fause Attie (Mexico City, Mexico) Daniel Villarreal (Syracuse, USA)	2005 Ramesh K Goyal (Vadodara, India) Belma Turan (Ankara, Turkey) David Brasil (Belo Horizonte, Brazil) Wagner Padua Filho (Belo Horizonte, Brazil) Dennis McNamara (New Orleans, USA)
2006 Hideaki Kawaguchi (Sapporo, Japan)	2008 Robert Kalina (Oakville, Canada) Frantisek Kolar (Prague, Czech Republic)	2009 Keld Kjeldsen (Copenhagen, Denmark)
2010 Attila Ziegelhoffer (Bratislava, Slovak Republic)	2012 Dr. Balram Bhargava (New Delhi, India) Dr. Subir K. Maulik (New Delhi, India) Elaine Maria Gomes Freitas (Belo Horizonte, Brazil) Elton Silva Gomes (Belo Horizonte, Brazil)	2013 Dr. Tanya Ravingerova (Bratislava, Slovak Republic) Dr. Suresh Tyagi (Louisville, USA) Ursula Muller Werdan (Halle, Germany) Ferenc Gallay Jr. (Pecs, Hungary)

Distinguished Leadership Award

2013 Elizabeth Roth (Pecs, Hungary) Karl Werdan (Halle, Germany) Salim Yusuf (Hamilton, Canada) Otoni Gomes (Belo Horizonte, Brazil)	2014 Suresh K. Gupta (New Delhi, India)
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Lifetime Achievement Award

2001 Jacques Genest Ruth Collins - Nakai (Edmonton, Canada)	2005 Newman Stephens (Winnipeg, Canada) Onkar Tripathi (Lucknow, India) Keld Kjeldsen (Copenhagen, Denmark) Bohuslav Ostadal (Prague, Czech Republic)	2006 Donald Beanlands (Ottawa, Canada)	2009 Stig Haunso (Copenhagen, Denmark) Jay Cohn (Minneapolis, USA)
2010 Jan Slezak (Bratislava, Slovak Republic) Elizabeth Roth (Pecs, Hungary) Otoni Gomes (Belo Horizonte, Brazil)	2011 Keyur Parikh (Ahmedabad, India) Ramesh Goyal (Vadodara, India) Dr. Belma Turan (Ankara, Turkey)	2012 Dr. Yogendra K. Gupta (New Delhi, Canada) Dr. Noburakira Takeda (Tokyo, Japan)	2013 Dr. Irving Joshua (Louisville USA) Dr. Otoni M. Gomes (Belo Horizonte, Brazil)

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Dr. Alexandre Fabiato Richmond, USA	Dr. Claude Lenfant Gaithersburg, USA	Dr. Wolfgang Schaper Bad Nauheim, Germany	
Dr. Keith D. Garlid Beaverton, USA	Dr. Bohdan Lewartowski Warsaw, Poland	Dr. Wolfgang Schulze Berlin, Germany	

COUNTDOWN TO OPENING

The Canadian Museum for Human Rights Will Open September 20, 2014 in Winnipeg, Manitoba



Photo by Al Dueck

The Canadian Museum for Human Rights (CMHR), Canada's new national museum, will open its doors to the public on September 20, 2014. This architectural twist of glass, stone, concrete and steel, designed by world-renowned architect Antoine Predock, is now a permanent fixture on the downtown Winnipeg skyline.

The Canadian Museum for Human Rights is the first museum solely dedicated to human rights. It is the first national museum to be built in nearly half a century, and it is the first to be built outside of the National Capital Region.

The museum is dedicated to the evolution, celebration and future of human rights. The CMHR will use digital technology, oral histories, first-person accounts, artefacts, theatre, film, art and photography to educate people about the struggle for human rights around the world.

It was Izzy Asper's longstanding dream to build this national museum. When Asper passed away suddenly in 2003, his daughter Gail picked up his dream and made it a reality.

The CMHR will inspire and empower visitors to become human rights champions. The museum is committed to building a better human rights future for everyone.

A statue of Mahatma Gandhi was donated to the CMHR by the Government of India as conceived at a meeting with the Aspers, Ivan Berkowitz, Heart Health Scholar and renowned Winnipeg Cardiovascular Scientist, Dr. Naranjan Dhalla. It was installed on "The Path to Human Rights", Mahatma Gandhi Way, a portion of York Avenue leading to the CMHR.

"Speaking on behalf of the Indian community, I take special pride in knowing that there will be a street named to recognize a great man who is internationally known as a symbol of human rights and non-violence," said Dr. Dhalla. "Many large cities in North America have streets named for Mahatma Gandhi and I would like to commend the Mayor and members of Council for having the wisdom and vision to designate a Winnipeg street in his honour."

(Article adapted from: <http://www.humanrights.ca>, <http://www.theforks.com/attractions/at-the-forks/canadian-museum-human-rights>, http://winnipeg.ca/cao/media/news/nr_2013/nr_20130815.stm#1)

ANNOUNCING

Current Research: Cardiology | *Experimental Clinical*

It gives me a great pleasure to announce the launch of a new peer-review publication: *Current Research: Cardiology*.

This Canadian/international publication will launch in September and will serve as the official journal of the International Academy of Cardiovascular Sciences.

Pulsus Group has a long and distinguished history of publishing peer-review cardiology journals. *The Canadian Journal of Cardiology* was launched more than 30 years ago and, by the time the *Journal* was sold to the Canadian Cardiovascular Society, the Impact Factor for material published under the stewardship of the Editor-in-Chief, Dr Eldon Smith and Pulsus Group was greater than 3. The second Pulsus Group peer-review cardiology journal, *Experimental & Clinical Cardiology*, published for 18 years, under the Editorship of Prof. Bohuslav Ostadal, had strong editorial support and was indexed by both Thomson ISI and PubMed Central before it was moved to another Publisher in 2013.

The time has come to launch *Current Research: Cardiology*. Based on our history, we were able to once again secure an excellent Editorial Board, hoping to attract world-class papers, establish vigorous peer review and ensure wide dissemination (print and online) – all things at which Pulsus Group excels. The submission system is now open at www.currentresearch.com and a call for papers is in process. The premiere issue will be based on abstracts



from the 2nd Cardiovascular Forum for Promoting Centres of Excellence and Young Investigators in Winnipeg (September) PLUS manuscripts submitted before the June 20th deadline. In 2015, the *Journal* will be published quarterly with an objective of moving quickly to monthly publication.

All manuscripts submitted and accepted in 2014 will be published free of charge and each lead author will receive a print copy of the issue in which they are published. The mission remains constant – to publish, promote and disseminate the work of medical researchers in a manner that exemplifies the highest standards in research integrity.

Best regards,

Robert B Kalina,
Publisher
Current Research: Cardiology

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2nd Cardiovascular Forum for Promoting Centres of Excellence and Young Investigators

September 4 – 6, 2014

RBC Winnipeg Convention Centre • Winnipeg, Manitoba

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Faculty of Health Sciences, University of Manitoba
International Academy of Cardiovascular Sciences-North America, Winnipeg, Canada

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2nd Cardiovascular Forum for Promoting Centres of Excellence and Young Investigators

September 4 – 6, 2014

RBC Winnipeg Convention Centre • Winnipeg, Manitoba

Objectives of the Forum

The Cardiovascular Forum is being organized to:

- (i) Encourage the interaction of young investigators with established individuals to improve their training and develop highly qualified manpower in the fields of cardiovascular science, medicine and surgery;
- (ii) Exchange and blend biomedical and clinical information to emphasize translational knowledge for improving the therapy of heart disease;
- (iii) Promote research collaborations and establish linkages to carry out multi-disciplinary investigations for finding solutions to diverse cardiovascular problems;
- (iv) Facilitate interaction with industrial partners for cardiovascular technology development
- (v) Share the scientific and clinical experiences between South and North American investigators.

A Unique Opportunity for Young Investigators in Biomedical Sciences and Translational Medicine to:

1. Compete for 8 Best Poster Awards named in honour of Margaret P. Moffat and Morris Karmazyn.
2. Participate in Karl T. Weber and Dennis B. McNamara Oral Presentations by Young Scientists
3. Contest for James T. Willerson and Grant N. Pierce Awards Competition for Graduate and Postgraduate Fellows.
4. Attend Kern Wildenthal and Eric Olson Orations by Young Faculty Members.
5. Pay tribute to John McNeill and attend Distinguish Lectures by Cardiovascular Leaders in Genetics, Molecular Biology and Cardiac Regeneration.
6. Interact with the international Faculty of more than 130 highly respected and established investigators in the area of heart failure, hypertension, myocardial infarction, ischemic heart disease, arrhythmias, diabetes and atherosclerosis.
7. Engage in Special Scientific Sessions to promote Women's Heart Health and Canada/Brazil Postdoctoral Training Program.



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2nd Cardiovascular Forum for Promoting Centres of Excellence and Young Investigators

September 4 – 6, 2014

RBC Winnipeg Convention Centre • Winnipeg, Manitoba

Symposia Sessions

September 4th

5:00 – 7:00 PM	<i>Registration</i>
6:00 – 7:00 PM	<i>Yetta & Jack Levit Distinguished Lecture</i> Cardiovascular Genetics – A Glimpse of Medicine in the Future <i>Dr. Robert Roberts, Ottawa Heart Institute, Ottawa</i>
7:00 – 10:00 PM	<i>Welcome Reception</i> 1. Welcome Remarks (10 min) 2. Program Highlights (10 min)

September 5th

8:00 – 9:00 AM	<i>Breakfast and Networking</i>
9:00 – 10:30 AM	1. Thematic Symposium: Sudden Cardiac Death and Arrhythmias (4 speakers) 2. Grant Pierce Young Investigator Award Competition in Cardiovascular Science: Graduate Students and Postdoctoral Fellows (4 speakers) 3. Advances in Women Heart Health (4 speakers) 4. Canada-Brazil Postdoctoral Symposium #1 (4 speakers) 5. Poster Mentoring: Translational Medicine (Morris Karmazyn Award)
10:30 – 10:50 AM	1. Thematic Symposium: Cardiac Fibrosis and Heart Failure (4 speakers) 2. James Willerson Young Investigator Award Competition in Cardiovascular Medicine: Residents and Postgraduate Fellows (4 speakers) 3. Gender Difference in Heart Disease (4 speakers) 4. Canada-Brazil Postdoctoral Symposium #2 (4 speakers) 5. Poster Mentoring: Biomedical Sciences (Margaret P. Moffat Award)
12:20 – 1:40 PM	<i>Lunch Break and Distinguished Lecture - Who gets the Heart Attack</i> <i>Dr. Jagat Narula, Mount Sinai Medical Center, New York</i>
1:40 – 3:10 PM	1. Frontiers in Cardiovascular Science: miRNA in the Regulation of Cardiovascular Function (4 speakers) 2. Karl T. Weber: Presentations by Clinical Fellows and Residents (4 speakers) 3. Cardiovascular Complications in Obesity (4 speakers) 4. Canada-Brazil Postdoctoral Symposium #3 (4 speakers) 5. Poster Mentoring: Biomedical Sciences (Margaret P. Moffat Award)
3:10 – 3:30 PM	<i>Coffee Break</i>
3:30 – 5:00 PM	1. Pathophysiology and Therapy of Diabetic Cardiomyopathy (4 speakers) 2. Pathophysiology and Therapy of Hypertension (4 speakers) 3. Ischemia-reperfusion Injury and Preconditioning (4 speakers) 4. Signal Transduction in Heart Disease (4 speakers) 5. Poster Mentoring: Translational Medicine (Morris Karmazyn Award)
6:00 – 7:00 PM	<i>Presidential Address: Developments in Cardiovascular Science and Translational Medicine</i> <i>Dr. James Willerson, Texas Heart Institute, Houston</i>
7:00 – 10:00 PM	<i>Celebration Dinner – A Tribute to John H. McNeill</i>

September 6th

8:00 – 9:00 AM	<i>Breakfast and Networking</i>
9:00 – 10:30 AM	<ol style="list-style-type: none">1. Thematic Symposium: Cardiovascular Complications in Chronic Diabetes (<i>4 speakers</i>)2. Eric Olson Young Faculty (within 10 years of appointment) Orations in Cardiovascular Biomedical Sciences (<i>4 speakers</i>)3. Cardiac Remodeling and Heart Failure (<i>4 speakers</i>)4. Nutritional Strategies for the Prevention of Heart Disease (<i>4 speakers</i>)5. Poster Mentoring: Translational Medicine (<i>Morris Karmazyn Award</i>)
10:30 – 10:50 AM	<i>Coffee Break</i>
10:50 AM – 12:20 PM	<ol style="list-style-type: none">1. Thematic Symposium: Vascular Remodeling and Hypertension (<i>4 speakers</i>)2. Kern Wildenthal Young Faculty (within 10 years of appointment) Orations in Cardiovascular Medicine and Surgery (<i>4 speakers</i>)3. Myocardial Infarction and Acute Ischemic Syndrome (<i>4 speakers</i>)4. Cardiac Care and Patient Safety (<i>4 speakers</i>)5. Poster Mentoring: Biomedical Sciences (<i>Margaret P. Moffat Award</i>)
12:20 – 1:40 PM	<i>Lunch Break and Distinguished Lecture</i> – Cell Therapy for Ischemic Cardiomyopathy <i>Dr. Roberto Bolli, Institute of Molecular Cardiology, Louisville</i>
1:40 – 3:10 PM	<ol style="list-style-type: none">1. Frontiers in Cardiovascular Medicine: Stem Cells and Cardiac Regeneration (<i>4 speakers</i>)2. Dennis B. McNamara Symposium: Presentations by Biomedical Fellows and Students (<i>4 speakers</i>)3. Pathogenesis and Therapy of Atherosclerosis (<i>4 speakers</i>)4. Lifestyle Strategies for the Prevention of Heart Disease (<i>4 speakers</i>)5. Poster Mentoring: Translational Medicine (<i>Morris Karmazyn Award</i>)
3:10 – 3:30 PM	<i>Coffee Break</i>
3:30 – 5:00 PM	<ol style="list-style-type: none">1. Biomarkers and Risk Factors for Heart Disease (<i>4 speakers</i>)2. Molecular Biology of Cardiac Dysfunction (<i>4 speakers</i>)3. Pharmacotherapy of Ischemic Heart Disease (<i>4 speakers</i>)4. Cardiovascular Devices: Diagnosis and Treatment (<i>4 speakers</i>)5. Poster Mentoring: Biomedical Sciences (<i>Margaret P. Moffat Award</i>)
6:00 – 7:00 PM	<i>Distinguished Lecture</i> – Sex-based differences in cardiac tolerance to ischemic injury <i>Dr. Bohuslav Ostadal, Czech Academy of Sciences, Prague</i>
7:00 – 10:00 PM	<i>Banquet and Award Presentations</i>

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2nd Cardiovascular Forum for Promoting Centres of Excellence and Young Investigators

September 4 – 6, 2014 • Winnipeg, Manitoba

Faculty

(as of 06/24/14)



Devendra K. Agrawal has developed a multi-disciplinary research team at Creighton University, consisting of an interventional cardiologist, cardiothoracic surgeons, vascular surgeons, bariatric surgeons, interventional radiologists, vascular, gastrointestinal and liver pathologists and basic scientists to better understand the role of the immune system in regulating the pathophysiology of human diseases, focusing primarily on hypertension, atherosclerosis, intimal hyperplasia, in-stent restenosis, bypass vein-graft disease, myocardial infarction, metabolic syndrome and esophageal diseases. He has been working with a swine model of hypercholesterolemia and atherosclerosis since 1994 and has published numerous papers. In addition, he has conducted research on the molecular mechanisms of allergy, asthma, diseases of the GI tract, cancer and other human disorders. More than 34 graduates (including MD-PhD, PhD and MS students) have received training under his direct supervision and successfully completed their research programs on the role of immune response in regulating the pathophysiology of prevalent human diseases. He has perfected techniques for coronary intervention using balloon catheter and stent in the heart of hypercholesterolemic swine and developing MI and has also established the model of obesity with insulin resistance in atherosclerotic swine. He has vigorously studied the role of micronutrients, including vitamin D, as immunomodulators in hypertension, metabolic syndrome, cardiothoracic, vascular and esophageal diseases.



Courtney Jordan Baechler graduated from the University of Minnesota with a BA in Mathematics. She then went on to medical school, internal medicine residency, cardiology fellowship, and obtained a master's degree in epidemiology and public policy at the University of Minnesota. Leadership roles have included the national prevention committee for the American College of Cardiology (ACC) as well as the Minnesota Department of Health State Prevention of Cardiovascular and Stroke Committee. She has served as a consultant to the Statewide Health Improvement Plan and chair of the clinical work group for Minneapolis. She is an author of the Healthy Lifestyle Guideline for the Institute for Clinical Systems Improvement (ICSI). She is a preventive cardiologist and the executive sponsor of population health. She is currently Vice President of the Penny George Institute for Health and Healing and the chair of the prevention and wellness clinical service line at Allina Health.



Judit Barta is Assistant Professor at the Institute of Cardiology, University of Debrecen, Hungary. She graduated as an MD and obtained her PhD degree in Hungary. Following the completion of the TACTICS postdoctoral fellowship in Winnipeg, Canada, she was specialized in cardiology. Currently, she is practicing in Debrecen as an interventional cardiologist as well as is a principal inves-

tigator at the Department of Clinical Physiology, University of Debrecen. Her research is focused on myocardial remodeling in ischemia and heart failure. She is the Secretary Editor of the Hungarian cardiology journal.



Aruni Bhatnagar is a Smith and Lucille Gibson Professor of Medicine at the University of Louisville, Director of the Diabetes and Obesity Center at UofL, and Director of the American Heart Association Tobacco Regulation and Addiction Center. He is a graduate of Kanpur University, India and received his post-doctoral training at the University of Texas Medical Branch at Galveston. Dr. Bhatnagar is known for his pioneering work on the polyol pathway of glucose metabolism and how it is regulated by nitric oxide. His work has triggered the development of the new field, Environmental Cardiology.



Keshore R. Bidasee is Associate Professor (with 100% tenure) and Director of Graduate Education, Department of Pharmacology and Experimental Neuroscience (PEN), University of Nebraska Medical Center (UNMC), Omaha, NE. He attended the University of the West Indies, St Augustine, Trinidad, West Indies, where he earned his B.Sc and Ph.D in Analytical Chemistry. He also completed 24 credit hrs of Pharmacology/Physiology graduate course work. Bidasee completed his Post-doc with Dr. Henry R. Besch, Jr., Department of Pharmacology and Toxicology Indiana University School of Medicine from 1991 to 1994. He was an Instructor from 1994 to 1997. Bidasee has published 62 original research publications, 4 book chapters. In 2010, he was elected councillor of the Nebraska Physiological Society (NPS), and in 2012, President of NPS. Bidasee is on the Internal Advisory Board, Nebraska Redox Biology Center. He is a holder of one patent and one application pending. He is actively involved in Graduated and Professional teaching. His current research focuses on understanding diabetic complications and uses an array of biophysical, biochemical, gene therapy, molecular, imaging, transgenic/knockout and pharmacological approaches. His work over the years been funded by National Institute of Health, the American Diabetes Association, Edna Ittner Pediatric Foundation, UneMed Foundation and the University of Nebraska Medical Center.

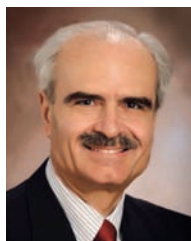


Ghassan Bkaily received his Ph.D. in Biophysics from the University of Sherbrooke in 1982. He then spent two years post-doctoral training in Physiology at the University of Virginia and the University of Cincinnati (Dr. Nick Sperelakis). In 1984, Dr. Bkaily joined the Department of Physiology and Biophysics of the Faculty of Medicine of the University of Sherbrooke as a professor. His research focuses on the role of crosstalk between plasma and nuclear membrane receptors and ionic transporters in cell health and disease of the cardiovascular system. He has held several positions, more spe-

cifically as Chairman of the Department of Anatomy and Cell Biology, Director of the CIHR Group in Cardiovascular Interactions, and Director of the FRQNT Team in Nuclear Membrane GPCR Receptors.



Antoinette Oliveira Blackman is a Clinical Cardiologist and specializes in Intensive Medicine. Blackman has Fellowship in the Sao Francisco de Assis Foundation Truth is Jesus in Belo Horizonte, Brazil. Her current research is about diastolic dysfunction and EKG QT dispersion. Blackman's mentor is Prof. Otoni Moreira Gomes.



Roberto Bolli graduated from the University of Perugia (Italy) in 1976. He completed a research Fellowship at the NHLBI (1978-80) and a clinical Fellowship in Cardiology at Baylor College of Medicine (1981-83). In 1983, he joined the Faculty at Baylor College of Medicine, where he rose to the rank of Professor with tenure. In 1994, he became Chief of the Division of Cardiology at the University of Louisville. He is also Director of the

Institute of Molecular Cardiology, Scientific Director of the Cardiovascular Innovation Institute, Executive Vice Chairman of the Department of Medicine, a Distinguished University Scholar, and the Jewish Hospital Distinguished Chair in Cardiology. Twice at two different institutions (Baylor and University of Louisville), Dr. Bolli developed a leading research program starting from zero.



Sue Boreskie is a Fitness, Recreation, and Wellness specialist with over 30 years of experience involving a wide range of projects and facilities. She has extensive knowledge of the operation of fitness/community/wellness facilities through her work at the University of Manitoba, the Wellness Institute, the Rady Jewish Community Centre, and the Reh-Fit Centre where she serves as CEO. Sue has acted as a consultant and resource expert on various projects

across Canada and internationally. She has served on the boards of numerous community and sport organizations, most recently Commonwealth Games Canada, Canada Games Council, Exercise is Medicine Canada Advisory Council, Manitoba Heart Health Think Tank, the Canadian Society for Exercise Physiology's National Health and Fitness Program, and the Advisory Board of the Health, Leisure, & Human Performance Research Institute. She has received many awards for her work, including the YM-YWCA's Women of the Year Award and the Queen Elizabeth II Diamond Jubilee Medal.



Debbie Brown has been the Chief Executive Officer of the Heart and Stroke Foundation of Canada in Manitoba since 2001. In addition to her daily responsibilities of managing a staff of 45 in Manitoba, Debbie is a Past Chair of the Partners in Planning for Healthy Living and is a member of the Alliance for the Prevention of Chronic Disease. In her role as a founding member and Co-Chair of the Primary Prevention Syndicate, Debbie is advocating

to the Winnipeg business community and provincial government to fund and support Manitobans in a 1% reduction challenge in the prevalence of the three main risk factors of smoking, inactivity and overweight/obesity, which over the next 15 years would save the Manitoba economy up to \$3.5 billion and reduce heart disease and stroke and other chronic disease by as much as 50%. Debbie received her R.N. Diploma from St. Boniface General Hospital, Winnipeg, and B.N. Degree and Masters of Health Education from the University of Manitoba. She began her nursing career

in Neurosurgery/Neurology at St. Boniface Hospital and then went on to teach at the St. Boniface School of Nursing. She was a Quality Assurance Auditor at the hospital until her career path led her to the Heart and Stroke Foundation of Manitoba. She was promoted to Director of Health Promotion and Research; a position she enjoyed until she became the Chief Executive Officer; a role she has embraced for the last 13 years.



Harpal Singh Buttar is a Veterinarian and also holds M.Sc. and Ph.D. degrees in Pharmacology as well as Fellowship in the International College of Nutrition. For over 41 years, Dr. Buttar worked as a Senior Research Scientist & Assessment Officer in the Therapeutic Products Directorate, Health Canada, 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, Canada. He was a Scientific Consultant to the Institute of Cardiovascular Sciences (ICS), Faculty of Medicine, University of Manitoba, Winnipeg. The Consultant's position is highly respected and valued by the ICS.



Sumeet S. Chugh is Director of the Heart Rhythm Center, Associate Director of the Heart Institute and holder of the Pauline and Harold Price Endowed Chair in Cardiac Electrophysiology at the Cedars-Sinai Medical Center, Los Angeles; and Professor of Medicine-in-Residence at UCLA. He is a clinical cardiac electrophysiologist and investigator, and his research program focuses on population-based approaches to mechanisms of sudden cardiac death. He founded, and continues to direct the Oregon Sudden Unexpected Death Study, ongoing since 2002.



Michael Czubryt earned his Ph.D. in Cardiovascular Physiology from the University of Manitoba in 2000 under the guidance of Dr. Grant Pierce. Following a postdoctoral fellowship under Dr. Eric Olson at the University of Texas Southwestern Medical Center at Dallas, Dr. Czubryt established the Molecular Pathophysiology Laboratory at the St. Boniface General Hospital Research Centre in late 2003. His research focus is on transcriptional control of gene expression in the heart, and the development

of therapies to prevent or reverse hypertrophy, failure and fibrosis.



Buddhadeb Dawn is the Maureen and Marvin Dunn Professor and Director of the Division of Cardiovascular Diseases at the University of Kansas Medical Center. He is a physician-scientist who divides time among research, education, and patient care. His research interests are primarily focused on adult stem cell biology and therapy.



Sanjiv Dhingra is an Assistant Professor in the Regenerative Medicine Program, University of Manitoba and Director of Canada Italy Tissue Engineering Laboratory (CITEL) at St. Boniface Hospital Research Centre, Winnipeg, Canada. Dr. Dhingra's research interests are focused on post-myocardial infarction cardiac regeneration and tissue engineering by stem cell therapy. Prior to joining as a faculty member in University of Manitoba,

Dr. Dhingra received postdoctoral training in McEwen Centre for Regen-

erative Medicine, Toronto General Hospital. Dr. Dhingra has published several papers in peer reviewed journals and presented his work at national and international conferences. He has received several awards based on his research. In October 2007, Dr. Dhingra received an award from Life Science Association of Manitoba for his contribution to cardiovascular research. Recently, he received Vivien Thomas Young Investigator Award at American Heart Association Scientific Sessions in Los Angeles.



Vernon Dolinsky is a Manitoba Institute of Child Health (MICH) Scientist and an Assistant Professor in the Department of Pharmacology & Therapeutics at the University of Manitoba since July 2011. Dr. Dolinsky is funded by grants from the Children's Hospital Foundation of Manitoba, Manitoba Medical Services Foundation, Manitoba Health Research Council, Heart and Stroke Foundation and the Canadian Foundation for Innovation.

He has 34 publications, including 19 in the past five years. Two of these original research articles have been recognized for originality and impact by awards by the American Heart Association (2010) and the University of Alberta-Francis X. Witkowski Award (2009).



Ross Feldman is the R.W. Gunton Professor of Therapeutics, Departments of Medicine and of Pharmacology and Physiology at the Robarts Research Institute at Western University. He is the author of more than 200 original manuscripts, reviews and book chapters. His clinical research focuses on the management of hypertension and specifically the development of innovative strategies to improve blood pressure control. His major fundamental research program focused on the elucidation of novel cell signalling mechanisms of vascular regulation/dysregulation linked to the development of hypertension and atherosclerosis. His laboratory has uncovered important mechanisms which may explain the basis for some of the benefits (and risks) of hormone replacement and more generally the effects of estrogen and other related hormones like aldosterone on cardiovascular function and on the development of heart disease. Among a range of editorial responsibilities, he is currently an Associate Editor for both the Canadian Journal of Cardiology and for the Canadian Journal of Physiology and Pharmacology.

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Tejal R. Gandhi is Professor and Head, Anand Pharmacy College, Anand, Gujarat, India. She is an academician with over 20 years of extensive experience in the areas of Pharmaceutical Research. She has successfully worked on 10 industry as well as Government-sponsored research projects. Her present areas of research include Herbal Drugs Evaluation (Cardiovascular, Nephrolithiasis, Inflammatory Bowel Disease and Ulcer and

Toxicological studies. She has recently been nominated as Fellow of International Academy of Cardiovascular Sciences (FIACS). Dr. Gandhi has, till date, mentored over 65 Post Graduate students and 6 Doctoral Fellows. She has published 82 Research Papers in International and National Journals covering various research aspects relating to pharmaceutical science.



Ricardo Jorge Gelpi is a full time Professor and Chair, Department of Pathology; Director, Cardiovascular Physiopathology Institute (www.fmed.uba.ar/infica); and Vicedean, Faculty of Medicine, Buenos Aires University, Argentina. He is past President of the International Academy of Cardiovascular Sciences – South America. Medical Training: School of Medicine, University of La Plata,

Argentina; Postdoctoral Training: New England Regional Primate Research Center, Harvard University, Boston, MA, USA.



Otoni M. Gomes is Cardiologist and Cardiovascular Surgeon, Scientific Director Sao Francisco de Assis Cardiovascular Foundation Truth is Jesus, President South America Section International Academy of Cardiovascular Sciences and Full Professor Cardiovascular Surgical Clinic University of Minas Gerais Medical School.



Ramesh Goyal is Distinguished Professor at L. M. College of Pharmacy, Ahmedabad, India. He was the Vice Chancellor, M. S. Uni. of Baroda; Professor and Head, L. M. College of Pharmacy, Ahmedabad, Director, ISF college of Pharmacy, Moga, Punjab. He has published 289 full papers, 18 books, 21 book chapters, 3 patents with 'h' index 28. He is recipient of 61 awards including Distinguished Service and Life Time Achievement Awards of IACS and a large number of research grants.

Achievement Awards of IACS and a large number of research grants.



Robert A. Grierson graduated from the University of Manitoba, Faculty of Medicine in 1994 and completed his specialty training in Emergency Medicine in 1999. In 2001, he joined the Winnipeg Fire Paramedic Service as an Associate Medical Director and later became the Medical Director in 2004. He serves as an Emergency Room physician at the Health Sciences Centre and as an Assistant Professor in the Department of Emergency Medicine, at the University of Manitoba.

partment of Emergency Medicine, at the University of Manitoba.



Madhu Gupta obtained her PhD under the guidance of Dr. Pawan Singal from the Department of Physiology, University of Manitoba, Winnipeg. She did her post-doctoral training at the University of Chicago with late Prof Radovan Zak, a well-renowned figure in the field of cardiac hypertrophy research. She then moved as an independent investigator at the Heart Institute for Children, Chicago where she directed the Pediatric Cardiology Fellowship Research program and mentored several fellows. She then moved to the University of Illinois Department of Physiology and Biophysics, currently appointed as an Associate Professor. Her research interests involve study of molecular regulation of pathological cardiac remodeling with particular emphasis on microRNAs, gene transcription and signaling mechanisms. She is running a very successful NIH supported research program and publishing in high impact journals such as JBC, JCI, Science Signaling and Nature Medicine.

such as JBC, JCI, Science Signaling and Nature Medicine.



Mahesh P. Gupta is Director of the Center for Cardiac cell Biology and Therapeutic and member of the Committee on Molecular Medicine and Pathology, at The University of Chicago. Main focus of his research is to define the role of class-III HDACs, also called sirtuins (SIRT1-SIRT7) in controlling the growth and death of cardiomyocyte during cardiac remodeling. Sirtuins are NAD dependent deacetylases, also termed

as longevity factors, and are implicated in regulation of many biological functions, including cell growth, apoptosis, metabolism and the aging process. Dr Gupta's laboratory is currently investigating whether sirtuins

play a role in maintaining mitochondrial morphology, miRNA synthesis and cell to cell communication.



Grant M. Hatch is a Canada Research Chair in Molecular Cardiolipin Metabolism and Professor in the Departments of Pharmacology & Therapeutics and Biochemistry & Medical Genetics at the University of Manitoba and the Director of the Center for Research and Treatment of Atherosclerosis and is Co-Director of the Diabetes Research Envisioned and Accomplished in Manitoba (DREAM) Theme at the Manitoba Institute of Child Health.

For over twenty years his laboratory has been focused on studying metabolism of cardiolipin - a key phospholipid involved in energy production in living cells. He is examining the role of cardiolipin in human and animal models of Barth Syndrome, Heart Failure and Type II Diabetes, as well as the role of cardiolipin in regulation of human blood brain barrier function.



Susan Howlett is Professor of Pharmacology and Geriatric Medicine at Dalhousie University. Originally from Montreal, she completed her PhD in Experimental Medicine at Memorial University, and a Postdoctoral Fellowship in Pharmacology at the University of Alberta, before moving to Dalhousie in 1989. Dr. Howlett is best known for her work on cardiac excitation-contraction coupling. She has discovered profound

differences in the way that male and female heart cells function and how this changes with age. Most recently her laboratory has pioneered the measurement of frailty with a "frailty index" in naturally aging animal models. The ability to quantify frailty in animal models is a major advance that promises to accelerate translation of basic mechanisms of cellular dysfunction in aging into meaningful clinical interventions.



Danielle Jacques obtained her Ph.D. in physiology in 1995 from University of Sherbrooke. She then spent three years postdoctoral training in neuropharmacology at McGill University (Dr Rémi Quirion). In 1998, Dr Jacques joined the department of anatomy and cell biology, Faculty of medicine and health sciences of University of Sherbrooke where she has been full professor since 2008. She obtained several awards including the Alfred B.

Grossman Award from the EJLB Foundation (Heart and Stroke Foundation of Quebec) and the George Fodor Feature Symposium Award from the Canadian Institutes of Health Young Investigator Forum. Since 2011, she has been editor-in-chief of "Revue Medicine Sciences Amerique". During the course of her career, Dr Jacques has published many papers and book chapters. Two of her papers are among the 10 most cited in the field of endothelin-1 and Angiotensin II. She is supported by the Canadian Institute of Health Research, Natural Sciences and Engineering Research Council of Canada and the Heart and Stroke Foundation of Canada and "Fonds de recherche du Québec- nature et technologies". Dr Jacques's research interests are in the implication of the peptides and their specific receptors in cardiac pathophysiology to elucidate endothelial dysfunctions in general and more specifically of the endocardial endothelium in hypertrophy and heart failure.



Steven P. Jones is an Associate Professor and University Scholar. Dr. Jones' laboratory is dedicated to understanding mechanisms of cardiac death and survival, subsequent remodeling processes, and strategies to repair the failing heart. In this regard, his laboratory has focused on understanding unique aspects of metabolism, par-

ticularly the hexosamine biosynthetic pathway (HBP). His laboratory has made key discoveries regarding the role of the HBP in heart failure, hypertrophy, and cell survival. His group's emerging studies are identifying novel mechanisms of the molecular regulation of HBP-dependent glycosylation, which will provide key contributions to investigators in multiple fields outside of cardiovascular disease.



Irving Joshua is a Professor and the current chairman of the Department of Physiology and Biophysics, School of Medicine at the University of Louisville, Louisville, Kentucky. He is involved in scientific research related to vascular and microvascular control mechanisms during normal and disease states. His recent research has been related to alterations in vascular control mechanisms with the development of both hypertension and diabe-

tes mellitus and the role of endothelial mediated vasoactive substances.



Elissavet Kardami obtained her PhD degree in muscle protein biophysics at King's College, University of London, UK, and trained as a cell biologist/protein biochemist during her post-doctoral studies at the Institute Pasteur, France and University of California, Berkeley. She started her independent career at the University of Manitoba in 1987, where she is currently a Professor in the Departments of Anatomy, and Physi-

ology. Dr. Kardami's research has focused on understanding the multiple functions of growth factors (FGF) in the heart, in health and disease. The ultimate goal is to tap beneficial activities of FGFs (cardioprotection, regeneration) while preventing undesirable effects (hypertrophy, fibrosis) for treating, managing heart disease.



Morris Karmazyn is a graduate of McGill University where he obtained both the MSc and PhD degrees. He is currently Full Professor of Physiology and Pharmacology at the University of Western Ontario. He is listed in both "American Men and Women of Science" and in the Canadian "Who's Who". He is the co-founder of the journal "Prostaglandins and Medicine" (currently titled Prostaglandins, Leukotrienes and Essential

Fatty Acids) and either has served or serves on the Editorial Boards of a number of journals. Karmazyn's research focuses on cardiac hypertrophy and heart failure, including the role of leptin, sodium-hydrogen exchange, arachidonic acid metabolites, as well as natural products such as ginseng and probiotics. He has over 200 publications in peer-reviewed journals and has edited 3 books. Dr Karmazyn has served as a member of many grant review panels for the Heart and Stroke Foundation of Canada, the Canadian Institutes of Health Research (CIHR) and the National Institutes of Health in the United States and has served as Chair of the CIHR Cardiovascular A committee. He has been invited to give lectures regarding his research all over the world and has received the Merck Frosst Award of the Pharmacological Society of Canada, the Vincenzo Panagia Award from the Institute of Cardiovascular Sciences of the St Boniface General Hospital Research Center, the Award of Excellence from the Faculty of Medicine at the University of Western Ontario, a Career Investigator Award from the Heart and Stroke Foundation of Ontario (HSFO) and is an Elected Fellow of the International Academy of Cardiovascular Sciences. He currently holds a Tier 1 Canada Research Chair in Experimental Cardiology. He is also the former Director of the Program in Heart Failure at the University of Western Ontario which was supported by the HSFO.



C.C. Kartha received his doctoral degree in Pathology from All India Institute of Medical Sciences, New Delhi in the year 1979. He has specialized in cardiovascular pathology and his current research interests are pathobiology of the endothelium in cardiac failure, discovery of biomarkers for vascular disease in type 2 diabetes and molecular basis for the pathogenesis of tetralogy of Fallot. He is chairman or a member of several

national and institutional committees as well as editorial boards of several journals. He is an elected Fellow of International Academy of Cardiovascular Sciences, National Academy of Medical Sciences (India), C.C. Kartha is Professor of Eminence, Disease Biology and Molecular Medicine and heads the Division of Cardiovascular Disease Biology at Rajiv Gandhi Center for Biotechnology, Trivandrum in south India.



Madhu Khullar is Professor at PGIMER, Chandigarh. Her current research interest is in genetics, epigenetics and functional genomics of cardiovascular diseases. She is on the editorial board of several international journals and has published more than 150 peer reviewed research articles till date. Professor, Department of Experimental Medicine and Biotechnology, Post Graduate Institute of Medical Education and Research

(PGIMER) Chandigarh, India.



Lorrie Kirshenbaum is the Director of Research Development, for the Faculty of Health Sciences, University of Manitoba; and holds a prestigious Canada Research Chair in Molecular Cardiology. He holds academic appointments as Professor in the Departments of Physiology and Pathophysiology; plus Pharmacology and Therapeutics. His research expertise extends to understanding molecular mechanisms that underlie

programmed cell death in the heart. Dr. Kirshenbaum is internationally recognized for his groundbreaking studies on cell death signaling pathways in the heart.



Frantisek Kolar is cardiovascular physiologist, Professor of Physiology at the Charles University in Prague and the Head of the Department of Developmental Cardiology at the Institute of Physiology, Academy of Sciences of the Czech Republic in Prague. His main research interest has focused on myocardial tolerance to acute ischemia/reperfusion injury of normal and diseased hearts and, in particular, on the mechanisms of sustained forms of cardioprotection induced by adaptation to chronic hypoxia or regular exercise.

mechanisms of sustained forms of cardioprotection induced by adaptation to chronic hypoxia or regular exercise.



Rakesh Kukreja is Eric Lipman Professor in Cardiology and Scientific Director of the Virginia Commonwealth University (VCU) Pauley Heart Center. He has done enormous amount of work in understanding the biochemical and molecular signaling pathways in the setting of ischemia/reperfusion injury, heart failure and doxorubicin-induced cardiomyopathy. Dr. Kukreja has published more than 176 research papers in many

high impact peer-reviewed journals and authored two books. He is on the editorial board of several reputable journals including Circulation Research, Molecular Pharmacology and American Journal of Physiology.

During his research career, he has received numerous prestigious awards in recognition of his research, which include a MERIT Award from the National, Heart, Lung and Blood Institute, VCU's Distinguished Scholarship Award, Virginia's Outstanding Scientist of the Year award, Norman Alpert Award from IACS and Ken Bowman award from the Institute of Cardiovascular Sciences, Winnipeg.



Charles (Chuck) LaFlèche is the President and CEO of St-Boniface Hospital Foundation. Before joining the Foundation, Chuck worked as a controller at a large credit union and a professor at a business college. He founded Momentum Healthware in 1995, a health informatics company with sales in Canada, the US, Asia and Europe. Chuck holds a B.A. from the University of Saint-Boniface (a University of Manitoba

affiliate), and a B. Comm. from the U of M. He became a Certified Management Accountant (CMA) in 1986, and was named a Fellow (FCMA) in 2001. Chuck serves on a number of IT and health related boards. In 2013, he was awarded the Queen's Diamond Jubilee Medal. Chuck co-hosts The Health Report, a weekly radio show on CJOB.



Frans H. H. Leenen is Professor of Medicine and Pharmacology, University of Ottawa Pfizer Chair in Hypertension Research and Director, Hypertension Unit University of Ottawa Heart Institute. Throughout his career, as a clinician-scientist, Dr. Leenen has integrated patient-care with both basic and clinical research. His CIHR supported research discovered novel neuromodulatory brain mechanisms contributing to cardiovascular

disease, in particular salt-dependent hypertension and heart failure.



Ren-Ki Li is a Professor of Medicine in the Department of Surgery, Division of Cardiac Surgery and a Full Member of the Institute of Medical Science, University of Toronto. He is a Senior Scientist at the Toronto General Research Institute, University Health Network. He is the recipient of the Canada Research Chair in Cardiac Regeneration (Tier 1). He has been on the forefront in the field of cell transplantation and

tissue engineering and currently focused on cardiac rejuvenation. Dr. Li has published 189 peer-reviewed papers.



Merry L. Lindsey is Director at the Mississippi Center for Heart Research. The center is dedicated to performing cardiovascular research that involves developing multidimensional approaches to examine the mechanisms whereby the left ventricle responds to injury; applying the knowledge gained to develop therapeutic strategies to prevent, slow, or reverse the progression to heart failure; and disseminating their results to

the general, scientific, and medical communities. Dr. Lindsey's research has led to more than 120 publications, and she has received grant support from the American Heart Association (AHA), the Voelcker Foundation, Novartis, the Veterans Administration, and the National Institutes of Health. Dr. Lindsey serves on the editorial boards for the American Journal of Physiology - Heart and Circulatory Physiology, the Journal of Molecular and Cellular Cardiology, and the Journal of Cardiac Failure. She has reviewed grants for the AHA, the Myocardial Ischemia and Metabolism (MIM) study section for NIH, and numerous international funding agencies.



Gary D. Lopaschuk is a Distinguished University Professor of Pediatrics at the University of Alberta in Edmonton. He is a Cardiovascular Researcher whose research focuses on the regulation of fatty acid oxidation in the heart, and the mechanism by which high rates of fatty acid oxidation contribute to heart disease and heart failure.



Naoki Makino graduated from Kyoto Prefectural University of Medicine in 1974. He was a Clinical Fellow of Cardiovascular Medicine at Kyushu University from 1975 to 1982. Makino was Postdoctoral Research Fellow of the Department of Physiology at the University of Manitoba from 1983 to 1985. He was Professor of Division of Molecular and Clinical Gerontology, Medical Institution of Bioregulation, Kyushu University

in 2011. He will be Emeritus Professor in 2025. Makino is a Fellow of the International Academy of Cardiovascular Sciences; as well as a member of the International Society of Heart Research, the Japanese Circulation Society and the Japanese Society of Balneology, Climatology and Physical Medicine. He resides in Oita City, Japan.



Bruce McManus is Professor, Department of Pathology and Laboratory Medicine, the University of British Columbia, Vancouver, BC, Canada. He serves as Co-Director, Institute for Heart + Lung Health, and CEO, Centre of Excellence for Prevention of Organ Failure (PROOF Centre). Dr. McManus studies mechanisms, consequences, detection and prevention of injury and aberrant repair in inflammatory diseases of

the heart and blood vessels. He has co-authored over 360 full-length peer-reviewed publications, and many chapters and books, and is co-holder of numerous patents. He has long been committed to mentoring scientific trainees.



Dennis B. McNamara received his doctorate under the mentorship of Dr. Naranjan Dhalla. He then joined the laboratory of Dr. William Weglicki at Harvard Medical School. Subsequently, he joined the faculty of the Department of Pharmacology at Tulane Medical School and rose to the rank of Professor. He has published 125 peer-reviewed manuscripts in the areas of calcium, prostaglandin, nitric oxide, homocysteine metabolism as

well as endothelial dysfunction in diabetes. He serves as Associate Editor on a number of scientific journals. Currently, he is President of the International Academy of Cardiovascular Sciences, North American Section.



John McNeil received his BSc and MSc from the University of Alberta and his PhD in Pharmacology from the University of Michigan (1967). He taught at Michigan State University before returning to Canada at the University of British Columbia in 1971. His current position is Professor and Dean Emeritus in the Faculty of Pharmaceutical Sciences. Dr McNeill's work over the past 35 years has concentrated on the cardiovascular problems associated with diabetes and their treatment. He has published about 500 manuscripts which have been quoted 14,000 times, his h-factor is 58. He is particularly proud of his trainees, 45 grad students, 23 post-docs and hundreds of undergraduate students. Dr McNeill has won awards for both

his teaching and his research over the years and has been recognized for his service to the Pharmacy profession and to the Canadian Heart Foundation. He has served on committees for granting agencies and as an executive member of national and international societies. He is an elected Fellow of the Royal Society of Canada, the Canadian Academy of Health Sciences and the International Academy of Cardiovascular Sciences.



Jawahar Mehta received his MD degree in India and PhD in Sweden. He is currently Stebbins Chair of Cardiology, Professor of Medicine and Physiology and Biophysics, Director of Molecular Cardiology at the University of Arkansas for Medical Sciences, Little Rock. Dr. Mehta serves on the editorial board of several major cardiology, physiology and pharmacology journals, including *Circulation*, *Hypertension*, *American*

Journal of Cardiology, *European Heart Journal*, *Journal of the American College of Cardiology*, and the *World Journal of Cardiology*. He is a member of many prestigious academic societies, including the Association of American Physicians, American Society for Clinical Investigation and Association of University Cardiologists. Dr Mehta's research on the biology of LOX-1, a receptor for oxidized low density lipoprotein, has opened a new target for cardiovascular therapy. He has taken this work from the identification of the receptor in human coronary endothelial cells, macrophages, platelets, and cardiomyocytes; its upregulation by mediators of atherosclerosis and tissue ischemia. He is an honorary professor in the University of Rome, an adjunct Professor in the Clinton School of Public School in Little Rock, AR, and serves as consultant to the University of Arkansas in nanotechnology.



Alan Menkis was appointed in September, 2004 as the Medical Director of the WRHA Cardiac Sciences Program and the Head of the Section of Cardiac Surgery, University of Manitoba. He was born and raised in Toronto, Ontario and began his career as a Dental Officer with the Department of National Health and Welfare at the Inuvik General Hospital, Inuvik, NWT between 1972 - 1974. He achieved an MD degree from

McMaster University in Hamilton and did postgraduate training in cardiovascular research, internal medicine, and surgery in Hamilton and Memorial University in Newfoundland. He received general surgical and cardiac surgical training at The University of Ottawa Heart Institute. He received advanced post fellowship training in mechanical circulatory assist devices in Ottawa and at the University of Utah, in Salt Lake City. His research interests include innovations in the treatment of valvular heart disease, mechanical circulatory assistance and more recently in robotic surgery. He has published extensively and has been the recipient of numerous research grants. He sat on the Clinical Trials Committee of the Canadian Institutes for Health Research and is a former associate editor with the *Journal of Heart and Lung Transplantation*. He is the former Chairman of Cardiac Surgery at the University of Western Ontario and the London Health Sciences Center. He has pursued an interest in Health Care Policy, Economics and Administration and participated in several programs most notably the prestigious Executive Program for Physicians and Health Care Leaders at Harvard University. He qualified in Human Performance in Military Aviation. Dr. Menkis is also the Chair of CHaRM (Cardiovascular Health Research in Manitoba) designed to bring cardiac researchers from different disciplines and institutions together. He is the Immediate Past President of the International Society for Minimally Invasive Cardiothoracic Surgery and Past President of both the International Society for Heart and Lung Transplantation and the Canadian Society for Transplantation. Since 2004, he has been a driving force in the province promoting innovation in cardiac patient care and safety, and is firmly focused on delivering world

class cardiac services, research, and education. In 2006 and 2008, Dr. Menkis chaired the Academy's "Forum on the Future of Heart Health"



Jordan D. Miller is Assistant Professor with joint appointments in the Department of Surgery and Department of Physiology & Biomedical Engineering at Mayo Clinic. His research program focused on understanding mechanisms contributing to aortic valve calcification, age-related cardiovascular stiffening, and mitral valve prolapse. Miller was recently awarded a new NIH grant for rapid drug repurposing in calcific aortic valve disease.

Currently, he is Chair of the Early Career Committee and Membership and Communications Committee for the American Heart Association's Arteriosclerosis, Thrombosis, and Vascular Biology Council.



Paras Kumar Mishra is Assistant Professor for the Department of Cellular and Integrative Physiology, UNMC, Omaha, United States. His specialization is MicroRNomics of heart failure. His major interest is to understand the mechanism of heart failure especially in diabetic set-up using innovative approaches such as miRNA and stem cells. The long term goal of his studies is to contribute to develop novel intervention tools to ameliorate cardiomyopathy.



Danina Muntean is Professor and Chair of the Pathophysiology Department at the University of Medicine and Pharmacy of Timisoara, Romania. She earned her PhD in Cardiovascular Pathophysiology in 2002 and she spent one year as postdoc in the INSERM unit run by Prof. Michel Ovize in Lyon, France. In the past years, Dr. Muntean established the Laboratory of Mitochondria Studies (2008), the Laboratory of Confocal Microscopy

(2012), the Laboratory of Molecular Biology (2013), and she proposed the foundation of the Center for Research in Translational Medicine within the University. The main research directions of her group are represented by cardiovascular protection and ageing with a special emphasis on the role of mitochondria as signaling end-effector and therapeutic target.



Jagat Narula is Professor of Medicine and Philip J. and Harriet L. Goodhart Chair in Cardiology, and the Director of Cardiovascular Imaging Program in the Mount Sinai's Zena and Michael A. Wiener Cardiovascular Institute and the Marie-Josée and Henry R. Kravis Center for Cardiovascular Health. He is the Associate Dean for Global Health at the Mount Sinai School of Medicine, New York.



Bohuslav Ošťádal, a Czech cardiovascular physiologist, was born on January 28, 1940. His university education began in 1957 at the Faculty of Pediatric Medicine of the Charles University in Prague, where he graduated in 1963. Since the very beginning, Ošťádal's main area of research has been focused on the ontogenetic development of heart structure and function. Already his early experimental studies on developing coronary circulation

belong to landmark papers in the field that achieved well-deserved attention. His laboratory was among the first to demonstrate the important ontogenetic differences in cardiac sensitivity to various pharmacological agents. In a series of papers he investigated developmental changes in myocardial responses to acute oxygen deprivation, mechanisms of increased ischemic

tolerance of the immature heart, and protective effects of preconditioning and chronic hypoxia. He has also been deeply concerned with late cardiovascular consequences of risk factors acting during early phases of ontogenetic development, the phenomenon known as fetal programming. Recently, he became particularly interested in differences of ischemic tolerance between hearts of males and females, the topic which appears to gain increasing attention of both experimental and clinical cardiologists.

Prof. Ošťádal has served as IACS President-Elect since 2011. He will commence his three-year term as President in September.



Grant N. Pierce has published over 200 research manuscripts and 7 textbooks on metabolism, nutrition and cardiovascular health. He completed postdoctoral training at UCLA before returning to Canada where he is Executive Director of Research at St Boniface Hospital and a Professor of Physiology at the University of Manitoba in Winnipeg. He is the Editor of the Canadian Journal of Physiology and Pharmacology.



Jose Carlos Dorsa Vieira Pontes is Professor of Cardiovascular Surgery at Federal University of Mato Grosso do Sul. He graduated in Medicine from the Federal University of Mato Grosso do Sul (1989), Specialist in Cardiology and Cardiovascular Surgery, Master in Cardiology & Cardiovascular Surgery, Cardiovascular Foundation of St. Francis of Assisi (1994) and PhD in Cardiology and Cardiovascular Surgery Foundation for

Cardiovascular St. Francis of Assisi (1998). He is currently Associate Professor at the Federal University of Mato Grosso do Sul, gazetted Member of Cardiovascular Surgery, Regional Hospital of Mato Grosso do Sul, Chief of Clinical Cardiology of the Evangelical Hospital in Mato Grosso do Sul, EX President of the Midwest Regional Brazilian Society of Cardiovascular Surgery and guiding Cardiovascular Foundation Saint Francis of Assisi. He has experience in the field of medicine, with emphasis on Cardiovascular Surgery, acting on the following subjects: cardiac failure miocárdica. Ex surgery and Head of the Department of Surgery (2005 -2009) Director General of the Center for University Hospital UFMS (2009 - 2013).



Amir Ravandi received his undergraduate degree, from University of Toronto and went on to complete a PhD at the Banting and Best Medical Research Institute at University of Toronto. He was at the Terrence Donnelly Vascular Research Labs at St. Michael's Hospital as postdoctoral fellow. After obtaining his MD at University of Toronto he went on to complete his internal medicine and cardiology training at McMaster University. He completed a fel-

lowship in coronary and peripheral vascular interventions at University of California at San Diego. He is currently on staff at St. Boniface Hospital as an interventional cardiologist. He is also an assistant professor of cardiology and physiology at University of Manitoba. He is a principal investigator at the Institute of Cardiovascular Sciences. His current focus is utilizing lipidomics to further our understanding of myocardial ischemia and plaque rupture.



Tanya Ravingerova is Head of the Department of Cardiovascular Physiology and Pathophysiology and Chair of the Institute of Heart Research, Slovak Academy of Science, Bratislava, Slovak Republic. Ravingerova is a member/council member of several international scientific societies including fellowship in IACS and member of the International Scientific Boards and Organizing commit-

tees of several scientific meetings. Ravingerova is author of 150 papers in scientific journals and book chapters. Her research interests include: protection of the ischemic myocardium, risk factors of cardiovascular diseases, molecular mechanisms of short-term and long-term endogenous cardioprotection, pleiotropic effects of drug therapy in healthy and diseased heart.



Kyndaron Reinier, a graduate of the University of California Berkeley School of Public Health, is a research scientist at Cedars-Sinai Medical Center, Los Angeles, CA, and lead epidemiologist for the Oregon Sudden Unexpected Death Study. Her primary research interests are in the intersection of public health and sudden death, including evaluation of the role of social factors such as socioeconomic status and race in sudden cardiac arrest, as well as improvement of risk prediction for sudden death in the population.



Robert Roberts is the Past President and CEO of the University of Ottawa Heart Institute and Founding Director of The Ruddy Canadian Cardiovascular Genetics Centre, having been recruited from Houston, Texas where he was Chief of Cardiology at Baylor College of Medicine. As a cardiologist, educator and scientist, he developed the MCBK Test which has been used to diagnose heart attacks for the past three decades. Dr. Roberts' research led him to molecular biology and genetics and the discovery of many genes responsible for heart disease. Dr. Roberts is generally regarded as one of the founders of molecular cardiology. Recently elected to the Royal Society of Canada, following a prolific career as a cardiologist, educator and scientist, having published over 890 articles. He received many awards, including: McLaughlin Medal from the Royal Society of Canada; Albrecht Fleckenstein Memorial Award; Citation for Highly Cited Researcher from ISI Thomson Scientific; Research Achievement Award from the Canadian Cardiovascular Society; and the Distinguished Scientist Award from the American College of Cardiology.



Delfin Rodriguez is an Associate Professor in the Department of Internal Medicine in Holguin University of Medical Sciences, Cuba and a Cardiologist and Critical Care Physician at Holguin University Hospital, serving also as Head of the Cardiovascular Research Division. He received his MD from the University of Medicine of Santiago de Cuba in 1996 and followed with residences in Cardiology and Intensive Care Medicine at the University of Holguin. He obtained his PhD degree in Cardiovascular Research in 2004 from the High Institute of Medical Sciences of Havana. He has been on faculty at Holguin University of Medical Sciences since 1997. Dr. Rodriguez Leyva is the designer of the Cuban National Network of Cardiology. He has been awarded with special distinctions from the Ministry of Public Health and Higher Education of Cuba. He is recipient of the Visiting Scientist Award from Heart and Stroke Foundation of Canada and the Vincenzo Panagia Distinguished Lecture Award, presented by the Institute of Cardiovascular Sciences at St. Boniface Hospital Research Centre in 2013. During the last few years he has been working as Associated Researcher at St Boniface General Hospital Research Centre with the team of Dr. Grant N. Pierce in the field of nutrition as vehicle for cardiovascular translational research and clinical trials. His current clinical research interests include: omega-3 fatty acids, peripheral arterial disease, cardiac arrhythmias, hypertension and atherosclerosis. His work has been published extensively. He is currently the supervisor of five PhD graduate students. Dr. Rodriguez Leyva is member of the Cuban Academy of Sciences and received the 75th anniversary medal from the Cuban Cardiology Society in 2013.



Hani N. Sabbah is tenured Professor of Medicine at Wayne State University in Detroit, Michigan and the Director of Cardiovascular Research for the Henry Ford Health System in Detroit, Michigan. Dr. Sabbah is a Visiting Professor of Medicine at Columbia University in New York. He received his Bachelor of Science degree in aerospace engineering from the University of Oklahoma and his Doctorate in Biomedical Sciences and Medical Physics from Oakland University. The Cardiovascular Research Laboratories at Henry Ford Health System function as a multidisciplinary center fully focused on understanding the pathophysiology of heart failure and on the development and testing of novel therapeutic modalities for the treatment of this disease syndrome. He is the author of over 25 book chapters, over 400 peer reviewed publications and over 600 abstract presented at national and international scientific conferences. Dr. Sabbah is the 2009 Program Co-Chair of the American College of Cardiology and a member of numerous other local, state, national and international executive and scientific committees on cardiovascular disease and heart failure. He is the recipient of the 2005 American Heart Association Seymour Gordon Award for Distinguished Achievement and 2002 Crain's Detroit Business Award for Advancement in Health Care. Dr. Sabbah is member of the editorial board of several peer-reviewed scientific journals and is the Co Editor-in-Chief of the journal Heart Failure Reviews.



Richard (Rick) Schulz is a cardiovascular pharmacologist who studies the role of matrix metalloproteinases (MMPs) in effecting oxidative stress injury to the heart and blood vessels. He is interested in the pathophysiology of ischemic heart disease, heart failure and septic shock and has found that MMP inhibitors may be next generation therapies for their treatment.



Stephen Schaffer is presently Professor of Pharmacology at the University of South Alabama, where he has held the position for 33 years. His present research focuses on the mechanism underlying the actions of taurine, a beta-amino acid found in very high concentrations in the heart. Taurine is necessary for normal myocardial function, as deficiency leads to elevated cell death and a shortening of lifespan.



Nisar A. Shaikh is a retired Professor from University of Toronto. He had been associated with the Institute of Medical Sciences, Department of Medicine, and Dept. of Laboratory Medicine and Pathobiology. He holds MD and PhD and MBA degrees and is currently an Emeritus Premium Professional Fellow of the AHA. He has been working in the area of lipids since 1965 and has 143 publications including 3 book chapters.



Vijay Sharma is a Specialist Registrar in Histopathology. His cardiovascular research interests are in adrenergic signaling in the diabetic heart. He has been published on the topic of hypertension in the metabolic syndrome. Dr. Sharma has worked at the British Medical Journal Evidence Centre, where he has been in the development of clinical decision support tools and the integration of pathophysiology into the approaches of Evidence-based medicine.



Farah Sheikh obtained her PhD in Physiology at the University of Manitoba, Canada under the mentorship of Drs. Peter A. Cattini and Elisavet Kardami. She was recruited as a postdoctoral fellow by Drs. Ju Chen and Kenneth Chien at the University of California-San Diego (UCSD) in La Jolla, CA, USA. Sheikh successfully obtained Canadian and USA postdoctoral fellowship awards from the Canadian Institute of Health Research/Heart and Stroke Foundation and American Heart Association (AHA) for her postdoctoral training. The impact of her studies led to several high impact publications and honors including the AHA Laverna Titus Young Investigator Awards, UCSD Schulman Award for Outstanding Cardiovascular Research, Badge of recognition by Faculty 1000 and being selected as a finalist for the prestigious AHA Louis N. and Arnold M. Katz Basic Research Prize. She was recruited as faculty to the Department of Medicine at UCSD in 2009 and is currently an Associate Professor.



Pawan K. Singal is a professor of Physiology and is Director of the Institute of Cardiovascular Sciences, St. Boniface Hospital and the University of Manitoba, Winnipeg, Canada. Dr. Singal completed his Ph.D. in Physiology in 1974 from the University of Alberta. Received D.Sc. degree in 1994 in Cardiovascular Pathophysiology. He served as Associate Dean for the Faculty of Graduate Studies, University of Manitoba. He is also holder of the Naranjan S. Dhalla Chair established by the St. Boniface Hospital & Research Foundation. Internationally known for his work on oxidative stress and heart failure, Dr. Singal has made significant contributions in our understanding of the role of cytokines and innate signaling in the sequelae of heart failure due to doxorubicin, chronic pressure overload as well as myocardial infarction. He has published 260 papers, has co-edited 30 books and trained more than 100 students, fellows and visiting scientists. Dr. Singal has received more than 80 national and international awards/recognitions. The University of Manitoba has established an award in his name called 'Pawan K. Singal Award for Graduate Students in Cardiovascular Sciences'. His name has been added to the Wall of Fame in the University Centre at the University of Manitoba recognizing his outstanding teaching skills and research.



Jaipaul Singh was born in Guyana in 1946 where he did his undergraduate studies. He moved to the United Kingdom in 1974 to do his PhD at St Andrews University in Scotland. After 5 years as a postdoctoral research fellow, he moved to the University of Central Lancashire in Preston, UK in 1984 where he now works as a Professor of Physiology and Research Degree Tutor. He has published over 225 papers on diabetes mellitus and related areas. His main

interest is on cardiac fibrosis and cardiomyopathy. He supervised successfully over 55 postgraduate students and examined another 50 research students.



Dinender Singla received his B.Sc. and M.Sc. degrees from Punjabi University, Patiala, India and his Ph.D. from the Post Graduate Institute of Medical Education and Research, Chandigarh, India. He held post-doctoral fellowship positions in different Universities in Canada. He was joined as a tenure track Assistant Professor of Medicine at the University of Vermont in 2004. His current position at the University of Central Florida is a Professor of

Medicine. His major area of research is related to stem cells, heart failure, diabetes, inflammation and cardiac regeneration. He is continuously serving to review the grants for various NIH, AHA, ministry of Italian health, and

Hong Kong study sections. He is an Academic Editor for PLoS one, Associate Editor for Canadian Journal of Physiology and Pharmacology as well as he is serving on the Editorial board member for different journals such as American Journal of Physiology: Heart and Circulatory. He is a reviewer for different journals. He served as a chair for various scientific sessions throughout the world. He has also organized a scientific conference. He is an author or coauthor 70 peer reviewed papers and 40 published abstracts.



Jan Slezak is a distinguished scientist and experimental cardiologist was born in Bratislava in May 1940. After his graduation at the Faculty of Medicine of the Comenius University in Bratislava in 1963, he joined the research team and continued his postgraduate education at the Institute of Experimental Surgery Slovak Academy of Sciences (SAS) that was later transformed into the Institute for Heart Research (IHR) SAS. He got his PhD degree in 1968

and established a laboratory and later a Department of electron microscopy and histochemistry of the IHR SAS which he had been chairing for many years. The scientific career of professor Jan Slezak, has been always very closely connected with the institute where he has been appointed a director of the IHR in 1988. He remained in this position until 1998 when he was elected a member of the Presidium of SAS and served as the First Vice-President of SAS until June 2009. In addition to his important positions in the research institutions, prof. Slezak was always involved in teaching at the university and in 1986 he got the highest scientific DSc. He has been very active for more than 45 years teaching anatomy, histology, physiology and pathophysiology at the Faculty of Medicine of the Comenius University in Bratislava where he was appointed a Full Professor of Normal and Pathological Physiology in 1996. In 2008 he was awarded the degree of D.h.c. at the University of Zilina. Except teaching numerous pre-graduate students, he has been a mentor and supervisor of more than 20 PhD students that became reputable and recognized scientists. The main area of his research interests has been focused on the topics of experimental cardiology and functional morphology, with particular regards to problematics of myocardial ischemia, cardiac heterogeneity and adaptability and, in particular, to subcellular mechanisms of myocardial adaptation and remodeling. He has been deeply involved in the studies investigating the role of reactive oxygen species in the mechanisms of cardiac injury and some aspects of cardioprotective phenomena, e.g., ischemic preconditioning. During his life-long scientific career he has published more than 550 papers, 8 scientific books and 5 text-books. He has delivered many invited lectures at national and international conferences, universities and institutions, during his numerous study stays abroad (e.g., in Moscow, Leningrad, New York, Los Angeles, Winnipeg, Berlin, Bad Nauheim, Rotterdam, etc.). He was working as a visiting professor in the area of cardiac protection at UCLA, Mount Sinai Medical School New York and at the University of Manitoba for more than 4 years. He is a member of several scientific boards of the research institutions and universities, and a member of Editorial Boards of 8 journals. He has been honored with numerous important awards and distinctions from the scientific societies in recognition of his achievements and services, including: The personality of the SAS, one of the most prestigious national awards – Crystal Wing, the State Order of merit granted by the President of Slovakia: State Order of merit of Ludovit Stur I. category, Medal of Merit from the Manitoba University, Winnipeg, Canada, Honorary citizenship of the city of Winnipeg, Canada, Norman Alpert Award for established investigators in cardiovascular sciences.



Ashok K. Srivastava is a Professor at the Department of Medicine, Université de Montréal, and Director, Laboratory of Cell Signaling at the Research Center of the Centre hospitalier de l'Université de Montréal (CRCHUM). His area of study includes vasoactive peptide and reactive oxygen species-induced signaling pathways in vascular smooth muscle cells, and their role in inducing vas-

cular remodeling in hypertensive and insulin resistant states. He has over 100 publications in area of insulin, vasoactive peptide, redox signaling, and cardiovascular complications. He is currently a member of the editorial boards of Indian Journal of Biochemistry and Biophysics, Molecular and Cellular Biochemistry, Recent Patents on Endocrine, Metabolic and Immune Drug Discovery and World Journal of Pharmacology. Dr. Srivastava serves or has served on the grant review panels of the Canadian Institutes of Health Research, the Heart and Stroke Foundation of Canada and the National Institutes of Health.



tricular fibrillation and pulseless electrical activity.

Carmen Teodorescu is a Project Scientist at The Heart Institute, Cedars-Sinai Medical Center. She is a clinician-scientist with a strong interest in prevention of sudden cardiac death and has worked with the Oregon Sudden Unexpected Death Study since 2008. Dr. Teodorescu's research focus is investigation of the risk factors and mechanisms associated with presenting arrhythmia at the time of cardiac arrest such as ventricular fibrillation and pulseless electrical activity.



electrophysiology research laboratory at the cellular level in Turkey. Her main scientific interest is focused on the underlying mechanisms of diabetic cardiomyopathy including the role of oxidative stress and alterations in intracellular ion homeostasis in cardiomyocytes. She worked as a visiting professor and researcher in France (INSERM) and Canada for several times for several periods. She developed a couple of international collaborative research projects and organized international workshops and symposium. Currently, she is directing several research projects and graduate students in the department of Biophysics in Ankara University.

Belma Turan is Professor and Head of Biophysics Department at the Ankara University, School of Medicine, Turkey. She obtained her BS in Physics (1976) at the Middle East Technical University and her PhD (1982) at the University of Ankara School of Medicine, and she has been full professor since 1993 in the department of Biophysics. Her research interest is in the field of Cardiovascular Sciences. She set up a first high-tech



explored the dynamics of molecular biology of metalloproteinase homeostasis in cardiovascular remodeling in several post-doctoral fellowships (1984-1991). He was an assistant professor of medicine and biochemistry at University of Missouri-Columbia (1992-1996); and associate professor (1998-2003) University of Mississippi Medical Center. Currently, he is professor at University of Louisville. He has published been published in numerous journals such as American J Physiology, Circulation, J Biol Chem; Biochemistry, J Mol Cell Cardiology and various biomedical science journals. Dr. Tyagi is member of honored societies such as the APS, ISHR, and AHA where he has served in various capacities. He has served on NIH study section committees. Currently, he is regular member of NIH-MIM study section. He is on editorial board of AJP, JMCC, Clin & Exper Hypertension, and Mol Cell Biochemistry. He has won numerous awards and honors from AHA and APS. He has been supported by national funding through out his research career. He is co-investigator on several NIH funded grants. He has published more than 190 research ar-

Suresh C. Tyagi is Professor of Physiology & Biophysics, University of Louisville, Louisville, Kentucky; Stodghill Endowed Chair in Biomedical Sciences, University of Louisville, Louisville, Kentucky; and Vice Chair for Research, Physiology & Biophysics, University of Louisville, Louisville, Kentucky. Dr. Tyagi's research career began as a biophysical scientist during his graduate and post-graduate training in India and Ireland. His career

ticles in peer-reviewed journals. He has chapters in more than 50 books. He has been an invited speaker at more than 60 institutes and presented more than 200 research papers. Dr. Tyagi has consistently pursued a research program aimed at elucidating the role of metalloproteinase in cardiovascular disease and stroke. His work has impacted our view of metalloproteinase in cardiovascular remodeling and dysfunction. His research has great significance for many diseases. He has trained many students, post-doctoral fellows and faculty to the levels of excellence in science.



reserve; the contribution of the transient outward potassium current (Ito) to repolarization reserve; the proarrhythmic potential of the sodium-calcium exchanger in cardiac tissue.

András Varró – Research interests: Cardiovascular pharmacology; cellular and molecular studies of cardiac potassium channels; myocardial repolarization; mode of action of amiodarone and new antiarrhythmics; proarrhythmic mechanisms. Most important discoveries: Recognition of the use dependent sodium channel inhibition of amiodarone; the role of slow delayed rectifier potassium current (IKs) in cardiac repolarization



ores are the Research Career Developmental Awards, the Scissors Award, Physician of the Year Award, and distinguished professorships. Dr. Villarreal's basic and clinical research, which has been funded by NIH, AHA and VAH, is concerned with neurohormonal mechanisms in cardio-renal integration in heart failure and hypertension.

Daniel Villarreal is a Professor of Internal Medicine and Cardiology at SUNY Upstate Medical University in Syracuse, New York. He served his Residency in Internal Medicine and his Cardiology Fellowship at Barnes-Jewish Hospital in St. Louis, Missouri. Dr. Villarreal is a member of several distinguished professional societies, and currently President of the Southern Society for Clinical Investigation. Among his multiple honors



institutes of Health's Artificial Heart Program, he completed his residency in internal medicine and fellowship in cardiology at the University of Alabama College of Medicine at Birmingham. Dr. Weber joined the Department of Medicine, Cardiovascular-Pulmonary Division, at the University of Pennsylvania as Assistant Professor in 1974, later becoming tenured Associate Professor of Medicine and Director of the Cardio-Pulmonary Research Laboratories. In 1983 Dr. Weber was appointed Director of the Cardiology Division and Cardiovascular Institute of the Michael Reese Hospital and Medical Center and Harold H. Hines, Jr. Professor of Medicine at the University of Chicago. He joined the University of Missouri Health Sciences Center in 1990 serving as Chairman of the Department of Internal Medicine and Director of the Division of Cardiology through 1997. Dr. Weber's research interests (NIH-funded since 1974 through 2014) have focused on heart failure, its pathogenic origins, pathophysiologic expressions and therapeutic interventions. Among his many scientific contributions that have advanced the practice of medicine is his pioneering work on the relevance of the heart's extracellular matrix and mechanisms responsible for cardiac fibrosis and the dyshomeostasis of macro- and micronutrients in congestive heart

Karl T. Weber is the Neutron Stern Professor of Cardiovascular Medicine and Director of the Cardiology Training Program of the Division of Cardiovascular Diseases at the University of Tennessee Health Science Center. He received his undergraduate degree from Moravian College and his medical degree from Temple University School of Medicine, where he also completed his internship. After a 2-year stay at the National

failure. Dr. Weber is an avid writer with over 600 publications. He has been serving on US and international scientific advisory and editorial boards. He was elected president of the: Central Society for Clinical Research (1995–96); International Society for Heart Research, North American Section (1997–2000); International Academy of Cardiovascular Sciences/North America (IACS/NA) (2005–09); and Southern Society for Clinical Investigation (SSCI) (2011–12).



James T. Willerson is the President, Director of Cardiology Research, Co-Director of the Cullen Cardiovascular Research Laboratories at the Texas Heart Institute (THI), and Adjunct Professor of The University of Texas HSC in Houston. He served as President of The University of Texas Health Science Center in Houston (UTHSCH) from 2001–2008, and he has recently retired as the Edward Randall III Professor of Internal Medicine at The UT Medical School at Houston. He holds the Dunn Chair in Cardiology Research at THI, the Willerson/O'Quinn Chair at THI, the "James T. Willerson, MD Distinguished Chair in Cardiovascular Diseases" at The UT Southwestern Medical School in Dallas, and has a swimming scholarship named for him at UT Austin. Dr. Willerson is a Phi Beta Kappa graduate of UT Austin, was a four-year swimming letterman, a member of the Texas Cowboys of UT Austin, an AOA graduate of the Baylor College of Medicine, and he received his post graduate training at Harvard Medical School (HMS) and the Massachusetts General Hospital (MGH) in Boston. Dr. Willerson is a member of the Institute of Medicine of the National Academy of Science. As the longest-serving Editor-in-Chief of *Circulation*, journal of the AHA, his tenure lasted 11 years. In addition to having served on numerous editorial boards for professional publications, he has edited or co-edited twenty-five textbooks, including his signature textbook, the Third Edition of *Cardiovascular Medicine*, released in February of 2007, and he has published over 980 scientific articles in major journals. Dr. Willerson has served as visiting professor and invited lecturer at more than 260 institutions worldwide. Included in his many awards are the "James B. Herrick Award" from the American Heart Association (AHA) in 1993; the American College of Cardiology's Distinguished Scientist Award in 2000; the Distinguished Achievement Award from the Scientific Councils of the AHA in 2002; and the AHA's Distinguished Scientist Award in 2003. He was the recipient of the Gold Heart Award, the AHA's highest award, in April 2005. He has been elected a Fellow in the Royal Society of Medicine of the United Kingdom and made an Honorary Member of ten foreign Societies of Cardiology. He is a member and past President of the Paul Dudley White Cardiology Society at HMS and MGH. In June of 2004, Dr. Willerson received the Medal of Merit for Distinguished Achievements in Cardiovascular Sciences by the International Academy of Cardiovascular Sciences. In 2005, he received the "Lifetime Achievement Award" presented at the 17th Annual Transcatheter Cardiovascular Therapeutics (TCT) Scientific Symposium on behalf of the Cardiovascular Research Foundation in Washington, DC. In 2006, Dr. Willerson received the Libin Award in Cardiovascular Research in Alberta, Canada; the "Living Legend Award" for achievement in cardiovascular research from the 16th World Congress of the World Society of Cardiothoracic Surgeons in Ottawa, Canada, and the "Most Outstanding Cardiologist, 2006" award from the Cardiovascular Society and Medical School of Shanghai, China. He received the Katz Research Prize from Columbia University College of Physicians and Surgeons, New York City, New York, 2007. From 2009–2010, he served as President of the Board of the American Heart Association, Houston, Chapter. The James T. Willerson Distinguished Chair in Cardiology was named in his honor at the Institute of Molecular Medicine for the Prevention of Human Disease at The University of Texas Health Science

Center at Houston, 2009. In June of 2009, he was elected to The University of Texas Hall of Honor for accomplishments in varsity swimming from 1957–1961 and for ongoing professional contributions in the field of medicine. In September of 2009, he received the Ray C. Fish Award from Texas Heart Institute for "An individual whose endeavors have made significant contributions to cardiovascular medicine or surgery." Dr. Willerson sees patients on a daily basis from a patient population of over 2,000. Dr. Willerson's research concentrates on the detection and treatment of unstable atherosclerotic plaques, and the discovery of the genes and abnormal proteins responsible for cardiovascular disease. In addition, Dr. Willerson and his colleagues have been directly involved in seminal research in the use of stem cells for the repair of hearts and cardiovascular vessels injured by heart attacks, and they are responsible for major discoveries and landmark publications. As a result of discoveries in his research, Dr. Willerson has been awarded 14 patents.

In 2011, Dr. Willerson was elected President of the International Academy of Cardiovascular Sciences based in Winnipeg, Canada, and he will serve until September 2014.

Carin Wittnich is a tenured Full Professor in the Departments of Surgery and Physiology at the University of Toronto, founding Director of the Cardiovascular Sciences Collaborative Program, and staff in the Division of Cardiac Surgery at The Hospital for Sick Children. Outside of the University, she is a founding Director and Senior Scientist of the Oceanographic Environmental Research Society. University awards include those for outstanding research and teaching and she is the recipient of the Order of Ontario and Queens Jubilee medals for her service to society.



Angel Zarain-Herzberg earned his M.D. and Ph.D., from the National Autonomous University of Mexico. Postdoctoral fellow in Dr. David H. MacLennan's lab., C.H. Best Institute, Univ. of Toronto (1985–87); and in Dr. Muthu Periasamy's lab., Dept. of Physiology, School of Medicine, Univ. of Vermont, Burlington (1987–90). Assistant Professor, Inst. Cardiovascular Sciences, Winnipeg (1990–96). Lines of investigation: 1) Regulation of the SERCA2 and Calsequestrin gene expression in the Heart; 2) Role of the expression of SERCA2 and SERCA3 genes in Cancer cells. Professor, Biochemistry Dept., School of Medicine, National Autonomous University of Mexico (1996–present).



Shelley Zieroth joined the Section of Cardiology at St. Boniface Hospital in July 2006. She is currently an Associate Professor at the University of Manitoba in the Department of Medicine, Section of Cardiology as well as Director of the Heart Failure and Heart Transplant Clinics. She currently holds the position of Head of the Medical Heart Failure Program for the WRHA (Winnipeg Regional Health Authority) Cardiac Sciences Program. She attended medical school at the University of Manitoba and went on to train in Internal Medicine and Cardiology at the same center. She completed her Post-Doctoral Clinical Fellowship specializing in advanced heart failure and cardiac transplant at the Toronto General Hospital. She is site principal investigator for several heart failure clinical trials, and an active member of the Canadian Cardiac Transplant Network and the Canadian Cardiovascular Society Primary Panel for Heart Failure Guidelines.



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