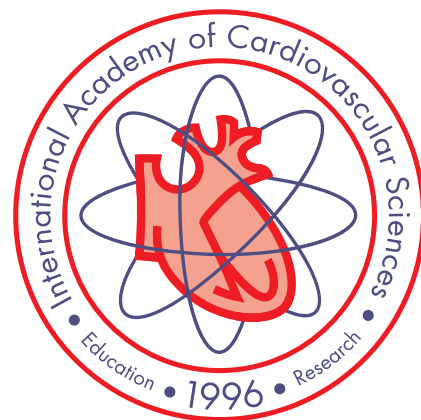


Promoting Cardiovascular Education, Research and Prevention

# 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

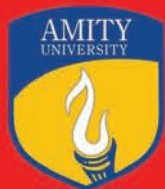


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September 10 – 12, 2015



## **Forthcoming Events of: International Academy of Cardiovascular Sciences (IACS) India Section**



### **7<sup>th</sup> International Conference on Recent Advances in Cardiovascular Sciences (RACS)**

**10<sup>th</sup>-11<sup>th</sup> March 2015 at Amity University, Noida**

**Please Contact: Prof. S.S. Agrawal, Secretary General, IACS-India Section  
Email: [ssagrwal@amity.edu](mailto:ssagrwal@amity.edu)**



### **International Conference of Heart Failure: Progress & Prospects**

**13<sup>th</sup>-14<sup>th</sup> March 2015 at Rajeev Gandhi Centre for Biotechnology, Kerala**

**Please Contact: Dr. Chandrasekharan Kartha, Prof. Of Eminence, RGCB  
Email: [cckartha@gmail.com](mailto:cckartha@gmail.com)**

## **INTERNATIONAL FACULTY**

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# IACS AWARD WINNERS

*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*

## Medal of Merit Recipients

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

- 1) Michael DeBakey: Houston, USA – 2001
- 2) Richard Bing: Pasadena, USA – 2001
- 3) Edwin Krebs: Seattle, USA – 2002
- 4) Robert Furchgott: Brooklyn, USA – 2002
- 5) Eugene Braunwald: Boston, USA – 2003
- 6) Robert Lefkowitz: Durham, USA – 2003
- 7) Sir John Vane: London, UK – 2004
- 8) James Willerson: Houston, USA – 2004
- 9) Sir Magdi Yacoub: London, UK – 2005
- 10) Robert B. Jennings: Durham, USA – 2005
- 11) Sir George Radda: Singapore – 2006
- 12) Victor Dzau: Durham, USA – 2006
- 13) Louis Ignarro: Los Angeles, USA – 2007
- 14) Sen Wilbert Keon: Ottawa, Canada – 2007
- 15) Jutta Schaper: Bad Nauheim, Germany – 2007
- 16) Nirmal Ganguly: New Delhi, India – 2008
- 17) Salvador Moncada: London, UK – 2008
- 18) Wolfgang Schaper: Bad Nauheim, USA – 2008
- 19) Howard Morgan: Winfield, USA – 2008
- 20) Ernesto Carafoli: Padua, Italy – 2009
- 21) Eric Olson: Dallas, USA – 2009
- 22) Arnold M Katz: Norwich, USA – 2010
- 23) Laszlo Szekeres: Szeged, Hungary – 2010
- 24) Jay Cohn: Minneapolis, USA – 2011
- 25) Salim Yusuf: Hamilton, Canada – 2011
- 26) Piero Anversa: Boston, USA – 2012
- 27) Laurentiu M. Popescu: Bucharest, Romania – 2012
- 28) Makoto Nagano: Tokyo, Japan – 2012
- 29) Roberto Bolli: Louisville, USA – 2013
- 30) Ferid Murad: Washington, USA – 2014

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

- 1) Chong-Chin Liew: Boston, USA – 2002
- 2) Bal K. Sharma: Haryana, India – 2003
- 3) Bruce McManus: Vancouver, Canada – 2004
- 4) Karl Weber: Memphis, USA – 2005
- 5) John Solaro: Chicago, USA – 2006
- 6) Agnes Vegh: Szeged, Hungary – 2007
- 7) Zoltan Papp: Debrecen, Hungary – 2011
- 8) David Lefer: Atlanta, USA – 2013

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

- 1) Jan Slezak: Bratislava, Slovak Republic – 2002
- 2) Bohuslav Ostadal: Prague, Czech Republic – 2003
- 3) N.K. Ganguly: New Delhi, India – 2004
- 4) K.K. Talwar: Chandigarh, India – 2005
- 5) Seiryu Suguira: Tokyo, Japan – 2006
- 6) Stephen Schaffer: Mobile, USA – 2009
- 7) Grant Pierce: Winnipeg, Canada – 2011
- 8) Rakesh C. Kukreja, Richmond, USA – 2013

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

- 1) Laszlo Szekeres: Szeged, Hungary – 2002
- 2) K. Gopal Nair: Mumbai, India – 2003
- 3) Shunzo Onishi: Tokyo, Japan – 2004
- 4) Roberto Bolli: Louisville, USA – 2005
- 5) Heinz Gerd Zimmer: Leipzig, Germany – 2006
- 6) Dipak Das: Farmington, USA – 2009
- 7) Subodh Verma: Toronto, Canada – 2011
- 8) Sumeet Chugh: Los Angeles – 2013

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

- 1) Aiji Sakamoto : Tokyo, Japan – 2002
- 2) Luiz Souza: Curitiba, Brazil – 2003
- 3) Sukhinder Cheema: St. John's, Canada – 2004
- 4) Richard Schulz: Edmonton, Canada – 2005
- 5) Balwant S. Tuana: Ottawa, Canada – 2006
- 6) Hideo Baba: Essen, Germany – 2007
- 7) Gary Baxter: Cardiff, Wales – 2011
- 8) Andras Varro: Szeged, Hungary – 2013

## Distinguished Service in Cardiovascular Science, Medicine & Surgery Award

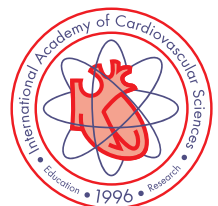
- 1) Pavel Braveny: Brno, Czech Republic – 2003
- 2) Otoni Gomes: Belo Horizonte, Brazil – 2003
- 3) Elizabeth Roth: Pecs, Hungary – 2003
- 4) V.K. Puri: Lucknow, India – 2004
- 5) Suresh K Gupta: New Delhi, India – 2004
- 6) Fause Attie: Mexico City, Mexico – 2004
- 7) Daniel Villarreal: Syracuse, USA – 2004
- 8) Ramesh K Goyal: Vadodara, India – 2005
- 9) Belma Turan: Ankara, Turkey – 2005
- 10) David Brasil: Belo Horizonte, Brazil – 2005
- 11) Wagner Padua Filho: Belo Horizonte, Brazil – 2005
- 12) Dennis McNamara: New Orleans, USA – 2005
- 13) Hideaki Kawaguchi: Sapporo, Japan – 2006
- 14) Robert Kalina: Oakville, Canada – 2008
- 15) Frantisek Kolar: Prague, Czech Republic – 2008
- 16) Keld Kjeldsen: Copenhagen, Denmark – 2009
- 17) Attila Ziegelhoffer: Bratislava, Slovak Republic – 2010
- 18) Milan Chag: Ahmedabad, India – 2011
- 19) Balram Bhargava: New Delhi, India – 2012
- 20) Subir K. Maulik: New Delhi, India – 2012
- 21) Elaine Maria Gomes Freitas: Belo Horizonte, Brazil – 2012
- 22) Elton Silva Gomes: Belo Horizonte, Brazil – 2012
- 23) Tanya Ravingerova: Bratislava, Slovak Republic – 2013
- 24) Suresh Tyagi: Louisville, USA – 2013
- 25) Ursula Muller Werdan: Halle, Germany – 2013
- 26) Ferenc Gallyas Jr.: Pecs, Hungary – 2013
- 27) Monika Bartekova: Bratislava, Slovak Republic – 2014

## Distinguished Leadership Award

- 1) Jacques Genest: Montreal, Canada – 2001
- 2) Ruth Collins-Nakai: Edmonton, Canada – 2001
- 3) Elizabeth Roth: Pecs, Hungary – 2013
- 4) Karl Werdan: Halle, Germany – 2013
- 5) Salim Yusuf: Hamilton, Canada – 2013
- 6) Otoni Gomes: Belo Horizonte, Brazil – 2013
- 7) Suresh K. Gupta: New Delhi, India – 2014

## Lifetime Achievement Award

- 1) Newman Stephens: Winnipeg, Canada – 2005
- 2) Onkar Tripathi: Lucknow, India – 2005
- 3) Keld Kjeldsen: Copenhagen, Denmark – 2005
- 4) Bohuslav Ostadal: Prague, Czech Republic – 2005
- 5) Donald Beanlands: Ottawa, Canada – 2006
- 6) Stig Haunso: Copenhagen, Denmark – 2009
- 7) Jay Cohn: Minneapolis, USA – 2009
- 8) Jan Slezak: Bratislava, Slovak Republic – 2010
- 9) Elizabeth Roth: Pecs, Hungary – 2010
- 10) Otoni Gomes: Belo Horizonte, Brazil – 2010
- 11) Keyur Parikh: Ahmedabad, India – 2011
- 12) Ramesh Goyal: Vadodara, India – 2011
- 13) Belma Turan: Ankara, Turkey – 2011
- 14) Stephen F. Vatner: Newark, USA – 2011
- 15) Yogendra K. Gupta: New Delhi, India – 2012
- 16) Nobuakira Takeda: Tokyo, Japan – 2012
- 17) Irving Joshua: Louisville, USA – 2013



# American Journal of Cardiovascular Drugs

The American Journal of Cardiovascular Drugs (<http://link.springer.com/journal/40256>) promotes rational therapy and effective patient management within the discipline of cardiology. The journal provides a regular program of independent review articles covering all aspects of the management of cardiovascular disorders, particularly the place in therapy of newer and established agents and procedures.

Launched in 2001 with Amitabh Prakash MD as the editor, the subscription-based, peer reviewed American Journal of Cardiovascular Drugs is published six times a year. The journal publishes leading/current opinion articles on contentious or emerging areas and key regulatory and ethical issues, definitive reviews on a broad range of topics relating to the management of cardiovascular disorders, therapy-in-practice reviews on the optimal management of specific conditions, and original clinical research articles (including short communications but not case reports). A unique feature of the Journal is the inclusion of 'Adis Drug Evaluations' on newer and established drugs and devices in cardiology. The American Journal of Cardiovascular Drugs became an official journal of the International Academy of Cardiovascular Sciences (IACS) in 2006.

The Journal is indexed on all major biomedical databases including Medline/PubMed, SCOPUS, EMBASE, Current Contents/Clinical Medicine, Science Citation Index, Science Citation Index Expanded (SciSearch), Journal Citation Reports/Science Edition, Sociedad Iberoamericana Información Científica (SIIC), Cumulative Index to Nursing and Allied Health Literature (CINAHL Plus), Journals@OVID, etc.

The American Journal of Cardiovascular Drugs currently has an Impact Factor™ of 2.203.

For more information on the journal please contact the Editor at:

[Amitabh.Prakash@Springer.com](mailto:Amitabh.Prakash@Springer.com)



# Heart Failure Reviews

Heart Failure Reviews is an international journal which develops links between basic scientists and clinical investigators, creating a unique, interdisciplinary dialogue focused on heart failure, its pathogenesis and treatment. The journal accordingly publishes review papers in both basic and clinical research fields. Topics covered include clinical and surgical approaches to therapy, basic pharmacology, biochemistry, molecular biology, pathology, and electrophysiology. The reviews are comprehensive, expanding the reader's knowledge base and awareness of current research and new findings in this rapidly growing field of cardiovascular medicine. All manuscripts are thoroughly peer-reviewed before publication.

**Editors-in-Chief: S. Goldstein; H.N. Sabbah**

[www.springer.com/medicine/cardiology/journal/10741](http://www.springer.com/medicine/cardiology/journal/10741)



Announcing...

Current Research:

# Cardiology

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Pulsus Group, founded in 1984, is committed to publishing world-class peer-review medical journals and has become an essential part of the medical landscape by providing vehicles for scientific dissemination, debate and knowledge translation. We are proud to announce the launch of the latest Pulsus Group journal, *Current Research: Cardiology*.

Launching in September 2014 and led by the Editor-in-Chief, Dr Bohuslav Ošt'ádal, *Current Research: Cardiology* is an English language, open-access, peer review journal providing an intellectual platform for international scholars in the field of experimental and clinical cardiology. The expert Pulsus Group editorial team will work with all authors to produce a credible paper published in an English language journal.

Based on the excellent reputation Pulsus Group has developed in publishing Cardiology journals, an impressive international Editorial Board has been secured and expectations are the Journal will attract world class papers, establish vigorous peer review and ensure international dissemination online and in print.

The Editorial Board strongly encourages submissions of commentaries, original articles, method articles, systemic review articles, clinical practice articles, case studies and imaging studies. Lead authors of published papers will receive a free printed copy with additional copies available at a discounted rate.

The submission system is now open at [www.pulsus.com](http://www.pulsus.com) and a call for papers is in process. 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 of Pulsus Group remains constant – to publish, promote and disseminate the work of medical researchers in a manner that exemplifies the highest standards in research integrity.



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# New Frontiers in Basic Cardiovascular Research 2014

Tanya Ravingerova, Bratislava, Slovakia



*Participants of the New Frontiers in Basic Cardiovascular Research 2014 meeting in Smolenice, Slovakia*

The Congress Centre of the Slovak Academy of Sciences in Smolenice, Slovakia, hosted the International Symposium **New Frontiers (NF) in Basic Cardiovascular Research: 11. Meeting of France – New EU Members** on June 15-18, 2014. Symposium was organized by the Institute for Heart Research, Slovak Academy of Sciences (SAS), partner institutions from Visegrad (V4) countries (Czech Republic, Hungary, Poland) and France, represented by Prof. Rodolphe Fischmeister (INSERM, Paris). The meeting was supported by Visegrad Foundation.

The meeting was organized as a continuation of a 20-years successful tradition of NF meetings started by Prof. Bohuslav Ošťádal (Prague, CR) and Prof. Rodolphe Fischmeister (Paris, France) in 1994. Initially, these meetings were aimed at the development of collaboration between French, Czech and Slovak scientists working in the field of cardiovascular research that later on became a platform for the involvement of scientists from all V4 countries (Poland, Hungary, Slovakia and CR) and other new EU members. Symposium was traditionally focused on the strengthening of contacts between the basic scientists and clinical cardiologists. Thus, the main topics of the meeting were recent advances in the research of ischemic heart disease, heart failure, hypertension, arrhythmias, metabolic disorders, from genes and molecules to clinical applications, with particular regards to risk factors (including radiation injury) and genetic aspects of cardiovascular ailments, as well as to adaptive mechanisms in cardiovascular system and possibilities of preventive interventions and novel approaches to treatment.

The venue of the meeting, Smolenice Castle, located on the slopes of the Small Carpathian Mountains provided a unique opportunity to get together and facilitate more close interaction between senior scientists and young investigators and created an exciting, enjoyable and friendly atmosphere for an exchange of new ideas and stimulating discussions.

During the Opening ceremony, the President of the meeting, Prof. Jan Slezak, welcomed the participants and highlighted the tradition of the European NF meetings that was followed by the greetings of the representatives of V4 countries and France who have been traditionally involved in the organization of these meetings. The president of the Slovak Physiological Society, Prof. Andrea Čalkovská, welcomed one of the founding members of NF symposia, Prof. Rodolphe Fischmeister (INSERM, France) and delivered him the Diploma and Honorary membership of the Slovak Physiological Society, for his contribution to the development of fruitful collaboration between the French and Slovak scientists. At the occasion of 20-years tradition of NF meetings, Prof. Bohuslav Ošťádal (Prague, CR) was also awarded with the Diploma and Honorary membership of the Slovak Cardiological Society.

More than 85 participants had an opportunity to attend key-note lectures of renowned representatives of several European countries including the talks of two Presidents of ISHR-European Section (acting President Peter Ferdinandy, Hungary, and President-elect Rodolphe Fischmeister, France), as well as invited guests representing International Academy



*Professor Singal was honored with the Plaque of Merit by the Director of the Institute for Heart Research, Slovak Academy of Sciences in Bratislava, for long-lasting collaboration between the Institute of Cardiovascular Sciences, St. Boniface Hospital Research Centre, Winnipeg, Canada and the Institute for Heart Research, Slovak Academy of Sciences in Bratislava*



*Jan Slezak was honored with a Lifetime Achievement Award by the International Academy of Cardiovascular Sciences*

of Cardiovascular Sciences (IACS) from Canada: Prof. N.S. Dhalla, Prof. P. Singal and Prof. G. Pierce.

The scientific program covering different aspects of cardiovascular research consisted of 32 oral communications presented in 6 scientific sessions and 45 posters presented in 2 moderated poster sessions. More than 60% of participants were young scientists, PhD students and post-docs, who contributed with their presentations to each scientific session. Except presentation of their own work they got a unique opportunity to create important international contacts and collaborations. The highlights of the meeting were the competitions: Young Investigators oral competition and Best Poster Award. Among the awardees in both competitions there were young scientists and PhD students from France, Czech republic and Slovakia. Intensive discussions and active interaction between the peers and young scientists, as well as between the scientists representing different scientific fields contributed to the maintenance and strengthening of the tradition of NF meetings.

In addition to the reach scientific program, participants could enjoy attractive social and cultural program (excursion to the Červený Kameň Castle) and performance of the folklore group representing the music and songs from different regions of Slovakia.

An additional day was dedicated to the 50th Anniversary of the Institute for Heart Research, Slovak Academy of Sciences. Both the former directors (Prof. J. Slezák and Dr. J. Styk), and the current director of IHR SAS, Dr. M. Barančík, highlighted the history of the institute that was previously closely associated with the experimental surgery research, in particular, with heart transplantations, and later on with research in the field of molecular cardiology. The welcome greetings were given by the representatives of numerous institutions in Slovakia including top representatives of SAS and the Comenius University in Bratislava, as well as by most important and long-term collaborating institutions abroad, such as the Institute of Physiology, Academy of Sciences of the Czech Republic, and the Institute of Cardiovascular Sciences, St. Boniface Hospital Research Centre, Winnipeg, Canada. Special greetings were given by Prof. Naranjan S. Dhalla, Prof. Pawan K. Singal and Dr. Grant Pierce (Winnipeg, Canada).

Prof. Jan Slezak was honored with the Award of the International Academy of Cardiovascular Sciences for his Lifetime Achievements.



*Dr Dhalla received the Medal of Merit award from Dr Slezak, for his contributions to the development of effective collaboration between the Slovak and Canadian scientists and continuous efforts in support of generation of young scientists.*



*Dr Pierce presented a Distinguished Service Award to Monika Bartekova: Bratislava, Slovak Republic*

Representatives of the collaborating institutions and the senior members of IHR SAS were awarded with Plaques of Merit for their important contributions to research and collaboration with IHR SAS.

At the end of the meeting, Professor Dhalla was invited to deliver a special lecture for broader scientific community of SAS. At this occasion he was honored with the Medal of Merit, for his contributions to the development of effective collaboration between the Slovak and Canadian scientists and continuous efforts in support of generation of young scientists.



## INTERNATIONAL SYMPOSIUM

# 2nd Postdoctoral Joint Meeting on Cardiovascular Sciences – University of Buenos Aires School of Medicine, Buenos Aires

Otoni Moreira Gomes, Ricardo J. Gelpi, Antoinette Oliveira Blackman

On July 11th 2014, the Latin American section of the International Academy of Cardiovascular Sciences organized the 2nd Joint Postdoctoral meeting in Buenos Aires, taking place at the University of Buenos Aires School of Medicine in Argentina. The aforementioned activity was co-chaired by the current president of the Latin American section, Prof. Otoni Moreira Gomes and the past president, Prof. Ricardo J. Gelpi. They gave a welcoming speech at the beginning of the symposium early in the morning and closed the activities in the final hours of July 11th. In the opening speech, Prof. Moreira Gomes and Prof. Gelpi remarked the importance of these meetings to promote not only scientific and academic aspects, but also personal and brotherly friendship among the participants. The closing conference, held in the late afternoon, was dictated by Prof. Naranjan Dhalla, who disserted on “Rationale for the Prevention of Sudden Cardiac Death in Heart Failure”, where he remarked about the importance of vascular and smooth muscle alterations as a cause of sudden death.

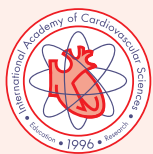
After the final conference of Prof. Dhalla, the 2nd Joint Meeting in Buenos Aires was closed by the words of Prof. Moreira Gomes and Prof. Gelpi. Besides highlighting how successful the long day had been with all the presentations, the organizers emphasized the importance of the different talks about both basic and clinical cardiovascular research, demonstrating how clinical and basic research efforts integrate to provide the scientific basis for medical practice, and which it was one of the main objectives of this symposium. The organizers also mentioned the date of the third symposium, which will take place in Buenos Aires on the 9th and 10th of July 2015.

Describing with more detail the activities that took place on that long symposium day, it's important to mention that



20 presentations were given by Prof. Melchior Luiz Lima, Prof. Elias Kallás, Prof. Elias Kallas Filho, Prof. Ricardo Adala Benfatti, Prof. Nilson Figueiredo Amaral, Prof. Glaucio Andre Machado, Prof. Henrique Kallás, Prof. Joao Jackson Duarte, Prof. Tania María Andrade, Prof. Alexandre Barbosa Andrade, Prof. Monica de Monico Magalhaes, Prof. Antoinette Oliveira Blackmann, and Prof. Otoni Moreira Gomes, from Brasil; and Prof. José Manuel Rodríguez, Prof. Virginia Pérez, Prof. Veronica D'Annunzio, Prof. Luciana Wilensky, Prof. Germán González, Prof. Bruno Buccholz, and Prof. Martín Donato from Argentina.

Another very important fact approved by Prof. Dr. Naranjan S. Dhalla was the constitution of the Official Board of the IACS South America Section:



## Officers and Directors of the International Academy of Cardiovascular Sciences – South America

**President:** Otoni M. Gomes, Brasil  
**Vice President:** David Brasil, Brasil  
**Past President:** Ricardo Gelpi, Argentina  
**Executive Secretary:** Verónica D'Annunzio, Argentina  
**Finance Secretary:** Tania Rodrigues, Brasil

**Development Directors:** Elton Gomes, Brasil; Elaine Maria Freitas, Brasil  
**Council Members:** Alfredo Fiorelli, Brasil; Elias Kallas, Brasil; Enrique Saldaña, Peru; Luiz E. Folle, Uruguai; Elmiro Resende, Brasil; Raimundo Nascimento, Brasil; José Ramires, Brasil





Finally, we should mention that this type of symposium creates future collaboration possibilities among the participants of the basic and clinical research groups. This collaboration strongly contributes to two of the most important objectives of

the Latin American Section of the International Academy of Cardiovascular Sciences: training of human resources and the promotion of cardiovascular research in Latin America.

## IACS extends sincere appreciation to Yetta and Jack Levit



Buoyed by their long-term commitment, the Academy has launched the Yetta and Jack Levit Program for Promotion of Heart Health in Manitoba. Support of the Manitoba Heart Health Think Tank will be a major initiative of this program, in collaboration with the Advisory Board appointed by the International Academy of Cardiovascular Sciences.

The Program will facilitate the organization of an Annual Heart Health Presentation, the first to be a Lecture by the renowned Canadian Cardiologist Dr. Robert Roberts as the Official Opening of the IACS 2nd Cardiovascular Forum on Sept. 4, 2014.

**Special thanks to**  
*Keith, Diane & Shelley Levit*



*Jack & Yetta Levit*



# 24<sup>th</sup> SCIENTIFIC FORUM

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

13<sup>th</sup>-15<sup>th</sup> - November - 2014

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XX FORUM PROF. DR. NARANJAN S. DHALLA - SOUTH AMERICAN SECTION-  
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

IV SYMPOSIUM OF BRAZIL ASSOCIATION OF POSTDOCTORAL  
FELLOWS ON CARDIOVASCULAR SURGERY - ABRECCV

XI STUDENT'S BRAZILIAN CONGRESS OF CARDIOVASCULAR SCIENCES LEAGUES

XV INTERNATIONAL FORUM ON APPLIED CARDIOVASCULAR PHYSIOLOGY

INTERNATIONAL COURSE OF SCIENTIFIC INITIATION  
ON CARDIOVASCULAR SCIENCES - 30 Hours

## ACHIEVEMENT



## SCIENTIFIC SUPPORT



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## CONTRIBUTION



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# European Section Meeting of the International Academy of Cardiovascular Sciences (IACS)

October 8 – 11, 2014

Balatongyörök (Lake Balaton), Hungary

## Preliminary Programme

Wednesday, October 8th

9:00		Arrival and registration
12:00 – 1:00		Lunch
13:30 – 13:45	Naranjan S. Dhalla/András Varró	Opening of the Meeting
13:45 – 14:15	Naranjan S. Dhalla	Mechanisms of depression in cardiac gene expression due to ischemia-reperfusion injury
14:15 – 14:45	Bohuslav Ostadal	Developmental aspects of cardiac adaptation
14:45 – 15:15	Jan Slezák	Response of the rat heart and vessels 6 weeks after irradiation of the mediastinum and lungs. Molecular mechanisms and the potential options to minimize the injurious effect
15:15 – 16:00		Coffee break
	Chairs: Gábor Pavlik/ Ágnes Végh	SPORT! MORE SPORT! NO SPORT!
16:00 – 16:25	James Roy Parratt	Nitric oxide as a possible mediator of exercise-induced cardioprotection
16:25 – 16:50	Béla Merkely	TBA
16:50 – 17:15	Summeet Chugh	Sudden cardiac death in the middle-aged athlete
17:15 – 17:40	István Baczkó	Repolarization reserve and sudden cardiac death in competitive athletes
17:40 – 18:05	Miklós Tóth	Mechanisms Regulating Cardiac Contractility
18:05 – 18:30	László Balogh	To be in the zone – stress and sport performance
19:00		IACS AWARDS presentation
19:30		Welcome dinner



## Thursday, October 9th

	<i>Chairs: Gary Lopaschuk/ Zoltán Papp</i>	<b>HEART FAILURE</b>
<b>9:00 – 9:30</b>	<i>Gary D. Lopaschuk</i>	Stimulation of glucose oxidation as an approach to treat heart failure
<b>9:30 – 10:00</b>	<i>Suresh C. Tyagi</i>	H <sub>2</sub> S and mitochondrial division/mitophagy inhibitor (Mdivi-1) protect right ventricle from severe heart failure
<b>10:00 – 10:25</b>	<i>István Szokodi</i>	Mitogen-activated protein kinases: new players in the regulation of cardiac contractility
<b>10:25 – 10:50</b>	<i>Steven Jones</i>	TBA
<b>10:50 – 11:20</b>		<b>Coffee break</b>
	<i>Chairs: Elizabeth Röth/ Tanja Ravingerova</i>	<b>CARDIAC SRESS SITUATIONS</b>
<b>11:20 – 11:45</b>	<i>Marek Michalak</i>	Endoplasmic reticulum stress in cardiovascular system
<b>11:45 – 12:10</b>	<i>Belma Turan</i>	Intracellular free zinc as a new player to mediate the endoplasmic reticulum stress in hyperglycaemic cardiomyocytes
<b>12:10 – 12:35</b>	<i>Danina Muntean</i>	Monoamine oxidases as novel sources of oxidative stress in diabetes
<b>12:35 – 13:00</b>	<i>Attila Ziegelhoffer</i>	Free radicals-induced alterations and membrane fluidity of cardiac mitochondria: relevance to civilization diseases
<b>13:00 – 15:00</b>		<b>Lunch &amp; POSTER</b>
<b>15:00</b>		<b>Excursion and dinner</b>

## Friday, October 10th

	<i>Chairs: David Eisner/ András Tóth</i>	<b>CALCIUM AS A GENERAL MANAGER IN HEALTHY AND DISEASED HEART</b>
<b>9:00 – 9:30</b>	<i>David Eisner</i>	How is diastolic calcium controlled in the heart?
<b>9:30 – 9:55</b>	<i>Zoltán Papp</i>	Managing calcium in heart failure
<b>9:55 – 10:20</b>	<i>András Tóth</i>	Is Na <sup>+</sup> /Ca <sup>2+</sup> exchanger inhibition antiarrhythmic?
<b>10:20 – 10:45</b>	<i>Károly Acsai</i>	Role of Na/Ca exchange in regulation of cardiac contractility
<b>10:45 – 11:15</b>		<b>Coffee break</b>
	<i>Chairs: Valéria Kecskeméti/ Norbert Jost</i>	<b>EXPERIMENTAL AND CLINICAL ASPECTS OF IONIC CHANGES IN ARRHYTHMOGENESIS</b>
<b>11:15 – 11:40</b>	<i>Keld Kjeldsen</i>	TBA
<b>11:40 – 12:05</b>	<i>Peter Light</i>	TBA
<b>12:05 – 12:30</b>	<i>Christina Moreno</i>	Monoamine oxidases as novel sources of oxidative stress in diabetes
<b>12:30 – 12:55</b>	<i>Péter Nánási</i>	Role of cardiac ion currents in beat-to beat variability of action potential duration
<b>13:00 – 15:00</b>		<b>Lunch &amp; POSTER</b>
	<i>Chairs: Péter Ferdinándy/ Steven Jones</i>	<b>MYOCARDIAL PROTECTION AND REPAIR</b>
<b>14:30 – 14:55</b>	<i>Péter Ferdinándy</i>	Interaction of co-morbidities and co-medications with cardioprotective mechanisms
<b>14:55 – 15:20</b>	<i>Tanja Ravingerova</i>	Cardioprotective potential of hypolipidemic drugs in acute ischemia/reperfusion: molecular mechanisms of pleiotropic preconditioning-like effects
<b>15:20 – 15:45</b>	<i>Ildikó Bock-Marquette</i>	Role of small molecules in cardiac regeneration and repair
<b>15:45 – 16:10</b>	<i>Árpád Tószaki</i>	Ventricular fibrillation and autophagy
<b>16:10 – 16:35</b>	<i>Tamás Csont</i>	Proteoglycans: potential cardioprotective therapies?
<b>16:35 – 17:00</b>		<b>Coffee break</b>
	<i>Chairs: Grant Pierce/ Morris Karmazyn</i>	<b>CARDIAC DISEASES – POSSIBILITIES FOR PREVENTION AND DRUG TREATMENT</b>
<b>17:00 – 17:25</b>	<i>Grant N. Pierce</i>	Differential influence of fatty acids on ischemic reperfusion injury in cardiomyocytes
<b>17:25 – 17:50</b>	<i>Morris Karmazyn</i>	The potential of natural products for the treatment of heart disease: evidence from Ginseng and Probiotics
<b>17:50 – 18:15</b>	<i>Jerzy Beltowski</i>	Nucleoside phosphorothioates as the potential H <sub>2</sub> S-releasing drugs for the treatment of cardiovascular diseases
<b>18:40 – 19:05</b>	<i>Tamás Radovits</i>	Cardiac effects of pharmacological enhancement of cGMP-signalling in Type-1 diabetes mellitus
<b>20:00</b>		<b>GALA DINNER - (Poster awards)</b>



## Saturday, October 11th

	<i>Chairs: Ákos Koller, Kálmán Tóth</i>	<b>VASCULAR BIOLOGY</b>
<b>9:00 – 9:25</b>	<i>Ákos Koller</i>	Novel mechanisms regulating coronary microcirculation
<b>9:25 – 9:50</b>	<i>Andreas Simms</i>	TBA
<b>9:50 – 10:15</b>	<i>Violetta Kékesi</i>	Cardiovascular effects of ghrelin: experimental and clinical studies
<b>10:15 – 10:40</b>	<i>Csaba Varga</i>	The cardiovascular effect of high triglyceride diet in experimental menopause
<b>10:40 – 11:05</b>	<i>Kálmán Tóth</i>	The role of hemorheological factors in cardiovascular medicine
<b>11:05 – 11:30</b>	<i>Dragan M. Djuric</i>	Endothelial dysfunction, inflammation and oxidative stress in patients with rheumatoid arthritis: The results of clinical investigation
<b>11:30 – 11:45</b>		<b>Coffee break</b>
	<i>Chairs: László Virág, István Baczkó</i>	<b>CARDIAC ELECTROPHYSIOLOGY IN THEORY AND PRACTICE</b>
<b>11:45 – 12:10</b>	<i>Blanca Rodriguez</i>	Drug therapy in acute myocardial ischaemia: anti-arrhythmic or pro-arrhythmic effects?
<b>12:10 – 12:35</b>	<i>José M. Ferrero</i>	Multiscale computational models of acute myocardial ischemia in relation to sudden cardiac death
<b>12:35 – 13:00</b>	<i>Otoni M. Gomes</i>	EKG biocinetics dependence of the myocardium, cell membrane ionic performance and its vital importance for the stress ionic dyskinesia control for cardiovascular lethal disease prevention
<b>13:00 – 13:25</b>	<i>Sepp Róbert</i>	High throughput next generation sequencing for identification of known and novel genetic variants in ion channel diseases
<b>13:25 – 13:50</b>	<i>Ságghy László</i>	Preparticipation ECG screening in competitive athletes. Signs of cardiovascular adaptation
<b>13:50 – 14:15</b>	<i>András Farkas</i>	Can the new pro-arrhythmia biomarkers, the absolute beat-to-beat variability parameters predict ischaemic ventricular fibrillation?
<b>14:15 – 14:40</b>	<i>Attila Farkas</i>	Do not restrict ECG interval measurement to sinus rhythm! Absolute beat-to-beat variability of the ECG intervals: new biomarkers of drug-induced torsades de pointes arrhythmia
<b>14:40</b>		<b>Farewell remarks and Lunch</b>



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

September 4 – 6, 2014

RBC Winnipeg Convention Centre • Winnipeg, Manitoba

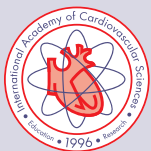
## Objectives of the Forum

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.



## Officers and Directors of the International Academy of Cardiovascular Sciences

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**GENERAL  
INFORMATION**

- Registration is open in Room 2H Sept 4, 4:00-7:00PM; Sept 5 & 6, 8:00AM-5:00PM
- Breakfast is held in Room 2F/G Sept 5 & 6, 8:00-9:00AM
- Poster presentations run concurrently with each session in Room 2H, Sept 5 & 6

## FORUM SCHEDULE

### Thursday, September 4

	Pan Am Suite	Presentation Theatre	Millenium Suite	Room 2E	Room 2F/G
6:00-7:00PM		Yetta & Jack Levit Distinguished Lecture Dr. Robert Roberts			
7:00-10:00PM					Welcome Reception, Entertainment & Dinner

### Friday, September 5

	Pan Am Room	Presentation Theatre	Millenium Suite	Room 2E	Room 2F/G
9:00-10:30AM	Sudden Cardiac Death and Arrhythmias	Grant Pierce Young Investigator Award Competition	Advances in Women's Heart Health	Canada-Brazil Symposium 1	
10:30-10:50AM					Coffee Break
10:50AM-12:20PM	Cardiac Fibrosis and Heart Failure	James Willerson Young Investigator Award Competition	New Approaches for the Therapy of Heart Failure	Canada-Brazil Symposium 2	
12:20-1:40PM					Harold Buchwald Distinguished Oration Dr. Jagat Narula
1:40-3:10PM	microRNAs in the Regulation of Cardiac Function	Cardiovascular Energy and Metabolism	Vascular Disease and Atherosclerosis	Canada-Brazil Symposium 3	
3:10-3:30PM					Coffee Break
3:30-5:00PM	Pathophysiology and Therapy of Diabetic Cardiomyopathy	Vascular Biology and Hypertension	Ischemia-Reperfusion Injury and Oxidative Stress	Signal Transduction in Heart Disease	
6:00-7:00PM		Presidential Address Dr. James Willerson			
7:00-10:00PM					Reception, Entertainment & Celebration Dinner for Dr. John McNeill

### Saturday, September 6

	Pan Am Room	Presentation Theatre	Millenium Suite	Room 2E	Room 2F/G
9:00-10:30AM	New Targets in Cardiovascular Disease	Eric Olson Young Faculty Orations	Cardiac Remodeling and Heart Failure	Nutritional Strategies for the Prevention of Heart Disease	
10:30-10:50AM					Coffee Break
10:50AM-12:20PM	Cardiac Cell Death, Autophagy and Injury	Kern Wildenthal Young Faculty Orations	Cardiac Hypertrophy and Heart Failure	Cardiac Care and Patient Safety	
12:20-1:40PM					John Foerster Distinguished Oration Dr. Roberto Bolli
1:40-3:10PM	Stem Cells and Cardiac Regeneration	Young Investigator Biomedical Presentations	Cardiovascular Complications in Atherosclerosis	Gender Differences in Heart Disease	
3:10-3:30PM					Coffee Break
3:30-5:00PM	Mechanisms of Cardiac Arrhythmias	Endothelium and Cardiac Dysfunction	Vascular and Peripheral Artery Disease	New Concepts in Heart Failure	
6:00-7:00PM		Distinguished Lecture Dr. Bohuslav Ostadal			
7:00-10:00PM					Reception, Awards Banquet & Entertainment

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

September 4 – 6, 2014 • Winnipeg, Manitoba

## Faculty

(as of 06/24/14)



**Sahar S. Abdelmoneim** is an Assistant Professor of Medicine and a Research Associate in the Department of Medicine, Cardiovascular Diseases Division, Cardiac Ultrasound and Hemodynamic Laboratory at Mayo Clinic, Rochester, Minnesota. She is also an Assistant Lecturer of Cardiology at Assiut University in Egypt. She has completed nine years of dedicated echocardiography research focused on the utilization of ultrasound contrast agents

for cardiac imaging, including myocardial perfusion, a master in clinical research, and a fellowship in the Mayo Clinic Echocardiography Core Lab.



**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.



**Madhu B. Anand-Srivastava** is Professor, Department of Molecular and Integrative Physiology, University of Montréal. The main theme of her research is directed towards understanding the mechanisms that underlie the cellular and molecular basis of hypertension. She is an internationally recognized expert in the field of G protein and hypertension and atrial natriuretic peptide receptor-C (NPR-C), cell signalling and

cell function and has made significant contributions in these areas. Her work is highly cited. She has published more than 145 papers, 29 book chapters and 215 abstracts and edited 3 books. She has trained more than 50 students and post-doctoral fellows and has been invited to several National and International conferences and Academic Institutions to present

her work. She was also awarded Vincenzo Panagia Distinguished Lecture Award from Institute of Cardiovascular Science in 2004. She is a fellow of International Academy of Cardiovascular Sciences and Indian Society of Hypertension. She has served or is currently on the different committees of CIHR and Heart and Stroke Foundation of Canada and also on the Editorial board of scientific publications including Journal of Molecular and Cellular Cardiology and Molecular and Cellular Biochemistry.



**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.



**Sameer Bansil** is a clinician and investigator with a broad range of expertise in cardiovascular medicine and outcomes research on a global scale. Dr. Bansil is currently an Assistant Professor of Medicine at the Icahn School of Medicine at Mount Sinai and an Attending Physician in the Mount Sinai Cardiovascular Institute. Over the last decade, he has trained as a clinical trialist and a global health outcomes researcher at Mount Sinai, NYU, Brigham and Women's Hospital and the Harvard School of Public Health. During this time, he has had the opportunity to work on various NIH and pharmaceutical sponsored clinical trials and global health projects. He has served as a co-investigator for the FREEDOM trial (NIH-UO1; 1900 patients), PEGASUS-TIMI 54 (21,000 patients worldwide) and DECLARE-TIMI 58 (17,150 patients worldwide). He has served as the medical lead for the Grenada Heart Project, a cardiovascular risk factor survey of 2,827 subjects in the Caribbean Islands of Grenada and as a co-investigator for the High-risk plaque project (6000 patients) with multimodal imaging for prediction of cardiovascular events. Finally, he is currently serving as the medical lead on the Polypill evaluation studies in the United States to look at whether providing a fixed-dose combination improves adherence and is cost-effective. Dr. Bansil's clinical and research interests center on therapies for coronary disease, diabetes and asymptomatic patients with various heart disorders in global populations. His special interests include advanced trial design and trial methodology.





**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 has specialized in cardiology. Currently, she is practicing in Debrecen as an interventional cardiologist as well as is a principal investigator 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.



**Ivan Berkowitz** is a life-long Winnipegger. He is a graduate of the University of Manitoba and Harvard Business School. His early business career was with his family's jean manufacturing. For the next 15 years, he lead a company which produced over 100 trade and public shows. As a volunteer, he served the Manitoba and Canadian Heart Foundations including as the first Chair of a public campaign for funds in Manitoba, President, a member of many commit-

tees locally and nationally, and recalls with great pride driving the launch of "Jump Rope for Heart" in Canada. In 2007, Ivan was presented the MHSF "BIG Heart Award". He also promoted heart health as Chief Barker and International Vice-President of Variety, the Children's Charity which still supports the Variety Children's Heart Centre in Manitoba and Variety's International Lifeline which brings children from developing countries to established centres for life-saving heart surgery. By chance, Ivan was taken to an American Heart Association Convention in Anaheim. He became obsessed with his vision to bring such events to Winnipeg. Such an idea appealed to Dr. Naranjan Dhalla who has inspired Ivan to coordinate more than 10 meetings highlighted by the 2001 World Heart Congress which brought 1,800 delegates from 72 countries to Winnipeg. Subsequently, Dr. Dhalla appointed Ivan to initiate and edit a quarterly "CV Network" which in June published the 50th issue and now is shared with over 4,000 people around the world. As a writer for "CV Network", speaking at numerous international meetings and writing a chapter which was translated in Portuguese for "Cardiologia da Familia", he was appointed as Honourary Professor of Fundacao Cardiovascular Sao Francisco de Assisi. In 2013, he was awarded the Queen Elizabeth Diamond Jubilee Medal. Ivan has earned the title of HEART HEALTH SCHOLAR. He is leading a Manitoba Heart Health Think Tank which has the goal of "launching collaboration to encourage individuals to become engaged in protecting their own heart health".



**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 and 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 Graduate 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, UmeMed Foundation and the University of Nebraska Medical Center.

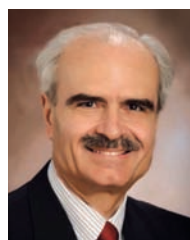


**Ghassan Bkaily** received his Ph.D. in Biophysics from the University of Sherbrooke in 1982. He then spent two years post-doctoral training in Physiology at the University of Virginia and the University of Cincinnati (Dr. Nick Sperelakis). In 1984, Dr. Bkaily joined the Department of Physiology and 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 specifically 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 advocat-

ing 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 Pathol-

ogy & 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.



**Slavka Carnicka** graduated from Faculty of Mathematics, Physics and Informatics, Comenius University in Bratislava with MA in Biomedical Physics (2008). In 2012 she obtained PhD in Physiology at the Faculty of Natural Sciences, Comenius University, Slovak republic, under the mentorship of Tanya Ravingerova, MD, DSc. Currently, she works as a junior scientist at the Department of Cardiovascular Physiology & Pathophysiology, Insti-

tute for Heart Research, Bratislava. She is author of 23 papers in scientific journals and book chapters. Her research focus on protection of the ischemic myocardium in healthy and diseased heart, particularly, on investigation of molecular mechanisms of short-term and long-term endogenous cardioprotection, diverse forms of preconditioning and pleiotropic effects of drug therapy with respect to risk factors of cardiovascular diseases.



**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 tran-

scriptional 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 Regenerative 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.



**Ian M.C. Dixon** completed his MSc and PhD in cardiac physiology at the U of Manitoba, and he then trained in molecular biology of the heart in the context of his PDF at the University of Toronto. Dr. Dixon returned to Winnipeg to direct the laboratory of Molecular Cardiology at the University of Manitoba in 1992 and his current position is as Professor, Department of Physiology and Pathophysiology. He serves as the PI for the

Molecular Cardiology Lab, and is the Director of the Graduate Student Program – Institute of Cardiovascular Sciences, and is a principal investigator/Manitoba coordinator on a CIHR-STIHR training program. He has been continuously funded by the MRC/CIHR and the HSFC for 20 +



years. His main theme of interest is that matrix proteins are important in the pathogenesis of heart failure. He believes that a better understanding of phenotype plasticity of these cells is an effective means to understand the nature of heart failure associated with cardiac fibrosis. He has investigated Smad signaling in the control of collagen secretion, as well as in myofibroblast proliferation, migration and contractility. He is also known for his investigation of endogenous inhibitors of cardiac fibrosis. Finally he is investigating autophagy as a means to regulate cardiac fibrosis.



**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).



**Pedro D'Orleans-Juste, Pedro** graduated with a B.Sc. from Bishop's University, Lennoxville, Canada in 1980. He earned his M.Sc. and Ph.D. from the University of Sherbrooke, Sherbrooke, Canada. He completed his Postdoc. at William Harvey Research Institute, London, UK. He is J.C. Edwards Chair in Cardiovascular Research. His research has been published in several peer-reviewed publications.



**Todd Duhamel** holds an academic appointment within the Faculty of Kinesiology and Recreation Management at the University of Manitoba and has established his research program within the Institute of Cardiovascular Sciences at the St. Boniface General Hospital. Dr. Duhamel's research program utilizes exercise as a tool to identify novel therapeutic targets for promoting cardiovascular health.



**Larry Fliegel** is a Professor and Associate Chair of the Department of Biochemistry at the University of Alberta. He has been at that University for 25 years. He received his PhD from the University of Calgary in 1984. He studies pH regulation in cardiomyocytes and other cells and the contribution of the Na<sup>+</sup>/H<sup>+</sup> exchanger to heart hypertrophy and ischemic heart damage. He has published over 150 publications and has

won numerous awards including recently a McCalla Research Professorship, Killam Professor award and a Mentoring award from the Faculty of Medicine, University of Alberta.



**Ricardo Jorge Gelpi** is a full time Professor and Chair, Department of Pathology; Director, Cardiovascular Physiopathology Institute ([www.fmed.uba.ar/infica](http://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.



**Robert Gros** is currently a scientist at the Robarts Research Institute and an associate professor in the Departments of Medicine and of Physiology and Pharmacology at Western University, London, Ontario. The focus of his research programme is to investigate the cellular/ molecular mechanisms involved in the regulation of vascular and cardiac function. With a particular interest in the role and regulation of G protein-coupled receptor signaling

pathways as well as the role of both the neuronal and non-neuronal cholinergic system and their contribution under physiological and pathological conditions such as hypertension and heart failure. The Gros laboratory utilized a range of biochemical, cellular and molecular techniques as well as integrative approaches in genetically-modified mice and human subjects to gain a better understanding of development and progression of cardiovascular and metabolic diseases. Dr. Gros is the director of the Canada Foundation for Innovation-funded Laboratory for Cardiovascular and Metabolic Phenotyping.



**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.



**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.



**Jennifer Hall** is an Associate Professor and Director of the Program in Translational Cardiovascular Genomics in the Lillehei Heart Institute at the University of Minnesota. The interest of her lab is to identify genetic variants that are associated with cardiovascular disease and diabetes and define their biological function. We are currently integrating strategies from multiple disciplines to determine how genetic variants alter the

course of disease. These strategies incorporate population genetics, biochemistry, cell biology, and transgenic and knockout animals.



**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.



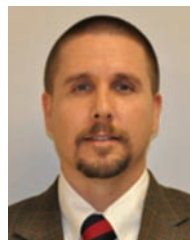
**George Jackowski** has been instrumental in the founding of 12 biotechnology companies in his career, four of which became publicly traded. Furthermore, he has contributed to the creation of 12 additional biotechnology companies. He is responsible for the creation of over 1,000 high tech jobs in a hard to fund biotech sector. He has

grown companies to market caps of over \$350 million, raised from public capital markets over \$125 million and completed deals with Big Pharma of over \$100 million USD in transactions. Dr. Jackowski was the Founder and -currently is the Chief Science Officer of Pivotal Therapeutics Inc. and directs the Research and Development program. He holds Directorships in numerous biotech companies. Prior to creating Pivotal, he was founder, Chairman, CEO and CSO at SynX Pharma Inc. He has served as the Chairman of Bio Canada Connect, a Board Member of the Ontario BIOCouncil and on the Board of Directors for the Canadian Stroke Network. Dr. Jackowski has also served on many federal and provincial governmental biotechnology committees and is on the Scientific Board of Advisors for the Innovation Cluster, Trent University. Dr. Jackowski has been intimately involved in the enforcement of patent claims, patent litigation and patent interference proceedings. As one of the pioneers of Canadian Biotech over the past thirty years, Dr. George Jackowski was recently recognized and awarded the Queen Elizabeth II Diamond Jubilee Medal for his significant contribution to the Canadian Biotech and Pharmaceutical Industries by the Prime Minister Stephen Harper. Dr. Jackowski also received the 1996 MEDEC Award for Medical Achievement for his invention of the Cardiac STATus™ CK-MB/Myoglobin / Troponin Card Test. He developed and holds the patents on the rapid format immunoassays measuring cardiac enzymes, in particular Troponin, which aids in the early diagnosis of myocardial infarction and is commercialized worldwide in hospital emergency rooms. Dr. Jackowski, a respected cardiovascular biochemist, was trained at the Cardiovascular Research Institute at the University of San Francisco, California and at the Department of Clinical Biochemistry at the University of Toronto. Dr. Jackowski holds academic positions at the University of Toronto in the Department of Laboratory Medicine and Pathobiology and the Department of Surgery and the Florida Atlantic University, the Centre for Molecular Biology and Biotechnology. His scientific resume includes authoring 44 publications and 61 abstracts, holding over 153 patents filed and issued.



**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, particularly 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.



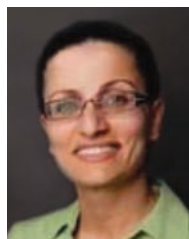
**Irving Joshua** is a Professor and the current chairman of the Department of Physiology and Biophysics, School of Medicine at the University of Louisville, Louisville, Kentucky. He is involved in scientific research related to vascular and microvascular control mechanisms during normal and disease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



**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.



**Zam Kassiri** completed her MSc and PhD at University of Toronto where she studied cardiac muscle physiology, electrophysiology and gene therapy. She undertook her post-doctoral training at Ontario Cancer Institute (Toronto) where she explored the cardiac extracellular matrix (ECM) and its remodeling in heart disease. She joined University of Alberta (Edmonton) in August 2007 as an assistant professor. Dr. Kassiri is now an associate professor at the Department of Physiology at University of Alberta. The research in Dr. Kassiri's laboratory focuses on extracellular matrix remodeling, its impact on development and progression of cardiac and vascular pathologies, and the novel functions of matrix-regulatory proteins, Matrix Metalloproteinases (MMPs) and their inhibitors, Tissue inhibitor of Metalloproteinases (TIMPs).



**Neelam Khaper** is an Associate Professor of Physiology in the Medical Sciences Division at the Northern Ontario School of Medicine, Lakehead University. She obtained her M.Sc and Ph.D in the department of Physiology at the University of Manitoba. She carried her postdoctoral training in the faculty of Medicine at the University of Toronto. Dr. Khaper's research is directed towards understanding the role of inflammation and oxidative stress in cardiac dysfunction with particular focus on investigating cellular response to ionizing radiation as well as examining the role of secoisolaricresinol diglucoside in oxidative stress conditions.



**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.



**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.



**Jan Kyselovic** joined the Faculty of Pharmacy, Comenius University Bratislava in 1994 after his PhD study of Pharmacology in Medical Faculty and postdoc stay at Department of Pharmacology, Medical Faculty, Ottawa University, Canada. During the years 1996-2002 he worked as a visiting scientist at Department of Physiology and Pharmacology, Medical Faculty, Catholic University Brussels, Belgium. Currently he is guaranteed the study of

pharmacy, and PhD study at Pharmacology. Previously he held position as the Dean of faculty as well as the chair in Department of Pharmacology at the Bratislava University, where he holds professor position of pharmacology. He has been supervisor theses of 8 for the BSc, 98 for the MSc, 26 theses for the award PharmD, 2 for the RND and 8 PhD students. He leads a team of 12 scientists (2 associate professors, 6 assistant of professors, 7 PhD students) working on extrapolation of experimental and clinical pharmacology and molecular medicine. His innovations in this field led to the receipt of the more than 6 international and 12 domestic grants. Professor Kyselovic has authored/co-authored over 90 peer-reviewed full articles, 2 books co-author, 1 book co-editor and 4 textbook. He has been member of Presidium of scientific board of Ministry of Health and also three university scientific boards: Charles University Prague, Czech Republic, Comenius University Bratislava, Veterinary Medicine and Pharmacy University, Kosice, Slovakia. He is also member of faculty scientific boards: Faculty of Pharmacy, Hradec Kralove and Brno, Czech Republic, Medical Faculty and Faculty of Pharmacy, Bratislava. He has also served on a number Grant Review Boards and has been member of Editorial Board for journals related to pharmacy and pharmacology (*Folia Medica*, Czech and Slovak Pharmacy, *Farmaceutický obzor*, *Lekárnické listy*, *Lekárnik*, *Bedecker Zdravia*).



**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 Healthcare 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.



**Scott Levick** received his PhD in Biological Sciences from the University of Queensland (Australia) in 2005. He then trained as a post-doctoral fellow at the University of South Carolina School of Medicine under Dr. Joseph Janicki until 2011 after which he joined the Department of Pharmacology and Toxicology at the Medical College of Wisconsin as an Assistant Professor. Dr. Levick also has a joint appointment in the Cardiovascular

Center at the Medical College of Wisconsin. Dr. Levick's laboratory is currently focused on understanding the role that the sensory nerve neuropeptide, substance P, plays in cardiac disease including ventricular hypertrophy and fibrosis leading to 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.

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.



**Peter Liu** is the Chief Scientific Officer and VP of Research at the University of Ottawa Heart Institute, as well as Professor of Medicine and Physiology at the University of Ottawa and University of Toronto. He currently serves as the President of the International Society of Cardiomyopathy and Heart Failure of the World Heart Federation, and was the former Scientific Director of the Institute of Circula-



tory and Respiratory Health at the Canadian Institutes of Health Research. He received his MD degree from University of Toronto, and postgraduate training at Harvard University. His laboratory investigates the causes and treatments of heart failure, role of inflammation and identification of novel biomarkers and interventions in cardiovascular disease. He has published over 300 peer reviewed articles in high impact journals, and received numerous awards in recognition of his research and scientific accomplishments. He has chaired or co-chaired scientific sessions of the Heart Failure Society of America, International Society of Heart Research and Human Proteomic Organization, among others. He reviews programs for major international funding agencies including European Frameworks, Wellcome Trust, US National Institutes of Health and NASA. He is also a champion for knowledge translation, integrating the cardiovascular prevention guidelines and healthy heart policy in Canada and internationally. The harmonized Canadian C-CHANGE guidelines has recently been chosen by all the provincial premiers in Canada as the first cardiovascular guidelines to be mandated by the Ministries of Health across the country.



**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.



**Melchior Luiz Lima** is Coordinator of Cardiac Transplantation in Meridional Hospital in Vitória - ES - Brazil; Titular Member Specialist by the Brazilian Medical Association and the Brazilian Society of Cardiovascular Surgery. Lima earned his Master of Science and Doctor of Philosophy in Cardiovascular Surgery by Cardiovascular Foundation Saint Francis of Assisi in Belo Horizonte - MG. He is Professor and Curator of

Cardiovascular Foundation Saint Francis of Assisi. He completed his Program of Medical Residency in Cardiovascular Surgery in "Real Benemerita Sociedade Portuguesa de Beneficência" in the São Joaquim Hospital in São Paulo - SP. He earned his Degree in Medicine from the "Escola de Medicina da Santa Casa de Misericórdia" in Vitória - ES - Brazil (1988). He has experience in Cardiovascular Surgery, acting on the following topics: Minimally invasive video-assisted cardiac surgery, Valve Pathology, Myocardial Revascularization, Aortic Diseases, and Pulmonary Mechanical Circulatory Support and Heart Transplantation.



**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 McNeill** 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 Present 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.



**Sharon L. Mulvagh** is Professor of Medicine, Mayo College of Medicine, and Consultant in Cardiovascular Diseases and Internal Medicine, Mayo Clinic, Rochester, Minnesota, where she is the Director of the Women's Heart Clinic, and Associate Director of Preventive Cardiology. She is an avid proponent of preventive cardiology and cardiovascular risk management and is the principal investigator for clinical trials involving novel approaches to cardiovascular risk reduction, early detection of chemotherapy-induced cardiomyopathy, and numerous studies investigating enhanced cardiac ultrasound and myocardial perfusion imaging for the diagnosis of ischemic heart disease. She earned her doctorate in medicine from the University of Ottawa, Ontario, internship at Dalhousie University in Halifax, Nova Scotia, residency in Internal Medicine at Boston University Medical Center, Boston, MA, fellowship in Cardiology at Baylor College of Medicine, Houston, TX, and served as a visiting scientist at NASA Johnson Space Center. Dr. Mulvagh is a Fellow of the American College of Cardiology, the American Heart Association Council on Clinical Cardiology, the American Society of Echocardiography, the Royal College of Physicians and Surgeons of Canada, International Academy of Cardiovascular Sciences, Chair of the ACC Women in Cardiology, Minnesota Chapter, and serves on the editorial Board of JACC-Cardiovascular Imaging. She has over a hundred publications focused on investigative frontiers in echocardiography, and women and heart disease. She was the keynote speaker for the Women's Heart Health Initiative program launched at St. Boniface Hospital in Winnipeg, Canada in 2013, where she delivered the International Academy of Cardiovascular Sciences Harold Buchwald Memorial Lecture in 2011.



**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.



**Kumar Narayanan** is a Physician Scientist at Cedars-Sinai Medical Center, Los Angeles. He finished his adult cardiology training from the Christian Medical College, Vellore, India in 2008 and worked as faculty cardiologist and electrophysiologist at the same institution between 2008 and 2012. He joined the Oregon Sudden Unexpected Death Study research group in 2012. He is currently involved in research into mechanisms and risk stratification for

sudden cardiac death (SCD) utilizing a population based approach in a large northwestern US community. He is also involved in studying the patterns of utilization of the primary prevention defibrillator in diverse settings.



**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.



**Jin O-Uchi** received his M.D. and Ph.D. at Jikei University, Tokyo, Japan in 2006 and did his post-doctoral fellowship at Jikei University and University of Rochester, Rochester NY. After his post-doctoral fellowships, he obtained his first junior faculty position as an Instructor at Thomas Jefferson University, Philadelphia PA in 2011. Dr. O-Uchi's research focuses on the physiological and pathophysiological regulation of cardiac ion channel by adrenergic stimulation. Dr. O-Uchi's research has gained recognition from his peers as reflected by several awards; including the Young Investigator Award from International Academy of Cardiovascular Sciences (IACS) Japanese section in 2006, the Richard J. Bing Award for Young Investigators from the International Society for Heart Research (ISHR) in 2010, a finalist of an Outstanding Early Career Investigator Award from AHA Basic Cardiovascular Sciences (BCVS) in 2012 and a finalist of a New Investigator Award from American Physiological Society (APS) in 2014. Dr. O-Uchi's research is supported by Beginning Grant-in-Aid from AHA, Research Career Enhancement Award from APS and Irisawa Memorial Promotion Award from the Physiological Society of Japan

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**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 fellowship 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.

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**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 committees 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 re-

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garded 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 residencies 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.

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**Jorge A. Brenes-Salazar** received his MD degree from Universidad de Ciencias Medicas in Costa Rica, and went on to complete his residency in Internal Medicine at Hennepin County Medical Center in Minneapolis, where he was a recipient of multiple recognitions and awards, which include amongst others being the first resident physician to be inducted as a member of the Alpha-Omega-Alpha Society in Minnesota (in more than 100 years of existence of this chapter) and is currently completing his Cardiovascular Diseases fellowship at the Mayo Clinic in Rochester. Throughout his Mayo experience, he has increasingly contributed to the field of clinical cardiology, in general, and cardiovascular care of older adults in particular. He was a recipient of the ACC Geriatric Cardiology Travel Award in 2013 and is currently serving as Co-chair at a national level for the ACC Geriatric Cardiology Fellows in Training Work Force.



**Enrique Castaneda Saldana** earned his title of specialist thoracic and cardiovascular surgery in 1997; masters degree in medicine in 1994; doctor in medicine in 1996; master of public health with mention in management and governance in 1999 and title of specialist in health administration in 2010. Saldana is Principle Professor of Surgery, Cayetano Heredia Peruvian University, Specialty Chief of Thoracic and Cardiovascular Surgery. He is a founding member of the Peruvian Society of Cardiac, Thoracic and Cardiovascular surgery, and Past President (2013). He is a member of the Latin American Society of Cardiovascular and Thoracic Surgery and a Fellow of the International Academy of Cardiovascular Sciences.



**Jon-Jon Santiago** was born in Manila and raised in Winnipeg. He completed an honours degree in Biochemistry in 2004. Jon-Jon's curiosity and interest in cardiovascular research led him to Dr. Elissavet Kardami. He joined the Kardami lab in 2004 and completed his Masters of Science degree in 2007. During this period, the focus of his research was to examine the expression and release of pro-hypertrophic high-molecular-weight fibroblast growth factor-2 (hi-FGF-2). With Jon-Jon's continued keen interest on the mechanisms and functions of FGF-2, he made a decision to stay and continue his studies as a Ph.D. student with Dr. Kardami. Over the last several years of training at the research centre, he received various scholarship awards at national (NSERC), provincial (MHRC) and university levels (Henry Friesen Young Scientist Award). He has presented his work at national and international conferences and has published 3 first-authored and 2 co-authored peer-reviewed manuscripts. Being well rounded person, Jon-Jon has embraced university life by actively participating in numerous committees and has played a leadership role among graduate students. Outside the boundary of university, he volunteers for various foundations, served as mentor for inner city kids and as a judge at local and Canada wide science fairs. He is a loving husband and father who devotes the rest of his time with his loving family.



**Tiziano Scarabelli** graduated in Medicine at the University of Turin, where he also completed a pathology fellowship. Following a second fellowship in cardiology at the University of Brescia, where he worked under the supervision of Dr. Roberto Ferrari, he moved to London to start a research fellowship at the Hatter Institute under the mentorship of Dr. Derek Yellon. He subsequently completed a PhD in molecular pathology



at University College London, working under the supervision of Dr. David Latchman. In 2004 he joined the Faculty at Wayne State University and subsequently completed an Internal Medicine residency at Henry Ford Hospital. He finally started a cardiology fellowship at Mount Sinai Hospital, where he is currently working as a senior fellow.



**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 Elissavet Kardami. She was recruited as a post-doctoral fellow by Drs. Ju Chen and Kenneth Chien at the University of California-San Diego (UCSD) in La Jolla, CA, USA. She 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 post-doctoral 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 postgradual 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 micros-

copy 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 vascular 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.



**Kenneth B. Storey** is a Professor of Biochemistry at Carleton University in Ottawa and holds the Canada Research Chair in Molecular Physiology. He received his B.Sc. from the University of Calgary and his Ph.D. from the University of British Columbia. Ken is a world leader in the field of biochemical adaptation, particularly well known for his studies of the gene, protein

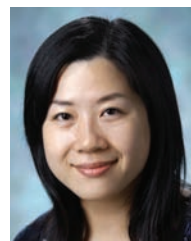
and enzyme mechanisms used by selected vertebrates (and their hearts) to endure extreme conditions, e.g. whole body freezing, weeks of anoxia, deep hypothermia during mammalian hibernation. of gene regulation and enzyme structure/function that support amazing animal phenomena including hibernation, freezing survival, estivation and anoxia tolerance with a particular focus on the mechanisms metabolic rate depression that support these phenomena. Ken is a prolific author and speaker – he has over 650 publications to his name and has given hundreds of talks around the world. Recently Ken won the 2010 Flavell medal in Biological Sciences from the Royal Society of Canada and the 2011 Fry medal from the Canadian Society of Zoologists. For more information visit [www.carleton.ca/~kbstorey](http://www.carleton.ca/~kbstorey).



**Paramjit S. Tappia** received his B.Sc. (Honors) in Pharmacology from the University of Sunderland, U.K. in 1985 and Ph.D. in Biochemistry from the University of Wolverhampton, U.K. in 1992. He received further predoctoral training in the Department of Biochemistry, University of Southampton, U.K (1989-1992) and undertook postdoctoral training in the Institute of Human Nutrition, also at the University of Southampton, from 1992-1995. He is currently a Clinical Research Scientist in the Asper Clinical Research Institute, St. Boniface Hospital Research Centre, Winnipeg, Manitoba. He has published over 100 full-length papers in scientific journals or as book chapters in the area of cardiovascular sciences. He is co-editor of 2 books; "Biochemistry of Diabetes and Atherosclerosis" and "Phospholipases in Health and Disease". Dr. Tappia also serves on the Editorial Boards for 3 international journals, Molecular and Cellular Biochemistry, Clinical Lipidology and Annals of Nutritional Disorders & Therapy as well as on CV Network. He has given 29 invited lectures.



**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.



**Yuan Tian** is Core Director of the Mass Spectrometry Laboratory for the San Antonio Cardiovascular Proteomics Center and the Mississippi Center for Heart Research in the Department of Physiology and Biophysics at the University of Mississippi Medical Center. Dr. Tian's research interests are glycobiology in cardiovascular diseases and biomarker discovery, and she has published over 25 articles. Her recent research has focused on glycoproteomics and mass spectrometry-driven protease substrate degradomics. Dr. Tian is an Associate Editor for MOJ Proteomics & Bioinformatics and reviews for several proteomics and cardiovascular journals.



**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 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.



**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 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 articles 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.



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



**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 Clin-

ical Investigation. Among his multiple honors 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.



**Karl T. Weber** is the Neuton 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

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 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).



**Christopher White** received his BSc (Medicine) and MD from the University of Manitoba in 2009, and subsequently began his post-graduate medical education in Cardiac Surgery at the University of Manitoba. In 2012, he took a leave of absence from clinical responsibilities to pursue a PhD under the supervision of Dr. Darren Freed. His research focuses on investigating novel methods of resuscitating marginal donor hearts in

an effort to increase the number and quality of donor organs available for cardiac transplantation. Following completion of his PhD and cardiac surgery residency, he plans on pursuing a clinical fellowship in mechanical circulatory support and cardiac transplantation.



**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).



**Shetuan Zhang** is an Associate Professor of Physiology in the Department of Biomedical and Molecular Sciences at Queen's University, Kingston, Ontario. He obtained his PhD at Tokyo Medical and Dental University and completed his postdoctoral training at University of Wisconsin and University of British Columbia. He was a Principal Investigator at St. Boniface Research Centre and Assistant Professor in the Department

of Physiology at University of Manitoba. His research area is cardiac ion channels and he has identified molecular mechanisms of cardiac arrhythmias and sudden death caused by various conditions such as hypokalemia. He is an executive committee member of Queen's University Cardiac, Circulatory, and Respiratory Research Program, and he is the recipient of Heart and Stroke Foundation of Ontario Career Investigator Award.



**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.



## INDO-CANADIAN SYMPOSIUM

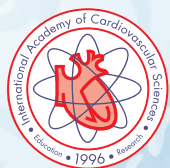
# HEART FAILURE: PROGRESS AND PROSPECTS

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Chronic heart failure is a common debilitating disease, imposing substantial burden on patients, caretakers, doctors and policy makers. This symposium is aimed to provide a platform for exchange of views and ideas in heart failure research among scientists from India and abroad and to sensitize cardiologists, scientists, academicians and students to recent developments in heart failure research. The conference would address new strategic approaches to translate the recent advances in heart failure research for prevention and treatment of patients with cardiac failure.

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**Ann Mary Johnson**, RGCB, India

**Amarjit Arneja**, University of Manitoba,  
Canada

**Balwant Tuana**, University of Ottawa, Canada

**Balram Airan**, AIIMS, India

**Belma Turan**, Ankara University, Turkey

**Danielle Jacques**, Université de  
Sherbrooke, Canada

**Devendra K Agrawal**, Creighton  
University School of Medicine, USA

**Dinender K Singla**, University of Central  
Florida, USA

**Ghassan Bkaily**, Université de  
Sherbrooke, Quebec, Canada

**G Vijayaraghavan**, KIMS, India

**Harpal S Buttar**, University of Ottawa,  
Canada

**Jan Kyselovic**, Comenius University  
Bratislava, Slovakia

**Jacob Joseph**, Brigham & Women's  
Hospital, USA

**Kenneth Rockwood**, Dalhousie  
University, Canada

**K Suresh**, SK Hospital, India

**K Shivakumar**, SCTIMST, India

**Madhu Khullar**, PGIMER, India

**Meenakshi Sharma**, ICMR, India

**Morris Karmazyn**, University of  
Western Ontario, Canada

**Mullasari Ajit Sankardas**, Madras  
Medical Mission, India

**Naranjan Dhalla**, Institute of  
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**N Ravi Sundaresan**, IISc, India

**Praveen K Varma**, SCTIMST,  
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**Pawan K Singal**, Institute  
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