

# CV network

**A special edition to celebrate the Academy's 15th Anniversary and publication of CV Network for 10 years**

**THE OFFICIAL BULLETIN OF THE INTERNATIONAL ACADEMY OF CARDIOVASCULAR SCIENCES VOL 10 NO 1 WINTER 2011**

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## Recipients of the Academy's most prestigious Medal of Merit for Outstanding Achievements in Cardiovascular Education & Research



Michael DeBaakey    Richard Bing    Edwin Krebs    Robert Furchgott    Eugene Braunwald    Robert Lefkowitz    Sir John Vane    James Willerson



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## The International Academy of Cardiovascular Sciences is Promoting Cardiovascular Education, Research and Patient Care through Seven Sections and Communications to the World!



Map courtesy of Bill Hoffman MBBNet shows locations of IACS offices

### Our Mission

**To promote cardiovascular education of professionals and lay people and to recognize major cardiovascular achievements throughout the world.**

### Structure

The International Academy of Cardiovascular Sciences is a non-profit organization which is registered in Canada and in the United States. The IACS is structured with an international executive and board members, with headquarters in Winnipeg, Manitoba, Canada. At present, the Academy has established seven sections in India, Japan, China, Russia, Europe, South and North America which are operating independently, but in a coordinated fashion. IACS has 234 Fellows and 22 Fellows Emeritus (cardiologists, cardiac surgeons and scientists from more than 40 countries), who have been elected in recognition of their distinguished achievements. IACS presents endowed awards and bestows its prestigious Medals of Merit annually.

The Academy, through global involvement builds linkages and encourages networking through traditional means of journals, texts and symposia. Its quarterly Bulletin "CV NETWORK" is sent directly to over 3,000 professionals online as well as being included on the IACS Web Site – [www.heartacademy.org](http://www.heartacademy.org) with links to online talks and social media.

Accordingly, IACS can be viewed to possess essential elements of international connectivity, diverse expertise and established communication links to launch dynamic new initiatives to lower the effects of what is becoming a global pandemic – cardiovascular diseases.

### Officers:

Sir Magdi Yacoub, President, Harefield, UK  
Dr. James Willerson, President-Elect, Houston, USA

Dr. Stephen F. Vatner, Past-President, Newark, USA  
Dr. Makoto Nagano, Chairman, Tokyo, Japan  
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### Headquarters:

International Academy of Cardiovascular Sciences  
c/o Institute of Cardiovascular Sciences  
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The Academy is registered to give tax deductible receipts in Canada (International Academy of Cardiovascular Sciences Inc.) as well as in the United States (Academy of Cardiovascular Sciences Foundation USA Inc.). An appropriate receipt will be issued for memberships, gifts and donations.

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1. Sir Magdi Yacoub, President, Harefield, UK
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## NOMINATIONS WANTED for PRESIDENT ELECT

On July 1, 2011 the Academy's fourth President will assume the office for his three year term. Dr. James Willerson was selected as President Elect three years ago.

He succeeds Sir Magdi Yacoub who followed Dr. Stephen Vatner and the Academy's Founding president Dr. Howard Morgan.

We ask nominators to obtain the approval of their candidate and provide a short CV. Prior to Dec 31/10, please send to the attention of Ivan Berkowitz at [ivan@mts.net](mailto:ivan@mts.net)

## Request for Nominations of Fellows

The Academy is requesting nominations for the appointment of Fellows with distinguished careers in cardiovascular health care delivery, research and education. Since these fellowships are intended to recognize the long time services of individuals to the cardiovascular community, it is important to highlight their major features of distinction in your nomination. Please send a one page summary of accomplishments for each nominee and it is understood that each nominator will obtain consent of the individual before submitting the nomination. All nominations will be vetted by their respective Sections of the Academy and the Section Officers will make their recommendations. These lists will then be sent to the Academy's Executive Council for their rank order. Final selection of a limited number of individuals will be made by the Executive Committee. Please note that the number of Fellows will not exceed 250 at any given time.

**Please send us your suggestions before March 15, 2011 care of Ivan Berkowitz via e-mail: [ivan@mts.net](mailto:ivan@mts.net).**

# I A C S F E L L O W S

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## FELLOWS EMERITUS

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Sao Paulo, Brazil

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Montpelier, France

Dr. Myron L. Weisfeldt  
Baltimore, USA

## FIFTEEN YEARS OF IACS MEETINGS HELD AROUND THE WORLD!

### 1996

1. Manitoba Cardiovascular Forum  
Angiotensin II Receptor Blockade:  
Physiological and Clinical Implications,  
Winnipeg, Canada (October 18-20) –  
Chairmen: Robert Beamish and Naranjan  
Dhalla

2. Inotropic Agents and Heart, Tokyo,  
Japan (November 18-19) - Chair:  
Nobuakira Takeda

### 1997

1. 5th Annual Research Symposium,  
Cardiovascular System, Commonwealth  
of Dominica, West Indies (March 6-11) –  
Chair: S. S. Parmar

2. Conference on Prevention and  
Treatment of Cardiovascular Diseases,  
Smolenice, Slovak Republic (September  
17-20) – Chair: Jan Slezak

3. First Asia-Pacific Congress on  
Hypertension, Surat, India (December) –  
Chair: S. Vajpeyee

4. Cardiovascular Scientific Forum VII,  
Belo Horizonte, Brazil (December 10-14)  
– Chair: Otoni Gomes

### 1998

1. International Symposium on Heart  
Disease, Cairo, Egypt (May 18-24) – Chair:  
Mohsen Ibrahim

2. Yoshio Ito Memorial Symposium at the  
XVI World Congress of the International  
Society for Heart Research, Rhodes,  
Greece (May 27-31) – Chairmen: Makoto  
Nagano and Naranjan Dhalla

3. International Conference on Heart in  
Stress, Helsinki, Finland (June 28 - July 3)  
– Chairmen – D. K. Das and C. K. Sen

4. International Conference on Cardiac  
Hypertrophy, Tokyo, Japan (October 7-9)  
– Chairmen: M. Nagano and N. Takeda

5. Scientific Forum on Heart Failure, Belo  
Horizonte, Brazil (December 11-15) –  
Chair: Otoni Gomes

### 1999

1. International Conference on Antioxidant  
Therapy in Heart Disease, Bombay, India  
(January 7 - 8) - Chair: K.G. Nair

2. International Conference on Diabetes  
and Cardiovascular Disease, Winnipeg,  
Canada (June 4 -7) – Chairmen: A. Angel  
and Naranjan Dhalla

3. International Congress on  
Atherosclerosis, Hypertension and  
Coronary Artery Disease, New Delhi,  
India (October 14-16) - Chair: S. Rastogi

4. Asia-Pacific Congress, Lahore, Pakistan  
(October 17-22) – Chair: S. A. Sheikh

5. Scientific Forum on Heart Failure,  
Belo Horizonte, Brazil (December) –  
Chair: Otoni Gomes

### 2000

1. Developing Heart Conference,  
Prague, Czech Republic (May 18) –  
Chair: B. Ostadal



## 2001

1. International Conference on Pathophysiology and Drug Therapy of Cardiovascular Disorders, Patiala, India (January 22-26) – Chair: M. Singh
2. XVII World Congress of the International Society for Heart Research, Frontiers in Cardiovascular Health Winnipeg, Canada (July 6-11) – Chair: Naranjan Dhalla
3. 1st Annual Public Heart Forum, Winnipeg, Canada (July 6) Coordinator: Ivan Berkowitz
4. 1st Annual Meeting of IACS - Japan/24th Annual Meeting of the Japanese Section of Cardiac Structure and Metabolism, Beppu, Japan (December 2-9) – Chair: N. Makino

## 2002

1. International Symposium and Workshop Advances in Cardiovascular Research, Trinidad, West Indies (March 4-8) – Chair: Junor Barnes
2. 2nd Annual Public Heart Forum, Winnipeg Canada (May 25) - Coordinator: Ivan Berkowitz
3. “The Failing Heart” Symposium organized by the Slovak Academy of Sciences, Stara Lesna, the High Tatras, Solavak Republic (July 1-3) – Chair: Tania Ravingerova
4. 2nd Annual Meeting of IACS - Japan/25th Annual Meeting of the Japanese Section of Cardiac Structure and Metabolism, Sapporo, Japan (July 19-20) – Chair: Hideaki Kawaguchi
5. 1st IACS World Congress – South America/Scientific Forum XII, Belo Horizonte, Brazil (November 28 -30) – Chair: Otoni Gomes

## 2003

1. India Section – IACS sponsored the Annual Conference of ISHR, Chandigarh, India (February 7 - 9) – Chair: Anil Grover
2. 3rd Annual Public Heart Forum, Winnipeg Canada (June 7) - Coordinator: Ivan Berkowitz
3. 3rd Annual Meeting of IACS - Japan/26th Annual Meeting of the Japanese Section of Cardiac Structure and Metabolism, Tokyo, Japan (July 19-20) - Chair: Teruhiko Toyo-Oka

4. Mendel Symposium: Genes and the Heart, Brno, Czech Republic (August 26 – 29) - Chair: Pavel Braveny
5. 2nd Brazilian Symposium on Experimental Cardiology, Sao Paulo, Brazil (September 21) Chair: Otoni Gomes
6. IV International Symposium on Myocardial Cytoprotection, From Basic Science to Clinical Perspectives Pecs, Hungary (September 25-27) - Chair: Elizabeth Roth
7. 1st IACS World Congress/II Annual Meeting ICAS – South America/Scientific Forum XIII – Belo Horizonte, Brazil (October 11 - 15) - Chair: Otoni Gomes

## 2004

1. International Symposium on Pharmacotherapy of Heart Failure, New Delhi, India (January 7-9) Chair: Suresh Gupta
2. Joint Conference with ISHR (Indian Section), Lucknow, India (January 9-11) - Chair: V.K.Puri
3. 83rd Meeting of the German Physiological Society, Leipzig, Germany (March 14-17) - Chair: Heinz-Gerd Zimmer
4. Ignacio Chavez Rivera Symposium on Cardiovascular Disease, Mexico City, Mexico (April 30) - Chairs: Daniel Villarreal and Angel Zarain-Herzberg
5. 1st Annual National Research Forum for Young Investigators in Circulatory and Respiratory Health Winnipeg, Canada (May 6-8) - Chair: Naranjan Dhalla
6. 4th Annual Public Heart Forum, Winnipeg Canada (June 12) - Coordinator: Ivan Berkowitz

7. Sudden Unexpected Cardiac Death – new diagnostic modalities and treatment. Genetics in cardiovascular disease, Copenhagen, Denmark (June 14-18) - Chair: Thomas A Schmidt
8. 4th Annual Meeting of IACS - Japan/27th Annual Meeting of the Japanese Section of Cardiac Structure and Metabolism, Osaka-Senri, Japan (July 17-18) - Chair: Ryoji Matoba

9. Cardioforum - SBC-FUNCOR 2004 - International Seminar on Promotion of Cardiovascular Health, Rio de Janero, Brazil (September 26) - Chair: David Brasil
10. III Annual Meeting IACS – South America/XXXI Argentine Congress of Cardiology Symposium, Buenos Aires, Argentina (October 8) - Chairs: Ricardo Gelpi and Celina Morales
11. CardioGlobal International Intensive Cardiology Education Program Alpha Villa, Brazil (October 13 – 17) – Chair: Raimundo Nascimanto
12. Teaching Course Faith and Disease - Focus on the importance of faith in heart disease, Rome, Italy (December 1-5) – Chair: Thomas A Schmidt
13. Scientific Forum XIV – Belo Horizonte, Brazil (December 2-5) - Chair: Otoni Gomes
14. Joint International Conference of International Academy of Cardiovascular Sciences and International Society for Heart Research (Indian Section) Bench to Bedside in Gandhi’s Gujarat Ahmedabad, India (December 31-January 2) - Chair: Ramesh Goyal,

## 2005

1. NATO Advanced Research Workshop Stress-Induced Biochanges in the Heart: From Genes to Bedside, Antalya, Turkey (February 2-7) Chairs: Belma Turan and Jan Slezak
2. 2nd Annual National Research Forum for Young Investigators in Circulatory and Respiratory Health Winnipeg, Canada (May 6-8) - Chair: Naranjan Dhalla
3. Advances in Cardiology Research – Molecular and Genetic Bases of Cardiovascular Disease, Smolenice, Slovak Republic (June 13 – 16) – Chair: Jan Slezak
4. 5th Annual Meeting of IACS - Japan/28th Annual Meeting of the Japanese Section of Cardiac Structure and Metabolism, Hamamatsu, Japan (July 16-17) - Chair: Hideharu Hayashi
5. Heart Failure Symposium - Recife, Brazil (September 9-10) Chair: Domingos Melo

6. SIMPÓSIO INTERNACIONAL BRASIL-CANADÁ 2005 Porte Allegro 2nd Annual Cardio-Global (September 18-21 ) – Chair: David Brasil

7. IV Annual Meeting IACS – South America/XXXII Argentine Congress of Cardiology Symposium, Buenos Aires, Argentina (October 7) - Chair: Ricardo Gelpi

8. Scientific Forum XV – Rio de Janero, Brazil (December 8-10) - Chair: Otoni Gomes

## 2006

1. Joint International Conference of International Academy of Cardiovascular Sciences and International Society for Heart Research, (Indian Section). Chennai, India (Jan. 12 - 14, 2006) Chair: Suresh Kumar

2. 3rd Annual National Research Forum for Young Investigators in Circulatory and Respiratory Health. Winnipeg, Canada (May 4-7) - Chair: Naranjan Dhall

3. "From Vascular Biology to the Atherosclerosis Prevention: An Eastern European Perspective", Satellite Symposium of the XIV International Symposium on Atherosclerosis. Belgrade, Serbia (June 15-16)- Chair: Dragan Djuric

4. 2nd ICAS World Congress, Sapporo, Japan (July 14 - 16) Chair: Hideaki Kawaguchi

5. V International Symposium on Myocardial Cytoprotection. Pecs, Hungary (Sept. 28- 30) Symposium President: Erzsebet Roth

6. Global Conference on Heart Health & Disease, Winnipeg, Canada (Oct. 12-15) Conference Director – Ivan Berkowitz

7. 1st Symposium on the Future of Heart Health, Winnipeg, Canada (Oct. 14) Chair: Alan Menkis

8. Scientific Forum XVI – Rio de Janero, Brazil (December 7-10) - Chair: Otoni Gomes

## 2007

1. International Symposium on Cardiovascular Research, Holguin, Cuba (Jan. 25 – 27) Chairman: Delfin Rodriguez Leyva

2. Joint International Conference of International Academy of Cardiovascular Sciences and International Society for Heart Research, (Indian Section). Bikaner, India (Feb. 16 -18). Chair: Raja Babu Panwar

3. Southern Society for Clinical Investigation, New Orleans, USA (Feb 8 10) Chair: Karl Weber "Nutrition, Treatment and Cardiovascular Risk Management, Novi Sad, Serbia (May 24 – 27). Chair: Dragan Djuric

4. 6th Annual Meeting of IACS – Japan, Kyoto, Japan (July 14-15) - Chair: Akira Matsumori

5. Scientific Forum XVII – Belo Horizonte, Brazil (Nov. 22 - 25) - Chair: Otoni Gomes

## 2008

1. Joint International Conference of International Academy of Cardiovascular Sciences and International Society for Heart Research, (Indian Section). Chandigarh, India (Fe. 29 – Mar. 2) Chair: Kewal K. Talwar

2. Southern Society for Clinical Investigation, New Orleans, USA (Feb 21 - 23) Chair: Karl Weber

3. NATO Advanced Research Translational Knowledge for Heart Health, Istanbul, Turkey (May 12 - 16) Chairs: Belma Turan and Vladimir Smirnov

4. 1st International Symposium "Myocardial Protection from Lab to Man", Amman, Jordan (May 19 – 22) President: Said Khatib

5. 7th Annual Meeting of IACS – Japan, Kyoto, Japan (July 14-15) - Chair: Hideharu Hayashi

6. 2nd Symposium on the Future of Heart Health, Winnipeg, Canada (Sept. 20) Chair: Alan Menkis

7. Mendel Symposium II – Genes and The Heart, Castle Liblice, Czech Republic (Sept 24 – 27) Chair: Bohuslav Ostadal

8. "Advances in Cardiovascular Research", Devin-Bratislava, Slovakia (Sept. 27 – 29) President; Jan Slezak

9. Scientific Forum XVIII Belo Horizonte, Brazil (Nov. 27 - 29) - Chair: Otoni Gomes

10. Joint International Conference of International Academy of Cardiovascular Sciences and International Society for Heart Research, (Indian Section). Surat, India (Dec. 13-15) Chair: Shailendra Vajpeyee

11. 3rd International Symposium on Recent Advances in Cardiovascular Sciences, New Delhi, India (Dec. 17) Chair: Suresh Gupta

## 2009

1. 3rd IACS World Congress, Copenhagen, Denmark (June 18 -19) Chairmen: Keld Kjeldsen and Dan Atar

2. 8th Annual Meeting of IACS – Japan, Osaka Japan (July 4 - 5) – Chair: Hideo Kusuoka

3. "Harold Buchwald Memorial Heart Lecture" by Jay Cohn "A STRATEGY FOR EVERYONE TO LIVE PAST 110!", Winnipeg Canada (Sept. 25) Chair: Ivan Berkowitz

4. "Heart Health and Disease" dedicated to 75th Birthday of Attila Ziegelhoffer, (Nov. 12) Bratislava, Slovak Republic Chair: Tana Ravingerova

5. Scientific Forum XIX – Rio de Janero, Brazil (Oct. 29 – 31) Chair: Otoni Gomes

## 2010

1. Joint International Conference of International Academy of Cardiovascular Sciences and International Society for Heart Research, (Indian Section). "Recent Advances in Cardiovascular Sciences", New Delhii, India (Feb. 3 & 4) Chair: Shyam S. Agrawal

2. International Symposium on Scientific Basis for the Practice of Cardiology on the occasion of the 70th Birthday of Bohuslav Ostadal, Prague, Czech Republic (Apr 8 – 11) Chair: Frantisek Kolar

3. "Advances in Cardiovascular Research" dedicated to 70th Birthday of Jan Slezak Smolence, Slovak Republic (June 6 – 9) Chair: Jan Styk

4. 3rd Symposium on the Future of Heart Health, Winnipeg, Canada (Sept. 25) Chair: Alan Menkis

5. VI International Symposium on Myocardial Cytoprotection. Pecs, Hungary (Oct. 7-9), 2006) Symposium President: Erzsebet Roth

6. Scientific Forum XX – Sao Paulo, Brazil (Dec. 2 - 4) - Chair: Otoni Gomes



## M E D A L S   O F   M E R I T

On behalf of President Sir Magdi Yacoub, the Academy is honoured to announce our recipients for 2010 of the Academy's highest honour **The Medal of Merit for Outstanding Achievements in Cardiovascular Education & Research** for: Dr. Arnold M. Katz and Dr. László Szekeres. Details of their distinguished careers follow:



### Dr. Arnold M. Katz

Understanding of the physiology of the heart from both a basic science and medical science perspective has been a life-time achievement for Arnold M. Katz, who has contributed significantly to both aspects of cardiovascular research. Among his ground-breaking achievements include his co-discovery of the phospholamban protein, which is critical in regulating calcium transport, as well as his innovative contributions regarding contractile proteins in the heart. He has established a legacy where his knowledge of the cardiovascular system has permeated throughout medicine and basic science in a variety of forms including lectures, published journal articles, and books, in addition to his involvement in a vast number of societies, editorial boards, committees and fellowships. Arnold M. Katz was elected for a 3-year term as the President of the American section of the International Society of Heart Research, after being an integral part of it for more than 20 years in a variety of capacities including being a member of the board and on advisory committees. His involvement with the International Society of Heart Research contributed to promoting its influence and development in the world of cardiovascular sciences. In addition to being a reviewer for a number

of high impact journals, including *Nature*, *The New England Journal of Medicine*, and *Science*, he has served on the editorial boards of the *American Heart Journal*, *Circulation*, and *Circulation Research*. He also was Editor-in-Chief of the *Journal of Molecular and Cellular Cardiology* for 6 years where he promoted its standards and impact factor among cardiovascular journals. In addition to his contribution to journals, he has also authored numerous books, including the *Physiology of the Heart* that is currently in press for its fifth edition. Arnold M. Katz understands the importance of teaching the future generation of cardiovascular scientists and clinicians which is reflected in his enthusiasm when interacting with the younger learning generation and stimulating their curiosity. He has received numerous Outstanding Teaching Awards, and served as the Chairman of numerous student award committees for the American Heart Association including the Summer Student Research Award, Young Investigators Award, and, most notably, the Louis N Katz Prize Committee, awarded to outstanding young investigators. In 1995 he was an Honoree for the AHA Young Investigator Award for Basic Research. The diversity of his accomplishments is exemplified by the variety of topics that he is knowledgeable in, including the history preceding modern medical science, specifically pertaining Ancient Greece and Hippocrates. The pervasiveness of Arnold M. Katz in cardiovascular sciences is reflected in his promotion of the scientific basis of the practice of cardiology on an international level. He highlighted the significance of biochemical and molecular mechanisms of cardiac dysfunction and brought it to the attention of investigators all over the world, predominantly through his numerous symposiums and invited lectures and professorships. His invaluable contributions to the cardiovascular field have caused him to be likened to a Pope of this area among his colleagues.



### Dr. László Szekeres

With over half a century of experience researching cardiovascular disease, Dr. László Szekeres is nearing his 90th birthday with the distinguished title of Professor Emeritus of the Institute of Pharmacology and Therapeutics in the Medical Faculty of the University of Szeged, Hungary. In his early days as a scientist, he received numerous scholarships and grants, and studied as a "Riker" fellow at the University of Oxford. In addition, he was elected twice as a member of the Organizing Committees of the II (Prague 1962) and VII (Paris 1978) World Congress of the International Union of Pharmacology (IUPHAR). From 1967-1991 he served as a Professor and Director of the Department of Pharmacology, University Medical School of Szeged, during which from 1968-1977 he was the Pro-rector. Dr. Szekeres studied various aspects of heart disease, including metabolic changes as a result of hypoxia and ischaemia, researching mechanisms to prevent sudden cardiac death due to acute myocardial infarction, and the effects of prostacyclin and 7-oxo-prostacyclin on angina pectoris as endogenous cardioprotective components. However, his most significant contributions to the field of cardiovascular research stems from his work on arrhythmias. He was the first to outline a comprehensive analysis of the mode of action of anti-arrhythmic drugs, elaborating on several "in vivo" models of experimental arrhythmias and contributing to the elucidation of they occur. Throughout

his career he received numerous honorary degrees and memberships including, 'Doctor Honoris Causae' from both the Jagellonian University of Cracow and Karl Eberhard Universitaet, as well as being an Honourary member of the Czechoslovak Pharmacological Society and the Polish Physiological Society. He has served on numerous editorial boards including the *Journal of Cardiovascular Pharmacology*, *European Journal of Pharmacology*, *Canadian Journal of Cardiology*, *Journal de Pharmacologie (Paris)*, and *Acta Medica Hungarica*. One of his crowning achievements, however, was his establishment of the East-European Subsection of ISHR where he served as president from 1984-1993, being a crucial player in promoting this subsection's joining to the European section of ISHR. He accomplished this while serving as a Councilor of ISHR from 1983-1992. He was also the founder of the "Szeged School of Cardiovascular Pharmacology" which is now an internationally renowned cardiovascular research center. He has received numerous awards and distinctions, including the Bronze Medal of the Helsinki University, Hungarian State Gold Medal of the "Order of Labour", two awards from the Hungarian Ministry of Education and Culture for high standard textbook and monograph, the first "Gábor György" Award and Medal of the Hungarian Society of Cardiology as well as the Medal of Merit of ISHR and the first "Howard Morgan Award for Distinguished Achievements in Cardiovascular Sciences" from the International Academy of Cardiovascular Sciences. In addition, in 2002 he was honoured by denominating the symposia regarding cardiac arrhythmia: Szekeres Symposium. He has also been an invited speaker to numerous congresses and symposia through Europe and the world including Canada, US, Japan, Israel, India, and China. In summary, he has published 295 full text articles in peer-reviewed journals and books, 76 book chapters, 304 abstracts, and edited 7 books. In addition to his meritorious contributions to the field of heart research, where he is regarded as a sophisticated, intelligent speaker and an amiable gentleman, he is also an accomplished painter.

## Medal of Merit Recipients

<b>2001</b> Michael DeBakey (Houston, USA) ~ Richard Bing (Pasadena, USA)	<b>2002</b> Edwin Krebs (Seattle, USA) ~ Robert Furchgott (Brooklyn, USA)	<b>2003</b> Eugene Braunwald (Boston, USA) ~ Robert Lefkowitz (Durham, USA)	<b>2004</b> Sir John Vane (London, UK) ~ James Willerson (Houston, USA)	<b>2005</b> Sir Magdi Yacoub (London, UK) ~ Robert B. Jennings (Durham, USA)
<b>2006</b> Sir George Radda (Singapore) ~ Victor Dzau (Durham, USA)	<b>2007</b> Louis Ignarro (Los Angeles, USA) ~ Sen. Wilbert Keon (Ottawa, Canada) ~ Jutta Schaper (Bad Nauheim, Germany)	<b>2008</b> Nirmal Ganguly (New Delhi, India) Salvador Moncada (London, UK) Wolfgang Schaper (Bad Nauheim, Germany) Howard Morgan (Winfield, USA)	<b>2009</b> Ernesto Carafoli (Padua, Italy) ~ Eric Olson (Dallas, USA)	<b>2010</b> Arnold M. Katz (Norwich, USA) ~ Laszlo Szekeres (Szeged, Hungary)

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

<b>2002</b> Chong-Chin Liew (Boston, USA)	<b>2003</b> Bal K. Sharma (Haryana, India)	<b>2004</b> Bruce McManus (Vancouver, Canada)	<b>2005</b> Karl Weber (Memphis, USA)	<b>2006</b> John Solaro (Chicago, USA)	<b>2009</b> Agnes Vegh (Szeged, Hungary)
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## Recipients of the Norman Alpert Award for Established Investigators in Cardiovascular Sciences

<b>2002</b> Jan Slezak (Bratislava, Slovak Republic)	<b>2003</b> Bohuslav Ostadal (Prague, Czech Republic)	<b>2004</b> N K Ganguly (New Delhi, India)	<b>2005</b> K K Talwar (Chandigarh, India)	<b>2006</b> Seiryō Sugiura (Tokyo, Japan)	<b>2009</b> Stephen Schaffer (Mobile, USA)
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## Recipients of the Howard Morgan Award for Distinguished Achievements in Cardiovascular Research

<b>2002</b> Laszlo Szekeres (Szeged, Hungary)	<b>2003</b> K. Gopal Nair (Mumbai, India)	<b>2004</b> Shunzo Onishi (Tokyo, Japan)	<b>2005</b> Roberto Bolli (Louisville, USA)	<b>2006</b> Heinz Gerd Zimmer (Leipzig, Germany)	<b>2009</b> Dipak Das (Farmington, USA)
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# IACS AWARD WINNERS

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

<b>2002</b> Aiji Sakamoto (Tokyo, Japan)	<b>2003</b> Luiz Souza (Curitiba, Brazil)	<b>2004</b> Sukhinder Cheema (St. John's, Canada)	<b>2005</b> Richard Shulz (Edmonton, Canada)	<b>2006</b> Balwant S. Tuana (Ottawa, Canada)	<b>2009</b> Hideo Baba (Essen, Germany)
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## Distinguished Service

<b>2003</b> Pavel Braveny (Brno, Czech Republic) ~ Otoni Gomes (Belo Horizonte, Brazil) ~ Elizabeth Roth (Pecs, Hungary)	<b>2004</b> V K Puri (Lucknow, India) ~ Suresh K. Gupta (New Delhi, India) ~ Fause Attie (Mexico City, Mexico) ~ Daniel Villarreal (Syracuse, USA)	<b>2005</b> Ramesh K Goyal (Vadodara, India) ~ Belma Turan (Ankara, Turkey) ~ David Brasil (Belo Horizonte, Brazil) ~ Wagner Padua Filho (Belo Horizonte, Brazil) ~ Dennis McNamara (New Orleans, USA)	<b>2006</b> Hideaki Kawaguchi (Sapporo, Japan)	<b>2008</b> Robert Kalina (Oakville, Canada) ~ Frantisek Kolar (Prague, Czech Republic)	<b>2009</b> Keld Kjeldsen (Copenhagen, Denmark)	<b>2010</b> Attila Ziegelhoffer (Bratislava, Slovak Republic)
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## Distinguished Achievement

<b>2001</b> Jacques Genest  ~ Ruth Collins-Nakai (Edmonton, Canada)
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## Lifetime Achievement

<b>2005</b> Newman Stephens (Winnipeg, Canada) ~ Onkar Tripathi (Lucknow, India) ~ Keld Kjeldsen (Copenhagen, Denmark) ~ Bohuslav Ostadal (Prague, Czech Republic)	<b>2006</b> Donald Beanlands (Ottawa, Canada)	<b>2009</b> Stig Haunso (Copenhagen, Denmark)	<b>2010</b> Jan Slezak (Bratislava, Slovak Republic) ~ Elizabeth Roth (Pecs, Hungary) ~ Otoni Gomes (Belo Horizonte, Brazil)
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As we begin the 10th year of publication of CV Network, The Executive of the IACS expresses deep gratitude to all who have served this noble endeavour. We specifically thank those who have worked diligently on the Editorial Board. We recognize that we need to add some new ideas so have created a new Editorial Board as follows.

## CV NETWORK Editorial Team:

<b>Editor:</b> Ivan Berkowitz	Dragan Djuric, Serbia	Frantisek Kolar, Czech Republic	Pramajit Tappia, Canada
<b>Assistant Editor:</b> Alison Muller, Canada	Wafia Etieba, USA	Naoki Makino, Japan	Belma Turan, Turkey
<b>Editorial Board:</b> S. S. Agrawal, India	Ricardo Gelpi, Argentina	Rizwan Manji, Canada	Enn Seppet, Estonia
Rui M. S. Almeida, Brazil	Otoni Gomes, Brazil	Nilanjana Maulik, USA	Stephen Schaffer, USA
M. Balasubramanyam, India	Suresh Gupta, India	Dennis McNamara, USA	Qiming Shao, China
	Jennifer Hall, USA	U. Muller-Werdan, Germany	Nobuakira Takeda, Japan
	C. C. Kartha, India	Tanya Ravingerova, Slovakia	Teruhiko Toyo-Oka, Japan
	Gania Kessler-Icekson, Israel	Leonid Rosenshtaukh, Russia	Agnes Vegh, Hungary



## Position Paper for the International Academy of Cardiovascular Sciences: A New Strategic Direction for the Academy

*Prepared by Grant N. Pierce, PhD, FACC, FAHA, FAPS, FISHR, FIACS, FCAHS, OFRSM, Scientific Director, International Academy of Cardiovascular Sciences, Executive Director of Research, St Boniface Hospital, Professor of Physiology and Pharmacy, University of Manitoba, Winnipeg, Manitoba, Canada on October 26, 2010 at the request of the Executive Director of the Academy, Dr NS Dhalla*

### **Background history of the International Academy of Cardiovascular Sciences (IACS)**

Although great strides have been made in improving the death rate from heart disease, heart attacks and related problems are still the number one cause of death in the world. Research has provided impressive advances in our treatment of heart disease but its translation into clinical practice and its adoption in countries beyond the industrialized world has not been optimum. The International Academy of Cardiovascular Sciences was founded in 1996 and is headquartered in Winnipeg, Manitoba, Canada. Established by renowned Cardiovascular Scientists, Surgeons and Cardiologists, the Academy provides the organizational structure for the world-wide sharing of research and education information in the field of heart health. The mission of the Academy is to promote cardiovascular education to professionals and lay people and to recognize major cardiovascular achievement throughout the world. The Academy believes that The Academy, through world-wide representation, builds connectivity and encourages networking through traditional means of journals, texts and symposia, a quarterly Official Bulletin "CV NETWORK" as well as developing an interactive Web Site - WWW.HEARTACADEMY.ORG - which will result in more rapid and wider availability of the latest discoveries to help save lives.

### **Purpose of the Academy - A new direction for IACS:**

It is proposed in this Position Paper that the primary goal of the Academy will be to provide high quality education on health to underdeveloped nations and underprivileged peoples within selected regions of the world. The focus of the education is on heart health. The objective is to provide the latest information on heart disease in order to improve health care delivery, promote strategies to prevent heart disease before it occurs, reduce the incidence of heart disease and lower health care costs associated with heart disease in these nations. This can be achieved through the effective provision of the latest developments in the field of cardiology, nutrition, preventive medicine, and cardiovascular health and disease. The information will be delivered by teams of scientists who will visit these countries and, during each visit, will meet with three segments of the society: the general public, the student population (graduate and undergraduate), and the health professionals. The information will be delivered in lecture-based format with question and answer periods at the end of the lectures. The lectures will be given at a level suitable for each of the three audiences: more general and entertaining for the lay public and more specific and detailed for those engaged full time in health care.

### **The beneficiaries of this programme:**

The countries that have received the support of the Academy in the past include Hungary, Cuba, Brazil, Serbia, Turkey, Egypt, Jordan, Argentina, Hong Kong, China, Trinidad and Tobago, Dominica, India and many more. The visits will be given in the future to countries without consideration of political philosophies or past political history, the ethnic or cultural backgrounds of the host nation, or their religious persuasion. The site of the visit will be determined solely based upon the perceived health-related benefit of the programme to the recipient country and their peoples. Priority consideration will be given to insuring the safety of the visiting scientists. Local hospitality (accommodations and meals) is provided by the host country. It is the responsibility of the host organization to insure the lectures are publicized to the general public, appropriate halls or lecture theatres are available for the programme, and students and health professionals are aware of the educational event and have every opportunity to attend the event. The goal of the host organization is to provide as many of their own people access to hear the lectures and learn from this unique educational environment.

### **The scientists of the Academy who give to the programme:**

The Academy is responsible for fielding requests from individuals or institutions who are in need of the educational services of the Academy. They will also identify needy regions within the world which may benefit from a visit from the Academy scientists. The scientists participating in this programme are world renowned with extensive publication records in the field of cardiovascular research and/or health care delivery. The Academy is responsible for organizing teams of 3-4 outstanding clinicians and scientists to travel to the countries for a period not exceeding a few days. The scientists who travel to the needy regions of the world do so at their own expense. They are taking time away from their own personal life and families and postponing their own work responsibilities within their home institutions to help out underprivileged communities. The scientists involved in the educational activities of the Academy currently represent many different countries from around the world including the USA, Canada, Germany, Japan and the Netherlands to name just a few.

It is important to note how the Academy's educational format differs from other successful educational institutions currently in place in the world. The European Heart House in Sophia Antipolis, France provides a home for young students to obtain information about heart health in a concentrated, lecture based format. Students come to the Heart House for a period of 7-10 days to learn about heart issues. This highly successful programme is supported extensively by the European Section of Cardiology. The

Academy's educational efforts differ significantly from the European Heart House in many ways and provides the Academy's new Programme with six important advantages:

- 1) Instead of students coming to the educational edifice, the Academy sends teams of scientists to the country that is identified to be in need. In essence, instead of those in need coming to you, the International Academy of Cardiovascular Sciences comes to those who are in need. This approach results in a much wider segment of the population being exposed to the information rather than just a select few who will attend the Heart House in France. We will educate the educators on a much larger scale.
- 2) The Academy's strategy addresses the primary deficiency of many third world countries whose populace cannot afford to travel outside of their city, let alone their country or their continent. The financial burden now is borne by the Academy scientists.
- 3) Having an opportunity for many young students and health professionals in underprivileged countries to meet some of the most celebrated cardiovascular scientists and clinicians in the world provides unique, powerful networking possibilities that currently do not exist for these peoples. The value of this opportunity for struggling trainees and clinicians to ask questions, share their experiences and troubles, and even to just "rub shoulders" with some of the world's most successful international cardiovascular doctors should not be underestimated.
- 4) English is the language of medical science throughout the world. In our experience, the lectures provide an important opportunity for an auditorium of young trainees or established doctors to improve their listening comprehension skills in English when English is not their native language. In addition, we have found that the opportunity to orally practice English language skills in the question-and-answer sessions (both formal and informal) is a common benefit of the visit as well.
- 5) The young people in the hosting country can make personal connections with successful international clinicians and researchers. This may eventually lead to training opportunities in the scientists' home country. This has been realized on several occasions. This is a tremendous advantage of the Academy's programme to the hosting institution.
- 6) It is important to recognize that in these days of increasing political tension in the world, the opportunity to promote a better understanding of one another's culture, country and home environment is invaluable. The potential to ultimately create lasting, friendly personal relationships amongst significant figures from two or more countries should not be ignored. This, in our experience, has been a recurring reality over the last few decades.

### Summary

The focus of the International Academy of Cardiovascular Sciences will be to provide the latest information on heart disease to underprivileged and underdeveloped countries throughout the world. The ultimate goal is to improve health care delivery, promote strategies to prevent heart disease before it occurs, reduce the incidence of heart disease and lower the health care costs associated with heart disease in these nations through lectures given about the latest developments in the field of cardiology, nutrition, preventive medicine, and cardiovascular health and disease delivered by teams of international scientists who will visit these countries. There are many significant advantages for the Academy to adopt this focus for its programs. However, perhaps the most important may be that it offers a unique strategy to improve the health of the underdeveloped world.

# POSTDOCTORAL JOINT SYMPOSIUM ON CARDIOVASCULAR DISEASES

## Paris, France May 13, 2011



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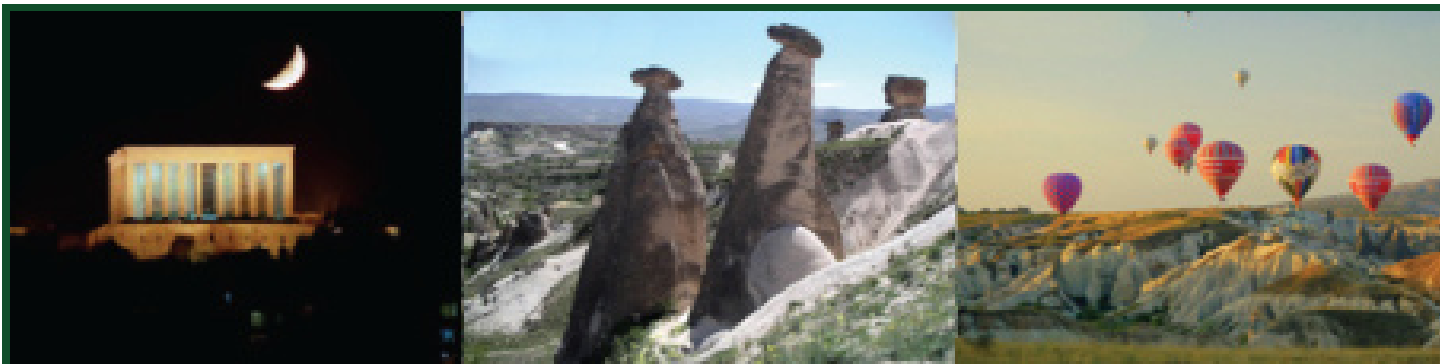


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Deptlment of Biophysics, Faculty of Medicine Ankara University, Ankara 06100, TURKEY  
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## P R E L I M I N A R Y   P R O G R A M

#### Wednesday, May 4

15:00 Registration  
17:00 – 17:15 Opening and Welcome: Dr. Belma Turan  
(Dept. Biophysics, Ankara Univ. Fac. Medicine)  
17:15 – 17:30 Opening address I: Dr. Serap Aykut Aka  
(Dept. Cardiovascular Surgery, Istanbul Univ. Faculty of Medicine)  
17:30 – 17:45 Opening address II: Dr. Cetin Erol (Dept. Cardiology, Ankara Univ. Faculty of Medicine)  
18:00 – 18:30 Opening lecture:  
19:00 – 20:00 Reception

#### Thursday, May 5

9:00 – 10:30 Session I: 3 Talks  
10:30 – 11:00 Coffee Break  
11:00 – 13:00 Session II: 4 Talks  
13:00 – 15:00 Lunch & Poster section  
15:00 – 16:30 Session III: 3 Talks

#### Thursday, May 5 (cont'd)

16:30 – 17:00 Coffee break  
17:00 – 18:30 Session IV: 3 Talks  
19:00 Dinner

#### Friday, May 6

9:00 – 10:30 Session V: 3 Talks  
10:30 – 11:00 Coffee Break  
11:00 – 13:00 Session VI: 4 Talks  
13:00 – 15:00 Lunch & Poster section  
15:00 – 16:30 Session VII: 3 Talks  
16:30 – 17:00 Coffee break  
17:00 – 18:30 Session VIII: 3 Talks  
20:00 Farewell Dinner

#### Saturday, May 7

8:00 Trip To Cappadocia (Full day)

#### Sunday, May 8

DEPARTURE



## Academy Pays Highest Tribute to Dr. Richard Bing

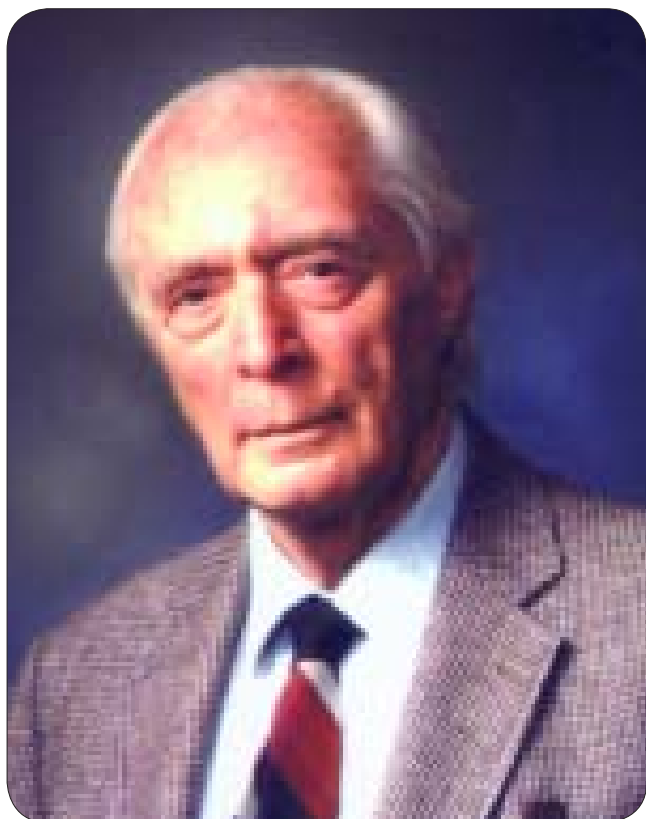
Members of the International Academy of Cardiovascular Sciences are truly saddened upon hearing the news about the passing of Dr. Richard Bing. Dr. Bing was a Founding Fellow and recipient of the Medal of Merit of the Academy. Dr. Karl Weber, Past President of the IACS – North America described Dr. Bing as “a multi-talented Renaissance man whose expertise effortlessly spanned the arts and sciences. His scholarly achievements forged new frontiers and opened vistas that gave us wings with which to fly to greater heights in search of new knowledge. Our lives will always bear his mark. His memory will not dim with the passage of time.”

Dr. Bing always showed keen interest in the development of IACS and particularly its mission to promote cardiovascular education throughout the world. He had a close relationship with numerous members and fellows of the Academy. Drs. Makoto Nagano, Nobuakira Takeda and Naranjan Dhalla, while dedicating their book ‘The Adapted Heart’ published by Raven Press in 1995 wrote: “Dr. Bing conducted pioneer and fundamental studies in the field of cardiac biochemistry and is fondly called ‘The Father of Heart Metabolism’. He trained numerous fellows in the area of investigative cardiology and promoted cardiovascular science all over the world. He played a key role in the development of the International Society for Heart Research – a forum for exchange of ideas and dissemination of multidisciplinary information in experimental cardiology and was elected its ‘Life President’. Dr. Bing was co-founder of the ‘Journal of Molecular and Cellular Cardiology’ which now ranks among the best journals in the field of cardiovascular biology”.

The memories of Dr. Richard Bing will be cherished by all of the cardiovascular community.

## Richard Bing: Doyen of Experimental Cardiology, Composer of Music

Heinrich Taegtmeyer, Houston USA



Richard Bing, the doyen of experimental cardiology and a composer of modern music died on November 8, 2010 at his home in La Canada, Calif., less than a month after his 101st birthday. He was a man of many talents which he was able to use until shortly before his death. Richard has left an indelible mark in medicine as a pioneer in hemodynamic and molecular cardiovascular research and as the first president of the International Study Group for Heart Metabolism (now the International Society for Heart Research – ISHR).

I remember clearly my first impression of Richard Bing. It was at a small meeting in 1974 when he entertained us after dinner by playing improvisations on the piano. We did not go to bed until well after midnight. Little did I know then that Richard was a composer of 20th century orchestral, chamber and choral music (over 300 pieces in total), and that his music was performed by some of the world's great orchestras, including the Vienna Philharmonic. But I know well that at that very night I got hooked on cardiovascular research.

For more than 70 years Richard Bing was at the forefront of physiology, beginning with the physiological diagnosis of congenital heart disease by cardiac catheterization, and continuing with his work on oxygen consumption and energy metabolism in the human heart and with the first method for the non-invasive assessment of coronary flow by radioactive tracers. Richard accomplished these three major advances in cardiology all by the time he was 45! His subsequent work concentrated on molecular mechanisms of the regulation of contractile proteins, cardiac hypertrophy, myocardial ischemia, vascular smooth muscle physiology, and a wide range of signaling pathways in the cardiovascular system.

Richard attracted a large number of young investigators to his laboratory. Doing molecular work at a time when the term “molecular cardiology” had not been invented meant taking great risks for all of them. Nonetheless, young physicians and scientists flocked to him from all over the world, especially from Germany and Japan. An exponent among them is Sigmundur Gudbjarnason from Iceland. Gudbjarnason pioneered work on myocardial nucleic acid and protein turnover in hypertrophy[1] and myocardial injury in the borderzone of experimental myocardial infarction,[2] almost half a century ahead of our current efforts to redefine the

same biological principle with modern molecular tools. This was probably emblematic for Richard Bing: He identified a biological phenomenon and set out to understand it with whatever tools were available to him. A more detailed account of Bing's life and work has appeared on the occasion of his 100th birthday.[3]

Many pediatric cardiologists and surgeons of congenital defects know Bing primarily as co-author of the 1949 case report of transposition with overriding pulmonary artery which carries the eponym of Taussig-Bing anomaly. However, this is not his only contribution to the body of knowledge of congenital heart defects.[4] While at the Johns Hopkins Medical School and Hospital in the 1940s, Bing was stimulated by the clinical diagnostic methods of Helen Taussig who had learned to identify certain congenital malformations by the history, physical examination, and fluoroscopic image of the heart. Being a physiologist as well as a clinician, it became clear to Bing that the strictly clinical approach left serious limitations in consistently arriving at a reliable definition of anatomic and physiologic alterations sufficient to manage the patient. He pioneered cardiac catheterization, structured exercise tests, ear oximetric studies of arterial blood, oxygen saturation runs, and other physiologic measurements that improved on the precise diagnosis of congenital cardiac defects. As a result, he was able to publish for the first time, the complete hemodynamic features of some 20 different types of circulatory birth defects. The pay-off was ultimately the successful surgical correction of most abnormalities.

Practitioners and investigators of acquired heart disease in the adult recognize the name Richard Bing as synonymous with myocardial metabolism and direct measurement of coronary blood flow in health and ischemic heart disease. He was widely known as the "Father of Cardiac Metabolism". More than half a century ago, he discovered the preferential oxidation of fatty acids by the human heart.[5] Later on he was a pioneer of imaging the heart by positron emission tomography (PET). Bing and his co-workers established that the human heart extracts almost all oxygen delivered on the arterial side, that an increase in oxygen supply can only be achieved through an increase in coronary blood flow, and that the human heart muscle is able to meet its high energy needs through the oxidation of a variety of substrates including fatty acids, glucose, lactate acetone bodies and (under certain circumstances) even amino acids.[6] However, at the time metabolism of energy providing substrates by the heart was still regarded as a "black box", and Bing expressed his frustration in no uncertain terms.[6] He felt the investigator was relegated to the stage door to watch the actors entering and leaving without ever seeing them perform on the stage.

Bing's initial observations on myocardial metabolism quickly led to more detailed biochemical studies in isolated hearts and tissue preparations, i.e. they progressed from the organ to the cellular level. Cell physiological studies preoccupied Bing's interest for nearly 50 years in the second half of his life. In his work, aided by talented fellows from around the world, he addressed such weighty issues as sarcomeric function, hypertrophy, membrane physiology, endothelial function, calcium homeostasis, NO metabolism and cyclooxygenase inhibitor. His last first author original paper came out in 2001,[7] 63 years after he published his first original paper as a single author in *Science*.[8] If there were an award for sustained creativity, Richard would be the undisputed winner. The importance of the work he set into motion is perhaps best illustrated by the formation of the ISHR, together with the Society's journal, the *Journal of Molecular and Cellular Cardiology* 40 years ago.

Richard Bing was one of the last refugee scholars educated in pre-Nazi Germany who have enriched the scientific, cultural and public life in their adopted countries, especially Britain and the United States. The death of Richard Bing also marks the end of the beginning for experimental and molecular cardiology. The cardiovascular community is fortunate to know that Richard used the last two decades of his life to record the history of cardiology in a book[9] as well as his own trials and tribulations in a series of short stories.[10-12] His last piece appeared weeks before his death.[13] In it he writes that in science we often try to show little emotion, but emotion is an important factor in our relationship to life's progress. And he continues:

"So much has been written about science – how it brings satisfaction and rewards. Much less is said about its dark side: the search for funds, the failures, the disappointments, the political machinations. But the measure of a man is not what he does when all is smooth, but what he can do in the time of defeat, adversity and neglect. The behavior of a person during adversity shows his real stuff."

Dr. Bing is survived by his son John Bing of Ewing, New Jersey; his daughter Judy Tasker of Thousand Oaks, California; and his son William Bing of Altadena, California. He was predeceased by his wife of 52 years, Mary Bing, nee Whipple, and by his daughter Barbara.

**Acknowledgements:** I thank Mrs. Roxy A. Tate for expert editorial assistance. A short documentary film entitled "Para Fuera – a Portrait of Richard Bing" was filmed at Dr. Bing's home and shown at the 2010 Sundance Film Festival. It can be viewed at [http://www.youtube.com/watch?v=EewKQqhVHM=youtube\\_gdata](http://www.youtube.com/watch?v=EewKQqhVHM=youtube_gdata)

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## VI International Symposium on Myocardial Cytoprotection – From Basic Science to Clinical Perspectives

by Istvan Szokodi and Janos Lantos, Pécs, Hungary

The Sixth International Symposium on Myocardial Cytoprotection was held in Pécs, Hungary from 7-9 October, 2010 and was a grand success for the world of cardiovascular research. Over 70 scientists from over 15 countries came together for a mix of cultural and scientific delight in Pécs discussing the latest news in cardiovascular research, development, science and technology related to myocardial cytoprotection providing a unique international meeting place for experts in the field.

The conference has been held since 1996 by Professor Elisabeth Róth from the Department of Surgical Research and Techniques of the University of Pécs, the oldest university in Hungary. Ever since, it has indeed become tradition to the cardiovascular world. This year's meeting was organized by the Department of Surgical Research and Techniques and the Heart Institute of the University of Pécs in cooperation with the Experimental Section of the Hungarian Society of Cardiology and the International Academy of Cardiovascular Sciences. The conference venue was the luxurious Hotel Palatinus located in the city center.

All the guest speakers were well received in Budapest and transported to Pécs, the beautiful southern capital of Hungary where the city stood in all its glory welcoming the guests to the European Cultural Capital of 2010. With a brisk mixture and contrast of ancient Roman culture dating back to over 2000 years and a modern remake of the city center, it provided a brilliant setting for the already well known speakers and young enthusiastic scientists in the field.



Jim Parratt and Agnes Vegh

The excitement of the conference started a day before with the pre-congress meeting chaired by Professor Miklós Kellermeyer where four state of the art lectures were held by experts in the field of cardiovascular research presenting their innovative work. Distinguished Professor Naranjan Dhalla, the Executive Director of the International Academy of Cardiovascular Sciences, Canada, who talked about the 'mechanisms of sudden cardiac death'. This was followed by 'excitation-contraction coupling of mouse embryonic cardiomyocyte: origin of the first heart beat' by Dr. Pasi Tavi, research director at the A.I. Virtanen Institute for Molecular Sciences in Finland. A sensational talk followed about the 'journey with nitric oxide: from cell culture to cardiac mechanical assist' by Dr. Nandor Marczin, consultant and senior lecturer at Harefield Hospital and Imperial College London, U.K. The final talk of the evening, 'effects of Salsate therapy on recovery from vascular injury in an animal model of insulin resistance' was held by Professor Dennis McNamara, the president of the American section of the International Academy of Cardiovascular Sciences, U.S.A.

The following day saw the opening ceremony where the organizing committee members: Dr. Janos Lantos and Dr. Istvan Szokodi and the patrons of the conference: Professor Attila Miseta, dean of the University of Pécs, Professor Naranjan Dhalla, Professor György Weber and Dr. Sandor Szabados heads of the Department of Surgical Research and Techniques and Heart institute respectively, Professor Zoltan Papp, leader of the Experimental Section of the Hungarian Society of Cardiology were introduced to the guests. Professor Elisabeth Róth then inaugurated the symposium and declared it open to the keynote lectures that followed. The first of the remarkable talks was by the internationally renowned Professor Jim Parratt (Glasgow, U.K.) who talked about decisions, directions, defects and disciplines - a ruckblick of over fifty years of biomedical research; then by Professor Naranjan Dhalla (Winnipeg, Canada) on cardioprotection of subcellular defects in ischemia-reperfusion injury; Professor Gary Baxter (Cardiff, U.K.) on cardiac peptides in myocardial ischemia-reperfusion; Professor Zoltán Papp (Debrecen, Hungary) on the aging heart; and finally Professor András Varró (Szeged, Hungary) on possible mechanisms of sudden cardiac death in top athletes. The afternoon session about the 'new aspects in the subcellular mechanisms in the heart' included talks by Heikki Ruskaaho (Oulu, Finland) on angiogenesis, cardiac hypertrophy and heart failure; Marco Mongillo (Padova, Italy) on emerging roles of cardiac sympathetic nervous system in aging and angiogenesis; Sandra Hanninen (Oulu, Finland) on mitochondrial uncoupling leading to reduced calsequestrin levels and altered calcium handling in cardiomyocytes; Laszlo Tretter (Budapest, Hungary) on mitochondria and calcium in the myocardium; Ferenc Gallyas (Pécs, Hungary) on novel mechanism of nucleus to cytosol signaling in oxidative stress; Pawan Singal (Winnipeg, Canada) on cytokine imbalance and heart failure; and finally Grant Pierce (Winnipeg, Canada) on infection, oxidized LDL and atherosclerotic heart disease. The first day of the symposium concluded with a get together party in the evening where scientists met and enjoyed the culinary delights of Hungarian cuisine and wine. Members of the organizing committee were awarded for their devotion to the quality of the conference. The evening program also saw the presentation of a Lifetime Achievements Award in Cardiovascular Sciences to Professor Elisabeth Róth for her contribution and dedication to the world of cardiovascular research over the years. The award was presented by Professor Naranjan Dhalla on behalf of the International Academy of Cardiovascular Sciences. There were special moments where old friends met new ones stirring a colorful chemistry of science and cultural relations.



Dennis McNamara and Grant Pierce

The second day of the conference started with several lectures on myocardial protection including talks by Bohuslav Ostadal (Prague, Czech Republic) on gender differences in cardiac ischemia and protection; Rakesh Kukreja (Richmond, U.S.A.) and John W. Calvert (Atlanta, U.S.A.) on the role of hydrogen sulfide signaling in cytoprotection; Elizabeth Murphy (Bethesda, U.S.A.), Charles Steenbergen (Baltimore,





Elisabeth Röth, Pawan Singal and Naranjan Dhalla

U.S.A.) on the importance of protein S-nitrosylation, GSK-3 beta and peroxynitrite, respectively, in cardioprotection. Miura Tetsuji (Sapporo, Japan) and Péter Ferdinándy (Szeged, Hungary) gave lectures on the mechanisms how cardioprotection is lost in diabetes and hyperlipidemia, respectively.

The afternoon session dealt with endothelial dysfunction and stem cells in cardiovascular research which was soon followed by a clinical aspect discussing bench to bedside issues. The talks included Attila Cziraki (Pécs, Hungary) on the evaluation of endothelial dysfunction in patients with coronary heart disease; Jan Kielstein (Hannover, Germany) on involvement of ADMA in cardiovascular diseases; Ákos Koller (Pécs, Hungary) on the importance of nitric oxide synthase in diabetes mellitus; Emanuele Giordano (Bologna, Italy) on stem cells in cardiovascular research; Hari Sharma (Rotterdam, Holland) on therapeutic angiogenesis in myocardial protection, Dipak Das (Farmington, U.S.A.) on regeneration of infarcted myocardium with nutritionally modified cardiac stem cells; Gabor Veres (Budapest, Hungary) on Custodiol-N, a novel cardioplegic solution reducing ischemia-reperfusion injury following cardiopulmonary bypass; Norbert Jost (Szeged, Hungary) on acetylcholine sensitive potassium currents in canine atrial myocytes; Béla Debreczeni (Budapest, Hungary) on contribution of hydrogen peroxide to the development of myogenic tone of venules; and Margit Solymár (Pécs, Hungary) on comparison of superoxide dismutase and hydrogen sulfide in isolated small veins. A remarkable cardiovascular sci-

entific feeling was reflected at the various talks and sessions during the day with extraordinary poster sessions in the evening by young researchers. Particularly interesting were posters by Ágnes Balogh (Debrecen, Hungary) on mechanical and molecular alterations within the left ventricle after myocardial infarction in mice; Attila Kiss (Szeged, Hungary) on administration of sodium nitrate reduces ischemia and reperfusion induced arrhythmias in anesthetized dogs, Iva Waczulikova (Bratislava, Slovakia) on Atorvastatin depleted coenzyme Q in myocardial mitochondria and impaired mitochondrial function in rats; and by Balázs Sax (Budapest, Hungary) on correlation between cardiac morphological characteristics and matrix metalloproteinase profile in top athletes and Gergő Szűcs (Szeged, Hungary) on postconditioning failed to decrease infarct size after global ischemia in isolated rat hearts. These posters were later awarded as the best presentations amongst several other interesting and exciting posters in the session.

The evening program witnessed a phenomenal organ concert at the historic cathedral of Pécs with music from Bach to traditional Hungarian folk tunes. The cathedral lies directly above the famous ruins from the Roman times, the most notable remains are the early Christian burial chambers, the earliest dating to the fourth century. The concert was followed by a very elegant dinner at the monumental Palace of the Bishop where the guests were given a treat of Hungarian tradition and culture. Professor Jan Slezak presented the Plaque of the Slovak Academy of Sciences to Professor Elisabeth Röth for her lifetime achievements in cardiovascular research. Professor Elisabeth Röth as the president of the congress recalled the most memorable moments of the previous meetings and expressed her special thanks to those who has participated in all of the ISMC meetings. The Gala Dinner continued with a friendly presentation by Professor Pawan Singal celebrating the 70th birthday of Professor Jan Slezak. The evening program ended with a remarkable display of vocal and musical talent by Professor Rakesh Kukreja.



Charles Steenberg, Elizabeth Murphy

The third and last day of the symposium started with talks on myofibrillar contractile function. There were interesting talks held by Jan Slezak (Bratislava, Slovakia) on the hibernating myocardium; István Szokodi (Pécs, Hungary) on the role of adrenomedullin in the regulation of cardiac contractility; Pasi Tavi (Kuopio, Finland) on a new feedback mechanism showing CaMKII-induced suppression of L-type calcium channel expression in cardiomyocytes; Violetta Kékesi (Budapest, Hungary) on calcium dependent coronary vasodilator mechanisms; Attila Ziegelhöfer (Bratislava, Slovakia) on changes regarding mitochondrial ATP production and membrane fluidity in hypertensive animal models; and Dániel Czuriga (Debrecen, Hungary) on oxidative damage at the sarcomeric Z-disc in failing human cardiomyocytes. The symposium boasted a brilliant concluding clinical section by Nándor Marczin (London, U.K.) on ventricular assist: from bridge to transplantation to bridge to long term recovery; Klára Farkasfalvi (Pécs, Hungary) on the potential role of apelin in myocardial recovery following end stage heart failure. The final talk was by Tanya Pinter (Ljubljana, Slovenia) on short term mechanical support for myocardial salvage. This was followed by a summary of the events of the symposium in pictures by Dr. János Lantos. As a closure of events and a take home message, Professor Elisabeth Röth thanked her team of organizers and collaborators for making the symposium a major success in presenting and combining innovative scientific and clinical ideas regarding the subcellular mechanisms of myocardial ischemia-reperfusion injury, pre- and post-



(L to R Attila Ziegelhöfer Jan Slezak, Tana Ravingerova and others)

conditioning, molecular targeting in left ventricular remodeling, signaling mechanisms regulating myocardial contractility in health and disease, microvascular dysfunction, therapeutic angiogenesis, myocardial regeneration and stem cells, the ageing heart, mitochondrial protection, mechanical assist for myocardial protection from basics to clinics, and several other exciting areas in cardiovascular research. The Symposium concluded with a promise for the continual support and excellence in the field of cardiovascular sciences and a great prospect for the seventh ISMC Conference to be held in 2013.

# 1st International Symposium on Industry-Academia Interaction in Biotechnology & Drug Discovery

by Ajit Srivastava Churchville, USA

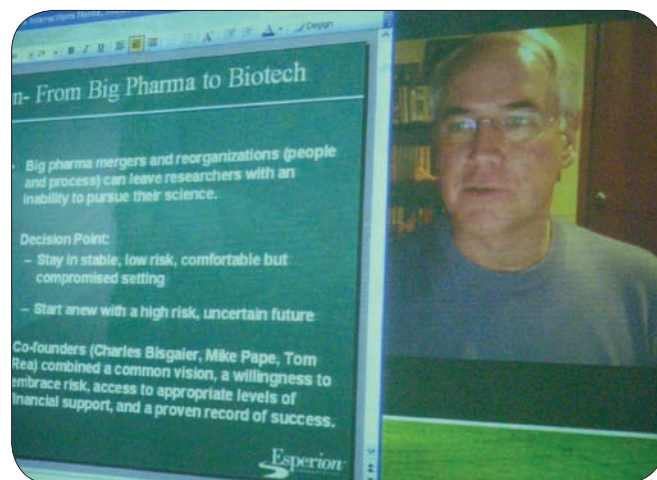


The society of learning, education, and rehabilitation for needy (S-LEARN) and Clonogen Biotechnology, Noida, organized the 1st International Symposium on Industry-academia interaction in advanced biotechnology and drug discovery at the premises of Clonogen Biotechnology during Nov 22-23, 2010. Dr Ajit Srivastava, Executive Director, Esperion Therapeutics, USA served as the organizing secretary, who also gave an state-of-the-art lecture on the unmet medical need of patients who have metabolic syndrome, characterized by insulin resistance, low HDL and high triglycerides. The incidence of diabetes in India is increasing at an alarming rate and the diabetic patients are at greater risks of developing cardiovascular disease. The focus of the symposium was on diabetes and cardiovascular diseases and ways to discover new chemical entity for the treatment of diseases.

Dr Ajit Srivastava's presentation focused on the ways to enhance the removal process of cholesterol from the body by raising functional HDL. Many renowned and accomplished professors, scientists and successful entrepreneurs from the US, Canada, and India presented cutting edge science and tips to how to apply science and technology to help society through entrepreneurial efforts. Some of the notable presentations were keynote address by Dr Mahmood Hussain, Professor at State University of New York, USA who talked about how the main metabolic organ of our body, liver, regulates lipid metabolism. He described some of the studies from his recently published work in a renowned journal Cell Metabolism. Professor Pramod Rath from JNU, talked about how inflammation triggers and promotes lipid deposition in the arterial wall and causes heart disease. Prof DK Srivastava from the North Dakota University, USA talked about novel ways for the targeted delivery of drug to treat cancer and other chronic diseases by making use of modified enzymes. Prof Khosrow Adeli, from The University of Toronto, Canada gave an excellent presentation how the consumption of fructose-rich drinks like coke has contributed to the increases in the incidence of insulin resistance, diabetes, and obesity. He discussed the dysregulation of the pathways that leads to this derangement. Dr Kalyan Handuque, founder of Handy-Lab, USA, and now Vice President BD Diagnostics, USA, gave an inspirational talk on "An Entrepreneurial Journey into Biotech: The HandyLab Experience".

An excellent presentation was given by Dr Roger Newton, President and CEO, Esperion Therapeutics, USA. Dr Newton is a co-discoverer of Lipitor, a drug that lower cholesterol and has helped hundreds of millions of patients around the world and sells for \$12 billion every year. Dr Newton also started a new company that focused on a novel approach of regressing arterial lipids when a formulated HDL is infused into patients with lipid deposition in the arteries. Dr Newton's talk was well received by the audience, and students participating in this symposium had great time interacting with those who were present to give their talk and also with those who presented through web-based video.

The most notable presentation among students who presented was from the youngest presenter, Nishtha Srivastava, a high school student from the USA, who talked about the mechanism of apoptosis in cancer cells by natural products, curcumin, the main ingredient of turmeric, and quercetin, found in apple and onion skins. The 2nd Symposium will be held next year around same time and will be organized for a wider audience.





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