

CURRICULUM VITAE

Name: **Naranjan S. Dhalla**

Citizenship: Canadian

Date and Place of Birth: October 10, 1936; Ghanieke, Punjab, India

Mailing Address: Institute of Cardiovascular Sciences
St. Boniface General Hospital Research Centre
351 Tache Avenue, Winnipeg, Manitoba
Canada R2H 2A6

Telephone: (204) 235-3417 Fax: (204) 237-0347
E-mail: nsdhalla@sbrc.ca

Marital Status: Married (Ranjit Bal)

Children: Five (Sam[†], Sonny, Sonia, Vikram, and Romel)

Home Address: 62 River Pointe Drive
Winnipeg, Manitoba
Canada R2M 5N6

Telephone: (204) 254-2571

Educational Qualifications:

Ph.D. University of Pittsburgh, Pittsburgh, 1965: in Pharmacology with Applied Pharmacology, Drug Screening, Biochemical Methods, Instrumental Analysis, Microbiology, Seminar in Pharmacology and Research Training in Cardiovascular Pharmacology. (Supervisor: Dr. Paul L. McLain)

M.S. University of Pennsylvania, Philadelphia, 1963: in Pharmacology with Neuroanatomy, Histology, Biochemistry, Physiology, Mathematics, Calculus, Seminar in Pharmacology and Research Training in Biochemical Pharmacology. (Supervisor: Dr. Niels Haugaard)

A.I.C. Institution of Chemists, Calcutta, 1961: equivalent to M.Sc. in Chemistry with Analytical Chemistry.

B.Sc. Panjab University, Khalsa College, Amritsar, 1956: with Physics and Chemistry.

Professional Experience:

April 2006 to present	Senior Fellow, Centre for Advancement of Medicine, University of Manitoba, Winnipeg, Canada
April 2006 to present	Director of Cardiovascular Developments, St. Boniface General Hospital Research Centre, Winnipeg, Canada
April 1991 to present	Distinguished Professor, Faculty of Medicine, University of Manitoba, Winnipeg, Canada
July 1974 to present	Professor of Physiology, Faculty of Medicine, University of Manitoba, Winnipeg, Canada.
October 1996 to March 2006	Director, Institute of Cardiovascular Sciences, Faculty of Medicine, University of Manitoba, Winnipeg, Canada
March 1999 to 2004	CIHR/Rx & D Chair in Cardiovascular Research, Faculty of Medicine, University of Manitoba, Winnipeg, Canada
April 1987 to September 1996	Head, Division of Cardiovascular Sciences, St. Boniface General Hospital Research Centre, Winnipeg, Canada
August 1972 to June 1974	Associate Professor of Physiology, Faculty of Medicine, University of Manitoba, Winnipeg, Canada
August 1968 to July 1972	Assistant Professor of Physiology, Faculty of Medicine, University of Manitoba, Winnipeg, Canada
December 1966 to July 1968	Assistant Professor of Pharmacology, St. Louis University, School of Medicine, St. Louis, USA
March 1966 to November 1966	Research Associate, Department of Biochemistry, St. Louis University, School of Medicine, St. Louis, USA
September 1963 to February 1966	Teaching Fellow and then Instructor in Pharmacology, Department of Pharmacology, School of Medicine, University of Pittsburgh, USA
September 1961 to August 1963	Pre-doctoral Fellow, Department of Pharmacology, School of Medicine, University of Pennsylvania, Philadelphia, USA
April 1957 to August 1961	Various Research Positions, including Assistant Research Officer, Department of Pharmacology, Lady Hardinge Medical College, New Delhi, India

Major Research Interests:

Pathophysiology and pharmacology of heart dysfunction; myocardial ischemia and cell damage; remodelling of subcellular organelles in congestive heart failure; energy metabolism in diabetic cardiomyopathy; oxidative stress in catecholamine-induced cardiomyopathy; membrane abnormalities and Ca^{2+} -overload; adrenergic receptors and signal transduction; regulation of Ca^{2+} -transport systems; regulation of cardiac metabolism

Teaching Specialities:

1. Cardiovascular Physiology and Pharmacology
2. Autonomic Physiology and Pharmacology
3. Pathophysiology of Cardiovascular Dysfunction
4. Biochemical and Molecular Mechanisms of Cellular Function

Honours and Awards:

1. NIH Predoctoral Fellowship, University of Pennsylvania, Philadelphia (1961-63)
2. Teaching Fellowship, University of Pittsburgh, Pittsburgh (1963-65)
3. Fellow of the Institution of Chemists, India, Calcutta (1968)
4. Medal of the Czechoslovakian Medical Society, Brno (1975)
5. Distinguished Scientist Medal at the 2nd International Congress of Pathophysiology, Prague (1975)
6. Medal of the USSR Academy of Medical Sciences, Moscow (1976)
7. Fellow of the American College of Cardiology, Washington (1976)
8. RH Institute Award, University of Manitoba, Winnipeg (1976)
9. Guest of Honour, National University of La Plata, La Plata (1980)
10. Fellow of the American College of Nutrition, Washington (1985)
11. Honorary Fellow of the Association of Physicians of Czechoslovakia, Prague (1987)
12. JE Purkyne Medal for Achievements in Medical Research, Prague (1987)
13. Medal of the Slovic Academy of Sciences for Achievements in Biological Sciences, Bratislava (1987)
14. Merit Award for Research, University of Manitoba, Winnipeg (1987)
15. Honorary Member of the Hungarian Society of Cardiology, Budapest (1987)
16. Distinguished Presentation Award of the Japanese Section of the International Society for Heart Research, Tokyo (1988)
17. Barry Memorial Award of the Postgraduate Institute of Medical Education and Research, Chandigarh (1988)
18. Fellow of the Cardiovascular Section of the American Physiological Society, Bethesda (1988)
19. Merit Award for Research, University of Manitoba, Winnipeg (1989)
20. Distinguished Professor of the University of Manitoba, Winnipeg (1991)
21. Upjohn Award of the Pharmacological Society of Canada, Ottawa (1991)
22. Medal of the Fukushima Society of Medical Sciences, Fukushima (1991)
23. Honorary Professor of the Peking Union Medical College, Beijing (1991)

24. Research Achievement Award of the Canadian Cardiovascular Society, Toronto (1991)
25. Dedicated Book "Catecholamines and Heart Disease", ed. by PK Ganguly, CRC Press, Boca Raton (1991)
26. Honorary Professor of the Xian Medical University, Xian (1992)
27. Research Award from the Juvenile Diabetes Foundation, Winnipeg (1992)
28. Honorary Citizenship of La Plata, Argentina, La Plata (1992)
29. Scholastic Award of the Manitoba Medical Association, Winnipeg (1994)
30. Rustom Vakil Memorial Oration, Bombay (1994)
31. The City of Winnipeg, Convention Centre Ambassador, Winnipeg (1994)
32. Distinguished Service Award, National Indo-Canadian Council, Toronto (1995)
33. Guest of Honour, Egyptian Society of Cardiology, Cairo (1995)
34. Festschrift for 25 Years of Outstanding Service as Officer of the International Society for Heart Research, London (1995)
35. Honorary Degree of Doctorate of Medicine, Charles University, Prague (1995)
36. Gold Medal of the Universitas Carolina Pragensis, Prague (1995)
37. Named Symposium at the IV World Congress of the International Society for Adaptive Medicine, Chandigarh (1995)
38. Naranjan Dhalla Conference on Cellular Basis of Cardiovascular Function in Health and Disease convened to celebrate 60th Birthday, Kenora (1996)
39. The Medical Research Council of Canada Certificate to recognize leadership in promoting and developing health research, Ottawa (1996)
40. George Emil Palade Medal of the Carol Davila University, Bucharest (1996)
41. Professor Honoris Causa of the Faculty of Medicine, Carol Davila University, Bucharest (1996)
42. Order of the Buffalo Hunt, Province of Manitoba, Winnipeg (1996)
43. Appreciation Plaque by the Tokyo Society of Medical Sciences, Tokyo (1996)
44. Honorary Member, Association of Friends and Graduates of Charles University, Prague (1996)
45. Member of the Order of Canada, Ottawa (1997)
46. Honorary Degree of Doctor of Science, Slovak Academy of Sciences, Bratislava (1997)
47. Gold Medal of the International College of Nutrition, New Delhi (1997)
48. K.G. Nair Oration Medal, Indian Society of Hypertension, Surat (1997)
49. Appreciation Certificate of the Kitasato Medical Society, Sagamihara (1997)
50. Appreciation Plaque of the Showa University, Tokyo (1997)
51. Naranjan Dhalla Dinner Reception by the Indo-Canadian Community, Winnipeg (1997)
52. Outstanding Achievement Award of the American Association of Cardiologists of Indian Origin, Orlando (1997)
53. Community Service Award of the City of Winnipeg, Winnipeg (1997)
54. Honorary Chairman of the Board, St. Boniface General Hospital Research Foundation, Winnipeg (1997)
55. Honored for Lifetime Achievements as Great Punjabi by the Singh Sabha of Winnipeg (1997)
56. Book "The Cellular Basis of Cardiovascular Function in Health and Disease", ed. by PK Singal, V Panagia and GN Pierce, Kluwer Academic Publishers, Boston dedicated to Naranjan Dhalla (1997)
57. Naranjan Dhalla Plaque at the 25th Anniversary of the Egyptian Society of Cardiology, Cairo (1998)
58. Silver Plaque of the All India Institute of Medical Sciences, New Delhi (1998)

59. Notable Canadian to Accompany the Governor General of Canada for a State Visit, Ottawa (1998)
60. Leonard Leight Distinguished Speaker, University of Louisville, Louisville (1998)
61. Distinguished Service Award of the American Section of the International Society for Heart Research, Ann Arbor (1998)
62. Fellow, International Academy of Cardiovascular Sciences, Winnipeg (1998)
63. MRC/Rx & D Chair in Cardiovascular Research Award, Ottawa (1999)
64. Millennium Award for the Advancement of Cardiovascular Knowledge by the International Congress on Atherosclerosis, Hypertension and Coronary Artery, New Delhi (1999)
65. Certificate for Promoting Excellence in Cardiovascular Pharmacology, Indian Pharmacology Society, New Delhi (1999)
66. Merit Award for Research, University of Manitoba, Winnipeg (1999)
67. Member, Canadian Institute of Academic Medicine, Ottawa (2000)
68. Canadian Medical Association Medal of Honour, Ottawa (2000)
69. Fellow, Royal Society of Canada, Ottawa (2000)
70. Albert Fleckenstein Award of the International Society of Heart Failure, Vancouver (2000)
71. Inducted in the Citizens Hall of Fame (Installation of Bust), Winnipeg (2000)
72. Fellow of the International Society for Heart Research, London (2001)
73. Fellow of the Council of Cardiovascular Sciences of the American Heart Association, Houston (2001)
74. Medal of Merit of the XVII World Heart Congress, Winnipeg (2001)
75. Named a Living Legend by the World Artificial Organ, Immunology and Transplantation Society, Ottawa (2001)
76. Designated as Super Manitoban by the Winnipeg Sun, Winnipeg (2001)
77. Honourary Member of the International Society for Heart Research, London (2001)
78. Naranjan Dhalla Award in Cardiovascular Sciences established by the Indian Pharmacological Society, New Delhi (2002)
79. Sree Chitra Tirunal Institute Silver Jubilee Oration, Trivandrum (2002)
80. Manitoba Tourism Marketing Award, Brandon (2002)
81. Purkyne Honorary Medal for Merit in the Biological Sciences by the Academy of Sciences of the Czech Republic, Prague (2002)
82. Life-time Achievement Award by the Indo-Canadian Chamber of Commerce, Toronto (2002)
83. Naranjan Dhalla Award for Young Investigators in Cardiovascular Sciences established by the International Academy of Cardiovascular Sciences, Winnipeg (2002)
84. Member of the Order of Manitoba, Winnipeg (2002)
85. Commemorative Medal of the Slovak Academy of Sciences for Outstanding Achievements in the Field of Natural Science, Bratislava (2002)
86. Queen's Golden Jubilee Medal, Ottawa (2002)
87. Eleventh PK Devi Memorial Oration, Bhavan's SPARC, Bombay (2002)
88. PL Wahi Oration in Cardiovascular Sciences, Indian Section of ISHR, Chandigarh (2003)
89. 1st PL Wahi Memorial Award, PGI of Medical Sciences, Chandigarh (2003)
90. Gold Medal of the Masaryk University, Brno (2003)
91. Rh Institute Foundation Medal for Excellence in Research, Winnipeg (2003)
92. Guest of Honour, International Symposium on Pharmacotherapy of Heart Failure, New Delhi (2004)
93. Award for Outstanding Contribution Towards Creating Smart Communities, Winnipeg (2004)

94. Selected by the Asian Heritage Society as One of Eight Canadian Asians Who Have Made a Difference, Winnipeg (2004)
95. Distinguished Leadership Award by the American Section of the International Society for Heart Research, Milwaukee (2004)
96. Destination Winnipeg Tourism Ambassador Award, Winnipeg (2004)
97. Col. R.N. Chopra Memorial Oration Award, Indian Pharmacological Society, Kolkata (2004)
98. Honorary Fellow of the Indian Pharmacological Society, Kolkata (2004)
99. Bharat Seva Ratna for Meritorious Services to Mankind, Sri Divya Jivan Sanskrut Sangh, Ahmedabad (2005)
100. Guest of Honour at the Baba Kuma Singhji Engineering College, Amritsar (2005)
101. Prof. Viswanathan Oration Award, Patel Chest Institute, University of Delhi, Delhi (2005)
102. Fellow of the Canadian Academy of Health Sciences, Ottawa (2005)
103. Recognition for Advancement of Medical Research and Education in Cardiology by the Faculty of Medical Sciences of Minas Gerais (2005)
104. Designated as Manitoba's Power 30 by the Winnipeg Free Press (2005)
105. Honoured with a Chapter Profile in a Book "We Chose Canada – Eleven Profiles from Manitoba's Mosaic" by Lesley Hughes, Winnipeg (2005)
106. Honorary Member of the Argentina Society of Cardiology (Buenos Argentina De Cardiologia), Buenos Aires (2005)
107. Naranjan Dhalla Tree planted at the Delhi Institute of Pharmaceutical Sciences and Research, New Delhi (2006)
108. Honoured for Innovation by the University of Manitoba (2006)
109. Medal of Honour by the Canadian Association of Physicians of Indian Heritage, Toronto, 2006
110. Gold Medal of the Serbian Physiological Society for Lifetime Achievement in Physiological Sciences, Belgrade (2006)
111. Honorary Chair, 50th Anniversary Celebrations for Heart and Stroke Foundation of Manitoba, Winnipeg (2006)
112. Special Issue of Experimental and Clinical Cardiology (Vol 11; November 3, 2006) dedicated on 70th Birthday, Toronto (2006)
113. Medal of Merit of the Hungarian Society of Cardiology, Budapest (2006)
114. Recognition by the Heart and Stroke Foundation of Manitoba for Outstanding Contribution in the Area of Research Builder, Winnipeg (2006)
115. Dedicated Book "Fisiologia Cardiovascular Aplicada" by O.M. Gomes, Edicor Verdade e Jesus, Sao Joas 14.6 (2006)
116. Lifetime Achievement Award by the India Canada Culture and Heritage Association Inc., Winnipeg (2006)
117. The Dr. Naranjan Dhalla Endowed Chair established by the St. Boniface General Hospital & Research Foundation, Winnipeg (2006)
118. Honorary Member of the National Academy of Medical Sciences, Bucharest, Romania (2006)
119. GE Palade Gold Medal for Internationally Recognized Achievements in Heart Research, Bucharest, Romania (2006)
120. Laufberger Medal of the JE Purkyne Medical Society in recognition of contribution to Czech Physiology, Prague (2006)
121. Certificate of Merit by the Japanese Society of Clinical Physiology, Fukuoka (2006)

122. Big Heart Lifetime Achievement Award by the Heart and Stroke Foundation of Manitoba, Winnipeg (2006)
123. “Prof. Dr. Naranjan S. Dhalla Forum on Applied Cardiovascular Sciences” held in Rio de Janeiro (2006)
124. Dhalla 70th Birthday Tribute – The Cellular and Molecular Basis of Cardiac Dysfunction: A Special Issue of Canadian Journal of Physiology and Pharmacology (Vol 85, March/April, 2007), Winnipeg (2007)
125. Coat of Arms granted by the Canadian Heraldic Authority, Ottawa (2007)
126. Ronald Duhamel Innovation Award from the St. Boniface Hospital and Research Foundation, Winnipeg (2008)
127. Member Honoris Causa of the Hungarian Cardiological Society, Balatonfured (2008)
128. Designated by India Abroad on the Power List of 35 most influential Indo-Canadians, Toronto (2008)
129. Distinguished Fellowship Award of the International Academy of Cardiology at the 14th World Congress on Heart Disease, Toronto (2008)
130. Manitoba Association of Asian Physicians Award for Outstanding Contribution to the East Indian Communities of Canada, Hecla Island (2008)
131. The Second Greatest Manitoban of All Time (among 30) as voted by the Winnipeg Free Press, Winnipeg (2008)
132. Member Honoris Causa of the Cardiology Society of Bohemia, Prague (2008)
133. Eleventh Annual James Fisher Distinguished Lecture Award in Pharmacology, New Orleans (2008)
134. Honorary Member of the Romanian Society of Laboratory Medicine, Bucharest (2008)
135. Featured in the book “The Greatest Manitobans: They Made a Better Province and a Better World”, (1 chapter) by the Winnipeg Free Press, Winnipeg (2008)
136. Honoured with Shield of the Province of Holguin, Cuba (2009)
137. Honorary Degree of Doctor of Science, Panjab University, Chandigarh (2009)
138. Special Lecture Award by the Food, Technology and Biochemical Engineering Department of India, Kolkata (2009)
139. Felicitation for Lifetime Pioneering Research and Outstanding Contribution to the Discipline of Pharmacology by the Indian Pharmacological Society, Kolkata (2009)
140. Fellow of the Punjab Academy of Sciences, Patiala (2010)
141. Honorary Foreign Fellow of the Romanian Academy of Medical Sciences, Bucharest (2010)
142. Foreign Fellow of the Royal Society of Medicine, London (2010)
143. Honorary Degree of Doctor of Science, Guru Nanak Dev University, Amritsar (2010)
144. Chief Guest to Address the 36th Convocation of Guru Nanak Dev University (2010)
145. Special Lecture Award by the Life Science and Applied Health Faculties, Guru Nanak Dev University, Amritsar (2010)
146. Honoured by the Human Rights Museum for Unveiling the Statue of Mahatma Gandhi, Winnipeg (2010)
147. Honoured for Life Long Service and Contribution to Lower the Burden of Cardiovascular Diseases, Canada-India Networking Initiative, Surrey (2010)
148. Diploma of Honour from the Medical School, University of Pecs, Pecs (2010)
149. Medal of Honour from the Holguin University of Medicine for Scientific Achievements, Holguin (2011)
150. Guest of Honour, 4th World Congress, International Academy of Cardiovascular Sciences, Vadodara (2011)

151. The Naranjan Dhalla dedication plaque unveiled to inaugurate the Pharmaceutical Research Centre at Anand Pharmacy College, Anand (2011)
152. Honoured by the Sikh Foundation of Canada for promoting Sikh Values, Heritage and Culture, Toronto (2011)
153. Recognition for the Lifetime Achievement in Research by the St. Boniface Hospital Research Centre, Winnipeg (2011)
154. Inducted into the St. Boniface Hospital Research Hall of Fame, Winnipeg (2011)
155. Special Issue of Experimental and Clinical Cardiology (Vol. 16; Number 3, 2011) dedicated to Naranjan Dhalla on 75th Birthday by Pulsus Group, Toronto (2011)
156. “Dr. Naranjan Dhalla Symposium” held at the Winnipeg Heart International Conference, Winnipeg (2011)
157. Fellow Royal Scientist Award of the International College of Cardiology, Kosice (2011)
158. Award of Excellence in Science by Geriatric Society of India, Amritsar (2011)
159. “Prof. Dr. Naranjan S. Dhalla Forum” held at the XXI International Congress of Cardiovascular Sciences, Salvador (2011)
160. Lifetime Achievement Award by Amity University, Noida (2012)
161. Honoured by the Sikh Cultural and Heritage Foundation, Chandigarh (2012)
162. Honoured by Lady Hardinge Medical College, New Delhi (2012)
163. Queen Elizabeth II Diamond Jubilee Medal (2012)
164. Life Fellow of the Royal Society of Medicine, London (2012)
165. Honorary (Invited) Professor of Victor Babes University of Medicine and Pharmacy, Timisoara (2012)
166. Prof. Laszlo Szekeres Medal from Albert Szent-Gyorgyi Medical University, Szeged (2012)
167. Chief Guest, 22nd Annual Conference of Indian Society of Hypertension, Mumbai (2012)
168. “Prof. Dr. Naranjan S. Dhalla Forum” held at the XXII International Congress of Cardiovascular Sciences, Belo Horizonte (2012)
169. Special Distinction Award, University of Medical Sciences, Holguin (2013)
170. Dr. Naranjan Dhalla Award for Promoting Quality Education at the Higher Secondary School of Ghanieke Banger, Punjab (2013)

Membership in Professional Societies:

1. Institution of Chemists, India (1961-2006)
2. American College of Cardiology (1975-2006)
3. American Association for the Advancement of Science (1970-2006)
4. American College of Nutrition (1985-2006)
5. Juvenile Diabetes Foundation International (1991-2006)
6. Canadian Diabetes Association (1994-2006)
7. American Diabetes Association (1999-2007)
8. New York Academy of Sciences (1970-2007)
9. Cardiac Muscle Society (1970-2007)
10. Southern Society for Clinical Investigation (2007-2009)
11. American Physiological Society (1971-)
12. American Society of Pharmacology and Experimental Therapeutics (1969-)
13. Pharmacological Society of Canada (1970-)
14. Canadian Physiological Society (1970-)
15. International Society for Heart Research (1967-)

16. Indian Pharmacological Society (1965-)
17. Canadian Cardiovascular Society (1980-)
18. American Heart Association - Basic Science Council (1972-)
19. International Academy of Cardiovascular Sciences (1996-)
20. Heart Failure Society of America (1996 -)
21. Canadian Academy of Health Sciences (2005-)
22. Royal Society of Medicine (2008 -)

Offices Held in Professional Societies:

1. Member, Executive Committee of the International Study Group for Research in Cardiac Metabolism (1971-1972)
2. Member, Executive Committee of the International Commission for Pathophysiology (1975-1982)
3. Executive Secretary, American Section of the International Society for Heart Research (1972-1985)
4. President-Elect, American Section of the International Society for Heart Research (1985-1988)
5. Secretary General, International Society for Heart Research (1972-1989)
6. President, American Section of the International Society for Heart Research (1988-1991)
7. President-Elect, International Society for Heart Research (1989-1992)
8. Past-President, American Section of the International Society for Heart Research (1991-1994)
9. President, International Society for Heart Research (1992-1995)
10. Past-President, International Society for Heart Research (1995-1998)
11. Executive Director & CEO, International Academy of Cardiovascular Sciences (1996-)
12. Member, Scientific Executive Committee of the International Academy of Cardiology (2004-)

Appointments on Professional Journals:

A. Editorship:

1. Series Editor, Recent Advances in Studies on Cardiac Structure and Metabolism (1973-1978)
2. Series Editor, Advances in Myocardiology (1979-1985)
3. Series Editor, Developments in Molecular and Cellular Biochemistry (1990-2003)
4. Series Editor, Progress in Experimental Cardiology (1997-2009)
5. Series Editor, Advances in Biochemistry in Health and Disease (2004-)
6. Editor-in-Chief, Molecular and Cellular Biochemistry (1987-)

B. Associate/Consulting Editorship:

1. Associate Editor, Canadian Journal of Physiology and Pharmacology (1974-1983)
2. Associate Editor, Journal of Molecular and Cellular Cardiology (1987-1989)
3. Associate Editor, Cardiovascular Pathobiology (1996-1999)
4. Consulting Editor, Journal of Cardiovascular Pharmacology and Therapeutics (1996-2009)
5. Associate Editor, Canadian Journal of Cardiology (1984-2010)

C. Membership on Editorial Boards/Advisory Boards:

1. Member, Journal of Pharmacological Methods (1978-1991)
2. Member, Journal of Applied Cardiology (1985-1991)
3. Member, Basic Research in Cardiology (1981-1992)
4. Member, Rhythmology (1987-1994)
5. Member, Cardioscience (1990-1995)
6. Member, Circulation Research (1995-1999)
7. Member, Magnesium Research (1988-2004)
8. Member, Italian Heart Journal (2003-2005)
9. Member, Journal of Molecular and Cellular Cardiology (1972-1986; 1999-2007)
10. Member, Cardiovascular Drug Reviews (1991-2007)
11. Member, General Physiology and Biophysics (1983-2007)
12. Member, Egyptian Heart Journal (1999-2007)
13. Member, Journal of Heart Failure (2000-2007)
14. Member, Indian Journal of Cardiology (2004-2007)
15. Member, Journal of Cardiovascular Medicine (2006-2010)
16. Member, Journal of Cellular and Molecular Medicine (2000-2010)
17. Member, Physiological Research (1995-)
18. Member, Heart Failure Reviews (1996-)
19. Member, Experimental and Clinical Cardiology (1996-)
20. Member, Journal of Heart Disease (2004-)
21. Member, American Journal of Cardiovascular Drugs (2007-)
22. Member, Cardiology Research and Practice (2010 -)
23. Member, Circulation Research (2013 -)

Appointments on Local Committees and Hospital Appointments at the University of Manitoba:

1. Departmental Committee for Physiology Graduate Studies (1968-1979)
2. Central Animal Care Committee (1973-1980)
3. Task Force for the Development of Heart Research (1977-1978; Chairman)
4. Medical Faculty Executive Council (1979-1980)
5. Cardiovascular Committee for Teaching Medical Students (1971-1981)
6. St. Boniface General Hospital - Scientific Consultant (1973-1981)
7. Health Sciences Centre - Scientific Consultant (1972-1982)
8. University of Manitoba Heart Fund Committee - Chairman (1984-1986)
9. Research Development and Advisory Committee, MHF (1986-1988)
10. Research Task Force, Manitoba Heart and Stroke Foundation (1990)
11. Search Committee for Faculty Members in the Division of Cardiovascular Sciences (1987-1991)
12. Promotion and Tenure Committee, Department of Physiology (1991-1992)
13. Search Committee for Cardiology Head, Department of Medicine (1992-1993)
14. Search Committee for Electrophysiologists in Cardiovascular Sciences (1993)
15. Search Committee for Molecular Biologist in the Division of Cardiovascular Sciences (1994)

16. Interview Committee for Admission to Medical School (1985-1994)
17. Scientific Consultant - Department of Medicine, St. Boniface General Hospital (1988- 1996)
18. Search Committee for Cardiology Head, Department of Medicine (1994-1995)
19. Board of Directors, Manitoba Heart and Stroke Foundation (1985-1997)
20. Advisory Committee - Diabetes Research and Treatment Centre (1992-1997)
21. Search Committee for Cardiology Head, Department of Medicine (1996-1997)
22. Research Committee - Faculty of Medicine (1992-2000)
23. Director, MRC Group in Experimental Cardiology, Faculty of Medicine (1993-1999)
24. Search Committee for a Cardiologist (Heart Failure), Section of Cardiology (1998-1999)
25. Chairman, Search Committee for Molecular Biologists in Cardiovascular Sciences (1998-2002)
26. Director, CIHR Group in Experimental Cardiology (1999-2004)
27. Committee on Academic Standing, Faculty of Medicine (1996-2004)
28. Executive Committee - Department of Physiology (1990-2005)
29. Department Heads Council, Faculty of Medicine (1996-2006)
30. Head, Cardiovascular Science Group, Faculty of Medicine (1997-2006)
31. Vice-President, Board of Directors, Diabetes Research and Treatment Centre (1997-2008)
32. Director, Board of Directors, Diabetes Research and Treatment Centre (2008 -)

Appointments on National and International Committees:

1. Scientific Committee of the Canadian Heart and Stroke Foundation (1975-1979)
2. Council of Cardiac Metabolism, International Society and Federation of Cardiology (1980-1994)
3. NIH Cardiovascular Study Section - Adhoc Member (1980)
4. Outstanding Research Award Committee for International Society for Heart Research (1984-1986)
5. Senior Personnel Award Committee of the Canadian Heart and Stroke Foundation (1985-1988)
6. Richard Bing Young Investigator Award Committee of the International Society for Heart Research (1978-1991)
7. Education Committee of the Council of Cardiac Metabolism for Promotion of the Scientific Basis of Cardiology - Chairman (1987-1992)
8. Peter Harris Distinguished Scientist Award Committee of the International Society for Heart Research (1984-1993)
9. Operating Grants Committee of the Canadian Diabetes Association (1991-1993)
10. Nomination Committee of the American Section of the International Society for Heart Research - Chairman (1992-1994)
11. Fund Raising Committee of the International Society for Heart Research (1992-1995)
12. Finance Committee of the International Society for Heart Research (1992-1995)
13. Nomination Committee of the American Section of the International Society for Heart Research - Member (1994-1996)
14. Canadian Heart Failure Network of the Heart and Stroke Foundation of Canada (1994-1996)
15. Upjohn Young Scientist Award Committee of ISHR - Chairman (1986-1995)

16. Nomination Committee of the International Society for Heart Research - Chairman (1995-1997)
17. Publication Committee for Journal of Molecular and Cellular Cardiology (1983-1998)
18. Council of Cellular and Molecular Cardiology of the International Society and Federation of Cardiology (1994-1998)
19. Advisory Committee, Pharmaceutical Research Project, University of Toronto (1996-1999)
20. Council of the American Section of the International Society for Molecular Nutrition and Therapy - Member (1997-1999)
21. Advisory Board, Cardiovascular and Pulmonary Research Institute, Allegheny University of Health Sciences, Pittsburgh (1997-1999)
22. Board of Directors, Lariat Capital Inc., Vancouver (1998-1999)
23. NIH Study Section on Diabetic Cardiomyopathy B Consultant (2000)
24. Pharmacia and Upjohn Award Competition Committee of the International Society for Heart Research - Chairman (1996-2000)
25. Board of Directors, Medicare Inc., Winnipeg (1999-2001)
26. Patron of the Winnipeg Induction Celebration of the Canadian Medical Hall of Fame (2000-2001)
27. Council of the Canadian Cardiovascular Society (1995-2001)
28. Scientific Advisory Committee, LIBBS Farmaceutica, Sao Paulo (2002-2003)
29. New Deal Community Leaders Group, Winnipeg (2003-2004)
30. Young Investigator Award Competition Committee, American Section of the International Society for Heart Research – Chairman (2001-2004)
31. Board of Directors, Destination Winnipeg (2002-2005)
32. Advisory Board of the International Society for Molecular Nutrition and Therapy (1994-2005)
33. Scientific Advisory Committee, ZyduS Research Center, Ahmedabad (2001- 2005)
34. Chair, National Research Forum for Young Investigators in Circulatory and Respiratory Health, A Program of the CIHR Institute of Circulatory and Respiratory Health, Vancouver (2003-2006)
35. President, ChemoCree Pharma Inc., Winnipeg (2005-2009)
36. Member, Canadian Heart Health Strategy and Action Plan Steering Committee, Ottawa (2007-2009)
37. Member, Review Committee for European Union Sponsored Program for Establishing Centres of Excellence in Health Research in Romania, Bucharest (2009)
38. Chairman, Gant Panel for European Science Foundation Space Program for Cardiovascular and Respiratory Research, Brussels (2009)

Symposia and Meeting Organization:

1. Chairman, 5th World Congress of the International Society for Heart Research, Winnipeg, 1972
2. Member, 6th World Congress of the International Society for Heart Research, Freiburg, 1973
3. Member, 9th World Congress of the International Society for Heart Research, New Delhi, 1978
4. Member, International Teach-in on Heart Function and Metabolism, Osaka, 1983
5. Co-chairman, International Symposium on Stress and Heart Disease, Winnipeg, 1984

6. International Liaison, Symposium on Heart Metabolism, Bombay, 1986
7. Co-chairman, 8th Meeting of the American Section of the International Society for Heart Research, Winnipeg, 1986
8. Co-chairman, Satellite Symposium of the 30th International Congress of Physiological Sciences, Winnipeg, 1986
9. Co-chairman, 3rd Annual Cardiology Symposium of the University of Manitoba, Winnipeg, 1986
10. Member, Organizing and Scientific Committee for XII Congress of the International Society for Heart Research, Melbourne, 1986
11. Member, Advisory Committee, International Conference on Cellular Pathology and Pharmacology, Budapest, 1988
12. Member, Advisory Committee, International Conference on Biomembranes in Health and Disease, Lucknow, 1988
13. Member, Scientific Advisory Board, International Symposium on the Diabetic Heart, Tokyo, Japan, 1989
14. Member, Organization Committee, International Symposium on Subcellular Basis of Contractile Failure, Ottawa, 1989
15. Member, Scientific Committee for XIII Congress of International Society for Heart Research, Ann Arbor, 1987-1989
16. Member, Advisory Board, International Teach-in for Promoting the Scientific Basis of Cardiology, Brescia, 1989
17. Member, Organizing Committee for the International Congress on Pathophysiology, Moscow, 1991
18. Member, Advisory Committee for XIV World Congress of the International Society for Heart Research, Kobe, 1992
19. Member, International Advisory Board Symposium on Cellular Abnormalities Associated with Cardiomyopathies, Tokyo, 1992
20. Member, Advisory Committee for Conference on Cellular and Molecular Mechanisms of Myocardial Ischemia/Reperfusion Injury, Beijing, 1992
21. Member, Scientific Advisory Committee, International Teach-in on Heart Disease, Mar del Plata, 1992
22. Member, International Advisory Committee, Symposium on Ischemic Heart Disease, Lucknow, 1992
23. Member, Scientific Advisory Committee for XIV European Section Meeting of the International Society for Heart Research, Jerusalem, 1993
24. Member, Organization Committee for the American Section Meeting of the International Society for Heart Research, Columbia, 1993
25. Member, International Advisory Committee of the Third World Congress of the International Society for Adaptive Medicine, Tokyo, 1993
26. Member, Scientific Advisory Committee for the American Section Meeting of the International Society for Heart Research, London, 1994
27. Chairman, International Conference on Heart Failure, Winnipeg, 1994
28. Member, International Liaison for the Satellite Meeting on Hypertension and Heart Research, Bombay, 1994
29. Member, Advisory and Scientific Board, European Section Meeting of the International Society for Heart Research, Copenhagen, 1994
30. Member, Scientific Committee, XIIth World Congress of Cardiology, Berlin, 1994

31. Member, Advisory Committee for XV World Congress of the International Society for Heart Research, Prague, 1995
32. Member, Scientific Advisory Committee, American Section Meeting of the International Society for Heart Research, Orange Beach, 1995
33. Member, Scientific Advisory Committee, Symposium on Myocardial Preservation and Cellular Adaptation, Madras, 1995
34. Member, International Scientific Board, 2nd Workshop on Antiarrhythmic Drugs and Ventricular Defibrillation, Bratislava, 1995
35. Member, Organization Committee, Satellite Symposium on Ischemic Heart, Tokyo, 1996
36. Member, International Advisory Board for the 13th Meeting of the Japanese Section of the International Society for Heart Research, Tokyo, 1996
37. Member, Scientific Committee of the 17th European Congress of the International Society for Heart Research, Bologna, 1996
38. Chairman, Manitoba Cardiovascular Forum: Angiotensin II Receptor Blockade, Winnipeg, 1996
39. Member, Scientific Advisory Committee, XIV Meeting of the American Section of the International Society for Heart Research, Vancouver, 1997
40. Member, International Scientific Advisory Board, Myocardial Adaptation to Ischemia, Stara Lesna, 1997
41. Member, Advisory Committee, 2nd Meeting of the International Society of Molecular Nutrition and Therapy, Winnipeg, 1997
42. Member, Scientific Board, VIII International Symposium on Magnesium, Heraklion, Crete, 1997
43. Member, International Advisory Committee for the First Asia-Pacific Congress on Hypertension, Surat, 1997
44. Member, International Advisory Board of the 7th Scientific Forum, Belo Horizonte, 1997
45. Member, Advisory Board of the International Congress on Molecular Genetics, Cairo, 1998
46. Member, Organization Committee for the International Symposium on Heart Disease, Cairo, 1998
47. Member, Advisory Committee, International Conference on Heart in Stress, Helsinki, 1998
48. Member, Scientific Committee, Sino-Canadian Symposium on Recent Advances in Cardiovascular Research, Hong Kong, 1998
49. Co-Chairman, International Symposium on Cardiovascular Disease in Diabetes, Winnipeg, 1999
50. Member, Coordination Board, International Congress on Atherosclerosis, Hypertension and Coronary Artery Disease, New Delhi, 1999
51. Member, Advisory Board, Pharmacology Frontiers in 21st Century, New Delhi, 1999
52. Member, Scientific Advisory Committee, XV Meeting of the American Section of the International Society for Heart Research, San Diego, 1999
53. Member, Advisory Committee, Rehabilitation Challenges for the New Millennium, Winnipeg, 1999
54. Member, Scientific Advisory Committee, International Symposium on Cardiac Development, Prague, 2000
55. Member, Scientific Committee, International Symposium on Adaptation of the Heart, Bratislava, 2000
56. Member, Scientific Advisory Committee, XVI Meeting of the American Section of the International Society for Heart Research, Louisville, 2000

57. Member, Scientific Organization Committee for the 7th World Congress on Heart Failure, Vancouver, 2000
58. Member, International Advisory Committee for Annual Conference of ISHR-India 2001, New Delhi, 2001
59. Chairman, XVII World Congress of the International Society for Heart Research, Winnipeg, 2001
60. Member, Advisory Board of 10th International Congress on Cardiovascular Pharmacotherapy, Kyoto, 2001
61. Member, Scientific Executive Committee for the 2nd International Congress on Heart Disease, Washington, 2001
62. Member, Scientific Advisory Committee, Regulation of Energy Metabolism in Heart and Vasculature, Banff, 2001
63. Member, Scientific Advisory Committee, Remodeling and Progression of Heart Failure, Minneapolis, 2001
64. Member, Scientific Advisory Board for Symposium on the Failing Heart: From Molecular Mechanisms to Clinical Applications, Bratislava, 2002
65. Member, Scientific Programme Committee for the 22nd European Section Meeting of the International Society Heart Research, Szeged, 2002
66. Member, Executive Organizing Committee, Advances in Cardiovascular Research: Clinical and Basic Sciences, Trinidad, 2002
67. Member, Advisory Committee for the 25th Annual Meeting of the American Section of the International Society for Heart Research, Mystic Seaport, 2003
68. Member, Advisory Board, Mendel Symposium: Gene and the Heart, Brno, 2003
69. Member, Advisory Committee for IV International Symposium on Myocardial Protection, Pecs, 2003
70. Scientific Committee for 4th International Symposium on Diabetes Mellitus and its Complications, Preston, 2003
71. Honourary President, 1st World Congress - International Academy of Cardiovascular Sciences, Belo Horizonte, 2003
72. Member, Advisory Committee of Annual Meeting of the Indian Section of the International Society for Heart Research, Lucknow, 2004
73. Member, National Committee for the 12th International Conference on Second Messengers and Phosphoproteins, Montreal, 2004
74. Member, International Advisory Committee of Annual Meeting of the Indian Section of the Indian Science Congress, Chandigarh, 2004
75. Chairman, 1st Annual National Research Forum for Young Investigators in Circulatory and Respiratory Health, Winnipeg, 2004
76. Member, Scientific Committee for the 27th Annual Meeting of the American Section of the International Society for Heart Research, New Orleans, 2005
77. Member, International Advisory Board for the First Congress of Physiological Sciences of Serbia and Montenegro, 2005
78. Chairman, 2nd Annual National Research Forum for Young Investigators in Circulatory and Respiratory Health, Winnipeg, 2005
79. Section Chairman – Cellular Biology of the Heart, 12th World Congress on Heart Disease, Vancouver, 2005
80. Member, Scientific Executive Committee, 12th World Congress on Heart Disease, Vancouver, 2005

81. Member, International Executive Committee, CardioGlobal, Proto Alegre, 2005
82. Member, Scientific Committee, International Symposium on Recent Advances in Molecular, Clinical and Social Medicine, Shantou, 2005
83. Honorary Chairman of the NATO Advanced Research Workshop on Stress-induced Biochanges in the Heart, Antalya (2005)
84. Member, International Scientific Committee for the 16th World Congress of the World Society of Cardio-Thoracic Surgeons, Ottawa, 2006
85. Chairman, 3rd Annual National Research Forum for Young Investigators in Circulatory and Respiratory Health, Winnipeg, 2006
86. Member, Scientific Committee for Satellite Symposium, From Vascular Biology to the Atherosclerosis Prevention, Belgrade, 2006
87. Member of International Advisory Board, 2nd World Congress of the Academy of Cardiovascular Sciences, Sapporo, 2006
88. Honorary Chairman, International Congress of Cardiovascular Sciences, Rio de Janeiro, 2006
89. Honorary President, 5th International Symposium on Myocardial Protection, Pecs, 2006
90. Honorary President, International Symposium on Cardiovascular Research, Holguin, 2007
91. Member, Scientific Executive Committee and Chairman, Section of Cellular Biology of the Heart, 13th World Congress on Heart Disease, Vancouver, 2007
92. International Advisor, Second International Symposium on Recent Advances in Cardiovascular Sciences, Istanbul, 2008
93. Chief Patron of the 2008 ISHR meeting, Chandigarh, 2008
94. Member Advisory Committee for International Symposium on Myocardial Protection – From Lab to Man, Amman, 2008
95. Member, International Committee of Symposium on Perspective of Cell Signaling and Molecular Medicine, Kolkata, 2008
96. Member, Scientific Executive Committee and Chairman, Section of Cellular Biology of the Heart, 14th World Congress on Heart Disease, Toronto, 2008
97. Member, International Advisory Board, Mendel Symposium II, Prague, 2008
98. Member, International Advisory Board, Symposium on Advances in Cardiovascular Research, Bratislava, 2008
99. Member, International Advisory Committee, Joint ISHR-IACS Meeting, Surat, 2008
100. Member, Advisory Committee, 41st Annual Conference of Indian Pharmacological Society, New Delhi, 2008
101. Honourary Chair of the 2nd International Symposium on Cardiovascular Research, Holguin, 2009
102. Member, Organization Committee, 6th Meeting of the Canadian Oxidative Stress Consortium, Winnipeg, 2009
103. Member, Organization Committee, Sudden Cardiac Death and Cardiovascular Therapy/3rd World Congress of the International Academy of Cardiovascular Sciences, Copenhagen, 2009
104. Member, International Advisory Council, 42nd Annual Conference of Indian Pharmacology Society, Kolkata, 2009
105. Member, International Advisory Board, Recent Advances in Cardiovascular Research, Smolenice Castle, 2010
106. Member, Senior Advisory Committee, 20th Congress of the International Society for Heart Research, Kyoto, 2010
107. Honorary President, 6th International Symposium on Myocardial Cytoprotection, Pecs, 2010

108. Member, Organization Committee, 4th World Congress of the International Academy of Cardiovascular Sciences, Ahmedabad, 2011
109. Member Organization Committee, International Symposium on New Approaches in Cardiovascular Disorders, Ankara, 2011
110. Honorary President, 3rd International Symposium on Cardiovascular Research and 2nd Cuba-Canada International Heart Symposium, Holguin, 2011
111. Member, Scientific Executive Committee, 16th World Congress on Heart Disease, Vancouver, 2011
112. Member, Scientific Executive Committee, 17th World Congress on Heart Disease, Toronto, 2012
113. Member, Organization Committee, Winnipeg Heart International Congress, Winnipeg, 2011
114. Member, Organization Committee, Conference and Advanced Workshop on Sudden Cardiac Death, Timisoara, 2012
115. Honorary Chair, 4th Cuba-Canada International Heart Symposium, Holguin, 2013
116. Member, International Advisory Board, Symposium on Advances in Cardiovascular Research, Bratislava, 2013
117. Member, Scientific Executive Committee, 18th World Congress on Heart Disease, Vancouver, 2013
118. Honorary President, VII International Symposium on Myocardial Cytoprotection, Pecs, 2013

Current Research Interests:

1. Pathophysiology of Membrane Defects in Ischemic Heart Disease
2. Remodelling of Subcellular Organelles in Congestive Heart Failure
3. Signal Transduction Mechanisms in Heart Function in Health and Disease
4. Stress induced Cardiovascular Disease
5. Pathophysiology and Therapeutics of Diabetic Cardiomyopathy

Present Research Staff:

- | | | |
|----|---------------------|-----|
| 1. | Research Associates | - 2 |
| 2. | Support Staff | - 1 |
| 3. | Consultant | - 1 |

Past Trainees:

- | | | |
|----|----------------------|------|
| 1. | Visiting Scientists | - 36 |
| 2. | Postdoctoral Fellows | - 49 |
| 3. | Ph.D. Students | - 31 |
| 4. | M.Sc. Students | - 28 |
| 5. | B.Sc. Med. Students | - 17 |

Graduate and B.Sc. Med. Students

I. Ph.D. STUDENTS

	<u>Year</u>		<u>Year</u>	
1.	Prakash Sulakhe	1971	4. Charles W. Tomlinson	1975
2.	Dennis B. McNamara	1973	5. John C. Yates	1976
3.	Sheu-Lun Lee	1974	6. John A.C. Harrow	1978

7. Madhu B. Anand	1978	20. Sujata Persad	1996
8. Gina M. Taam	1980	21. Qiming Shao	1997
9. Michael Daly	1982	22. Subburaj Kannan	1998
10. Margaret Moffat	1982	23. Xi Wang	2000
11. Lauri E. Alto	1982	24. Rana Temsah	2002
12. Balwant S. Tuana	1982	25. Jingwei Wang	2004
13. Grant N. Pierce	1983	26. Xiaobing Guo	2004
14. Clayton Heyliger	1983	27. Harjot K. Saini-Chohan	2007
15. Dayuan Zhao	1989	28. Tushi Singal	2008
16. Ian M.C. Dixon	1990	29. Melissa R. Dent	2010
17. Nasir Afzal	1993	30. Andrea Babick	2010
18. Rajat Sethi	1994	31. Raja B. Singh	2011
19. Leonard Golfman	1994		

II. M.Sc. STUDENTS

	<u>Year</u>		<u>Year</u>
1. Charles W. Tomlinson	1971	15. Kelly McKnight	1989
2. V. Belasubramanian	1971	16. Jingwei Wang	1998
3. Kenneth G. Varley	1972	17. Xiaobing Guo	1999
4. John C. Yates	1973	18. Ardeep Kent	2000
5. James A.C. Harrow	1973	19. Sharad Rastogi	2000
6. Lauri E. Alto	1978	20. Raja B.Singh	2003
7. Margaret P. Matsukubo	1980	21. Weihua Zhang	2003
8. Brenda Loveridge	1980	22. Ming Zhang	2004
9. Clayton Heyliger	1980	23. Punam C. Chohan	2004
10. Larry Fliegel	1980	24. Andrea Babick	2004
11. Dennis Michiel	1982	25. Melissa Dent	2004
12. Michael Kutryk	1984	26. Santosh K. Sanganalmath	2005
13. Ian M.C. Dixon	1986	27. Srilekha Maddika	2007
14. Doug Eyolfson	1988	28. Alison Müller	2012

III. B.Sc. MED STUDENTS

	<u>Year</u>		<u>Year</u>
1. David Corder	1982	10. Kumar Gupta	1992
2. Mary Jane Seager	1984	11. John Hansen	1993
3. Kevin Rice	1984	12. Neel Bector	1994
4. Susan Roman	1984	13. Deepak Kaura	1995
5. Raghu Dhruvarajan	1985	14. Sunil Bhatt	1995
6. Stanley Tung	1986	15. Chad Dyck	1998
7. Arcel Bissonette	1987	16. Manjot Sandhu	2000
8. Timothy Hilderaman	1989	17. Raj Goel	2000
9. Bruce Kropelin	1991		

Past Postdoctoral Fellows and Visiting Scientists

I. POSTDOCTORAL FELLOWS

- | | |
|---------------------------|----------------------------|
| 1. Dr. Jagat N. Singh | 26. Dr. Satoshi Takeda |
| 2. Dr. Amarjit Singh | 27. Dr. Sorin Musat |
| 3. Dr. Mohinder Chauhan | 28. Dr. Kiminori Kato |
| 4. Dr. Pawan K. Singal | 29. Dr. Thomas Netticadan |
| 5. Dr. Vincenzo Panagia | 30. Dr. Bin Ren |
| 6. Dr. N. Kapur | 31. Dr. Li-Ping Yu |
| 7. Dr. Satoshi Takeo | 32. Dr. Mitsuru Osada |
| 8. Dr. Morris Karmazyn | 33. Dr. Hideki Sasaki |
| 9. Dr. Andre Dzurba | 34. Dr. Ken-ichi Kawabata |
| 10. Dr. Naoki Makino | 35. Dr. David Brasil |
| 11. Dr. K.S. Dhillon | 36. Dr. Xueliang Liu |
| 12. Dr. V. Bhayana | 37. Dr. Emmanuelle Sentex |
| 13. Dr. M. Gupta | 38. Dr. Nina Aroutiounova |
| 14. Dr. Yuji Taira | 39. Dr. Adel B. Elmoselhi |
| 15. Dr. Pallab K. Ganguly | 40. Dr. Petr Ostadal |
| 16. Dr. Vijayan Elimban | 41. Dr. Irena Zdobnicka |
| 17. Dr. Masanori Kaneko | 42. Dr. Satyajeet Rathi |
| 18. Dr. Frantisek Kolar | 43. Dr. Girma Asemu |
| 19. Dr. Enn Seppet | 44. Dr. Jarmila Machackova |
| 20. Dr. Roland Vetter | 45. Dr. Rajat Sethi |
| 21. Dr. Tomoji Hata | 46. Dr. Judit Barta |
| 22. Dr. Shingo Suzuki | 47. Dr. Todd Duhamel |
| 23. Dr. Taku Matsubara | 48. Dr. Yasser Abdellatif |
| 24. Dr. Nasir Afzal | 49. Dr. Navneet S. Rehsia |
| 25. Dr. Yan-Jun Xu | |

II. VISITING SCIENTISTS

- | | |
|--|--|
| 1. Dr. I. Haideri, India | 15. Dr. Xing Lu, China |
| 2. Dr. M. Fedelesova, Czechoslovakia | 16. Dr. Mohinder S. Nijjar, Canada |
| 3. Dr. Attila Ziegelhoffer, Czechoslovakia | 17. Dr. Satoshi Takeo, Japan |
| 4. Dr. Prasun K. Das, India | 18. Dr. Yoshihisa Nasa, Japan |
| 5. Dr. G. Singh, India | 19. Dr. Tanya Ravingerova, Slovak Republic |
| 6. Dr. S. Han, China | 20. Dr. Ramesh Goyal, India |
| 7. Dr. J.S. Juggi, Kuwait | 21. Dr. Sushil Sharma, Canada |
| 8. Dr. Jos M.J. Lamers, The Netherlands | 22. Dr. Praveen Bhugra, India |
| 9. Dr. Heinz Rupp, Germany | 23. Dr. Sushma Mengi, India |
| 10. Dr. Bohuslav Ostadal, Czech Republic | 24. Dr. Abdel Aziz, Egypt |
| 11. Dr. Ivana Ostadalova, Czech Republic | 25. Dr. Belma Turan, Turkey |
| 12. Dr. Vaclav Pelouch, Czech Republic | 26. Dr. Sucheta Dandekar, India |
| 13. Ms. Alena Urbanova, Czech Republic | 27. Mr. Ajit Pal Singh, India |
| 14. Dr. S. Chen, China | |

- | | |
|----------------------------------|-------------------------------------|
| 28. Dr. Onkar Tripathi, India | 33. Dr. Tanju Ozcelikay, Turkey |
| 29. Mr. Samarjit Das, USA | 34. Dr. Sukhinder K. Cheema, Canada |
| 30. Dr. Devdas Santani, India | 35. Dr. Adriana Adameova, Slovakia |
| 31. Dr. Suresh Tiwari, India | 36. Dr. Nirankar Neki, India |
| 32. Ms. Zhanna Krysanova, Russia | |

Invited Speaker at International and National Symposia, Congresses and Workshops:

1. Myocardial Metabolism, The Development of a New Science, Stowe, 1970
2. Calcium Transport in Heart, Winnipeg, 1972
3. Pathology of the Heart, Boston, 1973
4. Functional Damage of Myocardial Mitochondria, Freiburg, 1973
5. Myocardial Ischemia, Quebec, 1974
6. Pathophysiology of Cardiovascular System, Prague, 1975
7. Myocardial Metabolism, New Delhi, 1976
8. Cytochemistry of Heart Muscle, Bucharest, 1976
9. Soviet Pathophysiology Congress, Tashkent, 1976
10. USSR Union of Cardiology Meeting, Yerevan, 1977
11. International Symposium on Heart and Age, Sukhumi, 1977
12. 9th International Heart Congress, New Delhi, 1978
13. 3rd International Congress on Pathophysiology, Varna, 1978
14. Workshop on Heart Muscle - Canadian Federation on Biological Societies Meeting, London, Ontario, 1978
15. Erwin Riesch Symposium on Experimental Hypertrophy and Heart Failure, Tubingen, 1979
16. AN Richards Symposium on The Actions of Taurine on Excitable Tissues, Philadelphia, 1979
17. Workshop of the European Cardiology Society on Ischemic Myocardial Necrosis, Bad Nauheim, 1979
18. Symposium on Cardiomyopathy, Budapest, 1979
19. 8th European Congress of Cardiology, Paris, 1980
20. 10th International Heart Congress, Moscow, 1980
21. International Symposium on Calcium Antagonists, Buenos Aires, 1980
22. VIII Peruvian Congress on Cardiology, Trujillo, 1981
23. International Symposium on Heart Hypertrophy and Failure, Vermont, 1981
24. International Symposium on Smooth Muscle Contraction, Winnipeg, 1981
25. Symposium on Calcium Movements in Myocardium, Bologna, 1981
26. Myocardial Injury - 4th ISHR - American Section Meeting, New Orleans, 1982
27. Symposium on Adenylate Cyclic Nucleotides - Canadian Federation of Biological Societies, Edmonton, 1982
28. Symposium on Molecular and Cellular Aspects of Heart Regulation, Berlin, 1982
29. 3rd International Erwin Riesch Symposium, Tubingen, 1982
30. Symposium on Cardiac Function and Metabolism, Osaka, 1983
31. American Heart Association Symposium in North Carolina, Winston-Salem, 1983
32. Ringer Symposium on Calcium and Heart - Canadian Federation of Biological Societies, Ottawa, 1983
33. International Symposium on Ca²⁺-Paradox, Utrecht, 1983
34. Symposium on Biology of Cardiac Overload, Paris, 1983

35. Symposium on Calcium Metabolism in Heart Failure - 5th ISHR - American Section Meeting, Hilton Head, 1983
36. Symposium on Sarcolemmal Changes in Heart Dysfunction - 6th ISHR - American Section Meeting, Oklahoma City, 1984
37. Fourth International Symposium on Magnesium, Blacksburg, 1985
38. Nutrition and Cardiovascular Disease, 26th Annual Meeting of American College of Nutrition, Blacksburg, 1985
39. 12th International Heart Congress, Melbourne, 1986
40. Control of Heart Metabolism, Beijing, 1986
41. Heart Function in Health and Disease, Shanghai, 1986
42. Membrane Systems in Heart Muscle, Reykjavik, 1986
43. Molecular Events Occurring During Post-Ischemic Reperfusion, Venice, 1986
44. Pathology and Pharmacology of the Heart, Baku, 1986
45. Digitalis and Inotropic Agents, Rosario, 1986
46. Clinical Pharmacology Workshop, Chandigarh, 1987
47. Wollenberger Symposium on Heart Regulation, Berlin-Buch, 1987
48. Symposium on the Diabetic Heart, Budapest, 1987
49. Symposium on Regulation of Transport Mechanism, Beaufort, 1987
50. Second Congress of the International Society of Myochemistry, Rome, 1987
51. Canadian Cardiovascular Society Symposium, Edmonton, 1987
52. Symposium of Japanese Section of the International Society for Heart Research, Tokyo, 1988
53. International Symposium on Heart Disease, Chandigarh, 1988
54. Workshop on Evaluation of Cardiac Contractility in Memory of Otto Frank, Tubingen, 1988
55. International Conference on Cellular Pathology and Pharmacology, Budapest, 1988
56. International Conference on Biomembranes in Health and Disease, Lucknow, 1988
57. Focus on Propionyl-L-Carnitine, Rome, 1988
58. The Stunned Myocardium, 13th World Congress of ISHR, Ann Arbor, 1989
59. International Symposium on Diabetic Heart, Tokyo, 1989
60. Congestive Heart Failure, Venice, 1989
61. International Teach-in on Ischemic Heart Disease, Italian Experimental Cardiology Group, Rome, 1989
62. International Teach-in on Heart Failure, National Meeting of the Spanish Society of Cardiology, Oviedo, 1989
63. Symposium on Cardiac Structure and Metabolism, Tokushima, 1989
64. International Symposium on Diabetic Heart, Tokyo, 1989
65. World Congress of Cardiology - Symposium on Heart Failure, New Delhi, 1989
66. Symposium on Ischemia and Reperfusion Injury of the Heart, Smolenice, 1990
67. International Symposium on Pathophysiology and Treatment of Diabetes Mellitus, Montpellier, 1990
68. World Congress of the International Academy of Pathology: Symposium on Myocardial Ischemia and Infarction, Buenos Aires, 1990
69. Symposium on Current Topics in Heart Failure: Experimental and Clinical Aspects, Freudenstadt, 1990
70. Symposium on Recent Advances in Heart Disease, Cincinnati, 1991
71. Jikei University Cardiovascular Medicine Symposium, Tokyo, 1991
72. 9th Meeting of the ISHR - Japanese Section - Plenary Lecture, Hamamatsu, 1991

73. 34th Annual Meeting of the Canadian Federation of Biological Societies -Upjohn Award Lecture, Kingston, 1991
74. Symposium on Pathophysiology of Myocardial Ischemia, Chende, 1991
75. International Union of Physiological Societies - Invited Lecture, Prague, 1991
76. Third International Symposium on Lipid Metabolism in the Normoxic and Ischemic Heart, Rotterdam, 1991
77. American Physiological Society Symposium on Identification and Treatment of Cardiovascular Disease in Diabetes, San Antonio, 1991
78. American Biophysical Society Symposium on Membrane Transport and Signal Transduction, Beaufort, 1991
79. 44th Meeting of the Canadian Cardiovascular Society - Plenary Lecture, Calgary, 1991
80. Symposium on Cellular Abnormalities Associated with Cardiomyopathies in Animals, Tokyo, 1992
81. Beijing International Conference on Heart Research, Beijing, 1992
82. Symposium, Meeting of the American Section of the International Society for Heart Research, Burlington, 1992
83. International Symposium on Myocardial Hypertrophy and Failure, Mar del Plata, 1992
84. Satellite Symposium: Cellular Basis of Myocardial Ischemia, La Plata, 1992
85. Satellite Symposium: Mechanisms of Hypertrophy and Cardiac Failure, Buenos Aires, 1992
86. Jikei University Symposium on Heart Disease, Tokyo, 1993
87. Symposium, The III World Congress of the International Society for Adaptive Medicine, Tokyo, 1993
88. Hokkaido Symposium on New Strategies for the Treatment of Heart Failure, Sapporo, 1993
89. Symposium, XIV European Section Meeting of the International Society for Heart Research, Jerusalem, 1993
90. Symposium of the XV American Section Meeting of the International Society for Heart Research, Columbia, 1993
91. Fourth Fall Conference on Membrane Biophysics by the American Biophysical Society, Beaufort, 1993
92. International Symposium on Hypertension and Heart Research, Bombay, 1994
93. Symposium at the XV European Section Meeting of the International Society for Heart Research, Copenhagen, 1994
94. International Conference on Cellular Interactions in Cardiac Pathophysiology, Smolenice, 1994
95. Vanadium Symposium: Biochemistry, Physiology and Potential Use in Diabetes Therapy, Montreal, 1994
96. Symposium at the XVI American Section Meeting of the International Society for Heart Research, London, 1994
97. VII International Symposium on Magnesium, Lisbon, 1994
98. Symposium on Diabetes and the Heart, Kobe, 1994
99. 5th Haunso Symposium on Basic Research in Cardiology, Copenhagen, 1995
100. International Conference on Trace Elements and Free Radicals, Kuwait, 1995
101. 22nd Annual Meeting of the Egyptian Society of Cardiology, Cairo, 1995
102. Symposium on Excess Catecholamine Syndrome, Fellbach, 1995
103. Oscar Langendorff Symposium on Control of Cardiovascular Gene Expression, Stuttgart, 1995
104. Symposium on Signal Transduction in Normal and Diseased Myocardium, Rotterdam, 1995

105. Kaito Symposium at the XV World Heart Congress, Prague, 1995
106. Workshop on Cardiovascular Alterations in Diabetes Mellitus, Budapest, 1995
107. Symposium at the XV Interamerican Congress of Cardiology, Chile, 1995
108. International Symposium on Myocardial Preservation and Cellular Adaptation, Madras, 1995
109. Cardiomyopathy and Heart Failure Summit, Toronto, 1996
110. 3rd International Conference on Fatty Acids in Cell Signalling, Maastricht, 1996
111. 4th Balkan Meeting on Pediatric Cardiology and Cardiac Surgery, Bucharest, 1996
112. International Carl Ludwig Symposium on Growth Factors and Cardiac Hypertrophy, Leipzig, 1996
113. Symposium on Ischemic Heart, Tokyo, 1996
114. III Academic Brazilian Congress on Cardiology and Cardiovascular Surgery, Belo Horizonte, 1996
115. International Symposium on University Education and Research: Public and Private, Rio de Janeiro, 1996
116. 24th Annual Meeting of the Egyptian Society of Cardiology, Cairo, 1997
117. Fifth Medical Research Symposium, Dominica, 1997
118. International Symposium on ACE Inhibitors, Hong Kong, 1997
119. International Symposium on Ischemia-reperfusion, Buenos-Aires, 1997
120. Myocardial Ischemia and Heart Failure, Nice, 1997
121. Myocardial Adaptation to Ischemia, Stara Lesna, 1997
122. 2nd World Congress of the International Society for Molecular Nutrition and Therapy, Winnipeg, 1997
123. 20th Congress of the Japanese Working Group of Cardiac Structure and Metabolism, Tokyo, 1997
124. Canadian Cardiovascular Society Symposium on Oxidative Stress in Ischemic Heart Disease, Winnipeg, 1997
125. First Asia-Pacific Congress on Hypertension, Surat, 1997
126. International Symposium on Diabetes and Hypertension, Ahmedabad, 1997
127. International Congress on Molecular Genetics, Cairo, 1998
128. 25th Anniversary Conference of the Egyptian Society of Cardiology, Cairo, 1998
129. XIII World Congress of Cardiology, Rio de Janeiro, 1998
130. International Symposium on Heart Disease, Cairo, 1998
131. International Conference on Heart in Stress, Lahti, 1998
132. 2nd Scientific Meeting of the Heart Failure Society of America, Boca Raton, 1998
133. International Symposium on Ischemic Preconditioning, London, 1998
134. V Conference of the International Society for Trace Element Research in Humans, Lyons, 1998
135. International Conference on Cardiac Hypertrophy, Tokyo, 1998
136. 2nd Meeting on Pathophysiology of Myocardial Ischemia and Adaptive Mechanisms, Taormina, 1988
137. Sino-Canadian Symposium on Cardiovascular and Gastrohepatic Research, Hong Kong, 1998
138. VIII Scientific Forum on Cardiology and Cardiovascular Surgery, Belo Horizonte, 1998
139. International Conference on Antioxidant Therapy in Heart Disease, Mumbai, 1999
140. International Conference on Emerging Potentials of Antioxidant Therapy, Goa, 1999
141. 26th Conference of the Egyptian Society of Cardiology, Cairo, 1999
142. Canada/Argentina Symposium at the 18th Congress of Argentine Cardiology, Buenos Aires, 1999

143. Second International Workshop on Ecto-ATPases and Related Ectonucleotidases, Diepenbeek, 1999
144. Japan Serotonin Conference, Tokyo, 1999
145. Symposium on Rehabilitation Challenges for the New Millennium, Winnipeg, 1999
146. 7th World Congress on Clinical Nutrition, New Delhi, 1999
147. 12th Asian Pacific Congress of Cardiology, Lahore, 1999
148. International Symposium on Emerging Trends in Cardiovascular Pharmacology, Chandigarh, 1999
149. International Congress on Frontiers in Pharmacology and Therapeutics in 21st Century, New Delhi, 1999
150. 4th International Workshop on Mechanisms of Cardioprotection, Tel Aviv, 2000
151. International Forum: Cardiology and Cardiovascular Surgery into the New Millennium, Tel Aviv, 2000
152. Symposium of Pathophysiologie und Pharmakotherapie der Herzinsuffizienz, Tübingen, 2000
153. Oxidative Stress in Health and Disease: Today and Tomorrow, Hamilton, 2000
154. International Symposium on the Developing Heart, Prague, 2000
155. Symposium on Diabetes and Cardiovascular Disease at the Meeting of the Japan Diabetes Society, Nagoya, 2000
156. American College of Cardiology Heart Failure Summit, Toronto, 2000
157. Symposium, Meeting of the American Section of the International Society for Heart Research, Louisville, 2000
158. 7th World Congress on Heart Failure, Vancouver, 2000
159. 6th World Congress of the International Society for Adaptive Medicine, Lyon, 2000
160. 4th Annual Scientific Meeting of the Japanese Heart Failure Society, Kobe, 2000
161. Cardiovascular Symposium at the 33rd Annual Conference of Indian Pharmacological Society, Gandhinagar, 2000
162. International Conference on Pathophysiology and Drug Therapy of Cardiovascular Disorders, Patiala, 2001
163. Symposium at the Annual Conference of the Indian Section of the International Society for Heart Research, New Delhi, 2001
164. 10th International Congress on Cardiovascular Pharmacotherapy, Kyoto, 2001
165. Symposium on Between Angiogenesis and Heart Failure, Caesarea, 2001
166. Oxidative Stress in Health and Disease: Second Meeting of the Oxidative Stress, London, 2001
167. XVII World Congress of the International Society for Heart Research, Winnipeg, 2001
168. International Symposium on Remodeling and Progression of Heart Failure, Minneapolis, 2001
169. International Muscle Energetics Conference, Burlington, 2001
170. 2nd International Congress of Heart Disease - New Trends in Research, Diagnosis and Treatment, Washington DC, 2001
171. 6th Symposium of the World Artificial Organ, Immunology and Transplantation Society, Ottawa, 2001
172. 24th Annual Meeting of the Japanese Section of Cardiac Structure and Metabolism, Beppu, 2001
173. 53rd Indian Pharmaceutical Congress, New Delhi, 2001
174. 89th Indian Science Congress, Lucknow, 2002
175. 34th Annual Conference of Indian Pharmacological Society, Nagpur, 2002

176. Annual Conference of the International Society for Heart Research – Indian Section, Trivandrum, 2002
177. Recent Advances in Molecular Physiology, Kalyani, 2002
178. International Symposium on Cardiovascular Research, Port of Spain, 2002
179. 2nd Eastern Mediterranean Congress on Heart Health, Cairo, 2002
180. 2nd International Congress on Cardiovascular Diseases, Kosice, 2002
181. 3rd International Conference on Oxygen/Nitrogen Radicals: Cell Injury and Disease, Morgantown, 2002
182. The Failing Heart: From Molecular Mechanisms to Clinical Applications, Stara Lesna, 2002
183. International Symposium on Reactive Oxygen and Nitrogen Species: Diagnostic and Therapeutic Values, St. Petersburg, 2002
184. 1st LIBBS International Workshop on Cardiovascular Research, Sao Paulo, 2002
185. 57th Congress of the Brazilian Society of Cardiology, Sao Paulo, 2002
186. XV Lancefield Symposium on Streptococcal Diseases, Goa, 2002
187. International Conference on Chest Diseases and Allied Sciences, New Delhi, 2003
188. Annual Meeting of the ISHR and International Academy of Cardiovascular Sciences – India Section, Chandigarh, 2003
189. International Conference on Role of Free Radicals and Antioxidants in Health and Disease, Lucknow, 2003
190. XXV Annual Meeting of the International Society for Heart Research-American Section, Mystic, 2003
191. 4th International Symposium on Diabetes Mellitus and its Complications: From Molecular Biology to Clinical Medicine, Preston, 2003
192. 3rd World Congress on Heart Disease – New Trends in Research and Treatment, Washington, DC, 2003
193. 7th Congress of the International Society for Adaptive Medicine, San Diego, 2003
194. Mendel Symposium on Gene and the Heart, Brno, 2003
195. IV International Symposium on Myocardial Cytoprotection, Pecs, 2003
196. Canadian Cardiovascular Congress, Toronto, 2003
197. 20th Annual Meeting of the International Society for Heart Research-Japanese Section, Tokyo, 2003
198. XXXVI Annual Conference of the Indian Pharmacological Society, New Delhi, 2003
199. 91st Session of the Indian Science Congress, Chandigarh, 2004
200. International Symposium on Pharmacotherapy of Heart Failure, New Delhi, 2004
201. Joint ISHR (Indian Section) and IACS Conference on Heart Disease, Lucknow, 2004
202. Hungarian Cardiology Society Meeting, Debrecen, 2004
203. Ignacio Chavez Rivera Symposium on Cardiovascular Disease, Mexico City, 2004
204. Presidential Symposium, ISHR (American Section) Meeting, Cancun, 2004
205. 4th Annual Oxidative Stress Consortium, Toronto, 2004
206. 5th International Heart Health Conference, Milan, 2004
207. 4th Japan Section Meeting, International Academy of Cardiovascular Sciences, Osaka, 2004
208. VIII Congress of ISHR (Chinese Section), Weihai, 2004
209. Cardioglobal: 1st International Intensive Seminar on Cardiovascular Diseases, Ouro Preto, 2004
210. Cardiovascular Workshop at the Canadian Cardiovascular Congress, Calgary, 2004
211. Annual Meeting of ISHR and International Academy of Cardiovascular Sciences-India Section, Ahmedabad, 2004
212. 37th Annual Meeting of the Indian Pharmacological Society, Kolkata, 2005

213. NATO Advanced Research Workshop: Stress-induced Biochanges in the Heart, Antalya, 2005
214. 5th Biennial International Conference of the Pakistan Society of Cardiovascular and Thoracic Surgeons, Lahore, 2005
215. 27th Annual ISHR American Section Meeting, New Orleans, 2005
216. Wine and Cardiovascular Health, Marsala, 2005
217. Advances in Cardiology Research: Molecular and Genetic Basis of Cardiovascular Diseases, Bratislava, 2005
218. 12th World Congress on Heart Disease – New Trends in Research, Diagnosis and Treatment, Vancouver, 2005
219. Brasil-Canada Symposium on Metabolic Syndrome, Cardioglobal 2005, Porto Alegre, 2005
220. 60th Congress of the Brazilian Society of Cardiology, Porto Alegre, 2005
221. 23rd Argentine Congress of Cardiology, Buenos Aires, 2005
222. International Academy of Cardiovascular Sciences – South America Symposium, Buenos Aires, 2005
223. First Congress of Physiological Sciences of Serbia and Montenegro, Belgrade, 2005
224. Scientific Forum 77, Tokyo, 2005
225. Joint Annual Meeting of the International Society for Heart Research (India Section) and International Academy of Cardiovascular Sciences (India Chapter), Chennai, 2006
226. International Conference on Recent Advances in Diabetes Mellitus and its Complications, Al Ain, 2006
227. Inflammation 2006: 2nd National Symposium on Inflammation and Inflammatory Diseases, Poianna Brasov, Romania, 2006
228. 28th Annual ISHR-American Section Meeting, Toronto, 2006
229. Satellite Symposium: From Vascular Biology to the Atherosclerosis Prevention, Belgrade, 2006
230. 2nd World Congress of the International Academy of Cardiovascular Sciences, Sapporo, 2006
231. 5th International Symposium on Myocardial Protection, Pecs, 2006
232. Diabetes Workshop at the Canadian Cardiovascular Congress, Vancouver, 2006
233. 43rd Annual Conference of Japanese Society of Clinical Physiology, Fukuoka, 2006
234. XVI Scientific Forum in Cardiovascular Sciences, Rio de Janeiro, 2006
235. International Symposium on Cardiovascular Research, Holguin, Cuba, 2007
236. 5th Meeting of the Canadian Oxidative Stress Consortium, Montreal, 2007
237. Nutrition, Treatment and Cardiovascular Risk Management, Novi Sad, 2007
238. 13th World Congress on Heart Disease, Vancouver, 2007
239. Canadian Association of Physicians of Indian Heritage, Alaska, 2007
240. European Society of Cardiology Congress, Vienna, 2007
241. Russian Cardiology Congress, Moscow, 2007
242. 40th Annual Meeting of the Indian Pharmacological Society, Mohali, 2007
243. International Congress of Cardiovascular Sciences – 7th Scientific Forum, Belo Horizonte, 2007
244. 12th South American Symposium of the International Academy of Sciences, Belo Horizonte, 2007
245. 53rd Annual Conference of the Association of Physiologists and Pharmacologists of India, Visakhapatnam, 2007
246. 4th Annual Scientific Symposium of the Heart Care Clinic, Ahmedabad, 2008
247. Clinical Research Symposium: Bridge from Bench to Bedside, Ahmedabad, 2008

248. Joint Annual Meeting of the International Society for Heart Research and International Academy of Cardiovascular Sciences, Chandigarh, 2008
249. Hungarian Cardiology Society Meeting, Balatonfured, 2008
250. NATO Advanced Research Workshop – Translational Knowledge for Heart Health, Istanbul, 2008
251. International Symposium on Myocardial Protection – From Lab to Man, Amman, 2008
252. 14th World Congress on Heart Disease, Toronto, 2008
253. Manitoba Association of Asian Physicians Summer Symposium, Hecla Island, 2008
254. Mendel Symposium II. Gene and the Heart, Prague, 2008
255. International Symposium on Advances in Cardiovascular Research, Bratislava, 2008
256. The National Congress of Laboratory Medicine, Bucharest, 2008
257. International Scientific Forum VIII, Belo Horizonte, 2008
258. XVIII International Congress of Cardiovascular Sciences, Belo Horizonte, 2008
259. 21st Annual Conference of the Indian Society of Atherosclerosis Research, Chidambaram, 2008
260. Translational Research Symposium in Cardiovascular Sciences, Baroda, 2008
261. Joint Meeting of ISHR and IACS (Indian Section), Surat, 2008
262. 3rd International Symposium on Recent Advances in Cardiovascular Sciences, Delhi, 2008
263. 41st Annual Conference of the Indian Pharmacological Society, New Delhi, 2008
264. 1st Cuba-Canada International Heart Symposium, Holguin, 2009
265. 6th Meeting of the Canadian Oxidative Stress Consortium, Winnipeg, 2009
266. European Society of Cardiology Meeting on Sudden Cardiac Death and 3rd World Conference of International Academy of Cardiovascular Sciences, Copenhagen, 2009
267. International Symposium on Pharmaceutical Sciences, Ankara, 2009
268. Irisawa Memorial Symposium on Muscle Contraction and Remodeling, Kyoto, Japan, 2009
269. 36th International Congress of Physiological Sciences, Kyoto, Japan, 2009
270. 2nd Congress of Physiological Sciences of Serbia, Kragujevic, 2009
271. 8th International Congress on Coronary Artery Disease, Prague, 2009
272. IXX International Congress of Cardiovascular Sciences, Rio de Janeiro, 2009
273. International Conference on Integrative and Personalized Medicine, Kolkata, 2009
274. International Symposium on Recent Advances in Pharmacotherapy of Cardiovascular Diseases, New Delhi, 2009
275. 4th International Conference on Recent Advances in Cardiovascular Sciences, New Delhi, 2010
276. 2nd World Failure Society Congress 2010, Chandigarh, 2010
277. 13th Congress of the Punjab Academy of Sciences, Chandigarh, 2010
278. International Symposium on Scientific Basis of the Practice of Cardiology, Prague, 2010
279. 3rd International Conference on Myocardial Protection: From Bench to Clinical Application, Jordan, 2010
280. XX World Congress of ISHR: Paradigm Shift to Integrated Cardiology – Gene, Function and Life, Kyoto, 2010
281. 15th World Congress on Heart Disease, Vancouver, 2010
282. VI International Symposium on Myocardial Protection, Pecs, 2010
283. XX International Congress of Cardiovascular Sciences, Sao Paulo, 2010
284. Scientific Forum XX, Sao Paulo, 2010
285. 43rd Annual Conference of Indian Pharmacological Society, Hyderabad, 2010
286. 2nd Cuba-Canada International Heart Symposium, Holguin City, 2011

287. 4th World Congress of the International Academy of Cardiovascular Sciences, Vadodara, 2011
288. Care Institute of Medical Sciences 3C-Conference, Ahmedabad, 2011
289. International Symposium on New Approaches in Cardiovascular Disorders, Ankara, 2011
290. 16th World Congress on Heart Disease, Vancouver, 2011
291. Postdoctoral Joint Meeting on Cardiovascular Sciences, Ottawa, 2011
292. 9th International Congress on Coronary Artery Disease, Venice, 2011
293. 8th International Conference on Geriatric Care, Amritsar, 2011
294. XXI International Congress of Cardiovascular Sciences, Salvador, 2011
295. International Conference on Recent Advances in Cardiovascular Sciences and Translational Medicine, Noida, 2012
296. International Conference on Cardiovascular Research Convergence, New Delhi, 2012
297. Advances and Controversies in B-Vitamins and Choline, Leipzig, 2012
298. Canadian Oxidative Stress Consortium, Thunder Bay, 2012
299. 10th Congress of the International Society of Adaptive Medicine, Bucharest, 2012
300. Trends in Cardiovascular Research, Bratislava, 2012
301. 12th Meeting of the International Academy of Cardiovascular Sciences, Tokyo, 2012
302. 17th World Congress on Heart Disease, Toronto, 2012
303. International Conference on Recent Trends in Atherosclerosis, Annamalainagar, 2012
304. Conference and Advanced Workshop on Sudden Cardiac Death and Cardioprotection, Timisoara, 2012
305. 22nd National Conference of the Indian Society of Hypertension, Mumbai, 2012
306. XXII International Congress of Cardiovascular Sciences, Belo Horizonte, 2012
307. Scientific Forum of South-American Section of International Academy of Cardiovascular Sciences, Belo Horizonte, 2012
308. 45th Annual Conference of Indian Pharmacologic Society and International Conference on Navigating Pharmacology Towards Safe and Effective Therapy, Nagpur, 2013
309. 4th Cuba-Canada International Heart Symposium, Holguin, 2013
310. International Conference on Cardiomyopathy Research, Chandigarh, 2013
311. Peru-Brasil Postdoctoral Joint Meeting on Cardiovascular Sciences, Chiclayo, 2013
312. International Symposium on Advances in Cardiovascular Research, Bratislava, 2013
313. 18th World Congress on Heart Disease, Vancouver, 2013
314. VII International Symposium on Myocardial Cytoprotection, Pecs, 2013

Invited Talks at Different Institutions:

(72 invited talks at different medical institutions were given in American, European and Asian continents during 1970-1986)

73. University of British Columbia, Vancouver, 1987
74. Dalhousie University, Halifax, 1987
75. Jefferson University, Philadelphia, 1987
76. University of Cincinnati, Cincinnati, 1987
77. University of Oklahoma, Oklahoma, 1987
78. All India Institute of Medical Sciences, New Delhi, 1987
79. National Institute of Physiology, Okazaki, 1988
80. Nagoya University, Nagoya, 1988

81. University School of Medicine, Hamamatsu, 1988
82. Jikei University, Tokyo, 1988
83. University of Alabama, Birmingham, 1988
84. University of Toronto, Toronto, 1988
85. University of Szeged, Szeged, 1988
86. Erasmus University, Rotterdam, 1988
87. University of Tubingen, Tubingen, 1988
88. University of Brescia, Brescia, 1988
89. Tulane University, New Orleans, 1989
90. Cleveland Clinic Foundation, Cleveland, 1989
91. University of Michigan, Ann Arbor, 1989
92. Institut de Cardiologie de Montreal, Montreal, 1989
93. University of Ottawa, Ottawa, 1989
94. Ottawa Heart Institute, Ottawa, 1989
95. University of Kagoshima, Kagoshima, 1989
96. University of Oaita, Oaita, 1989
97. Sapporo Medical College, Sapporo, 1989
98. University of Hamamatsu, Hamamatsu, 1989
99. Otsuka Research Institute, Tokushima, 1989
100. Sankyo Research Institute, Tokyo, 1989
101. Geisinger Clinic Weis Centre for Research, Danville, 1990
102. II University of Rome, Rome, 1990
103. University of Perugia, Perugia, 1990
104. Charles University, Prague, 1990
105. Masaryk University, Brno, 1990
106. University of Prince Edward Island, Charlottetown, 1990
107. Favalaro Foundation for Teaching and Research, Buenos Aires, 1990
108. University of La Plata, La Plata, 1990
109. Medical Faculty, University of Niigata, Niigata, 1991
110. Fukushima Medical College, Fukushima, 1991
111. Fu Wai Hospital, Chinese Academy of Medical Sciences, Beijing, 1991
112. Xian Medical University, Xian, 1992
113. Harbin Medical University, Harbin, 1992
114. Hiroshima University Medical School, Hiroshima, 1993
115. Cardiovascular Division, Center for Adult Diseases, Osaka, 1993
116. Aoto Hospital, Jikei University, Tokyo, 1993
117. Faculty of Medicine, Kyushu University, Fukuoka, 1993
118. Yamanashi Medical University, Yamanashi, 1993
119. University of Saskatchewan, Saskatoon, 1993
120. University of Sherbrooke, Sherbrooke, 1993
121. University of South Carolina, Charleston, 1994
122. Jikei University, Tokyo, 1994
123. Nagoya University, Nagoya, 1994
124. University of Osaka, Osaka, 1994
125. Medical College of Virginia, Richmond, 1995
126. University of Medicine and Dentistry, Stratford, 1995
127. University of Chile, Santiago, 1995
128. Philipps University of Marburg, Marburg, 1996

129. Martin-Luther University, Halle-Wittenberg, 1996
130. University of Dijon, Dijon, 1996
131. Bayer Institute of Cardiovascular and Arteriosclerosis Research, Wuppertal, 1996
132. University of Freiburg, Freiburg, 1996
133. Duke University Medical Center, Durham, 1996
134. Universite Degli Studi Di Perugia, Perugia, 1996
135. Diabetes Research Institute, Düsseldorf, 1996
136. Tulane University, New Orleans, 1996
137. Kyoto University, Kyoto, 1996
138. Aoto Hospital, Tokyo, 1996
139. Tokyo University, Tokyo, 1996
140. Tsukuba University, Tsukuba, 1996
141. Universidade Federal Do Rio de Janeiro, Rio de Janeiro, 1996
142. Postgraduate Institute of Medical Education and Research, Chandigarh, 1997
143. Ottawa Heart Institute, Ottawa, 1997
144. University of Cincinnati, Cincinnati, 1997
145. Medical Klinik of Cardiology, Prague, 1997
146. Showa University, Tokyo, 1997
147. Kitasato University, Kanagawa, 1997
148. Yamanashi University, Yamanashi, 1997
149. National Institute of Pharmaceutical Education and Research, Mohali, 1997
150. Cairo University, Cairo, 1998
151. All India Institute of Medical Sciences, New Delhi, 1998
152. Jewish Hospital Heart & Lung Center, Louisville, 1998
153. University of California - San Diego, La Jolla, 1998
154. University of Hamamatsu, Hamamatsu, 1998
155. Mitsubishi Chemical Corporation, Tokyo, 1998
156. University of Montreal, Montreal, 1999
157. Sacre-Coeur Hospital, Montreal, 1999
158. Kyushu University, Fukuoka, 1999
159. Tel Aviv University, Tel Aviv, 2000
160. Philipps University of Marburg, Marburg, 2000
161. Aventis Pharma Deutschland GmbH, Frankfurt, 2000
162. Max-Planck Institut, Bad Nauheim, 2000
163. Institute for Heart Research, Slovak Academy of Sciences, Bratislava, 2000
164. Hamamatsu University School of Medicine, Hamamatsu, 2000
165. Osaka University Graduate School of Medicine, Osaka, 2000
166. Mitsubishi-Tokyo Pharmaceuticals Inc., Tokyo, 2000
167. Tulane University, New Orleans, 2000
168. Zydus Research Center, Ahmedabad, 2000
169. Beijing Medical University, Beijing, 2000
170. Xian Medical University, Xian, 2000
171. Association of Physicians of Gujarat, Vadodara, 2001
172. Gujarat Cardiology Society, Ahmedabad, 2001
173. Mitsubishi Pharma Research Center, Tokyo, 2001
174. Fukuoka University, Fukuoka, 2001
175. Czech Academy of Sciences, Prague, 2002
176. Russian Cardiology Center, Moscow, 2002

177. Nanavati Heart Institute, Mumbai, 2002
178. Bombay College of Pharmacy, Mumbai, 2002
179. University of Medicine and Dentistry of New Jersey, Newark, 2003
180. George Washington University Health Center, Washington, DC, 2003
181. The Heart Center – Rigshospitalet, Copenhagen, 2004
182. Tulane University, New Orleans, 2004
183. Martin-Luther Universitat Halle-Wittenberg, Halle-Salle, 2004
184. University of Hong Kong, Hong Kong, 2004
185. University of Tennessee, Memphis, 2004
186. University of Delhi, Delhi, 2005
187. College of Medicine, University of Kuwait, Kuwait, 2005
188. Mitsubishi Pharma Corporation, Tokyo, 2005
189. Virginia Commonwealth University Medical Center, Richmond, 2005
190. Delhi Institute of Pharmaceutical Sciences and Research, New Delhi, 2006
191. National Institute of Pharmaceutical Education and Research, Mohali, 2006
192. Western College of Veterinary Medicine, University of Saskatchewan, Saskatoon, 2006
193. General Research Center of Medical Sciences, Fukuoka University, Fukuoka, 2006
194. National Institute of Nutrition, Hyderabad, 2007
195. Gujrat Government Biotechnology Mission, Ahmedabad, 2008
196. Pennsylvania College of Optometry, Pennsylvania, 2008
197. Delhi Institute of Pharmaceutical Sciences and Research, New Delhi, 2008
198. Albert Szent-Gyorgyi Faculty of Medicine, University of Szeged, Szeged, 2008
199. Tulane University, School of Medicine, New Orleans, 2008
200. Academy of Sciences of the Czech Republic, Prague, 2009
201. Jadavpur University, Centre for Medicinal Food and Applied Nutrition, Kolkata, 2009
202. Vallabhbhai Patel Chest Institute, New Delhi, 2009
203. Guru Nanak Dev University, Amritsar, 2010
204. Medical School, University of Pecs, Pecs, 2010
205. Lady Hardinge Medical College, New Delhi, 2012
206. Panjab University, Chandigarh, 2012
207. Comenius University, Bratislava, 2012
208. Sir Ganga Ram Hospital, New Delhi, 2012
209. Bombay College of Pharmacy, Mumbai, 2012

Books and Monographs Edited or Authored:

1. Dhalla NS (ed), Myocardial Metabolism: Recent Advances in Studies on Cardiac Structure and Metabolism, Vol 3, University Park Press, Baltimore, 1973
2. Dhalla NS (ed), Myocardial Biology: Recent Advances in Studies on Cardiac Structure and Metabolism, Vol 4, University Park Press, Baltimore, 1974
3. Fleckenstein A and Dhalla NS (ed), Basic Function of Cations in Myocardial Activity: Recent Advances in Studies on Cardiac Structure and Metabolism, Vol 5, University Park Press, Baltimore, 1975
4. Roy PE and Dhalla NS (ed), The Sarcolemma: Recent Advances in Studies on Cardiac Structure and Metabolism, Vol 9, University Park Press, Baltimore, 1976

5. Kobayshi T, Sano T and Dhalla NS (eds), Heart Function and Metabolism: Recent Advances in Studies on Cardiac Structure and Metabolism, Vol II, University Park Press, Baltimore, 1978
6. Tajuddin M, Das PK, Tariq M and Dhalla NS (eds), Advances in Myocardiology, Vol I, University Park Press, Baltimore, 1980
7. Chazov E, Smirnov V and Dhalla NS (eds), Advances in Myocardiology, Vol 3, Plenum Publishing Corp, New York, 1982
8. Dhalla NS (ed), Methods in Studying Cardiac Membranes, Vol 1, CRC Press Inc, Boca Raton, 1984
9. Dhalla NS (ed), Methods in Studying Cardiac Membranes, Vol 2, CRC Press Inc, Boca Raton, 1984
10. Dhalla NS and Hearse DJ (eds), Advances in Myocardiology, Vol 6, Plenum Publishing Corp., New York, 1985
11. Beamish RE, Singal PK and Dhalla NS (eds), Stress and Heart Disease, Martinus Nijhoff Publishing, Boston, 1985
12. Beamish RE, Panagia V and Dhalla NS (eds), Pathogenesis of Stress-induced Heart Disease, Martinus Nijhoff Publishing, Boston, 1985
13. Dhalla NS, Pierce GN and Beamish RE (eds), Heart Function and Metabolism, Martinus Nijhoff Publishing, Boston, 1987
14. Dhalla NS, Singal PK and Beamish RE (eds), Pathophysiology of Heart Disease, Martinus Nijhoff Publishing, Boston, 1987
15. Beamish RE, Panagia V and Dhalla NS (eds), Therapeutics of Heart Disease, Martinus Nijhoff Publishing, Boston, 1987
16. Dhalla NS, Innes IR and Beamish RE (eds), Myocardial Ischemia, Martinus Nijhoff Publishing, Boston, 1987
17. Pierce GN, Beamish RE and Dhalla NS (eds), Heart Dysfunction in Diabetes, CRC Press, Boca Raton, 1988
18. Anand IS, Wahi PL and Dhalla NS (eds), Pathophysiology and Pharmacology of Heart Disease, Kluwer Academic Publishers, Boston, 1989
19. Korecky B and Dhalla NS (eds), Subcellular Basis of Contractile Failure, Kluwer Academic Publishers, Boston, 1990
20. Nagano M and Dhalla NS (eds), The Diabetic Heart, Raven Press, New York, 1991
21. Nagano M, Mochizuki S and Dhalla NS (eds), Cardiovascular Disease in Diabetes, Kluwer Academic Publishers, Boston, 1992
22. Ostadal B and Dhalla NS (eds), Heart Function in Health and Disease, Kluwer Academic Publishers, Boston, 1993
23. Nagano M, Takeda N and Dhalla NS (eds), The Cardiomyopathic Heart, Raven Press, New York, 1994
24. Nagano M, Takeda N and Dhalla NS (eds), The Adapted Heart, Raven Press, New York, 1994
25. Dhalla NS, Beamish RE, Takeda N and Nagano M (eds), The Failing Heart, Lippincott - Raven Press, Philadelphia, 1995
26. Singal PK, Dixon IMC, Beamish RE and Dhalla NS (eds), Mechanisms of Heart Failure, Kluwer Academic Publishers, Boston, 1995
27. Dhalla NS, Pierce GN, Panagia V and Beamish RE (eds), Heart Hypertrophy and Failure, Kluwer Academic Publishers, Boston, 1995
28. Dhalla NS, Singal PK, Takeda N and Beamish RE (eds), Pathophysiology of Heart Failure, Kluwer Academic Publishers, Boston, 1996

29. Ostadal B, Nagano M, Takeda N and Dhalla NS (eds), *The Developing Heart*, Lippincott - Raven Press, Philadelphia, 1997
30. Mochizuki S, Takeda N, Nagano M and Dhalla NS (eds), *The Ischemic Heart*, Kluwer Academic Publishers, Boston, 1998
31. Dhalla NS, Zahradka P, Dixon IMC and Beamish RE (eds), *Angiotensin II Blockade: Physiological and Clinical Implications*, Kluwer Academic Publishers, Boston, 1998
32. Takeda N, Nagano M and Dhalla NS (eds), *The Hypertrophied Heart*, Kluwer Academic Publishers, Boston, 2000
33. Angel A, Dhalla NS, Pierce G and Singal PK (eds), *Diabetes and Cardiovascular Disease: Etiology, Treatment and Outcomes*, Kluwer Academic/Plenum Publishers, New York, 2001
34. Ostadal B, Nagano M and Dhalla NS (eds), *Cardiac Development*, Kluwer Academic Publishers, Boston, 2002
35. Singal PK, Dixon IMC, Kirshenbaum LA and Dhalla NS (eds), *Cardiovascular Remodeling and Failure*, Kluwer Academic Publishers, Boston, 2003
36. Dhalla NS, Takeda N, Singh M and Lukas A (eds), *Myocardial Ischemia and Preconditioning*, Kluwer Academic Publishers, Boston, 2003
37. Dhalla NS, Hryshko L, Kardami E and Singal PK (eds), *Signal Transduction and Cardiac Hypertrophy*, Kluwer Academic Publishers, Boston, 2003
38. Pierce GN, Nagano M, Zahradka P and Dhalla NS (eds), *Atherosclerosis, Hypertension and Diabetes*, Kluwer Academic Publishers, Boston, 2003
39. Dhalla NS, Chockalingam A, Berkowitz HI and Singal PK (eds), *Frontiers in Cardiovascular Health*, Kluwer Academic Publishers, Boston, 2003
40. Dhalla NS, Rupp H, Angel A and Pierce GN (eds), *Pathophysiology of Cardiovascular Disease*, Kluwer Academic Publishers, Boston, 2004
41. Ostadal B, Nagano M and Dhalla NS (eds), *Gene and Cardiovascular Function*, Springer Science + Business Media, LLC, New York, 2011
42. Dhalla NS, Nagano M and Dhalla NS (eds), *Molecular Defects in Cardiovascular Dysfunction*, Springer Science + Business Media, LLC, New York, 2011
43. Ostadal B and Dhalla NS (eds), *Cardiac Adaptations: Molecular Mechanisms*, Springer Science + Business Media, LLC, New York, 2013
44. Jugdutt BI and Dhalla NS (eds), *Cardiac Remodeling: Molecular Mechanisms*, Springer Science + Business Media, LLC, New York, 2013
45. Mehta JL and Dhalla NS (eds), *Biochemical Basis and Therapeutic Implications of Angiogenesis, Molecular Mechanisms*, Springer Science + Business Media, LLC, New York, 2013
46. Chakraborti S and Dhalla NS (eds), *Proteases in Health and Disease*, Springer Science + Business Media, LLC, New York, 2013, in press
47. Chakraborti S and Dhalla NS (eds), *Role of Proteases in Cellular Dysfunction*, Springer Science + Business Media, LLC, New York, 2013, in press
48. Turan B and Dhalla NS (eds), *Diabetic Cardiomyopathy: Biochemical and Molecular Mechanisms*, Springer Science + Business Media, LLC, New York, 2013, in press

Patents Obtained:

1. Dhalla NS, Sethi R and Dakshinamurti K. Treatment of Cardiovascular and Related Pathologies (United States Patent Number 6,043,259 dated March 28, 2000)

2. Dakshinamurti K, Sethi R and Dhalla NS. Treatment of Iatrogenic and Age-related Hypertension and Pharmaceutical Compositions Useful Therein (United States Patent Number 6,051,587 dated April 18, 2000)

Research Publications:

Total number of Full Length Papers – 776

- a) Full Length Papers published in Refereed Journals - 606
- b) Full Length Papers published in Books and Proceedings - 170

Abstracts – 599

(Please see the attached lists)

LIST OF PUBLICATIONS BY N.S. DHALLA

A. FULL LENGTH PAPERS BY N.S. DHALLA IN REFEREED JOURNALS

1. Sastry MS, Dhalla NS and Malhotra CL. Chemical investigation of *Herpestis monniera* Linn (Brahmi). *Ind J Pharm* 21:303-304, 1959
2. Malhotra CL, Das PK and Dhalla NS. Some neuropharmacological actions of hersaponin - an active principle from *Herpestis monniera* Linn. *Arch Int Pharmacodyn* 129:290-302, 1960
3. Malholtra CL, Das PK and Dhalla NS. Studies on *Withania ashwagandha* (Part I): Effect of total extract on central nervous system and smooth muscle. *Ind J Physiol and Pharmacol* 4:35-48, 1960
4. Malhotra CL, Das PK and Dhalla NS. Studies on *Withania ashwagandha* (Part II): Effect of total extract on cardiovascular system, respiration and skeletal muscle. *Ind J Physiol and Pharmacol* 4:49-64, 1960
5. Malhotra CL, Das PK and Dhalla NS. Parasympatholytic activity of *Ficus religiosa*, Linn. *Ind J Med Res* 48:734-742, 1960
6. Sastry MS, Dhalla NS and Malhotra CL. Chemical examination of *Withania ashwagandha*, Kaul. *Ind J Pharm* 22:205, 1960
7. Singh I, Singh SI and Dhalla NS. Active relaxation of unstriated muscle produced by epinephrine. *Am J Physiol* 200:955-958, 1961
8. Dhalla NS, Malhotra CL and Sastry MS. Effect of acorus oil in vitro on the respiration of rat brain. *J Pharm Sci* 50:580-582, 1961
9. Malhotra CL, Prasad K, Dhalla NS and Das PK. Effect of hersaponin and acorus oil on noradrenaline and 5-hydroxytryptamine content of rat brain. *J Pharm and Pharmacol* 13:447-448, 1961
10. Dhalla NS, Sastry MS and Malhotra CL. Some in vitro effects of *Herpestis monniera*, Linn on the respiration of rat brain. *Ind J Med Res* 49:781-787, 1961
11. Das PK, Malhotra CL and Dhalla NS. Studies on alkaloids of *Herpestis monniera*, Linn. *Ind J Physiol and Pharmacol* 5:136-143, 1961
12. Malhotra CL, Das PK, Sastry MS and Dhalla NS. Chemical and pharmacological studies on *Hydrocotyle asiatica*, Linn. *Ind J Pharm* 23:106-107, 1961
13. Dhalla NS, Gupta KC, Sastry MS and Malhotra CL. Chemical composition of the fruit of *Momordica charantia*, Linn. *Ind J Pharm* 23:128-129, 1961
14. Dhalla NS, Sastry MS and Malhotra CL. Phytochemical investigations on the bark of *Ficus*

- religiosa, Linn. *Ind J Pharm* 23:74-76, 1961
15. Malhotra CL, Das PK, Dhalla NS and Prasad K. Studies on *Withania ashwagandha*, Kaul (Part III): The effect of total alkaloids on the cardiovascular system and respiration. *Ind J Med Res* 49:448-460, 1961
 16. Dhalla NS, Sastry MS and Malhotra CL. Chemical studies on the leaves of *Withania somnifera*. *J Pharm Sci* 50:876-877, 1961
 17. Dhalla NS, Gupta KC, Sastry MS and Malhotra CL. Comparative studies on *Withania somnifera*, Dunal and *Withania ashwagandha*, Kaul. *Ind J Pharm* 23:126-127, 1961
 18. Malhotra CL, Das PK and Dhalla NS. Investigations on the mechanism of potentiation of barbiturate hypnosis by reserpine, acorus oil, reserpine and chlorpromazine. *Arch Int Pharmacodyn* 138:537-547, 1962
 19. Das PK, Malhotra CL and Dhalla NS. Spasmolytic activity of asarone and essential oil of *Acorus calamus*, Linn. *Arch Int Pharmacodyn* 135:167-177, 1962
 20. Dhalla NS. Pharmacological consideration of some drugs used in the treatment of hypertension. *Antiseptic* 110: 959-968, 1964
 21. Vogin EE and Dhalla NS. Inotropic and chronotropic effects of dichloroisoproterenol on rat atria. *J Pharmacol Exp Therap* 147:65-69, 1965
 22. Vogin EE, Rice AJ and Dhalla NS. Sympathomimetic effects of dichloroisoproterenol. *Arch Int Pharmacodyn* 155:300-210, 1965
 23. Malhotra CL, Mehta VL, Das PK and Dhalla NS. Studies on *Withania ashwagandha*, Kaul (Part V): The effect of total alkaloids (*Ashwagandholine*) on the central nervous system. *Ind J Physiol and Pharmacol* 9:127-136, 1965
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