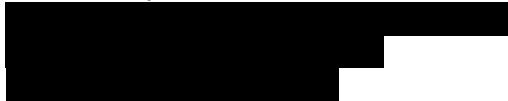


Curriculum Vitae Addendum

**Vice-President of Research, Economic Development and Innovation
Lakehead University
Thunder Bay, Ontario, Canada**



University Address: Office of Vice President (Research, Economic Development and Innovation)
Lakehead University
955 Oliver Road
Thunder Bay, Ontario, Canada P7B 5E1

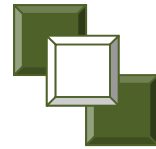


Education:

08/86 - 12/1990	Ph.D.	Physiology, the University of Alberta, Edmonton, Canada
09/77 - 03/1982	M.D.	Weifang Medical College, Shandong, P.R.China
07/82 - 06/1984	M.Sc.	Pathophysiology, F.M. Medical University, Xi'an, P.R. China

Academic and Research Experience:

12/2010 –	Vice-President (Research, Economic Development and Innovation), Lakehead University, Thunder Bay, Ontario, Canada
09-10/2010	Acting Vice-President (Academic) and Provost, Lakehead University, Thunder Bay, Ontario, Canada
09/2009-11/2010	Vice-President Research, Lakehead University, Thunder Bay, Ontario, Canada (Second term renewed)
09/2004-08/2009	Vice-President Research, Lakehead University, Thunder Bay, Ontario, Canada (First term)
01/2007-03/10	National Director of the Centre of Excellence for Children and Adolescents with Special Needs (CECASN), Canada
09/2004-	Professor, Department of Biology, Lakehead University, Thunder Bay, Ontario, Canada
03/2003-06/09	Director, Gasotransmitter REsearch And Training (GREAT) Program, Strategic Training Program of Canadian Institutes of Health Research and Heart and Stroke Foundation of Canada
01-09/2008	Interim Founding Director of Biorefining Research Institute, Lakehead University, Thunder Bay, Ontario, Canada
03/2003-08/2004	Leader (elected), Cardiovascular Research Group, The University of Saskatchewan, Saskatoon, SK, Canada
02/2003-08/2004	Leader (elected), Cardiovascular and Respiratory Network of University of Saskatchewan and the Royal Hospital, Saskatoon, SK, Canada
07/01-08/06	Professor, Department of Physiology, The University of Saskatchewan, Saskatoon, SK, Canada
10/1997-6/01	Associate Professor, Department of Physiology, The University of Saskatchewan, Saskatoon, SK, Canada



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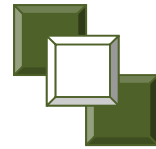
6/1993-9/97	Assistant Professor (Chercheur adjoint) Département de Physiologie, Université de Montréal, Montréal Centre de Recherche, Hôpital du Sacré-Coeur de Montréal
1995-2000	Principal Investigator in Mount Desert Island Biological Laboratory, Bar Harbour, Maine, USA
9/91-5/93	Postdoctoral fellow in Department of Physiology, Université de Montréal, Supervisors: Dr. J. de Champlain and Dr. R. Sauvé
1991 Summer	Independent investigator in Marine Biological Laboratory, Woods Hole, MA 02543, U.S.A.
1991 January	Postdoctoral fellow in Dr. PKT Pang's Laboratory, Department of Physiology, The University of Alberta, Canada
1985-1986	Lecturer, Department of Pathophysiology, F.M. Medical University, Xi'an, P.R.China

Academic appointments at other Universities:

07/2009-	Adjunct Professor, College of Life Science and Technology, Shanxi University, Taiyuan, P.R. China
07/2009-	Visiting Professor, Shanxi Medical University, Taiyuan, P.R. China
03/07 -02/2010	Changjiang Scholar Chair Professor, Fudan University, Shanghai, P.R. China
07/2005-	Honored Professor, Fourth Military Medical University, Xian, P.R. China
09/04-12/04	Visiting Scientist, Dept. Neurosciences, Johns Hopkins School of Medicine, Baltimore, MD, USA
07/2004-	Visiting Professor, Harbin Medical University, Harbin, P.R. China
04/2002-	Honored Professor, Medical College, Beijing University, P.R. China
08/1999-	Honored Professor, Department of Pharmacology, Weifang Medical College, PR. China
09/97-08/05	Associated member of Research Group of Autonomic Nervous system at University of Montreal.

Teaching Experience:

2003-04	(1) Physio 336.3: Excitable Cells, Undergraduate course, Department of Physiology, University of Saskatchewan (Course coordinator, 39 hours)
	(2) Pharm 854.3: Cardiovascular Pharmacology. Graduate course, Department of Pharmacology, University of Saskatchewan (4 hours)
2002-03	(1) Physio 336.3: Excitable Cells, Undergraduate course, Department of Physiology, University of Saskatchewan (Course coordinator, 39 hours)
	(2) Physio 845.3: Patch-clamp technique and ion channels. Graduate course, Department of Physiology, University of Saskatchewan (Course coordinator, 12 hours)
2001-02	(1) Physio 336.3: Excitable Cells, Undergraduate course, Department of Physiology, University of Saskatchewan (Course coordinator, 39 hours)
2000-01	(1) Physio 336.3: Excitable Cells, Undergraduate course, Department of Physiology, University of Saskatchewan (Course coordinator, 39 hours)
	(2) Cardiovascular Pharmacology, Graduate course (4 hours), Department of Pharmacology, University of Saskatchewan
1999-00	(1) Physio 336.3: Excitable Cells, Undergraduate course, Department of Physiology, University of Saskatchewan (Course coordinator, 39 hours)

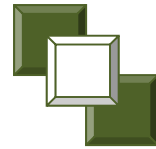


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- (2) Physio 845.3: Patch-clamp technique and ion channels. Graduate course, Department of Physiology, University of Saskatchewan (Course coordinator, 12 hours)
- (3) Cardiology: Problem-based learning section. Medical students, College of Medicine, University of Saskatchewan.
- 1998-99 (1) Cellular Basis of Physiology, Undergraduate course, Department of Physiology, University of Saskatchewan
- (2) Physiology Special Topics Course, Graduate course, Department of Physiology, University of Saskatchewan
- (3) Cardiovascular Pharmacology, Graduate course, Department of Pharmacology, University of Saskatchewan
- 1997-98 Cellular Basis of Physiology, Undergraduate course, Department of Physiology, University of Saskatchewan
- 1995 Comparative Physiology of Cardiovascular system, Summer students, Mount Desert Island Biological Laboratory, Maine, USA
- 1994-95 Cell Physiology, Graduate students, Université de Montréal
- 1989 Respiratory system, Kidney, and molecular Physiology, M.D. and nurse students, Review session and Lab teaching in University of Alberta
- 1990 Endocrinology, Neuroscience and Cardiovascular Physiology, Pharmacy and M.D. students, Review session in University of Alberta, Canada
- 1988 Endocrinology and Cardiovascular Physiology, Physical Education and Pharmacy students, Teaching assistant in University of Alberta, Canada
- 1985-1986 Pathophysiology, M.D. students, Lecturer in F.M. Medical University, China

Honours and Awards:

- 2010 **Fellow, The Canadian Academy of Health Sciences (FCAHS)**, elected
- 2009 Senior Fellow of the American Asthma Foundation
- 2008 **Pfizer Senior Scientist Award**, Canadian Society of Pharmacology and Therapeutics
- 2007 **Innovation Award for Creation of Molecular Medicine Research Center in Thunder Bay**. Canadian Cancer Society / Cancer Care Ontario
- 2007- Cited in [Canadian's Who's Who]
- 2005 **Fellow of American Physiological Society (F.A.P.S.)**, elected
- 2005 Cited in AcademicKeys Who's Who in Higher Education Administration (WWHEA): <http://Administration.academickeys.com>
- 2005 Cited in AcademicKeys Who's Who in Medical Sciences Education (WWMSE): <http://medicine.academickeys.com/whoswho.php>
- 2003 Merck Frosst Lecturer, University of Montreal, QC, Canada
- 2003 Nominee of "Award of Innovation", Annual Innovation Place / UST competition, University of Saskatchewan, SK, Canada
- 2002 **Fellow of American Heart Association (F.A.H.A.)**, elected
- 2002 Finalist of National Innovations Challenge, University of Toronto Innovations Foundation, Canada
- 2000-2005 **CIHR Investigator Award** (Regional Partnership Program)
- 1997 Summer **New Investigator Award**, Mount Desert Island Biological Laboratory, Maine, USA
- 1996 **Stevenson Visiting Professorship/Young Investigator Award**, Canadian Physiological Society.

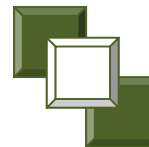


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1996	International Investigator Award, Japanese Circulation Society
12/1996	Mentions d'excellence for 1995-1996 by Faculty of Medicine, Université de Montréal, Montréal, Canada
1995 Summer	New Investigator Award , Mount Desert Island Biological Laboratory, Maine, USA
1995	Young Investigator Award , Canadian Cardiovascular Society
1994-1999	McDonald Scholar of Canadian Heart and Stroke Foundation (The highest rated scholar for 1993 competition).
1994-1997	Scholarship from Fonds de la Recherche en Sante du Québec (declined)
1994	Founding member of International Chinese Heart Health Network
1991 Summer	Grass Fellowship in Neurophysiology, Woods Hole, M.A., USA
1991-1993	Canadian MRC fellowship for post-M.D. training.
1991-1992	Fonds de la Recherche en Sante du Québec fellowship (declined)
1989-1990	The Representative of Graduate Students in the Department of Physiology, University of Alberta, Edmonton, Alberta, Canada.
1990	Ph.D. degree granted with distinction in Department of Physiology, University of Alberta, Canada
1987-1990	Studentship, Alberta Heritage Foundation for Medical Research, University of Alberta, Canada
1985-1986	Young Investigator Award in Biological Science, The Association of the Advancement of Science of Shannxi Province, P.R. China
1985	The Best Teacher Award of the Year, F.M. Medical University, Xi'an, P.R. China.

Invited Talks:

1. Nov. 13, 2013. “Discovery of hydrogen sulfide as a gasotransmitter in the cardiovascular system”. The Leonard Share Lecture, the 2013 E. Eric Muirhead Hypertension Research Day, University of Tennessee Health Science Centre, Memphis, TN, USA
2. Sept. 9, 2013. “A stinky remedy for atherosclerosis – H₂S”. 2nd European Conference on the Biology of Hydrogen Sulfide. Exeter, UK.
3. July 23, 2013. “Gasotransmitters and Hydrogen sulfide”. Aston University, Birmingham, UK.
4. July 22, 2013. “Hydrogen sulfide in the vascular system: an overview of its roles and mechanisms”. Symposium - Hydrogen sulphide in the vascular system: diverse roles and mechanisms. The International Union of Physiological Sciences (IUPS) Congress, 2013, Birmingham, UK.
5. May 28, 2013. “Discovery of hydrogen sulfide as a gasotransmitter in the cardiovascular system”. Stanford University School of Medicine, Department of Pediatrics. Palo Alto, USA
6. March 29, 2013. “Hydrogen sulfide being a gasotransmitter in cardiovascular system”. Institute for Integrative Physiology & Center for Systems Biology of O₂ Sensing, University of Chicago, Chicago, USA.
7. Dec. 4, 2012. “Rotten-egg gas and cardiovascular health – Biomedical implications of H₂S”. Plenary Lecture Seminar Series, Department of Biomedical and Molecular Sciences, Queen's University, Kingston, Canada
8. Nov. 28, 2012. “Hydrogen sulfide - A gasotransmitter in mammalian cells”. Program in Respiratory Biology & Lung Disease, Johns Hopkins University, Bloomberg School of Public Health, Baltimore, MD, USA
9. Oct. 27, 2012. “Discovery of H₂S in Biology and Medicine – we are what we smell”. State-of-the-art lecture. Toronto, Canadian Hypertension Congress.



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10. Sept. 21, 2012. “H₂S is an Endothelium-Derived Hyperpolarizing Factor (EDHF).” The 2nd International Conference on H₂S Biology and Medicine, Atlanta, GA
11. August 9, 2012. “We are what we smell – Discovery of the biological importance of H₂S”. Department of Pathology, Louisiana University Health Shreveport, Louisiana, USA
12. July 27, 2012. “Hydrogen sulfide is a critical gasotransmitter”. Nanjing Medical University, Nanjing, China
13. July 14, 2012. “H₂S Biology and Medicine”. Qiqihar Medical College, Qiqihar, China
14. July 13, 2012. “HMU Factor in H₂S study”. Harbin Medical University, Harbin, China
15. July 9, 2012. “Mitochondrial metabolism and function of hydrogen sulfide”. Fudan University, Shanghai medical College, Shanghai, China
16. June 15, 2012. “Where, how, and what – H₂S production and function” Plenary Lecture, First European Conference on the Biology of Hydrogen Sulfide, Smolenice Castle, Slovakia
17. May 30, 2012. “Hydrogen sulfide and mitochondrial energy metabolism”. Key-note speaker, 7th International Congress on Heme Oxygenases and Related Enzymes. Edinburgh, UK.
18. May 22, 2012. “We are what we smell”. Café Scientifique, CIHR/TBRI, Thunder Bay Regional Health Science Centre, Thunder Bay, Ontario
19. May 17, 2012. “A H₂S-related susceptible window for asthma development”. American Asthma Foundation Annual Meeting. San Francisco, CA.
20. April 5, 2012. “We are what we smell – Discovery of hydrogen sulfide as a gasotransmitter”. Robarts Research Institute, London, Ontario, Canada
21. March 8, 2012. “Traditional and modern agenda of University – education, research, innovation, and economic development”. Leadership Thunder Bay Program, Ontario, Canada
22. Nov. 20, 2011. “The Search for an endothelium-derived hyperpolarizing factor - from NO to H₂S”. Plenary Session of “Cross talk between NO and H₂S signaling”. SFRBM 201 - 18th Annual Meeting, Atlanta, Georgia, USA.
23. Sept. 15, 2011. “Hydrogen sulfide physiology and pathophysiology”. The Children Hospital of Zhenjiang Province, Zhejiang University, Hangzhou, China
24. Sept. 12, 2011. “Beyond and beneath – the interaction of hydrogen sulfide and endothelium”. Fudan University Shanghai Medical School, Shanghai, China
25. May 12, 2011. “Altered metabolism of H₂S in the lung”. American Asthma Foundation Annual Research Meeting, InterContinental Mark Hopkins Hotel, San Francisco, USA
26. April 12, 2011. “Hydrogen sulfide and asthma” in Symposium - “Emerging cardiorespiratory roles for gasotransmitters”. Experimental Biology Conference 2011. Washington DC Convention Center. USA
27. Nov. 16, 2010. “A rewarding and not-so-smelly journey – discovery of physiological importance of hydrogen sulfide”. University of Minnesota at Duluth, Duluth, USA.
28. Oct. 13, 2010. “Hydrogen sulfide: a smelly EDRF”. High Blood Pressure Research 2010 Scientific Sessions, “New Paradigms in hypertension research”. Omni Shoreham Hotel, Washington, DC, USA
29. Oct. 1, 2010. “A smell of life – Hydrogen sulfide in medicine”. China-Canada Joint Health Research Initiative (CCJHRI) Scientific Workshop, Ottawa, Canada
30. June 24, 2010. “Beyond Its Toxic Profile ... Why We Cannot Live Without Hydrogen Sulphide” Session - “Hydrogen Sulphide Health Research and Risk Assessment – Ten Years Later”. Air and Waste Management Association (A&WMA), 103rd Annual Conference & Exhibition (ACE), the Telus Convention Centre in Calgary, Alberta, Canada
31. May 27, 2010. “Role of Hydrogen Sulfide in Angiogenesis and Atherosclerosis” International Symposium on Nitric Oxide and Other Gaseous Neurotransmitters. MaRS Centre Auditorium. Toronto, Canada.



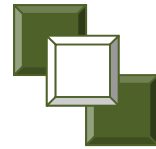
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32. May 25, 2010. “Hydrogen Sulfide and vascular endothelium integrity” Department of Anaesthesia, Harvard Medical School, MA, USA
33. April 28, 2010. “H₂S is a new endothelium-derived relaxing factor (EDRF)”. Department of Pharmacology and Therapeutics, Queen’s University, Kingston, Canada
34. April 8, 2010. “To die or to live – Discovery of the biological importance of H₂S”. Department of Pharmacy, University of Patras, Patras, Greece
35. March 24, 2010. “H₂S is a new EDRF”. Fudan University Shanghai Medical College, Shanghai, China
36. March 22, 2010. “The smell of life – H₂S and beyond”. Master Forum Lecture, The 2nd Military Medical University, Shanghai, China
37. March 4, 2010. “Creating the future today – Challenge and opportunity for post-secondary education”. Leadership Thunder Bay Program, Ontario, Canada
38. Nov. 19, 2009. “Searching for a missing EDRF – H₂S in cardiovascular system”. Yale University School of medicine. New Haven, CT, USA
39. Nov. 17, 2009. “Hydrogen sulfide and hypertension”. Symposium CVS.413. Emerging Role of Hydrogen Sulfide in Cardiovascular Disease. American Heart Association Scientific Sessions, 2009. Orlando, FL, USA
40. Oct. 16, 2009. “To live or to die – H₂S does the both”. International Forum on Biomedicine and Biotechnology & Development Opportunities and Challenges in the Western Region of China, Chongqing, China.
41. Oct. 13, 2009. “EDRF: from NO to H₂S”. Shanghai Medical College, Fudan University, Shanghai, China
42. July 31, 2009. “It is a smelly EDRF: Hydrogen sulfide in circulation”. Symposium – Microvascular systems and metabolism. The 36th Congress of the International Union of Physiological Sciences. Kyoto, Japan.
43. July 15, 2009. “H₂S – a novel gasotransmitter”. The Second Military Medical University (SMMU), Shanghai, China
44. July 9, 2009. “H₂S in life science”. College of Life Sciences and Technology, Shanxi University, Taiyuan, China
45. July 6, 2009. “Healthier, Happier, and Smatter – what does H₂S really mean” Shanxi Medical University, Taiyuan, China
46. June 27, 2009. “The cause of Life extinction or a lifesaver - the tale of H₂S”. Plenary Lecture. The first international conference on H₂S in biology and medicine. Shanghai, China
47. June 1, 2009. “To live or to die – discovery of hydrogen sulfide”. Canadian Society of Pharmacology and Therapeutics Annual Meeting, Saskatoon,
48. May 14, 2009. “The engine for the region – the impact of research and innovation at Lakehead University on Northwest Ontario”. Leadership Thunder Bay Program, Ontario, Canada
49. March 13, 2008. “Let’s start the debate – H₂S is an EDHF”. Department of Anesthesiology, McMaster University, Hamilton, Ontario, Canada
50. March 12, 2008. “To die or to live – hydrogen sulfide does the both”. St. Joseph’s Health Care, McMaster University, Hamilton, Ontario, Canada
51. Oct. 20, 2008. “Hydrogen Sulfide and Pancreatic Function”. Symposium 06: Signalling with gas: gasotransmitters in perspective. Beijing Joint Conference of Physiology Sciences 2008, Beijing, China, Oct. 19-22, 2008
52. July 28, 2008. “Gasotransmitter in an inner space.” University of Sherbrooke, Sherbrooke, Quebec, Canada
53. June 27, 2008. “Carbon monoxide, heme, and hypertension”. SuZhou University, SuZhou, China



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54. June 24, 2008. “Life starts with sulfide – H₂S in our body”. Shanghai JiaoTong University, Shanghai, China
55. June 21, 2008. “Signalling with Gas: Hydrogen sulfide and cardiovascular function.” Ning Bo University, Medical School, Ning Bo, China
56. June 19, 2008. “Trends and paths for graduate study and research”, Fudan University, Shanghai, China.
57. June 12, 2008. “Hydrogen sulfide and the regulation of cardiovascular functions.” The 3rd China-Russia International Symposium on Pharmacology. Harbin, China.
58. May 30, 2008. “The myth and truth about CIHR grant application.” University of Ontario Institute of Technology, Ont. Canada
59. May 13, 2008. “University’s tomorrow, City’s future”. Rotary Club, Thunder Bay, Ont., Canada
60. Jan. 11, 2008. “Beyond the seven year itch: H₂S moves on”. Fudan University, Shanghai, P.R China
61. Sept. 6, 2007. “Inhibition of vascular smooth muscle cell proliferation by chronic hemin incubation”. 5th International Congress on Heme Oxygenase, Krakow, Poland
62. August 16, 2007. “H₂S and regulation of vascular functions.” 8th World Congress for Microcirculation, Gas Biology Symposium, Milwaukee, USA.
63. July 20, 2007. “Tomorrow’s University Today”. Fudan University, Shanghai, China
64. July 3, 2007. “An unfinished story of chicken blood therapy – hemin and hypertension”. Fudan University, Shanghai, China
65. January 23, 2007. “How does CIHR steal Christmas?” Brock University, Ontario, Canada
66. November 3, 2006. “Physiology of Gasotransmitters: NO, CO, and H₂S” National Institute of Biological Sciences, Beijing, China
67. November 4, 2006. “Gasotransmitters in perspective”. 80th Anniversary Congress of Chinese Association of Physiology Sciences. Beijing, China
68. October 8, 2006. “We are what we smell—H₂S in vascular system”. Symposium of “Passing Gas: The vascular biology of NO, CO and H₂S”. Comparative Physiology 2006: integrating diversity. Virginia Beach, Virginia, USA
69. August 6, 2006. “Past, present, and future of gasotransmitter study - NO, CO, and H₂S”. International Forum of Biomedicine and Biotechnology, Hong Kong – 2006.
70. July 4, 2006. “Molecular and cellular targets of endogenous hydrogen sulfide and prospects for the future”. Symposium of “Pharmacology of Gaseous mediators”. The 15th World Congress of Pharmacology (IUPHA-2006). Beijing, China.
71. April 2, 2006. “H₂S and regulation of blood circulation”. Featured Topic on “Inorganic Signaling Molecules in Vascular Regulation, Air Pollutants or Intracellular Messengers” Experimental Biology-06. San Francisco, USA
72. April 2, 2006. “H₂S and mammalian cardiovascular functions”. Featured topic on “Functions of Gasotransmitters in the Cardiovascular System” Experimental Biology-06. San Francisco, USA
73. March 24, 2006. “Insulin release, diabetes, and endogenous hydrogen sulfide” Faculty of Pharmaceutical Sciences. University of British Columbia, Vancouver, BC, Canada
74. February 17, 2006. “Sustained anti-hypertensive effect of a novel hemin protocol”. Department of Cardiovascular Disease, Boehringer Ingelheim Pharmaceuticals, Inc., Danbury, CT, USA.
75. December 1, 2005. “Innovative and practical applications of hydrogen sulfide research” Ikaria Inc., Seattle, USA
76. November 7, 2005. “Sour but dear: Pharmacology of Hydrogen Sulfide”. National University of Singapore, Singapore
77. Oct. 3, 2005 “Cardiovascular effects of endogenous hydrogen sulfide and the underlying mechanisms”. University of Manitoba, Winnipeg, Canada



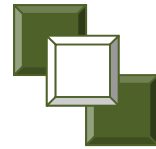
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78. July 13, 2005. “Upregulation of heme oxygenase by chronic hemin administration in established hypertension”. Fourth Military Medical University, Xian, China
79. July 9, 2005. “Prevention and treatment of hypertension in experimental hypertension animals with a hemin protocol”. Beijing Institute of Technology, Beijing, China
80. July 6, 2005. “The role of HO/CO pathway in pathogenesis and treatment of hypertension.” General Hospital of People’s Liberation Army of China, Beijing, China
81. Jan. 23, 2005. “H₂S as a novel gasotransmitter: its endogenous production and cellular target”. 38th Winter conference on Brain Research, Breckridge, Colorado, USA
82. Nov. 19, 2004. “Gasotransmitters in cardiovascular system: H₂S physiology.” University of Maryland at Baltimore, Baltimore, MD, USA
83. Oct. 20, 2004. “Vasorelaxant effects of hydrogen sulfide and the underlying mechanisms.” University of Notre Dame, South Bend, IN, USA
84. July 12, 2004. “The relationship between individual career development and the success of an interdisciplinary research team”. Harbin Medical University, Harbin, P.R. China
85. June 30, 2004. “H₂S is the third gasotransmitter.” Keio University, Medical Society/Dept of Biochemistry, Tokyo, Japan
86. April, 2004. “HO/CO system and ion channel regulation in vascular smooth muscle cells.” Symposium of “HO/CO and hypertension”, Experimental Biology 2004, Washington DC. USA.
87. Nov. 14, 2003. “From CO to H₂S – novel approach to cardiovascular physiology.” Department of Physiology, University of Montreal, Montreal, QC, Canada
88. Sept. 29, 2003. “Modulation of K_{ATP} channels by hydrogen sulfide.” Heme Oxygenase – Regulation, Functions, and Clinical applications. Uppsala, Sweden
89. April 4, 2003. “Smokeless tobacco, nicotine, and dental health”. College of Dentistry, University of Saskatchewan, Saskatoon, SK, Canada
90. March 15, 2003. “Molecular mechanisms underlying the effects of CO and NO on K_{Ca} channels”. Department of Physiology, University of Tennessee, Memphis, TN, USA
91. Feb. 25, 2003. “Application of mushroom extracts in prevention and treatment of hypertension.” Complementary and Alternative medicine, Interdisciplinary Seminar Series, College of Medicine, University of Saskatchewan, Saskatoon, SK, Canada
92. Dec/2002. “Evolution of gasotransmitter concept and application.” Department of Applied Biology and Chemical Technology, Hong Kong Polytechnic University, Hong Kong
93. Dec/2002. “Roles of carbon monoxide in cardiovascular health.” Department of Pathology, University of Saskatchewan, SK, Canada
94. Nov/2002. “K channel modulation by carbon monoxide in vascular smooth muscle cells.” Department of Physiology, University of Alberta, Edmonton, AB, Canada
95. Nov/2002. “Development of Saskatchewan herb and plant extracts for cardiovascular diseases”. Department of Physiology, University of Saskatchewan, SK, Canada
96. Jun/2002. “Discovery of hydrogen sulfide as an endogenous gaseous vasorelaxant.” Department of Clinical Pharmacology, University of Florence, Florence, Italy
97. May/2002. “Everyone needs a dosage of sour gas – Hydrogen sulfide in cardiovascular system.” Department of Pharmacology, New York Medical College, Valhalla, NY, USA
98. May/2002. “Oxidative stress and gaseous molecules of gas.” 3rd Conference of Oxidative stress Consortium of Canada, Saskatoon, Canada
99. Apr/2002. “Development of a novel herb product for erectile dysfunction”. Saskatchewan Nutraceutical Network Research Day, Saskatoon, SK
100. Jan/2002. “Hydrogen sulfide in cardiovascular system.” Department of Physiology, University of Manitoba, Winnipeg, Canada



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101. Nov/2001. "Hemin treatment of hypertension in SHR." Department of Microbiology and Immunology, University of Saskatchewan
102. Sept/2001. "Nutritional and natural health products developed from Saskatchewan resource." Plant Biology Institute of NRC, Saskatoon, Canada
103. Jun/2001. "Advances and future directions in hypertension treatment." Frontiers in Hypertension Research-2001, Weifang, P.R. China
104. Apr/2001. "BioNatCom – A Saskatchewan perspective." Saskatchewan Nutraceutical Network Research Day, Saskatoon, SK
105. Jan/2001. "Mushroom usage in prevention and treatment of cardiovascular diseases." Jilin Agriculture University, P.R. China
106. Aug/1999. "Vasorelaxant effect of carbon monoxide and the underlying mechanisms." Department of Applied Biology, Hong Kong Polytechnic University, Hong Kong
107. Jul/1999. "A silent killer or an important vasorelaxant – Carbon monoxide in vascular tissues." Institute of Eye Research, Shandong Academy of Medical Research, QingDao, P.R. China
108. Jul/1999. "Ionic channels in vascular smooth muscle cells." Department of Pharmacology, Weifang Medical College, Weifang, P.R. China
109. Jul/1999. "Carbon monoxide and K channel regulation." Institute of Basic Medical Sciences, Chinese Academy of Medical Sciences, Beijing, P.R. China
110. Jan/1999. "Novel function of ceruloplasmin – ion channel modulation." Department of Biochemistry, University of Saskatchewan, Canada
111. Jun/1998. "Copper proteins and their physiological functions in neuronal system." Department of Biochemical Sciences, "A. Rossi Fanelli", University of Rome "La Sapienza", Italy
112. Apr/1997. "Endogenous production and function of carbon monoxide in cardiovascular system." Department of Physiology, East Carolina University, Greenville, NC, USA
113. Mar/1997. "Physiology and pharmacology of carbon monoxide." Department of Physiology, University of Saskatchewan, Saskatoon, Canada
114. Nov/1996. "Vasorelaxant effects of carbon monoxide and the underlying mechanisms." Department of Physiology, University of South Florida, Tampa, USA
115. Sept/1996. "Ion channel regulation in vascular smooth muscle cells by endogenous substances." Department of Physiology, Queen's University, Kingston, Ont, Canada
116. June/1996. "Copper proteins, oxidative stress, and ion channels." Biochromatography and Functional Polymers Workshop, European Society for Biochromatograph, Montréal, Canada
117. April/1996. "Transcellular currents in snail neurons detected by vibrating probes." School of Life Science & Engineering, Tsinghua University, Beijing, P.R. China
118. April/1996. "Carbon monoxide – a novel physiological modulator of vascular contractility." Institute of Materia Medica, Chinese Academy of Medical Sciences, Beijing, P.R. China
119. March/1996. "Vasorelaxation induced by carbon monoxide." 60th annual meeting of Japanese Circulation Society, Osaka, Japan
120. January/1996. "Resurgence of carbon monoxide as an endogenous vasorelaxant." Annual winter meeting of Canadian Physiological Society, Lake Louis, Alberta
121. October /95. "Structure and functional relationship of neuronal K channels – the involvement of ceruloplasmin." Department of Chemistry, Université du Québec à Montréal
122. October/95. "Carbon monoxide and regulation of vascular contractility." 48th Annual meeting of Canadian Cardiovascular Society, Toronto
123. Sept. /95. "Signaling transduction in vascular smooth muscle cells." Club de Recherches Cliniques du Québec, Bromont, Québec
124. Aug/95 "Heavy metal and ion channel regulation in heart." Toxicology Research Centre in MDIBL, Maine, USA



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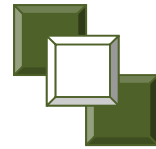
125. Jan/95. “Regulation of ion channels and intracellular calcium by carbon monoxide.” Clinical Research Institution of Montréal, Montréal, Canada
126. Feb. /94. “Calcium homeostasis in vascular endothelial cells in hypertension”. International Chinese Heart Health Network Symposium, Vancouver, Canada
127. Feb. /94. “Signaling pathways and calcium regulation in vascular smooth muscle cells from SHR.” Groupe de recherche du transport membranaire, Université de Montréal, Montréal, Canada
128. May/93. “Abnormal calcium homeostasis in vascular smooth muscle cells in SHR.” The third China-Japan Joint meeting of Pharmacology, Beijing, P.R.China
129. November/92. “Ion channel regulation by parathyroid hormone”. Weifang Medical College, Weifang, P.R. China
130. August/92. “Neuronal role of parathyroid hormone.” Département de Physiologie, Université de Montréal, Québec, Canada
131. June/92. “Modulation of different types of calcium channels by parathyroid hormone.” Department of Anatomy, Queen's University, Ontario, Canada

Editorship:

- | | |
|-----------|--|
| 2009-10 | Guest Editor, Expert Review of Clinical Pharmacology, for the Mini-Focus Issue on "Pharmacology of Hydrogen Sulfide" |
| 2009 | Guest Editor, Antioxidant and Redox Signaling (ARS), for 2 Forum Issues on Hydrogen sulfide in Biology and Medicine |
| 2006-10 | Member of Editorial Board, American Journal of Physiology – Heart and Circulatory Physiology |
| 2006- | Member of International Advisory Board of Acta Physiologica Sinica |
| 2002-2004 | Associate Editor of Canadian Journal of Physiology and Pharmacology |

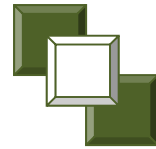
***ad hoc* Reviewer of Journals:**

Acta Pharmacologica Sinica
American Journal of Hypertension
American Journal of Physiology
American Journal of Respiratory Cell and Molecular Biology
Amino Acids
Analytical Biochemistry
Antioxidants and Redox Signaling
Apoptosis
Arteriosclerosis, Thrombosis, and Vascular Biology
Atherosclerosis
Biochemical Pharmacology
Biochemistry and Cell Biology
Biochimica Biophysica Acta
Biological Bulletin
Bioorganic & Medicinal Chemistry
British Journal of Pharmacology
Canadian Journal of Cardiology
Canadian Journal of Physiology and Pharmacology
Carcinogenesis



Curriculum Vitae Addendum

Cardiovascular Research
Cell Biology and Toxicology
Cell Biology International
Cellular and Molecular Biology
Cellular Physiology and Biochemistry
The Chinese Journal of Physiology
Circulation
Circulation Research
Clinical Sciences
Critical Care
Digestive Diseases and Sciences
Experimental Gerontology
Experimental Physiology
FASEB Journal
Free Radical Research
Heart and Vessels
Hypertension
International Journal of Cardiology
International Journal of Vascular Medicine
Intensive Care Medicine
Journal of Anatomy
Journal of Cardiovascular Pharmacology
Journal of Cellular and Molecular Medicine
Journal of Cellular Physiology
Journal of Electroanalytical Chemistry
Journal of Clinical Investigation
Journal of General Physiology
Journal of Hepatology
Journal of Histochemistry and Cytochemistry
Journal of Neurochemistry
Journal of Neuroscience
Journal of Nutritional Chemistry
Journal of Pharmacology and Experimental Therapeutics
Journal of Sexual Medicine
Journal of Vascular Research
Journal of Physiology
Kidney International
Laboratory Investigation
Life Sciences
Lipids in Health and Disease
Medical Hypotheses
Medical Science Monitor
Medicinal Research Review
Molecular and Cellular Biochemistry
Molecular and Cellular Biology
Molecular and Cellular Endocrinology
Molecular Pharmacology
Nature



Curriculum Vitae Addendum

Nature Reviews Drug Discovery
Naunyn-Schmiedeberg Archives of Pharmacology
Nephrology Dialysis Transplantation
Neurochemistry International
Neuroscience
Neuroscience Letters
Neurosurgery
Pediatric Research
Peptides
Pharmacological Reports
PLoS ONE
Proceedings of National Academy of Sciences
Progress in Neurobiology
Pulmonary Pharmacology and Therapeutics
Reviews in Analytical Chemistry
Science
Science in China
Science Signal
Toxicological Sciences
Trends in Biochemical Sciences
Trends in Pharmacological Sciences

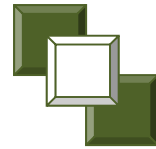
Reviewer for Book Proposal submitted to CRC Press (2006)
Reviewer for Book Proposal submitted Oxford University Press (2011, 2012)

Funding Agency Activities

Member of Ontario Research Review and Recommendations Advisory Group, Heart and Stroke Foundation of Ontario (2012)
Member of the Institute Advisory Board (IAB) of the CIHR's Institute of Circulatory and Respiratory Health (ICRH). 09/2007-01/2011
Chair of Research Program Committee for Ontario Living Legacy Trust Foundation, 2005-2013

Member of CIHR Meetings, Planning and Dissemination (MPD) Committee, 2008-2010
Member of SEP (Special Emphasis Panel) of NIH, USA, 2007
Member of Cardiovascular system–C Grant-Review Committee, CIHR. 2004 - 2007
Member of Review Panel for Early Researcher Award, Ministry of Research and Innovation, Ontario Government, 2006 - 2008

Invited member of Pharmaceutical Sciences Grant-Review Committee, CIHR. March – Sept., 2003
Member of Senior Scholarship Award Committee, Alberta Heritage Foundation for Medical Research, Alberta, Canada (2002-2005)
Member of Canadian Hypertension Society (now renamed as Hypertension Canada) Doctoral Awards review committee (2003)
Member of Scientific Review Committee (IVa), Heart & Stroke Foundation of Canada (2000-2003)
Member of Medical Advisory Committee of Heart & Stroke Foundation of Saskatchewan (2001-2004)



Curriculum Vitae Addendum

Member of the Junior Personnel Award Committee, Heart & Stroke Foundation of Canada (1997-2000)

External Referee for FCT, I.P. - Fundação para a Ciência e Tecnologia, Portugal (2012)

Stage 1 reviewer for NIH Challenge Grants in Health and Science Research (2009)

External Referee for Changjiang Scholar Program, Ministry of Education, P.R. China (2013, 2012, 2009, 2008)

External Referee for Medical Research Council (MRC), UK, (2011)

External Referee for French National Research Agency (ANR) (2011)

External Referee for The National Medical Research Council (NMRC), Singapore (2011, 2008, 2006)

External Referee for National Science Foundation (NSF), USA (2010)

External Referee for Dutch Kidney Foundation (DKF), Netherland (2010)

External Referee for College of Medicine, Hong Kong Chinese University (2010,2008)

External Referee for the Leverhulme Trust, London, UK (2010)

External Referee for Cottrell College Science Award, Research Corporation for Science Advancement, USA (2010)

External Referee for The Wellcome Trust, UK (2010,2007, 2006)

External Referee for Science Foundation Ireland (2009)

External Referee for the Physician’s Services Incorporated Foundation (PSIF), Resident Research Program, Canada (2009)

External Referee for the Austrian Science Fund (2008)

External Referee for Manitoba Medical Service Foundation, Canada (2008)

External Referee for Natural Sciences and Engineering Research Council of Canada (NSERC) (2007)

External Referee for Arthritis Research Campaign (ARC), UK (2007)

External Referee for ACADEMIC RESEARCH FUND of National University of Singapore (2006, 2007)

External Referee for Shangdong Province Natural Sciences Research Foundation, China (2006)

External Referee for Neurological Foundation of New Zealand (2005)

External Referee for the Philip Morris External Research Program (2004, 2005);

External referee for Grant-in-Aid review committee, Heart & Stroke Foundation of Canada (1996-2001; 2005-2006);

External referee for Grant-in-Aid review committee, CIHR / MRC of Canada (1997-2003);

External referee for Grant-in-Aid review committee, Canadian Diabetes Association (2003, 2001)

External referee for Operating grant application for Manitoba Health Research Council, Canada (2003)

External referee for Research Grants Council (RGC) of Hong Kong (1999-2002)

External referee for Canadian Foundation for Innovation (2001)

External referee for Scholarship review committee, Alberta Heritage Foundation for Medical Research (2001)

External referee for Grant-in-Aid review committee, Ontario Thoracic Society (2001)

External referee for Fellowship Review Committee, Fonds de la Recherche en Sante du Québec (1996);

Member for Comité Multifacultaire d'éthique des Sciences de la Santé, Université de Montréal (1996);

Member for Fundraising Campaign for Université de Montréal (1996).

University Administration Activities

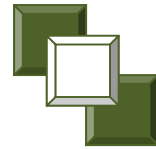
Chair of Canada Research Chair Selection Committee, Lakehead University (2004-date)

Chair of Biorefining Research Chair Selection Committee, Lakehead University (2007-date)

Chair of Lakehead University’s Internal Research Chair Selection Committee, (2007-date)

Chair of Interdisciplinary Research Program Selection Committee, Lakehead University (2004-date)

Chair of Strategic Research Plan Drafting Committee, Lakehead University (2005-2006)



Curriculum Vitae Addendum

Member of the Selection Committee for VP Academic and Provost, Lakehead University (2011)

Member of Administration Executive Committee / Priority Planning Group, Lakehead University (2004-)

Member of Space Allocation Committee, Lakehead University (2004-)

Member of University Senate, Lakehead University (2004-)

Member of Senate Academic Committee, Lakehead University (2004-)

Member of Senate Research Committee, Lakehead University (2004-)

Member of Senate Library Committee. Lakehead University (2004-)

Member of University Council, University of Saskatchewan (2002-2004)

Member of CFI Advisory Committee, University of Saskatchewan (2004)

Member of Budget Committee, and the chair of several sub-committees of this Committee, of University of Saskatchewan, (2001-2004)

Member of the Executive Committee of College of Graduate Studies and Research, University of Saskatchewan (2003-2004)

Member of the Ph.D. Committee of College of Graduate Studies and Research, University of Saskatchewan (2003-2004)

Member of the Budget Planning and Priorities Committee of College of Medicine, University of Saskatchewan (2003-2004)

Member of College of Graduate Studies and Researches Council, University of Saskatchewan (2001-2004)

Member of College of Medicine Faculty Council, University of Saskatchewan (2000-2004)

Chairman of Parking Committee of Faculty Association, University of Saskatchewan (2001-2003)

Member of Joint Parking and Traffic Committee of University of Saskatchewan (2001-2003)

Member of Dean's Review Committee, College of Medicine, University of Saskatchewan, (2000-2003)

Member of Selection Committee for Associate Dean of College of Medicine (2001-2002)

Member of Accreditation Committee of College of Medicine, University of Saskatchewan, (2001)

Member, and Chair of sub-committee, of Academic Programming Committee, College of Arts and Sciences, University of Saskatchewan, (1999-2002)

Member of Employment Equality Committee, College of Medicine, University of Saskatchewan, (1998-2000)

Member of Dean's Standing Committee of Research, College of Medicine, University of Saskatchewan, (2000-2002)

Member of Undergraduate Affair Committee of Department of Physiology, College of Medicine, University of Saskatchewan. (1997-2001)

Public & Community Contributions

Member of Ontario Council of University Research (OCUR) (2004-date)

Member of the Policy Institute for Northern Development, Thunder Bay (2009-2012)

Member of the Board of Directors for Ontario Health Research Alliance (OHRA) (2006-2009)

Member of the Board of Directors for SHARCNET (Shared Hierarchical Academic Research Computing Network, Ontario) (2006-date)

Member of the Board of Directors for Northwest Ontario Innovation Centre, Thunder Bay (2006-date)

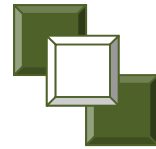
Member of the Board of Directors for Thunder Bay Regional Research Institute (TBRRI) (2011-2012)

Corporate Member of the Board of Thunder Bay Regional Research Institute (TBRRI) (2008-date)

Member of the Science and Research Committee, Board of TBRRI (2009-date)

Member of the Executive Committee of Molecular Medicine Research Centre, TBRRI (2007-2008).

Member of Mayor's Health Sector Task Force, City of the Thunder Bay (2005-2007)



Curriculum Vitae Addendum

Past President, Canadian Physiology Society (2010-12)
President, Canadian Physiology Society (2008-2010)
Vice-President, Canadian Physiology Society (2005-2007)
Councilor of Canadian Physiology Society (2002-2004)

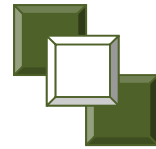
Chair, International Assessment Panel for the School of Pharmacy, Fudan University, Shanghai, China (December 10-12, 2009)
Member of International Advisory Committee for Cardiovascular Biology Program at National University of Singapore, Singapore (2005-2007)

Evaluation of the College of Basic Medicine, Shanghai JiaoTong University School of Medicine, China (March 2013)
Evaluation for promotion to Full adjunct professor for Department of Medicine, University of California at San Francisco, USA, 2012
Evaluation for tenure and promotion to Associate professor for Veterinary Biomedical Sciences, Western College of Veterinary Medicine, University of Saskatchewan, Canada, 2010
Evaluation for promotion to Full Professor for Dept. Laboratory Medicine and Pathobiology, University of Toronto, Ontario, Canada, 2006
Evaluation for reappointment to Associate Professor for Dept. Pediatrics, Yale University School of Medicine, New Haven, CT, USA, 2006
Evaluation for promotion to Full Professor for Dept. Physiology, University of Tennessee, Memphis, TN, USA, 2006
Evaluation for promotion to Associate Professor for Dept. Medicine, University of Toronto, Ont, Canada, 2005
Evaluation for promotion to Full Professor for Dept. Physiology, University of Alberta, AB, Canada, 2002
Evaluation for promotion to Full Professor for Dept. Chemistry and Applied biochemistry, Hong Kong Polytechnique University, Hong Kong, 2003, 2005
Interviewer of Medical Student Admission, College of Medicine, University of Saskatchewan, Canada, 2003
Captain of “Big Bike”, Fundraising activity for Heart and Stroke Foundation of Saskatchewan (2002, 2004)
Judge of Regional Science Fair of Saskatoon, Saskatchewan (2001, 2002, 2004)

Scientific Director, BioNatCom Tech. Inc., Saskatoon, SK, Canada (2003-2007)
Consultant, Ikaria Inc., Seattle, USA (2005-2006)

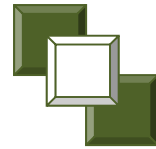
Operating Grants Awarded: (I am the principal investigator of all the following research grants unless otherwise indicated.)

- | | |
|-----------|---|
| 2013-2016 | Heart and Stroke Foundation of Canada. “Regulation of aldolase B expression and scavenging methylglyoxal in vascular smooth muscle cells.” \$415,038. (Note: Dr. L. Wu is the PI and I am the Co-PI on this grant). |
| 2012-2017 | Canadian Institutes of Health Research (CIHR). “Hydrogen sulfide and atherosclerosis” \$583,625 (MOP-119565) |
| 2012-2017 | Natural Sciences and Engineering Research Council of Canada (NSERC). “Regulation of mitochondrial function by hydrogen sulfide”. \$235,000 |
| 2009-2012 | Strategic Program of Asthma Research, American Asthma Foundation. “Altered metabolism of H ₂ S in the lung: a novel biomarker and therapeutic avenue for asthma” \$750,000 (USA) |
| 2009-2012 | CIHR. “Regulation of cystathionine gamma-lyase expression in vascular smooth muscle cells” \$330,648 (MOP – 192509). (Note: Dr. G. Yang is the PI and I am the Co-PI on this grant) |



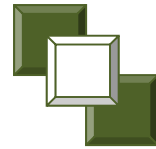
Curriculum Vitae Addendum

2008-2013	CIHR. "CSE deficiency-related hypertension development" \$689,373 (MOP – 86708)
2010-2011	NSERC. "Mitochondrial production and function of hydrogen sulfide". \$33,000.
2009-2010	Canadian Diabetes Association. "Hydrogen sulfide and pancreatic insulin metabolism." \$79,225
2008-2011	Heart and Stroke Foundation. "CSE deficiency-related hypertension development" \$239,220 (declined)
2007	FedNor. Equipment grant for my cardiovascular lab. \$79,000
2005-2010	Canadian Institutes of Health Research (CIHR). "Molecular mechanisms for the H ₂ S-induced modulation of K _{ATP} channels" \$425,625, MOP 74715
2005-2006	CIHR. Equipment grant. \$141,387.
2005-2008	Heart and Stroke Foundation. "Protective role of hydrogen sulfide in atherosclerosis" \$180,000. (I am a co-investigator on this grant.)
2004-2006	BioNatCom Tech. Inc. "Phase II study on BuSY and ExBau". \$50,000
2004-2009	NSERC. "Hydrogen sulfide and apoptosis of vascular smooth muscle cells". \$237,500
2004-2007	Heart and Stroke Foundation. "Role of BK _{Ca} channels of vascular smooth muscle cells in the development of hypertension". \$160,000
2003-2009	CIHR / Heart & Stroke Foundation. "Gasotransmitter REsearch And Training Program" - \$1,800,000 plus \$300,000 match fund. (I am the principal applicant and Director of this program that involves 6 Canadian Universities).
2002-2007	Canadian Institutes of Health Research (CIHR). "K _{ATP} channels in vascular smooth muscle cells: Their physiological role, modulation, and molecular basis." MOP-15404, \$472,500.
2004-2006	Canadian Institutes of Health Research (CIHR)/ Regional Partnership Program. "Structural and functional modulation of K _{ATP} channels induced by H ₂ S." \$195,000
2004-2006	Saskatchewan Health Research Foundation (SHRF). Research Group Establishment Grant. \$100,000. (This grant is awarded to the Cardiovascular Research Group when I was the leader of this group).
2003-2005	Agriculture Development Fund, Agriculture, Food and Rural Revitalization of Saskatchewan. "Development of nutraceutical products from Saskatchewan wild mushroom for the prevention and treatment of hypertension" - \$123,000 in total.
2000-2004	Natural Sciences and Engineering Research Council of Canada. "The vascular effects and the underlying cellular mechanisms of hydrogen sulfide." \$174,400.
2001-2004	Heart and Stroke Foundation of Canada. "HO/CO system and sGC/cGMP pathway in the pathogenesis of hypertension". \$195,000
2004-2009	CIHR. "The vasodilator action of ghrelin and des-acyl ghrelin". \$540,000. (Note: Dr. V. Gopal is the principal investigator of this grant. I am one of the two co-applicants).
2002-2004	CIHR / Regional Partnership Program. "Endothelin and cerebral ischemia" \$174,584 (Note: Dr. Jim Thornhill is the principal investigator for this grant. I am the co-applicant.)
2003-2004	University of Saskatchewan Bridging Fund. - Structural and functional modulation of K _{ATP} channels induced by H ₂ S. \$28,500.
2003	Biological effects of 10 extracts from agriculture products. Contract with Agriculture Canada. \$21,000
2002	Canadian Institutes of Health Research (CIHR). "Gasotransmitter Research and training program" - Development fund. STR – 60408. \$9,750.
2000	Natural Sciences and Engineering Research Council of Canada. "Imaging system". Multiple user equipment grant, \$131,000.
2000-2002	Medical Research Council of Canada/regional partnership program, "Interaction of multiple gaseous factors on vascular functions". \$92,000



Curriculum Vitae Addendum

2000-2003	Smokeless Tobacco Research Council Inc. USA. "Chronic nicotine intake and the vascular functions in experimental diabetes". \$450,000
1999-2001	Health Services utilization and research commission of Saskatchewan, "Voltage-dependent K channels in mesenteric artery smooth muscle cells from spontaneously hypertensive rats. \$70,000.
2000	SETUP summer studentship supplement & NSERC studentship. \$5080, U of S
1998-2000	An inter-provincial collaboration fund between Saskatchewan and Quebec, Quebec Government, \$12,000
1999-2000	Natural Sciences and Engineering Research Council of Canada. "Interaction of carbon monoxide and nitric oxide on smooth muscle functions". \$28,530.
1999-2002	Medical Research Council of Canada, "Molecular identification of voltage-dependent delayed rectifier K channels in peripheral vascular smooth muscle cells". \$196,500
1998-1999	Lung Association of Saskatchewan, "The effect of carbon monoxide on K channels in rat pulmonary artery smooth muscle cells" \$20,000
1998-2001	Heart and Stroke Foundation of Canada. "The vascular effects of carbon monoxide and the underlying mechanisms". \$195,000
1997-2000	Smokeless Tobacco Research Council. "The triphasic vascular effects of nicotine and the underlying mechanisms". \$300,000.
1998	President's NSERC Research Fund, U of S, \$5,000
1998	SETUP summer studentship supplement. \$2080, U of S
1995-1999	Natural Sciences and Engineering Research Council of Canada. "The roles of Ca and K channels in the vascular action of carbon monoxide". \$96,000.
1997-1998	Heart and Stroke Foundation of Canada. "The vascular effects of carbon monoxide and the underlying mechanisms". \$16,000
1997 Summer	Research allowance from Mount Desert Island Biological Laboratory, Maine, \$8,000
1997	New Faculty member research grants from College of Medicine and Department of Physiology, University of Saskatchewan, \$50,000
1995 Summer	Research allowance from Mount Desert Island Biological Laboratory, USA, \$85,000.
1995 Summer	Awards for summer studentship in my laboratory from Québec diabetes Foundation and National Science Foundation for young scholar program of USA, Total: \$9,400.
1994-1997	Medical Research Council of Canada (#MT-12555) - "Effects of endothelium-derived hyperpolarizing factor (EDHF) on single smooth muscle cells cocultured with endothelial cells" \$134,756
1994-1996	Establishment Fund for young investigator from Fonds de la Recherche en Sante du Québec. \$40,000
Jul/1994	The material grant from Gelman Sciences. \$3,500.
Apr/1994	Research supplement for the McDonald award from Heart and stroke foundation of Canada. \$15,000
Jul/1993	Installation fond from Centre de Recherche, Hôpital du Sacré-Coeur de Montréal, Université de Montréal. \$15,000
Jun/1993	CAFIR from Université de Montréal. \$6,500
May/1993	Installation allocation fond from Group de Recherche sur le Systeme nerveux autonome, Université de Montréal. \$5,000
1993-1995	Juvenile Diabetes Foundation International (#193197) - "Effects of norepinephrine on calcium channels and intracellular calcium release in single vascular smooth muscle cells from experimental diabetic rats." \$110,000



Curriculum Vitae Addendum

1993-1995 Heart and Stroke Foundation of Canada - "Study on the endogenous steady transendothelial current" \$20,000
1991 Research Allowance from Grass foundation, \$7,500

Salary Support Awards

2000-2004 Scientist Award from CIHR and Regional Partnership Program, \$70,000 / year
1994-1999 McDonald Scholar Award from Heart and Stroke Foundation of Canada, \$50,000 / year
1991-1993 Post-doctoral fellowship award (Health Professional), Medical Research Council of Canada, \$38,000 / year
1987-1990 Alberta Heritage Foundation for Medical Research, Studentship Award, \$12,000 / year

(Total Career Research Funding including Salary Support: \$11,371,001)

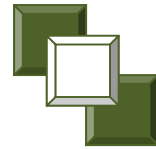
Visiting professors in my laboratory:

Summer of 1999 Dr. M-A. Mateescu, Professor, Department of Chemistry and Biochemistry, University of Quebec at Montreal, Montreal, Canada
Summer of 2000 Dr. Zouping Xie, Professor, Department of Biology, QingHua University, Beijing, P.R. China
Sept-Dec, 2001 Dr. Changqing Xu, Professor, Department of Pathophysiology, Harbin Medical University, P.R. China
January, 2004 Dr. Christophe Vandier, Lecturer, LABPART, 2 bis, Boulevard Tonnellé, University of Tours, 37032 TOURS, FRANCE
Nov, 2009- June, 2010 Dr. Yanxi Pei, Professor, College of Life Science and Technology, Shanxi University, Taiyuan, Shanxi
June-Sept, 2010 Dr. Changqing Xu, Professor, Department of Pathophysiology, Harbin Medical University, P.R. China

Graduate Students and Post-doctoral Fellows Supervised

Post-doctoral fellows:

Dr. Danesh Javeshghani	(1995)	Dr. Zunzhe Wang	(1994-1997)
Dr. Yi Zhang	(1995-1996)	Dr. Yuejin Wu	(1995-1997)
Dr. Korian Soumano	(1997)	Dr. Lixin Wang	(1997)
Dr. Chuanli Xu	(1998-99)	Dr. Guangxin. Xing	(1999-2000)
Dr. Xintao Wang	(1998)	Dr. Mireille le Jossec	(1999)
Dr. Hong He	(1999-2000)	Dr. Qingyang Wu	(1998-2001)
Dr. Weimin Zhao	(1999-2002)	Dr. Lina Wang	(2001-2002)
Dr. Yianjie Lu	(1998-2002)	Dr. Youqin Cheng	(2002-2003)
Dr. Dahai Hu	(2001-2003)	Dr. Xianfeng Sun	(2000-2004)
Dr. Jamie Pearson	(01/02-06/04)	Dr. Ya Ke	(Feb.-May, 2004)
Dr. Kun Cao	(1999-2004)	Dr. Yuan Huang	(07/02-04/05)
Dr. Joseph Fomusi Ndisang	(2000-05)	Dr. Jiansong (Maggie) Qi	(12/04-1/07)
Dr. Bo Jing	(2000-2006)	Dr. Wei Yang	(06/02-04/07)



Curriculum Vitae Addendum

Dr. Yaoge Huang	(2001-2007)	Dr. Guangdong Yang	(10/02 – 03/07)
Dr. Tuanjie Chang	(11/02-08)	Dr. Machha Ajay	(09/06 – 11/08)
Dr. Shengming Zhang	(07/07 – 06/08)	Dr. Weihua Zhang	(10/09-10/2010)
Dr. Ming Fu	(11/08-01/12)	Dr. Hongzhou Li	(11/09-11/11)
Dr. Peipei Wang	(11/09 – 12/10)	Dr. Huajian Teng	(08/09-03/12)
Dr. Genshen Zhang	(11/10 - 06/12)	Dr. Guanghua Tang	(08/10-07/12)
Dr. Qihui Cao	(Sept. 2007-)	Dr. Sarathi Mani	(Nov. 2008-)
Dr. Daniele Mancardi	(May, 2012-)	Dr. Zahra Karimi	(Jun, 2013-)
Dr. Katalin Modis	(Oct. 2013-)		

Summer Students (1995-2013):

Sergio Escobar (Montréal, Canada),	Alfred D. Doyle (Seal Harbor, USA)
Erney R. Branch (New York City, USA),	Sara-Kates-Chinoy (Bangor, USA)
Ijeoma Okonkwo (Saskatoon, SK, Canada)	Nisha Soni (Saskatoon, SK, Canada)
Domynick Maltais (Montréal, Canada)	Madelaine M. Fedorowich (Saskatoon, SK, Canada)
Tim Souters (Saskatoon, SK, Canada)	Meng Sun (Saskatoon, SK, Canada)
Kirstin Derald (Saskatoon, SK, Canada)	Ginger Beel (Saskatoon, SK, Canada)
Melissa Gieni (Saskatoon, SK, Canada)	Keyla Pierce (Thunder Bay, Ont, Canada)
Stefanie Kirk (Thunder Bay, Ont. Canada)	

Graduate Students:

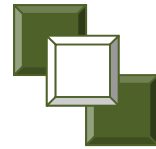
Previous:

Yiyong Liu,	1994-1996,	M.Sc.,	University of Montreal, Supervisor
Liming Zhang,	1994-1997,	Ph.D.,	University of Montreal, Supervisor
Jing Zhang	1999-2001,	M.Sc.,	University of Saskatchewan, Supervisor;
Jaesook Park	2001-2001	M.Sc.,	University of Saskatchewan, Supervisor
Lintao Qu	2003-2004	Ph.D.	University of Saskatchewan, Supervisor;
Salma Toma Hanna	1998-2004,	Ph.D.,	University of Saskatchewan, Supervisor
Guanghua Tang	1998-2004,	Ph.D.	University of Saskatchewan, Supervisor;
Robert Peterson-Wakeman	1999-2004,	M.Sc.	Uni of Saskatchewan, Supervisor.
Bill Liang	2004-2005	Ph.D.	University of Saskatchewan, Supervisor
Rany Shamloul	2004-2006,	Ph.D.	University of Saskatchewan, Supervisor
Dongqing Wu	2004-2006,	M.Sc.	University of Saskatchewan, co-supervisor
Xiaochu Wu	2005-2007,	Ph.D.	University of Saskatchewan, co-supervisor
Li Zhang	2007-2010	Ph.D.	Harbin Medical University, Supervisor
Ning Lu	2005-2010	Ph.D.	Fudan University, China, Co-supervisor
Sean Bryan	2007-2010	M.Sc.	Lakehead University, Supervisor
Ling Zhang	2007-2012	Ph.D.	Lakehead University, Supervisor
Bo Wu	2008-2012	Ph.D.	Harbin Medical University, Supervisor

Current:

Zaid Altaany	2009-	Ph.D.	Lakehead University, Supervisor
Peipei Wang	2011-	Ph.D.	Lakehead University, Supervisor
Ashley Untereiner	2011-	Ph.D.	Lakehead University, Co-supervisor

Supervisory Committees for graduate students:



Curriculum Vitae Addendum

Francesco Di Fusco,	1994-1996, M.Sc.,	University of Montreal
Anna Irwin,	1998-2000, M.Sc.	University of Saskatchewan
Andrew Vargo,	1998-, M.Sc.	University of Saskatchewan
Lane Baker,	1998, M.Sc.	University of Saskatchewan
Robert Hopfner	1999, Ph.D.	University of Saskatchewan
Azaad Baziany	2000-2001, M.Sc.	University of Saskatchewan
Micheal Roy	2001, Bachelor/MD	University of Saskatchewan
Laibaik Park	2000-2003, Ph.D.	University of Saskatchewan
Pinggan Liu	2000-2005, Ph.D.	University of Saskatchewan
Ming Zhou	2003-, PhD	University of Saskatchewan
Xiaoyu (Jade) Xu	2003-2004, M.Sc.	University of Saskatchewan
Xiaohong Liu	2003-2004, M.Sc.	University of Saskatchewan
Fangxiang Wu	2002-2004, Ph.D.	University of Saskatchewan
Blanc Star	2003-2004, M.Sc.	University of Saskatchewan
Lane Bekar	2003-2005, Ph.D.	University of Saskatchewan

External examiner for the thesis defense of graduate students:

Tsoi Ying King	1999, M. Phil.	The Hong Kong Polytechnic University
Liviu Pogan	Dec. of 2001, Ph.D.	University of Montreal, Canada
Deepa Gurusamy	June of 2002, M.Sc.,	Dept. Pharmacology, University of Saskatchewan, Canada
Ke Ya	2002, Ph.D.	The Hong Kong Polytechnic University
Fu Long	2008, PhD.	National University of Singapore
He Ming	2008, PhD.	National University of Singapore
Ryan A. Dercho	2010, PhD.	Queen’s University, Canada
Eelke Bos	2013, PhD.	University Medical Center Groningen, Netherlands

Laboratory assistant personnel:

Ginger Beel (Lab Manager)	(1997-2000)	University of Saskatchewan
Koleen Safiniuk (Lab Tech)	(2000 - 2003)	University of Saskatchewan
Kari-Lynne McGowan (Lab Tech)	(2003-2004)	University of Saskatchewan
Zoran Jakic (Lab Tech)	(2004-2005)	University of Saskatchewan
Darcy Werezak (Lab Tech)	(2003-2006)	University of Saskatchewan
Jeffery Werner (Lab Tech)	(09 – 12, 2009)	Lakehead University
William Bell (Lab Tech)	(02 – 04, 2010)	Lakehead University
Rowena Currie (Lab Tech)	(05 – 10, 2010)	Lakehead University
Sheena Wood (Lab Manager)	(04/09 –05/11)	Lakehead University
Jennifer Isotalo (Res. Coordinator)	(07/10 – 04/11)	Lakehead University
Jennifer James (Lab Technician)	(11/10-12/11)	Lakehead University
Rosanne Liciskai (Lab Manager)	(06/2011-)	Lakehead University

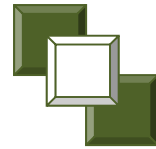
Fellowships and Studentships Awarded to my Laboratory

2013-2015	Post-doctoral fellowship awarded to Dr. Katalin Modis in my laboratory by CIHR, \$45,000/year
2013-2015	Frederick Banting and Charles Best Canada Graduate Scholarship Award to Ashley Untereiner (for whom I am the co-supervisor) by CIHR, total \$81,667.



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- 2009-2011 Post-doctoral fellowship awarded to Dr. Sarathi Mani in my laboratory by Heart and Stroke Foundation of Canada, \$40,000/year
- 2008-2010 Post-doctoral fellowship awarded to Dr. Machha Ajay in my laboratory by Heart and Stroke Foundation of Canada, \$40,000 /year
- 2008-2009 Master’s Studentship awarded to Mr. Sean Bryan in my laboratory by the Heart and Stroke Foundation of Ontario, \$18,000
- 2007-2009 Post-doctoral fellowship awarded to Dr. Machha Ajay in my laboratory by Gasotransmitter REsearch And Training (GREAT) program of CIHR/HSF, \$40,000 /year
- 2006-2009 Graduate studentship awarded to Rany Shamloul in my laboratory by the Heart and Stroke Foundation of Canada, \$20,000/year
- 2006-2008 Post-doctoral fellowship awarded to Dr. Maggie Qi in my laboratory by Gasotransmitter REsearch And Training (GREAT) program of CIHR/HSF, \$40,000 /year
- 2005-2008 Post-doctoral fellowship awarded to Dr. Guangdong Yang in my laboratory by Heart and Stroke Foundation of Canada, \$40,000 /year
- 2005-2007 Graduate studentship awarded to Bill Liang in my laboratory by Gasotransmitter REsearch And Training (GREAT) program of CIHR/HSF, \$19,000 /year
- 2005-2007 Graduate studentship awarded to Rany Shamloul in my laboratory by Gasotransmitter REsearch And Training (GREAT) program of CIHR/HSF, \$19,000 /year
- 2005-2007 Post-doctoral fellowship awarded to Dr. Wei Yang in my laboratory by Gasotransmitter REsearch And Training (GREAT) program of CIHR/HSF, \$38,000 /year
- 2004-2006 Post-doctoral fellowship awarded to Dr. Yuan Huang in my laboratory by Heart and Stroke Foundation of Canada, \$42,000/year
- 2004-2006 Post-doctoral fellowship awarded to Dr. Guangdong Yang in my laboratory by Saskatchewan Health Research Foundation (SHRF), \$40,000 /year
- 2003-2005 Post-doctoral fellowship awarded to Dr. Cao K. in my laboratory by CIHR/CHS, \$40,000 /year
- 2003-2005 Post-doctoral fellowship awarded to Dr. Ndisang J.F. in my laboratory by Heart and Stroke Foundation of Canada, \$40,000 /year
- 2002-2003 Post-doctoral fellowship awarded to Dr. Ndisang J.F. in my laboratory by Health Services and Utilization Commission of Saskatchewan (HSURC), \$35,000 /year
- 2002-2004 Post-doctoral fellowship awarded to Dr. Sun X. in my laboratory by HSURC, \$35,000 /year
- 2002-2004 Post-doctoral fellowship awarded to Dr. Pearson J. in my laboratory by HSURC, \$35,000 /year
- 2002-2004 Post-doctoral fellowship awarded to Dr. Huang Y. in my laboratory by College of Medicine, U of S, \$35,000 /year
- 2001-2003 Post-doctoral fellowship awarded to Dr. Hu D. in my laboratory by HSURC, \$35,000 /year
- 2000-2002 Post-doctoral fellowship awarded to Dr. Cao K. in my laboratory by HSURC, \$35,000 /year
- 2000-2002 Post-doctoral fellowship awarded to Dr. Ndisang J.F. in my laboratory by College of Medicine, U of S, \$35,000/year.
- 1999-2001 Post-doctoral fellowship awarded to Dr. Zhao W. in my laboratory by College of Medicine, U of S, \$35,000/year.
- 2000-2001 Post-doctoral fellowship awarded to Dr. He H. in my laboratory by HSURC, \$35,000 /year
- 2001-2002 Studentship awarded to Peterson-Wakeman R. in my laboratory by College of Medicine, U of S, \$6000 / year
- 1999-2004 Studentship awarded to Tang G. in my laboratory by Heart and Stroke Foundation of Canada, \$19,000 / year
- 2001-2003 Studentship awarded to Zhang J. in my laboratory by National Sciences and Engineering Research Council of Canada, \$19,000 / year.



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2002-2004 Studentship awarded to Hanna ST. in my laboratory by CIHR/CHS, \$19,000 / year

Professional Societies

2006-Present Canadian Society of Pharmacology and Therapeutics, full member
2004- Present American Physiological Society, full member
2001- Present American Heart Association, full member
1989- Present The Canadian Physiological Society, full member
1997- Present Canadian Hypertension Society (Hypertension Canada), full member
2001-2003 Canadian Diabetes Association, full member
1993-1996 The Juvenile Diabetes Foundation International, professional member
1994- 1996 The Society of Chinese Bioscientists in America
1989-1992 The American Biophysical Society, full member

Organization and Participation at National and International Conferences

2013-14 Member of the Organizing Committee for "The Third International Conference of H₂S in Biology and Medicine", June 4-6, 2014. Kyoto, Japan
2013 Member of the International Advisory Committee, "Second European Conference on Biology of Hydrogen Sulfide", Sep. 8-11, 2013, Exeter, UK
2013 Member of Organization and Scientific Committee for "Canada-China Symposium on Atherothrombosis, Diabetes and Obesity", July 20-21, 2013, Vancouver, BC, Canada
2011-12 Member of the Organizing Committee for "The Second International Conference of H₂S in Biology and Medicine", Sep. 20-22, 2012. Atlanta, USA
2011-12 Member of the International Advisory Committee for "The First European Conference on the Biology of Hydrogen Sulfide". June 15-18, 2012. Smolenice Castle, Slovakia
2008-09 President, International Scientific Committee for "The First International Conference of H₂S in Biology and Medicine". June 26-28, 2009. Shanghai, PR China
2008-09 Member of the Canada Bidding Committee for hosting the International Union of Physiological Sciences 38TH International Congress of Physiological Sciences (IUPS) in Toronto, Ontario (July 2017).
2009 Co-Chair – Symposium "Advances in H₂S pharmacology and therapeutics", Canadian Society of Pharmacology and Therapeutics annual meeting. May 30-June 2, 2009. Saskatoon, Canada
2008 Member of International Scientific Committee for The Beijing Joint Conference of Physiological Sciences 2008. Beijing, China, Oct. 19-22, 2008
2008 Chair, Symposium of "Signalling with Gas: Gasotransmitter in perspective. The Beijing Joint Conference of Physiological Sciences 2008. Beijing, China, Oct. 19-22, 2008
2005 Co-Chair, Symposium of "The 1st International Symposium on Geriatric Medicine - Aged Diseases and Gasotransmitter", Beijing, China. July 5-7, 2005
2003 Session Co-Chair – Heme oxygenase-regulation, functions, and clinical applications, Uppsala, Sweden, September 28-October 3, 2003
2002 Session Chair - Canadian Hypertension Society Meeting, Edmonton, AB, Canada, October 26-28, 2002
2002 Session Chair - Canadian Physiological Annual Meeting, Silver Star Resort, Vernon, BC, Canada, Jan. 21-23, 2002

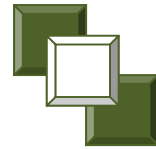


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- 2001 Chairman of the International Organization Committee for “Frontiers of Hypertension Research – 2001”, Weifang, P.R. China, June 6-9, 2001
- 2000 Chairman of the Internet World Congress 2000, Invited Symposium “Molecular basis of K channels in vascular smooth muscle cells and endothelial cells”. INABIS 2000, Feb. 14-25, 2000
- 1999 Session Chair - 1st Joint meeting of Canadian and Japanese Physiological Societies. Lake Louise, AB, Canada
- 1998 Chairman of the Internet World Congress '98, Invited Symposium “Carbon monoxide and cardiovascular function”. INABIS'98, Dec 7-16, 1998

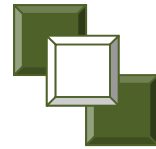
Media Coverage of my Research Activities Since 2000 (partial list)

1. “University researchers secure funding” [The Chronicle Journal], Newspaper of Thunder Bay, page A4, October 24, 2012
2. “Rotten egg set wheels in motion”. By Brigitte Petersen. [Northern Ontario Medical Journal] Volume 6, Number 1, page 17, Summer 2012
3. “Lakehead researcher says he’s staying put”. By Carl Clutchey [The Chronicle Journal], Newspaper of Thunder Bay, page A1, Feb. 9, 2012
4. “New hope for malaria drugs as sickle cell protection unraveled” By Michael Gross [Chemistry World]. May 4, 2011/ <http://www.rsc.org/chemistryworld/News/2011/May/03051102.asp>
5. “ONTARIO: FROM TOXINS TO THERAPIES - Is nitric oxide the next tool for pain management?” By Monica Heger. [Life Sciences in Ontario – supplement to The Scientist]. June, 2010 <http://www.the-scientist.com/templates/trackable/display/supplementarticle.jsp?name=ontario&id=57423>
6. “One Man’s poison...” (news feature) [Chemistry & Industry Magazine]. Nov. 23, 2009. By Emma Dorey.
7. “Asthma research gets boost – Lakehead University team receives 3-year grant”. [The Chronicle Journal], Newspaper of Thunder Bay, page A4, Oct. 9, 2009
8. TV interview re. Dr. Wang’s asthma study. TBTv, CKPR, Magic. Newscast. Oct. 6, 2009
9. “Scientists study new asthma biomarker for treatment (Drs. Wang and Ross)”, netnewsledger.com. Online. Oct. 6, 2009
10. “Scientist gets funding for asthma research (Drs Wang and Ross)”. tbnewswatch.com. Online. Oct. 6, 2009.
11. “Lakehead University Innovator and Leader”. [Your City] City of Thunder Bay Citizen Newsletter. Page 4, June & July issue, 2009
12. “Emissions control: Could hydrogen sulphide be the new nitric oxide?” News Feature, By Katharine Sanderson. Nature, Volume 459: 500-502, |28 May 2009
13. “LU researcher wins scientific award”. [The Chronicle Journal], Newspaper of Thunder Bay. May 30, 2009
14. “Hydrogen sulfide discovery”. CBC Radio Interview Broadcast, 540 AM, May 29, 2009
15. “LU, UMD researchers team up”. [The Chronicle Journal], Newspaper of Thunder Bay. Page A3, May 13, 2009.
16. “H₂S: A Not-So-Rotten Blood Pressure Regulator” Spotlight by Eva J. Gordon, ACS Chem. Biol., 3 (12), 740, 19 December 2008, <http://pubs.acs.org>.
17. ‘Bad egg’ gas may harbour blood pressure cure. Entertainment and Showbiz! - Baroda, India. Nov. 1, 2008. <http://www.entertainmentandshowbiz.com/bad-egg-gas-may-harbour-blood-pressure-cure-200811014216>



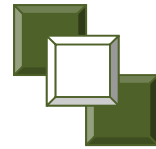
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18. “Hydrogen sulfide gas has signaling role” The Johns Hopkins News-Letter. November 13, 2008, By Ann Wang
19. “Gassing hypertension” By Brian Moy, Science-Business eXchange (SciBX) 1, 1-2 (6 November 2008) doi:10.1038/scibx.2008.965
20. “Cystathionase (cystathionine γ -lyase) (CTH)” Science-Business eXchange (SciBX) 1, 2-2 (6 November 2008) doi:10.1038/scibx.2008.969 Distillery: Therapeutics
21. “Rotten egg” gas key to lowering blood pressure”. Oct. 31, 2008. The Virtual Medical Centre - Perth, Australia. <http://www.virtualmedicalcentre.com/news.asp?artid=12750>
22. “Blood Pressure Control: It’s (Another) Gas!” [Sci. Signal.], 28 October 2008 Vol. 1, Issue 43, p. ec367 [DOI: 10.1126/scisignal.143ec367] EDITORS’ CHOICE by Paula A. Kiberstis
23. “Sulfur rich vegetables may keep hypertension at bay” by Jyoti Pal. TheMedGuru - Chandigarh, India. Published on October 28, 2008. http://www.themedguru.com/articles/sulfur_rich_vegetables_may_keep_hypertension_at_bay-86115724.html
24. “Smelly Gas Regulates High Blood Pressure – Hydrogen Sulfide Deficiency Linked To Hypertension” By Jeffrey Workman. Best Syndication News Health Writer October 27, 2008. Best Syndication - Pinon Hills, CA, USA. http://www.bestsyndication.com/?q=20081026_farts_blood_pressure.htm
25. “Rodent of the week: Rotten eggs and you”. By Rosie Mestel, Los Angeles Times, October 24, 2008. http://latimesblogs.latimes.com/booster_shots/2008/10/rodent-of-the-3.html
26. “Flatulence’s stink may be linked to lower blood pressure” Technology & Science Headlines, CBC News. CBC.ca - Toronto, Ontario, Canada. Oct. 24, 2008. <http://www.cbc.ca/technology/story/2008/10/24/gas-hypertension.html>
27. “How sewer gas can help regulate blood pressure” By Anne Mcilroy, From Friday’s [Globe and Mail], Front Page, October 24, 2008 at 1:00 AM EDT
28. “‘Bad egg’ gas controls blood flow: Without a little hydrogen sulphide to relax the muscles, blood pressure starts to rise.” By Katharine Sanderson, Nature News, Published online 23 October 2008 [Nature] doi:10.1038/news.2008.1187
29. ‘Fart gas’ link to blood pressure” [BBC NEWS] <http://news.bbc.co.uk/1/hi/health/7686911.stm>, Published: 2008/10/24 00:30:42 GMT
30. “If your systolic stinks, ‘rotten egg’ gas may be why” 23 October 2008 18:00 GMT Story from [Science Centric] News, Bulgaria, <http://www.sciencecentric.com/news/article.php?q=08102373>
31. “Hydrogen sulfide may treat high blood pressure” Oct. 23, 2008 [WebMD], Health News, By Caroline Wilbert <http://www.webmd.com/hypertension-high-blood-pressure/news/20081023/hydrogen-sulfide-for-high-blood-pressure>
32. “Nothing rotten about hydrogen sulfide’s medical promise.” [Science] *News Focus* 30 May 2008: 320; 1155-1157.
33. “Rotten Remedy - Hydrogen sulfide joins the list of the body’s friendly, if foul, gases” [Science News], Vol. 173, No. 10, p. 152-153, Week of March 8, 2008.
34. “Now You’re signaling, with gas – gasotransmitters open a window on biology and drug development” [The Scientist], 18(17):20, 2004
35. “Lakehead University doctor gets special recognition in physiology”. [The Chronicle Journal], Newspaper of Thunder Bay. Page A5, April 16, 2005
36. “Eat your sprouts”. [Time], May 10, 2004. page 70.
37. “CIHR grants awarded”. [On Campus News], U of Saskatchewan weekly newspaper. Volume 11 (13), page 7, March 5, 2004
38. “Sask. Heart & Stroke Foundation gives \$1-m for research”. [On Campus News], U of Saskatchewan weekly newspaper. Volume 11 (10), Jan. 23, 2004
39. “Researcher named Innovation Award finalists”. [On Campus News], U of Saskatchewan weekly



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- newspaper. Volume 10 (17), page 7, May 2, 2003
40. “Four U of S researchers nominated for award”. [Saskatoon Sun], Newspaper of Saskatoon. Page 5, April 27, 2003.
 41. “SABEX field diverse group”. [The Star Phoenix], Newspaper of Saskatoon. Page D1 and D5, April 16, 2003.
 42. “U of S researchers get bulk of agriculture grants”. [The Star Phoenix], Newspaper of Saskatoon. Page D3, February 13, 2003.
 43. “Around The Bowl” [On Campus News], U of Saskatchewan weekly newspaper. Volume 10 (10), Jan. 24, 2003
 44. “New funding targets health, food research”. [On Campus News], U of Saskatchewan weekly newspaper. Volume 10 (12), Feb. 21, 2003
 45. “The World's Best Research - Dr. Rui Wang: searching for the root cause of high blood pressure” Feature article of December 18, 2002. Heart and Stroke Foundation of Canada web page. [HTTP://ww1.heartandstroke.ca/Page.asp?PageID=33&ArticleID=1780&Src=research&From=SubCategory](http://ww1.heartandstroke.ca/Page.asp?PageID=33&ArticleID=1780&Src=research&From=SubCategory)
 46. “U of S Researcher wins Fellowship”. [The Star Phoenix], Newspaper of Saskatoon. Page C2, December 17, 2002.
 47. “Researcher given fellowship”. [Saskatoon Sun], Newspaper of Saskatoon. Page 8, December 15, 2002.
 48. “Local R and D company in national spotlight”. [The Star Phoenix], Newspaper of Saskatoon. Page A5, December 2, 2002
 49. “U of S spinoff herbal treatment firm on shortlist for national innovation award ‘business plan’ competition”. [On Campus News], U of Saskatchewan weekly newspaper. Volume 10 (8), page 10, November 29, 2002
 50. “Getting BuSY – A natural Viagra alternative in our own backyard?” [Planet S] Magazine, Saskatoon, SK, Canada. November 14, 2002. page 18.
 51. “Gene therapy and hypertension”. CBC Radio Interview Broadcast, 540 AM, 4:30 a.m., November 1, 2002
 52. “Natural remedy for hypertension and erectile dysfunction”. CBC Radio Interview Broadcast (French), 690 AM, 7:30 a.m., October 14, 2002
 53. “Dr. Wang develops alternative to Viagra”. Front page story in [Leader Post]. Newspaper of Regina, SK, October 5, 2002
 54. “Hopes raised for erectile dysfunction remedy – Prof seeks patent for herbal treatment”. Front page story in [The Star Phoenix], Newspaper of Saskatoon, October 5, 2002
 55. “Patent sought for natural alternative to Viagra”. [Food & Food Report]. A weekly Newsletter, Communication Branch, Saskatchewan Agriculture. October 7, 2002
 56. “Hydrogen sulfide could treat hypertension: Borderline toxic concentrations open potassium ATP channels”. [Medical Post], National Medical Magazine of Canada. 38(3), January 22, 2002.
 57. “BioNatCom offers natural competition to Viagra product”. [Nutra News], Saskatchewan Nutraceutical Network, Volume 13, Sept. 2002.
 58. “12 U of S health researchers get \$5.6m from CIHR”. [On Campus News], U of Saskatchewan weekly newspaper. Volume 9 (16), April 26, 2002.
 59. “HSURC grants researchers \$1.4m”. [On Campus News], U of Saskatchewan weekly newspaper. Volume 9(11), Feb. 8, 2002.
 60. “Researchers get \$685,000 from Heart & Stroke Foundation”. [On Campus News], U of Saskatchewan weekly newspaper. Volume 10(8), Nov. 29, 2002.
 61. “Major Advance in Blood Pressure Research” NSERC NEWSBUREAU BULLETIN, No. 30 - Thursday, November 29, 2001



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62. “Heart & Stroke Foundation grants \$837,000 to researchers”. [On Campus News], U of Saskatchewan weekly newspaper. Volume 9(8), Nov. 30, 2001.
63. “Health researchers awarded \$5.3 million”. [On Campus News], U of Saskatchewan weekly newspaper. Volume 9(6), Nov. 2, 2001.
64. “Imaging equipment fits Physiology’s new orientation”. [On Campus News], U of Saskatchewan weekly newspaper. Volume 7(17), May 19, 2000.

Patents

1. Extract from *pleurotus eryngii* (DC. Et Fr.) *quell* and uses thereof (US Patent and Trademark Office, Patent application confirmation #: 3683)
2. *Cynomoricum songaricum* Rupr. Extract and uses thereof. (US Patent and Trademark Office, Patent application confirmation #: 3691)
3. Methods of upregulating the heme oxygenase/carbon monoxide (HO/CO) pathway (US Patent and Trademark Office, Patent application confirmation #: 0010159)
4. Inhibition of formation of advanced glycation endproducts. (US Patent and Trademark Office, US application confirmation number 61/166692).

Key Publications: IF = Impact Factor

1. Teng H, Wu B, Zhao K, Yang G, Wu L, Wang R. Oxygen-sensitive mitochondrial accumulation of cystathionine β -synthase mediated by Lon protease. Proc. Natl. Acad. Sci. USA. 110(31):12679-84, 2013. PMID: 23858469 (**IF, 9.74**)
2. Mani S, Li H, Untereiner A, Wu L, Yang GD, Austin RC, Dickhout JG, Lhotak S, Meng QH, Wang R. Decreased endogenous production of hydrogen sulfide accelerates atherosclerosis. Circulation. Jun 25;127(25):2523-2534. Epub 2013 May 23. PMID: 23704252 (**IF, 15.2**)
3. Wang R. Physiological implications of hydrogen sulfide – A whiff exploration that blossomed. Physiol. Rev. 92(2):791-896, 2012 (**IF, 30.17**)
4. Fu M, Zhang W, Wu L, Yang G, Li H, Wang R. Hydrogen sulfide (H₂S) metabolism in mitochondria and its regulatory role in energy production. Proc. Natl. Acad. Sci. USA. 109(8): 2943-2948, 2012. (**IF, 9.74**)
5. Mustafa AK, Sikka G, Gazi SK, Steppan J, Jung SM, Bhunia AK, Barodka VM, Gazi FK, Barrow RK, Wang R, Amzel LM, Berkowitz DE, Snyder SH. Hydrogen sulfide as endothelium-derived hyperpolarizing factor sulfhydrates potassium channels. Circ Res. 109 (11): 1259-1268, 2011. (**IF, 9.50**) PMID: 21980127
6. Wang R. Toxic gas, lifesaver. Scientific American. 302: 66-71, 2010.
7. Jiang B, Tang G, Cao K, Wu L, Wang R. Molecular mechanism for H₂S-induced activation of K_{ATP} channels. Antioxid Redox Signal. 12(10): 1167-1178, 2010 (**IF, 8.21**)
8. Mustafa AK, Gadalla MM, Sen N, Kim S, Mu W, Gazi SK, Barrow RK, Yang G, Wang R, Snyder SH. H₂S signals through protein S-sulfhydration. Sci Signal. 2, ra72, 2009. (**IF, 7.50**)
9. Papapetropoulos A, Pyriochou A, Altaany Z, Yang G, Maraziotis A, Jeschke MG, Brankic LK, Herndon DN, Wang R, and Szabo C. Hydrogen sulfide is an endogenous stimulator of angiogenesis. Proc. Natl. Acad. Sci. USA. 106 (51): 21972-21977, 2009 (**IF, 9.74**)
10. Yang G, Wu L, Jiang B, Yang W, Qi J, Cao K, Meng Q, Mustafa AK, Mu W, Zhang S, Snyder SH, Wang R. H₂S as a physiologic vasorelaxant: Hypertension in mice with deletion of cystathionine gamma-lyase. Science. 322:587-590, 2008 (**IF, 31.20**)

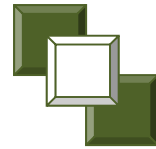


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11. Yang G, Yang W, Wu L, and Wang R. H₂S, endoplasmic reticulum stress, and apoptosis of insulin-secreting beta cells. *J. Biol. Chem.* 282 (22): 16567–16576, 2007 **(IF, 5.33)**
12. Wang R, Shamloul R, Wang X, Meng Q, and Wu L. Sustained normalization of high blood pressure in spontaneously hypertensive rats by implanted hemin pump. *Hypertension.* 48:685-692, 2006. **(IF, 6.91)**
13. Wu L, Wang R. Carbon monoxide: endogenous production, physiological functions, and pharmacological applications. *Pharmacol. Rev.* 57:585-630, 2005. **(IF, 22.34)**
14. Yang G, Sun X, Wang R. Hydrogen sulfide-induced apoptosis of human aorta smooth muscle cells via the activation of mitogen activated protein kinases and caspase-3. *FASEB J.* 18:1782-1784, 2004. **(IF, 6.52)**
15. Wu L, Noyan Ashraf MH, Wang R, Paterson PG, Ferrie A, Juurlink BHJ. Dietary approach to attenuate oxidative stress, hypertension, and inflammation in the cardiovascular system. *Proc. Natl. Acad. Sci. USA.* 101:7094-7099, 2004. **(IF, 9.74)**
16. Ndisang JF, Wu L, Zhao W and Wang R. Induction of heme oxygenase-1 and stimulation of cGMP production by hemin in aortic tissues from hypertensive rats. *Blood* 101: 3893-3900, 2003. **(IF, 10.56)**
17. Wang R. Two’s company, three’s a crowd – Can H₂S be the third endogenous gaseous transmitter? *FASEB J.* 16: 1792-1798, 2002. **(IF, 6.52)**
18. Wu L, Cao K, Lu Y, Wang R. Different mechanisms underlying the stimulation of K_{Ca} channels by nitric oxide and carbon monoxide. *J. Clin. Inv.* 110:691–700, 2002. **(IF, 12.81)**
19. Zhao W, Zhang J, Lu Y, Wang R. The vasorelaxant effect of H₂S as a novel endogenous gaseous K_{ATP} channel opener. *EMBO J.* 20:6008-6016, 2001. **(IF, 10.12)**
20. Wang R, Wang ZZ, Wu L, Hanna ST, and Peterson-Wakeman R. Reduced vasorelaxant effect of carbon monoxide in diabetes and the underlying mechanisms. *Diabetes*, 50: 166-174, 2001. **(IF, 8.89)**
21. Wang R, Wu L. The chemical modification of K_{Ca} channels by carbon monoxide in vascular smooth muscle cells. *J. Biol. Chem.* 272:8222-8226, 1997. **(IF, 5.33)**

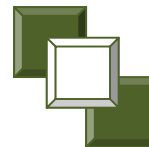
Publications (including Key Publications)

216. Flannigan KL, Ferraz JGP, Wang R, Wallace JL. Enhanced synthesis and diminished degradation of hydrogen sulfide in experimental colitis: A site-specific, pro-resolution mechanism. *PLoS One.* 2013 Aug 5;8(8):e71962. doi: 10.1371/journal.pone.0071962. PMID: 23940796 **(IF, 4.4)**
215. Teng H, Wu B, Zhao K, Yang G, Wu L, Wang R. Oxygen-sensitive mitochondrial accumulation of cystathionine β-synthase mediated by Lon protease. *Proc. Natl. Acad. Sci. USA.* 110(31):12679-84, 2013. PMID: 23858469 **(IF, 9.74)**
214. Shirozu K, Tokuda K, Marutani E, Lefer D, Wang R, Ichinose F. Cystathionine γ-lyase deficiency protects mice from galactosamine/lipopolysaccharide-induced acute liver failure. *Antioxid Redox Signal.* 2013 Jun 12. [Epub ahead of print] PMID: 23758073 **(IF, 8.45)**
213. Altaany Z, Yang G, Wang R. Crosstalk between hydrogen sulfide and nitric oxide in endothelial cells. *J. Cell. Mol. Med.* 17(7):879-888, 2013. PMID: 23742697 **(IF, 4.13)**
212. Mani S, Li H, Untereiner A, Wu L, Yang GD, Austin RC, Dickhout JG, Lhotak S, Meng QH, Wang R. Decreased endogenous production of hydrogen sulfide accelerates atherosclerosis. *Circulation.* 127(25):2523-2534, 2013. PMID: 23704252 **(IF, 15.2)**. Featured on www.MDLinx.com, June 26, 2013
211. Wang K, Ahmad S, Cai M, Rennie J, Fujisawa T, Crispi F, Baily J, Miller MR, Cudmore MJ, Hadoke PWF, Wang R, Gratacós E, Buhimschi IA, Buhimschi CS, Ahmed A. Dysregulation of the hydrogen sulfide (H₂S) producing enzyme cystathionine γ-lyase (CSE) contributes to maternal hypertension and placental




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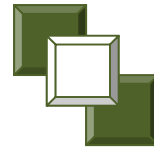
- abnormalities in preeclampsia. *Circulation*. 2013 Jun 25;127(25):2514-2522 Epub 2013 May 23. PMID: 23704251 (IF, 15.2)
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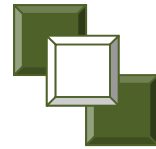
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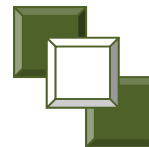
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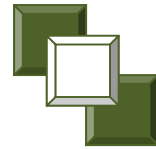
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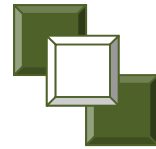
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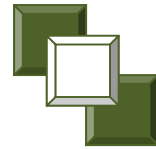
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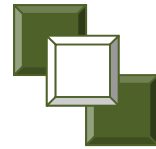
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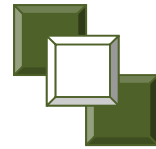
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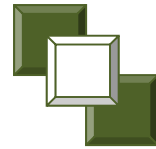
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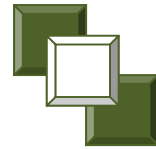


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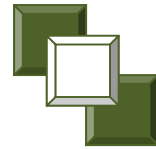
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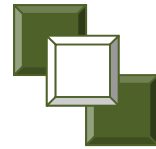
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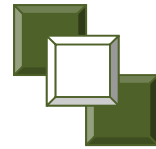
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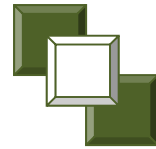
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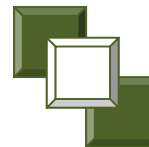
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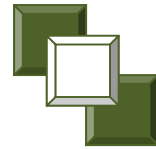
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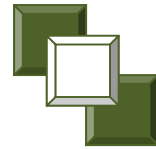
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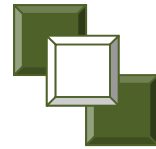
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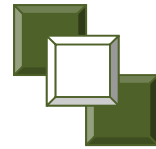
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