

THE UNIVERSITY OF BRITISH COLUMBIA
Curriculum Vitae for Faculty Members

Date: 15 December 2008

1. **SURNAME:** LAHER **FIRST NAME:** Ismail
MIDDLE NAME (S):
2. **DEPARTMENT/SCHOOL:** Pharmacology and Therapeutics
3. **FACULTY:** Medicine
4. **PRESENT RANK:** Professor **SINCE:** 2005
5. **POST-SECONDARY EDUCATION**

University or Institution	Degree	Subject Area	Dates
University of London	B.Sc. (Hons)	Pharmacology	1974-1978
University of British Columbia	M.Sc.	Pharmacology	1978-1980
Memorial University of Newfoundland	Ph.D.	Pharmacology	1980-1983

Special Professional Qualifications

Certificate on Teaching and Learning in Higher Education. The University of British Columbia. 2006

6. **EMPLOYMENT RECORD**

(a) *Prior to coming to UBC*

University, Company or Organization	Rank or Title	Dates
University of Vermont	Postdoctoral Fellow	1983-1986
University of Vermont	Research Associate	1986-1986
University of Vermont	Research Assistant Professor	1986-1991
University of Cape Town	Principal Scientific Officer, MRC	1991-1991
University of Vermont	Visiting Associate Professor	1991-1992
University of Vermont	Research Assistant Professor	1992-1995
University of Vermont	Visiting Assistant Professor	1995-1998
University of Vermont	Visiting Associate Professor	1998-

(b) *At UBC*

Rank or Title	Dates
Assistant Professor	1995-2000
Visiting Associate Professor (University of Vermont, Vermont)	1998-2006
Associate Professor	2000-2005
Professor	2005-
Visiting Professor (University of Angers, France)	2006-2007
Visiting Adjunct Professor (University of Vermont)	2007

(c) *Date of granting of tenure at U.B.C.: 2000*

7. **LEAVES OF ABSENCE**

University, Company or Organization at which Leave was taken	Type of Leave	Dates

8. **TEACHING**

(a) *Areas of special interest and accomplishments*

TEACHING EXPERIENCE

- 1976-1977: Research Assistant, Pharmacology Lab Assistant; Faculty of Pharmaceutical Sciences, University of British Columbia.
- 1980-1983: Lectures in Autonomic Pharmacology to 1st and 2nd Year Medical Students, Memorial University of Newfoundland.
- 1980-1983: Laboratory demonstrator in medical student and graduate student pharmacology courses, Memorial University of Newfoundland.
- 1985-1990: Lectures in Autonomic Pharmacology to Undergraduate Students, University of Vermont.
- 1992-1995: Lectures in Pharmacology to Graduate and Undergraduate Students, University of Vermont.
- 1998- Lectures in Cardiovascular Pathophysiology (Medicine 570), Department of Pathology and Laboratory Medicine, University of British Columbia.
- 1997- Tutor in Problem based Learning (P2P1 and P2P2) for Medical and Dental Students, The University of British Columbia.
- 1999-2000 Lectures to Second Year Medical and Dental Students (Growth and Reproduction Block; Endocrinology Block).
- 1998-2000 Lectures to Second Year Medical and Dental Students (Musculoskeletal System Block).

2005- Lectures to First Year Medical and Dental Students (Principles of Human Biology Block)

2005- Tutor, Autonomic Pharmacology Workshop (~30 Year 1 Medical Students)

(b) Courses Taught at UBC

Session	Course Number	Scheduled Hours	Class Size	Hours Taught			
				Lectures	Tutorials	Labs	Other
1995	PCTH 402	24	2	10	10	10	
1995-1998	PCTH 305	10	55	10			
1995-1998	PCTH 404	5	10	5			
1995-1998	PCTH 425	6	160	6			
1996-	PCTH 400	2	15	1			
1996-1998	PHAR 545	3	15	2			
1997-	P2P1 (Med)	48	8		48		
1997-	P2P2 (Med)	30	8		30		
1997-	MEDI 570	3	6	3			
1997-	PCTH 448	2	20	2		10	

(c) Graduate Students Supervised

Student Name	Program Type	Year		Principal Supervisor	Co-Supervisor(s)
		Start	Finish		
Yajun Ni	Ph.D	1993	1995	G. Osol	I. Laher
George Wellman	Ph.D.	1993	1995	J. Brayden	I. Laher
Regent Laporte	Ph.D.	1989	1995	I. Laher	
Andrew Ding	M.Sc.	1993	1995	J.A. Bevan	I. Laher
Peter Skarsgard	Ph.D.	1995	2000	B.M. McManus	C. van Breemen I. Laher
Sandra Tam	M.Sc.	1996	1998	I. Laher	
Eugene Lam	M.Sc.	1997	2000	I. Laher	

Amy Liu	M.Sc.	1998	2001	I. Laher	B.M. McManus
Farzad Moien Afshari	M.Sc.	2000	2002	I. Laher	
Nicola Bai	M.Sc.	2002	2004	I. Laher	S. van Eeden
Farzad Moien Afshari	Ph.D.	2002	2008	I. Laher	
Mohammad Mahmudur Rahman	M.Sc.	2004	2006	I.Laher	
Sharzad Elmi	M.Sc.	2005	2008	I.Laher	
Nada Salam	Ph.D.	2005		I.Laher	
Manasi Vadhavkar	M.Sc.	2007		I. Laher	L. Stothers

(d) Continuing Education Activities

Attended *IDEAL* Workshop on Medical Student Assessment (Hong Kong, October 2003)

Attended *Medical Council of Canada* Workshop on Assessment (Vancouver, February 2005)

Attended *IDEAL* Workshop on Medical Student Assessment (Adelaide, Australia, February 2005)

Attended *IDEAL* Workshop on Medical Student Assessment (Khartoum, Sudan, November 2007)

(e) Visiting Lecturer (indicate university/organization and dates)

Visiting Associate Professor, University of Vermont.

Visiting Professor, University of Angers, France (2007-2007)

(f) Other

Post-doctoral Fellows:

Dr. Virginia Lemos (2005-2006) Associate Professor at the Department of Physiology and Biophysics from Instituto de Ciencias Biologicas (Biological Sciences Institute) at the Universidade Federal of Minas Gerais (Federal University of Minas Gerais), Brazil

Dr. Steyner Cortes (2005-2006): Associate Professor at the Department of Pharmacology from Instituto de Ciencias Biologicas (Biological Sciences Institute) at the Universidade Federal of Minas Gerais (Federal University of Minas Gerais), Brazil

Dr. Saeid Golbidi (2007-2008) Assistant Professor, Department of Pharmacology, Kashan University of Medical Sciences, Kashan, Iran

Visiting Scientists

Mr. Henrik Houmann Petersen, Medical Student, University of Aarhus, Denmark. 2000-2001

Ms. Emma Kenyon, Co-op student from the University of London (Kings College, Department of Pharmacology). 1999-2000.

Dr. Hiroshi Washio, Professor (Tokyo University) 2001-2004.

Dr. Shung Lee, Surgery Resident (Vancouver General Hospital), UBC. 2001-2002.

Dr. Keith Baxter, Surgery Resident (Vancouver General Hospital), UBC. 2002-2003.

Dr. Koroush Afshar, Urology Resident (St. Paul's Hospital) 2002-2003.

Dr. Masanori Fukazawa (Research Scientist, Chugai Pharmaceutical Co, Japan) 2003-2003

Dr. Tomohisa Ishikawa. Associate Professor, Dept. Pharmacology (University of Shizuoka) 2004-2004

Dr. Venkat Gopalakrishnan, Professor (University of Saskatoon). 2004-2004.

Dr. Urmilla Shinde, Post-Doctoral Fellow (University of Saskatoon). 2004-2004.

Mr. Alex Yau Chi Chen, Graduate Student (Chinese University of Hong Kong at Shatin) 2004-2004.

Dr. Majid Khazaei, Graduate Student (University of Isfahan, Iran) 2004-2005

Ms. Erika Andersson (University of Stockholm, Sweden) 2005-2005

Dr. Henrik Houmann Petersen, Physician - Scientist, University of Aarhus, Denmark. 2006-2006

Ms. Calista Tan, Exchange Student (Nanyang Technological University, Singapore) 2006-2007

Dr. Ziba Rajaei, Graduate Student (University of Isfahan, Iran) 2007-2007

Mr. Zain G. Hashimi, Medical Student (Aga Khan University, Pakistan) 2008-2008

Graduate Student Thesis Committees:

<u>TITLE</u>	THESIS
<u>Committee Member:</u>	Ph.D. Thesis for Ms. Yajun Ni (University of Vermont, Department of Physiology and Biophysics, 1993-1995).
<u>Committee Member:</u>	Ph.D. Thesis for Mr. George Wellman (University of Vermont, Department of Pharmacology, 1992-1995).
<u>Thesis Supervisor:</u>	Ph.D. Thesis for Dr. Regent Laporte (University of Vermont, Department of Pharmacology, 1985-1995).
<u>Committee Member:</u>	Ph.D. Thesis for Mr. Andrew Ding (University of Vermont, Department of Pharmacology, 1993-1995).
<u>Committee Member:</u>	Ph.D. Thesis for Ms. Li Li. (The University of British Columbia, Department of Pharmacology and Therapeutics, 1995).
<u>Committee Member:</u>	Ph.D. Thesis for Ms. Roshanak Rahimian. (The University of British Columbia, Department of Pharmacology and Therapeutics, 1996).
<u>Committee Member:</u>	M.Sc. Thesis for Mr. Wing Lim Chow. (The University of British Columbia, Division of Pharmacology, Faculty of Pharmaceutical Sciences, 1996).
<u>Committee Member:</u>	Ph.D. Thesis for Mr. Paul McDonald. (The University of British Columbia, Department of Pathology and Laboratory Medicine, 1996).
<u>Committee Member:</u>	Ph.D. Thesis for Mr. Mark Nazer. (The University of British Columbia, Department of Pharmacology and Therapeutics, 1996).
<u>Committee Member:</u>	M.Sc. Thesis for Ms. Rending (Linda) Xu. (The University of British Columbia, Department of Pharmacology and Therapeutics, 1997).
<u>Committee Member:</u>	M.Sc. Thesis for Ms. Natalia Yakubovich. (The University of British Columbia, Department of Physiology, 1998-2001).
<u>Committee Member:</u>	Ph.D. Thesis for Ms. Emi Arikawa. (The University of British Columbia, Division of Pharmacology, Department of Pharmaceutical Sciences, 1998).
<u>Committee Member:</u>	Ph.D. Thesis for Ms. Yi He (The University of British Columbia, Division of Pharmacology, Faculty of Pharmaceutical Sciences, 1999).
<u>Committee Member:</u>	M.Sc. Thesis for Ms. Denise Galipeau. (The University of British Columbia, Division of Pharmacology, Faculty of Pharmaceutical Sciences, 1999).

<u>Committee Member:</u>	M.Sc. Thesis for Ms. Andrea Bardell. (The University of British Columbia, Division of Pharmacology, Faculty of Pharmaceutical Sciences, 1999).
<u>Committee Member:</u>	Ph.D. Thesis for Ms. Maria Walker. (The University of British Columbia, Department of Pharmacology and Therapeutics, 1999).
<u>University Examiner:</u>	Ph.D. Thesis for Mr. James Hennan (The University of British Columbia, Division of Pharmacology, Faculty of Pharmaceutical Sciences, 2000).
<u>Committee Member:</u>	Ph.D. Thesis for Ms. Tania Szado. (The University of British Columbia, Department of Pharmacology and Therapeutics, 1999).
<u>Committee Member:</u>	Ph.D. Thesis for Ms. Sonia Franciosi. (The University of British Columbia, Department of Pharmacology and Therapeutics, 2000).
<u>Department Examiner:</u>	M.Sc. Thesis for Mr. Daniel Leung. (The University of British Columbia, Department of Pharmacology and Therapeutics, 2000).
<u>University Chair:</u>	Ph.D. Thesis for Mr. Robbin B Burns (The University of British Columbia, Division of Pharmaceutics and Biopharmaceutics, Faculty of Pharmaceutical Sciences, 2000).
<u>Committee Member:</u>	M.Sc. Thesis for Mr. Jonathan Choy. (The University of British Columbia, Department of Pathology and Laboratory Medicine, 2001).
<u>Committee Member:</u>	M.Sc. Thesis for Mr. Dake Qi. (The University of British Columbia, Department of Pharmacology and Therapeutics, 2001).
<u>Committee Member:</u>	Ph.D. Thesis for Mr. Willmann Liang. (The University of British Columbia, Department of Pharmacology and Therapeutics, 2001).
<u>Thesis Examiner:</u>	M.Sc. Thesis for Ms. Christine Binns (The University of British Columbia, Department of Medicine, Experimental Medicine Program, 2001).
<u>University Chair:</u>	Ph.D. Thesis for Ms. Lucie Marzban (The University of British Columbia, Department of Pharmacology, Division of Pharmacology, Faculty of Pharmaceutical Sciences, 2001).
<u>University Examiner:</u>	Ph.D. Thesis for Mr. Eric Loucks. (The University of British Columbia, Department of Pharmacology and Therapeutics, 2002).
<u>University Examiner:</u>	Ph.D. Comprehensive Exam for Mr. Paul Cheung (The University of British Columbia, Department of Pathology and Laboratory Medicine, 2002).
<u>Committee Member:</u>	Ph.D. Thesis for Ms. Pauline Dan (The University of British Columbia, Department of Physiology, 2002).

<u>University Examiner:</u>	Ph.D. Thesis Exam for Mr. Chris Carthy (The University of British Columbia, Department of Pathology and Laboratory Medicine, 2002).
<u>University Chair:</u>	Ph.D. Thesis Exam for Ms. Donna Lang (Department of Neuroscience, Faculty of Medicine, 2002).
<u>University Examiner:</u>	Ph.D. Comprehensive Exam for Ms. Jodene Eldstrom (The University of British Columbia, Department of Physiology, 2002).
<u>Committee Member:</u>	M.Sc. Thesis for Ms. Lally Chan (The University of British Columbia, Department of Pharmacology and Therapeutics, 2003).
<u>University Chair:</u>	Ph.D. Thesis for Mr. Sam Au Yeung (The University of British Columbia, Division of Pharmaceutics and Biopharmaceutics, Faculty of Pharmaceutical Sciences, 2003).
<u>Committee Examiner:</u>	Ph.D. Comprehensive Exam for Mr. Jonathan Choy (The University of British Columbia, Department of Pathology and Laboratory Medicine, 2003).
<u>Departmental Examiner:</u>	M.Sc. Thesis for Dr. Gurdial Singh Mattu (The University of British Columbia, Department of Pharmacology and Therapeutics, 2003).
<u>University Examiner:</u>	M.Sc. Comprehensive Exam for Mr. Kenny WJ Lee (The University of British Columbia, Department of Pathology and Laboratory Medicine, 2003).
<u>University Examiner:</u>	Ph.D. Thesis Exam for Dr. Kuo-Hsing Kuo (Department of Anatomy and Cell Biology, Faculty of Medicine, 2003).
<u>University Examiner:</u>	Ph.D. Thesis Exam for Ms. Linda Yip (Department of Physiology, Faculty of Medicine, 2004).
<u>University Examiner:</u>	Ph.D. Thesis for Mr. Caly Chien (The University of British Columbia, Division of Pharmaceutics and Biopharmaceutics, Faculty of Pharmaceutical Sciences, 2004).
<u>Committee Member:</u>	M.Sc. Thesis for Ms. Arwen T Hunter (The University of British Columbia, Department of Pathology and Laboratory Medicine, 2004).
<u>University Chair:</u>	Ph.D. Thesis Exam for Ms. Pauline Dan (Department of Physiology, Faculty of Medicine, 2004).
<u>Committee Member:</u>	M.Sc. Thesis for Mr. Jason Grebely (The University of British Columbia, Department of Pharmacology and Therapeutics, 2004).
<u>Committee Member:</u>	M.Sc. Thesis for Ms. Linda Tran (The University of British Columbia, Division of Pharmacology, Faculty of Pharmaceutical Sciences, 2004).
<u>Committee Member:</u>	Ph.D. Thesis for Ms. Rani Cruz (The University of British Columbia, Department of Pathology and Laboratory Medicine, 2004).

<u>University Examiner:</u>	Ph.D. Thesis for Ms. Irem Mueed (The University of British Columbia, Division of Pharmacology, Faculty of Pharmaceutical Sciences, 2005).
<u>Committee Member:</u>	Ph.D. Thesis for Mr. Ehab Mohamed (The University of British Columbia, Department of Pharmacology and Therapeutics, 2005).
<u>University Chair:</u>	Ph.D. Thesis for Mr. Tony Kelly (The University of British Columbia, Department of Physiology, 2005)
<u>Committee Member:</u>	Ph.D. Thesis for Mr. Harish Vasudevan (The University of British Columbia, Division of Pharmacology, Faculty of Pharmaceutical Sciences, 2005)
<u>Committee Member:</u>	Ph.D. Thesis for Mr. Prabhakara Nagareddy (The University of British Columbia, Division of Pharmacology, Faculty of Pharmaceutical Sciences, 2005)
<u>Committee Member:</u>	Ph.D. Thesis for Mr. Girish Kewalramani (The University of British Columbia, Division of Pharmacology, Faculty of Pharmaceutical Sciences, 2005)
<u>Committee Member:</u>	Ph.D. Thesis for Dr. Harout Tossonian (The University of British Columbia, Department of Pharmacology and Therapeutics, 2005).
<u>Committee Member:</u>	Ph.D.. Thesis for Ms. Linda Tran (The University of British Columbia, Division of Pharmacology, Faculty of Pharmaceutical Sciences, 2004).
<u>University Chair:</u>	Ph.D. Thesis for Ms. Erin Maclachlan (The University of British Columbia, Department of Chemistry, 2006).
<u>University Examiner:</u>	Ph.D. Thesis for Ms. Nana Rezai (The University of British Columbia, Department of Pathology and Laboratory Medicine, 2006).
<u>University Chair:</u>	Ph.D. Thesis for Mr. Daniel Cheuk Hang Kwan (The University of British Columbia, Department of Cellular & Physiological Sciences, 2006).
<u>University Chair:</u>	Ph.D. Thesis for Dr. Min Li (The University of British Columbia, Faculty of Dentistry, 2007).
<u>University Chair:</u>	M.Sc. Thesis for Mr. Mostafa Elmestiri (The University of British Columbia, Department of Surgery, Faculty of Medicine, 2007).
<u>Committee Member:</u>	Ph.D.. Thesis for Ms. Geetanjali Kharmate (The University of British Columbia, Division of Pharmacology, Faculty of Pharmaceutical Sciences, 2008).
<u>Committee Member:</u>	Ph.D. Thesis for Mr. Alex Chang (The University of British Columbia, Department of Pathology and Laboratory Medicine, 2008).
<u>Committee Member:</u>	Ph.D. Thesis for Mr. Prasanth Puthanveetil (The University of British Columbia, Division of Pharmacology, Faculty of Pharmaceutical Sciences, 2008)

<u>University Examiner</u>	Ph.D. Thesis for Mr. Balraj Singh Heram (The University of British Columbia, Division of Pharmacology, Faculty of Pharmaceutical Sciences, 2008)
<u>Committee Member:</u>	Ph.D. Thesis for Ms. Lisa Ang (The University of British Columbia, Department of Pathology and Laboratory Medicine., 2008)
<u>University Chair:</u>	Ph.D. Thesis for Ms. Tammy Lee Romanuik (The University of British Columbia, Department of Pathology and Laboratory Medicine, 2008).

SCHOLARLY AND PROFESSIONAL ACTIVITIES

(a) Areas of special interest and accomplishments

PHARMACOLOGY OF AUTOREGULATION
AUTONOMIC PHARMACOLOGY
VASCULAR SMOOTH MUSCLE
CEREBROVASCULAR PHARMACOLOGY

(b) Research or equivalent grants (indicate under COMP whether grants were obtained competitively (C) or non-competitively (NC))

Granting Agency	Subject	C O M P	\$ Per Year	Year	Principal Investigator	Co-Investigator(s)
Heart & Stroke Foundation Of Canada	Traineeship	Y	\$9,000	1978-1983	I. Laher	
University of Vermont	Postdoctoral Fellowship	Y	\$16,000	1983-1984	I. Laher	
Heart & Stroke Foundation Of Canada	Postdoctoral Fellowship	Y	DECLINE	1983-1984	I. Laher	
Heart & Stroke Foundation Of Canada	Postdoctoral Fellowship	Y	\$18,000	1984-1986	I. Laher	
American Heart Association	Postdoctoral Fellowship	Y	DECLINE	1984-1986	I. Laher	
American Heart Association	Postdoctoral Fellowship	Y	18,000	1986-1987	I. Laher	
National Institutes of Health	Grant In Aid <i>Stretch activates vascular myogenic tone and Ca²⁺ entry</i>	Y	350,000	1989-1995	I. Laher	
Medical Research Council	Operating Grant <i>The sarcoplasmic reticulum buffers Ca²⁺ entry in blood vessels</i>	Y	115,000	1994-1997	I. Laher	
Heart & Stroke Foundation Of Canada	Operating Grant <i>Calcium release in cerebral arteries</i>	Y	175,000	1995-1998	I. Laher	
American Heart Association	Grant In Aid <i>The sarcoplasmic reticulum as a modulator of vascular tone.</i>	Y	20,000	1995-1996	I. Laher	
Heart & Stroke Foundation Of Canada	Operating Grant <i>Estrogen and vasodilation of coronary arteries</i>	Y	80,300	1997-1999	I. Laher	

Granting Agency	Subject	C O M P	\$ Per Year	Year	Principal Investigator	Co-Investigator(s)
Heart & Stroke Foundation Of BC & Yukon	Operating Grant <i>Endothelial and smooth muscle cell injury in the pathogenesis of transplant vascular disease</i>	Y	120,000	1998-2001	B. McManus	C. van Breemen, I. Laher, E.. Moore, U.Steinbrecher, V. Dorino, K. Zis
Canada Foundation for Innovation	New Opportunities Grant (Operating Grant) <i>Signal transduction in resistance arteries</i>	Y	120,000	1998-2001	I. Laher	
Heart & Stroke Foundation Of BC & Yukon	Operating Grant <i>Signalling in initiation and acceleration of lipid-rich transplant vascular disease</i>	Y	160,000	1999-2003	B. McManus	C. van Breemen, I. Laher, U.Steinbrecher, V. Dorino, K. Zis
Heart & Stroke Foundation Of Canada	Operating Grant <i>Estrogen regulates endothelial function</i>	Y	129,000	1999-2002	I. Laher	
Heart & Stroke Foundation Of Canada	Operating Grant <i>Novel pathogenesis and therapies for transplant vascular disease</i>	Y	DECLINE	1999-2001	I. Laher	P. Skarsgard
Canada Foundation for Innovation	Operating Grant <i>Novel pathogenesis and therapies for transplant vascular disease</i>	Y	157,137	1999-2002	I. Laher	P. Skarsgard
Canada Foundation for Innovation	Operating Grant (PMAC Award) <i>Estrogen and endothelial signaling</i>	Y	146,550	1996-1999	C. van Breemen	I. Laher X. Wang
Heart & Stroke Foundation Of Canada	Operating Grant <i>Ca²⁺ gradients in vascular smooth muscle: Mechanisms and function.</i>	Y	118,400	1999-2001	C. van Breemen	I. Laher E. Moore

Granting Agency	Subject	C O M P	\$ Per Year	Year	Principal Investi- gator	Co- Investigator(s)
Heart & Stroke Foundation Of BC & Yukon	Program Grant <i>Signalling in initiation and acceleration of lipid-rich transplant vascular disease.</i>	Y	700,000	1999-2003	B. McManus	C van Breemen I. Laher E. Moore U. Steinbrecher V. Duronio K. Dorovini- Zis
Japan Society For The Promotion Of Science	Research Collaboration (Travel Grant) <i>Mechanotransduction in smooth muscle</i>	N	250,000 Japanese Yen (~\$3,000CAD)	2002-2003	I. Laher	
Heart & Stroke Foundation Of BC & Yukon	Operating Grant <i>Coronary artery vasomotion and hypertrophic cardiomyopathy</i>	Y	85,700	2002-2005	I. Laher	
Heart & Stroke Foundation Of BC & Yukon	Operating Grant <i>Air pollution and atherogenesis</i>	Y	75,000	2003-2006	S. van Eeden	I. Laher
Hong Kong Research Grant Council	Operating Grant <i>Long-term effect of ovariectomy and raloxifene (SERM) replacement therapy on endothelial function and on regulation of smooth muscle Ion channels</i>	Y	789,000 HK\$ (~\$142,000 CAD)	2003-2005	Y. Pi Huang	I. Laher XQ Yao
Canada Foundation for Innovation	Operating Grant <i>Granzyme B: Role in transplant vascular disease and associated vascular dysfunction</i>	Y	\$81,000	2004-2007	D. Granville	I. Laher
Heart & Stroke Foundation Of BC & Yukon	Operating Grant <i>Cigarette smoking and resistance artery function</i>	Y	\$91,413	2004-2007	I. Laher	

Granting Agency	Subject	C O M P	\$ Per Year	Year	Principal Investigator	Co-Investigator(s)
Heart & Stroke Foundation Of BC & Yukon	Operating Grant <i>Cellular mechanisms of vascular dysfunction in human diabetes</i>	Y	\$103,740	2004-2007	C.van Breemen	I.Laher
Canadian Diabetes Association	Operating Grant <i>Exercise improves coronary artery function in obese db/db mice</i>	Y	\$74,891	2005-2007	T.J. Podor	I.Laher
Heart & Stroke Foundation Of BC & Yukon	Operating Grant <i>Lifestyle modifications improve coronary artery function in type 2 diabetes</i>	Y	\$87,528	2006-2009	I.Laher	

(c) *Research or equivalent contracts (indicate under COMP whether grants were obtained competitively (C) or non-competitively (NC)).*

Granting Agency	Subject	CO MP	\$ Per Year	Year	Principal Investigator	Co-Investigator(s)
Chugai Pharmaceuticals	<i>Effect of BO-653 on oxidized LDL-induced endothelial dysfunction in conductance arteries of rats</i>	N	25,000	2002	I. Laher	U. Steinbrecher
Faculty of Medicine (UBC) Summer Student Internship Program	<i>Integrated Pharmacology Cases as Self-Directed Learning Tools</i>	N	4,500	2008	I. Laher J. Shabbits S. Bardal	

(d) *Invited Presentations*

Symposium on Vascular Smooth Muscle (International Physiological Society) held at Banff, Canada, 1986.

Vascular Neuroeffector Mechanisms meeting held at Melbourne, Australia 1987.

International Symposium on Calcium Antagonists held at New York Academy of Sciences, New York, USA 1987.

American Physiological Society Symposium on Smooth Muscle, Mayo Clinic, Rochester, MN, 1989.

The Human Brain Circulation: Functional Changes in Disease. Totman Conference on Human Cerebrovascular Research, Basin Harbor Club, Vergennes, Vermont 1992.

The Fourth International Symposium on Resistance Arteries, Stowe, Vermont 1994.

The 14th International Congress of Geographic Medicine & 15th Iranian Congress of Physiology & Pharmacology. Shiraz, Iran, November, 2001.

Department of Pharmaceutical Sciences, University of Isfahan, Isfahan, Iran. November 2001.

Department of Pharmacology, Tehran University of Medical Sciences, Tehran, Iran. November 2001.

Department of Pharmacology, University of Iran Medical School, Tehran, Iran. November 2001.

“Regulatory role of mechanical stress response in cellular function—development of new drugs and tissue engineering”. Mechanotransduction Congress Symposium of the 74th Japanese Pharmacological Society, Kumamoto, Kyushu Island, Japan, March 2002.

“Resistance artery function in health and disease”. Department of Pharmacology, Faculty of Pharmaceutical Sciences, University of Shizuoka, Shizuoka City, Japan March 2002

“PKC and Gap Junctions in the modulation of vascular myogenic tone”. Departments of Physiology and Biophysics, University of Aarhus, Denmark, April 2002.

“Ca²⁺-sensitization during myogenic activation of rat cerebral arteries”. Myogenic 2002 Centennial Symposium: Trapp Family Lodge, Stowe, Vermont, June 2002

“Transplant vascular disease in rat cardiac allografts”. Department of Pharmacology, College of Medicine, University of Vermont, June 2002.

“Effect of cyclosporine in transplant vascular disease”. Department of Occupational Diseases, Yangpu District Central Hospital, Shanghai, Peoples Republic of China, August 2002.

“Role of nitric oxide in transplant vascular disease”. Department of Pharmacology, National University of Singapore August 2002.

“Effects of cyclosporine in transplant vascular disease in rat cardiac allografts”. Department of Physiology, Chinese University of Hong Kong, August 2002.

“Signaling mechanisms in vascular mechanotransduction”, Department of Pharmacology, School of Pharmaceutical Sciences, Showa University, Tokyo, Japan, October 2002.

“Mechanisms regulating arterial myogenic tone”. Department of Molecular Cardiology, Research Institute of Angiocardiology, Graduate School of Medical Sciences, Kyushu University, Fukuoka, Japan, October 2002.

“Signaling mechanisms regulating resting arterial diameter”. Chugai Pharmaceutical Company, Gotemba, Shizuoka, Japan, October 2002.

“Cyclosporine restores arterial function in transplant vascular disease”. Department of Pharmacology, Kuwait University, Kuwait, December 2002.

Invited Speaker at Symposium on “Inflammatory Heart Diseases and Cardiac Failure” at the 46th Annual Meeting of the Canadian Federation of Biological Societies. Ottawa, Canada, June 2003.

Invited Speaker at the Northwest Atherosclerosis Club Meeting, McDonald Research Centre, St. Paul’s Hospital, Vancouver, Canada [*Pharmacology of mouse coronary arteries: relevance of mouse models of disease.*] November 2003.

“The endothelial regulation of vascular health and disease” Department of Physiology and Pharmacology, University of New South Wales, Sydney, Australia. March 2005.

“Lifestyle modifications improve vascular dysfunction in a mouse model of type 2 diabetes”. University of Washington, Department of Pathology, Seattle, WA. September 2005

“Exercise reverses vascular dysfunction in type 2 diabetes” Invited Speaker at the 17th Iranian Congress of Physiology and Pharmacology. Kerman University of Medical Sciences, Kerman, Iran. October 2005

“Lifestyle modifications improve vascular function in diabetes”. Invited presentation at Angers University, France. May, 2007

“Use of R-Type Questions in Assessment of Medical Students”. Invited presentation by the Faculty of Medicine Assessment Working Group, University of al-Jazirah, Wad Madani, Sudan, November 2007

“Assessing Medical Student’ Clinical and Scientific Reasoning & Decision Making Abilities Using R-type Items” IDEAL Medical Exam Item Writing Workshop, Khartoum, Sudan , November 2007

“Exercise improves coronary artery function in diabetic mice”. Invited presentation at The 9th International Symposia on Resistance Arteries 2008 (Hamilton Island, Australia) April , 2008.

“Type 2 Diabetes: Why exercise?” Invited presentation at the Department of Pharmacology, Faculty of Medicine, The University of Vermont (Burlington, VT). October, 2008

(e) *Other Presentations*

Invited Lecture “Pharmacology of Osteoporosis” at the Department of Pharmacology, Ross University School of Medicine, Commonwealth of Dominica, West Indies, March 2003.

(f) *Conference Participation (Organizer, Keynote Speaker, etc.)*

Organizer of 1st. New England Smooth Muscle Society Meeting, Burlington, VT, 1993.

Joint Organizer of the International Symposium on Signal Transduction in Endothelial Cells, Vancouver, Canada, 1996.

Chair of Symposium on “*Cerebral Artery Pharmacology and Physiology*”—5th Internet World. Congress on Biomedical Sciences, December 7-16,1998.

Keynote Speaker at Symposium on Vascular Myogenic Tone at Congress Symposium “*Regulatory role of mechanical stress response in cellular function—development of new drugs and tissue engineering*” of the 74th Japanese Pharmacological Meetings, Kumamoto, Japan, March 2002.

State of the Art Lectures at The 14th International Congress of Geographic Medicine & 15th Iranian Congress of Physiology & Pharmacology. Shiraz, Iran, November 2001.

Organizing Committee Member of “*Frontiers in Cardiovascular Sciences 2003 Conference*”, Vancouver, Canada, February 2-4, 2003.

Organizing Committee Member for the 8th International Society for Resistance Arteries (ISRA) Meeting. Angers, France, May 2004.

Chair, Plenary Session on Ionic Control of Tone for the 8th International Society for Resistance Arteries (ISRA) Meeting. Angers, France, May 2004.

Co-Leader, Workshop *“Human resistance arteries and pathology; Investigations of resistance arteries at the bedside. Information for clinical decisions”*. 8th International Society for Resistance Arteries (ISRA) Meeting. Angers, France, May 2004.

Joint Organizer and Co-Chair of Division of Systems and Integrated Symposium *“20 Years of Calcium Imaging: A Revolution in Cell Physiology to Dye For”*, Experimental Biology, San Diego, USA (April, 2005)

Organizer and Chair of Symposium *“Pharmacology of the sarcoplasmic reticulum in smooth muscle”* at The 15th International Union of Pharmacology (IUPHAR), Beijing, China (July 2006).

International Scientific Advisory Committee Member for the 9th International Society for Resistance Arteries (ISRA) Meeting. Sydney, Australia (February 2008).

Invited presentation on *“Assessing Medical Student’ Clinical and Scientific Reasoning & Decision Making Abilities Using R-type Items”* at IDEAL Medical Exam Item Writing Workshop, Khartoum, Sudan (November 2007)

Organizer and Chair of Division of Systems and Integrated Symposium *“The Obesity Epidemic: Pharmacological Challenges”*, Experimental Biology, San Diego, USA (April, 2008)

SERVICE TO THE UNIVERSITY

(a) *Memberships on committees, including offices held and dates*

YEAR	NAME:
1996-2001	GI/Nutrition Module Committee for Medical and Dental School Problem Based Learning Curriculum.
1996-	Department Standing Committee on Promotion and Tenure.
1996-	Life Sciences Library Advisory Committee, Woodward Biomedical Library.
1997-2006	Department Graduate Advisor.
1997-1999	Vancouver Vascular Biology Research Center, Steering Committee
1998-2006	Cardiovascular Module Committee for Medical and Dental School Problem Based Learning Curriculum (Week Co-captain)
1998-2006	Pharmacology Representative for P2P2 Block for Medical and Dental School Problem Based Learning Curriculum.
1999-2006	Cardiovascular Module for Medical and Dental School Problem Based Learning—Week Co-Captain.
1999-2001	Departmental Representative on Faculty of Medicine Retreat on Research.

YEAR	NAME:
1999-2000	Acting Block Head, Cardiovascular Medicine Module, P2P2 Block of Medical and Dental School Problem Based Learning Curriculum.
1999-2004	Faculty of Medicine Representative to the Faculty of Pharmaceutical Sciences.
1999-2000	Faculty of Medicine Representative to the Faculty of Science.
2000-2004	Faculty Advisor to Medical and Dental Students (Undergraduate).
2001-2003	Member of MD/PhD Advisory Committee
2001-2006	Member of Faculty of Medicine Graduate Education Committee
2001-	Chair, Principles of Biology Module, P2P1 (PRIN 401 Block of Medical and Dental School Problem Based Learning Curriculum).
2001-	Member, Students Promotions Committee (Years 1 and 2) Medical and Dental School
2001-	Member, Undergraduate Medical and Dental Curriculum Education Committee.
2002-	Consolidation Week Co-Captain. Principles of Human Biology, Problem Based Learning Curriculum for Medical and Dental Students.
2002-2003	Member, Curriculum Overview Committee (Now Disbanded).
2002-	Member, Accreditations and Approvals Subcommittee for Medical School Expansion.
2002-	Member, Curriculum Year 2 and 2 Subcommittee of the MD Undergraduate Expansion Task Force.
2003-2004	Departmental Representative to the Faculty of Science
2003-2003	Search Committee for Instructor Recruitment, Problem Based Learning Curriculum of the Faculty of Medicine.
2004-2004	Member, Medical and Dental Student Remediation Working Group.
2004-2005	Member, Search Committee for UBC Diversity Advisor—Race and Ethnicity.
2004-	Chair, Year 1 Medical and Dental Student Support and Development Committee
2004-2005	Search Committee for Case Writing Director, Problem Based Learning Curriculum of the Faculty of Medicine.
2005-2005	Member, promotion and tenure committee, Department of Anesthesia, Faculty of Medicine (for Dr. Dr. Mark Ansermino)
2005-2005	Search Committee Member for Associate Head, Department of Anesthesia, Pharmacology and Therapeutics
2007-2007	Search Committee for Instructor Recruitment, Problem Based Learning Curriculum of the Faculty of Medicine.

YEAR	NAME:
2007	Chair, Department of Pharmacology and Therapeutics Pharmacology Teaching Committee
2007-2008	Faculty of Medicine Year 1 and 2 Curriculum Evaluation Working Group
2008-	Committee Member, UBC Faculty of Medicine Social Justice Core Team
2008-	Committee Member, Faculty of Medicine MD Undergraduate Curriculum Faculty Appointments Committee

(b) Other service, including dates

2004-2005 Member of Search Committee for Faculty Appointment in Pharmacology at the University of Northern British Columbia (UNBC)

11. SERVICE TO THE COMMUNITY

1999—University Chaplain, UBC (Muslim Students Association)

(a) Memberships on scholarly societies, including offices held and dates

American Society of Pharmacology and Experimental Therapeutics (1988 to present).
 The Microcirculatory Society (1989 to present).
 The Pharmacological Society of Canada (1989 to present).
 American Heart Association Council on Circulation (1989 to present).
 New England Smooth Muscle Society (1993 to present)
 South African Pharmacological Society (2005-present)
 International Society for the Scholarship of Teaching and Learning (2005-present)

(b) Memberships on other societies, including offices held and dates

(c) Memberships on scholarly committees, including offices held and dates

Invited Member, Medical Research Council of Canada Research Grants Committee (Cardiovascular Research, A) 1997-1998.

Invited Member, Medical Research Council of Canada Research Grants Committee (Cardiovascular Research, B) 2001-2001.

Member, Canadian Institutes of Health Research (Cardiovascular Sciences Committee C) 2001-2003.

Invited Member, Medical Research Council of Canada Research Grants Committee (Cardiovascular Research, B) 2003

Representative for Division of Systems and Integrative Pharmacology at Executive Committee Meetings (ASPET) 2003-

Representative, American Society of Experimental Pharmacology (ASPET) Scientific Council (2004-2006)

Member, ASPET Systems and Integrative Pharmacology Abstract Competition Committee 2004—

Invited External Reviewer for National Research Agency –ANR (Agence Nationale de la Recherche, France) “Young Researchers” (JCJC) Program. 2008-

(d) Memberships on other committees, including offices held and dates

Member of the Executive Committee of the Division of Systems and Integrative Pharmacology of the American Society of Pharmacology and Experimental Therapeutics (ASPET) (2003-)

(e) Editorships (list journal and dates)

Editorial Board of "Blood Vessels" 1987-1992.

Editorial Board of “Journal of Vascular Research” 1998-2002.

Editorial Board of “American Journal of Physiology: Heart and Circulatory Section” 1999-

Kuwait University Experts Referee Panel 2002-

Editorial Board of “Current Cardiology Reviews” 2004-

Guest Editor “American Journal of Physiology: Heart and Circulatory Section—Special Call of Invited Reviews from the ISRA 2004 Meeting.

Editorial Board for “Advances in Pharmacology” 2008-

(f) Reviewer (journal, agency, etc. including dates)

Ad-hoc reviewer for:

Acta Physiologica Scandinavica; American Journal of Physiology (Cell Physiology; Heart and Circulatory Physiology; Regulatory, Integrative and Comparative Physiology); Biochemical Pharmacology; Blood Vessels; Biological & Pharmaceutical Bulletin.; British Journal of Pharmacology; Canadian Journal of Physiology and Pharmacology; Cardiovascular Research; Circulation; Circulation Research; Clinical Science; European Journal of Pharmacology; FASEB Journal; Journal of Applied Physiology, Journal of Cardiovascular Pharmacology; Journal of Pharmacological Methods; Journal of Cerebral Blood Flow and Metabolism; Hypertension; Journal of Diabetes and Its Complications :Journal of Pharmacology and Experimental Therapeutics; Journal of Urology; Pharmacology and Therapeutics; Journal of Vascular Research, Stroke, Microvascular Research, Life Sciences, Urological Research, Current Medicinal Chemistry-Cardiovascular and Hematological Agents, Trends in Cardiovascular Medicine.

Heart and Stroke Foundation of Canada.

Medical Research Council of Canada (Committee Member, Cardiovascular A and C Committees).

Burroughs Wellcome Foundation, UK

The Kidney Foundation of Canada

Reviewer “Internal Review of CIHR Grant Applications” ---UBC applications for CIHR Operating Grant Competition

(g) External examiner (indicate universities and dates)

<u>External Examiner:</u>	Ph.D. Thesis for Ms. Vivian Pijuan (University of Miami, Department of Pharmacology, 1990).
<u>University Examiner:</u>	Ph.D. Thesis for Mr. James Hennen (University of British Columbia, Faculty of Pharmaceutical Sciences, 2000).
<u>University Chair:</u>	Ph.D. Thesis for Mr. Robbin B Burns (The University of British Columbia, Faculty of Pharmaceutical Sciences, 2000)
<u>University Chair:</u>	Ph.D. Thesis for Ms. Lucie Marzban (Department of Pharmacology, Faculty of Pharmaceutical Sciences, 2001).
<u>University Chair:</u>	Ph.D. Thesis for Ms. Donna Lang (Department of Neuroscience, Faculty of Medicine, 2002)
<u>University Chair:</u>	Ph.D. Thesis for Mr. Sam Au Yeung (The University of British Columbia, Division of Pharmaceutics and Biopharmaceutics, Faculty of Pharmaceutical Sciences, 2003).
<u>University Chair:</u>	Ph.D. Thesis for Ms. Donna Lang (Department of Mr. Tony Kelly, Department of Cellular and Physiological Sciences Faculty of Medicine, 2005)
<u>External Examiner:</u>	Ph.D. Thesis for Mr. Lai Ming Yung (Department of Physiology, The Chinese University of Hong Kong, 2008)

(h) Consultant (indicate organization and dates)

(i) Other service to the community

12. **AWARDS AND DISTINCTIONS**

Awards for Scholarship (indicate name of award, awarding organizations, date)

BC Scholars Award to China Travel Grant (2001-2002)
Japan Society for the Promotion of Science Fellowship Award (2002-2003)
UBC Faculty Certificate Program Teaching Scholarship (2005-2006)
Travel Award, University of Angers, France (2007-2007)

OTHER RELEVANT INFORMATION (Maximum One Page)

THESES WRITTEN:

1977: Myocardial Effects of Imidazole. (Partial requirement for B.Sc. (Hons) degree, Chelsea College, University of London, UK). Supervisors: Dr. J.H. McNeill (UBC), Dr. J. Botting and Dr. S. Hart.

1980: Species Differences in the Cardiac Effects of Histamine (Partial requirement for M.Sc. degree in Pharmacology, University of British Columbia). Supervisor: Dr. J.H. McNeill.

1983: A study of the relationship between the Chemical Sensitivity of Smooth Muscle and the Blood Pressure of Genetically Hypertensive Rats. (Partial requirement for Ph.D. degree in Pharmacology, Memorial University of Newfoundland). Supervisor: Dr. C.R. Triggle.

THE UNIVERSITY OF BRITISH COLUMBIA
Publications Record

SURNAME: LAHER FIRST NAME: Ismail DATE: 15 December 2008

1. REFEREED PUBLICATIONS

(a) Journals

1. Laher I, McNeill JH (1979) Histamine responses in cat heart. *Proc West Pharmacol Soc* 22:419-421
2. Laher I, McNeill JH (1980) Effects of 2-(2-pyridyl) ethylamine (PEA) on the isolated guinea-pig heart. *Agents Actions* 10:417-421
3. Laher I, McNeill JH (1980) Effects of histamine on rat isolated atria. *Can J Physiol Pharmacol* 58:1114-1116
4. Laher I, McNeill JH (1980) Effects of histamine in the isolated kitten heart. *Can J Physiol Pharmacol* 58:1256-1261
5. Rodgers RL, Tenner TE, Laher I, McNeill JH (1980) Interactions of clonidine with chronotropic agents in isolated right atria. *Can J Physiol Pharmacol* 58:23-28,
6. Laher I, McNeill JH (1980) The effects of 2-(2-pyridyl) ethylamine (PEA) in the isolated guinea-pig heart. *Proc West Pharmacol Soc* 23:41-44
7. Laher I, Triggle CR (1984) The relationship between the elevated blood pressure of the spontaneously hypertensive rat and the chemical sensitivity of smooth muscle to adrenergic agents. *Can J Physiol Pharmacol* 62:94-100
8. Laher I, Triggle CR (1984) Pharmacological studies of smooth muscle from Dahl salt-sensitive and resistant rats. *Can J Physiol Pharmacol* 62:101-104
9. Sharma JN, Fernandez PG, Laher I, Triggle CR (1984) Differential sensitivity action of Dahl salt-sensitive and Dahl salt-resistant rats to the hypotensive action of acute nifedipine administration. *Can J Physiol Pharmacol* 62:241-243
10. Laher I, Triggle CR (1984) Blood pressure, lanthanum and norepinephrine-induced mechanical response in thoracic aortic tissue. *Hypertension* 6:700-708
11. Triggle CR, Laher I (1985) Introduction and a review of changes in vascular smooth muscle functions in hypertension: isolated tissue vs. in vivo studies. *Can J Physiol Pharmacol* 63:355-365
12. Bevan JA, Bevan RD, Laher I (1985) Role of α -adrenoceptors in vascular control. *Clin Sci* 68:83s-88s
13. Laher I, Bevan JA (1985): Alpha-adrenoceptor number limits response of some rabbit arteries to norepinephrine. *J Pharmacol Exp Ther* 233:290-297
14. Laher I, Bevan JA (1985) Evidence for functional α -adrenoceptors in rabbit basilar arteries. *Euro J Pharmacol* 119:17-21
15. Laher I, Khayal MA, Bevan JA (1986) Norepinephrine sensitive, phenoxybenzamine-resistant receptor sites associated with contraction in rabbit arterial but not venous smooth muscle: possible role in adrenergic neurotransmission. *J Pharmacol Exp Ther* 237:362-368

16. Laher I, Nishimura S, Bevan JA (1986) Prazosin antagonizes norepinephrine-contractions at low-affinity, non- α -adrenoceptor sites in arterial smooth muscle. *J Pharmacol Exp Ther* 239:846-852
17. Bevan JA, Laher I, Rowan R (1987) Some implications of the high intrasynaptic norepinephrine concentrations in resistance arteries. *Blood Vessels* 24:137-140,
18. Laher I, Bevan JA (1987) Protein kinase C activation selectively augments a stretch-induced, calcium dependent tone in vascular smooth muscle. *J Pharmacol Exp Ther* 242:566-572
19. Bevan JA, Duckworth J, Laher I, Oriowo MA, McPherson GA, Bevan RD (1987): Sympathetic control of cerebral arteries: Specialization in receptor type, reserve, affinity and distribution. *FASEB J* 1:193-198
20. Laher I, Hwa JJ, Bevan JA (1998) Calcium and vascular myogenic tone. *Ann N Y Acad Sci* 522:216-225
21. Nelson MT, Laher I, Worley J (1998) Membrane potential regulates dihydropyridine inhibition of single calcium channels and contraction of rabbit mesenteric artery. *Ann N Y Acad Sci* 522:47-50
22. Laher I, van Breemen C, Bevan JA (1998) Evidence for a stretch-activated Ca^{2+} -influx pathway in myogenically active vessels. *Circ Res* 63:669-672
23. Laher I, Bevan JA (1989) Staurosporine, a protein kinase C inhibitor, attenuates Ca^{2+} -dependent stretch-induced vascular tone. *Biochem. Biophys. Res. Commun.* 158:58-62
24. Laher I, Germann P, Dowd AL, Bevan JA (1989) The selective potentiation of noradrenaline-induced tone by Bay K 8644 in rabbit basilar artery. *J Cereb Blood Flow Metabol* 9:759-764
25. Laher I, Bevan, JA (1989) Stretch of vascular smooth muscle activates tone and $^{45}Ca^{2+}$ influx. *J Hypertension* 7:517-520
26. Bevan JA, Kaminow L, Laher I, Thompson LP (1989). Pharmacology of TA-3090 (8-chloro diltiazem) related to its cerebrovascular protective properties. *Circulation* 80 (Suppl. IV): 178-183
27. Laher I, Vorkapic P, Dowd AL, Bevan JA (1989) Protein kinase C potentiates stretch-induced cerebral artery tone by increasing intracellular sensitivity to Ca^{2+} . *Biochem Biophys Res Commun* 165:312-318
28. Laher I, Thompson LP, Gagne L (1990) Protein kinase C as a modulator of response amplification in vascular smooth muscle. *Blood Vessels* 27:333-340,
29. Osol G, Laher I, Cipolla M (1991) Protein kinase C modulates basal myogenic tone in resistance arteries from the cerebral circulation. *Circ Res* 68:359-367
30. Bevan JA, Laher I (1991) Pressure and flow-dependent vascular tone. *FASEB J* 5:2267-2273
31. Germann P, Laher I, Bevan JA (1991) Platelets augment rabbit cerebral artery constriction by activating protein kinase C. *Stroke* 22:1534-1540
32. Henrion D, Laher I, Laporte R, Bevan JA (1992) Angiotensin II amplifies arterial contractile responses to norepinephrine without increasing Ca^{2+} -influx: role of protein kinase C. *J Pharmacol Exp Ther* 261:835-840
33. Henrion D, Laher I, Bevan JA (1992) Intraluminal flow increases vascular tone and $^{45}Ca^{2+}$ -influx in the rabbit facial vein. *Circ Res* 71:339-345
34. Henrion D, Laher I, Laporte R, Bevan JA (1992) Further evidence from an elastic artery that angiotensin II amplifies noradrenaline-induced contraction through activation of protein kinase C. *Eur J Pharmacol* 224:13-20

35. Henrion D, Laher I (1993) Potentiation of the norepinephrine-induced contraction by endothelin I in the rabbit aorta. *Hypertension* 27:78-83
36. Henrion D, Laher I (1993) Differential effects of staurosporine and calphostin C, two structurally unrelated inhibitors of protein kinase C on vascular tone. *Can J Physiol Pharmacol* 71:521-524.
37. Osol G, Kelley M, Laher I (1993) Myogenic tone is coupled to G protein and phospholipase C activation in small cerebral arteries. *Am J Physiol* 265:H415-H420
38. Henrion D, Laher I, Klaasen A, Bevan JA (1994) Myogenic tone in rabbit facial vein and posterior cerebral artery is influenced by small changes in extracellular sodium. *Am J Physiol* 266:H377-H383
39. Laporte R, Haerberle J, Laher I (1994) Phorbol ester-induced potentiation of myogenic tone is not associated with an increase in $^{45}\text{Ca}^{2+}$ influx in 20-kDa myosin light chain phosphorylation. *J Mol Cell Cardiol* 26:297-302
40. Henrion D, Laher I (1994) Insulin potentiates norepinephrine-induced vascular tone by activation of protein kinase C and tyrosine kinase. *Can J Physiol Pharmacol* 72:849-854
41. Laher I, Germann P, Bevan JA (1994) Neurogenically evoked cerebral artery constriction is mediated by NPY. *Can J Physiol Pharmacol* 72:1086-1088.
42. Germann P, Laher I, Poseno T, Bevan JA (1994) Barbiturate attenuation of agonist affinity in cerebral arteries correlates with anesthetic potency and lipid solubility. *Can J Physiol Pharmacol*. 72:963-969
43. van Breeman C, Chen Q, Laher I (1995) The superficial buffer barrier function of smooth muscle sarcoplasmic reticulum. *Trends Pharmacol Sci* 16:98-105
44. Laher I, Thorin-Trescases N, Ding A, Laporte R, Osol G (1995) Alpha-toxin selectively impairs endothelial-dependent vasodilator responses. *Can J Physiol Pharmacol* 73:1669-1673
45. Xie H, Laher I, Bevan JA (1996) Intracellular Ca^{2+} release in flow-induced contraction of venous smooth muscle. *Hypertension* 26:1051-1055
46. Xie H, Laher I, Bevan JA (1996) Protein kinase C modulates flow-initiated contraction. *J Pharmacol Exp Ther*. 279: 668-674
47. Henrion D, Laher I, Bevan JA (1007) Small changes in extracellular sodium influences myogenic tone in rabbit facial vein without modifying calcium influx. *Life Sci* 60: 743-749
48. Verma S, Skarsgard P, Bhanot S, Yao L, Laher I, McNeill JH (1997) Reactivity of mesenteric arteries from fructose hypertensive rats to endothelin-1. *Am J Hypertens*10:1010-1019
49. Rahimian R, van Breemen C, Karkan D, Dube G, Laher I (1997) Estrogen augments cyclopiazonic acid mediated, endothelium dependent vasodilation. *Eur J Pharmacol* 327: 143-149
50. Skarsgard P, van Breemen C, Laher I (1997) Estrogen regulates myogenic tone in pressurized cerebral arteries by enhanced basal release of nitric oxide. *Am J Physiol* 273: H2248-H2256
51. Rahimian R, Laher I, Dube G, van Breemen C (1997) Estrogen and the selective estrogen receptor modulator, LY 117018 enhance the release of nitric oxide in rat aorta. *J Pharmacol Exp Ther* 283:116-122
52. Laporte R, Laher I (1997) The sarcoplasmic reticulum as a modulator of Ca^{2+} entry in vascular smooth muscle. Invited Review. *J Vasc Res* 34:325-343

53. van Breemen C, Skarsgard P, Laher I, McManus BM, Wang X (1997) Endothelium-smooth muscle interactions in blood vessels. *Clin Exp Physiol Pharmacol* 24: 989-992.
54. Verma S, Arikawa E, Yao L, Laher I, McNeill JH (1998) Insulin-induced vasodilation is dependent upon tetrahydrobiopterin synthesis. *Metabolism* 47:1037-1039
55. Lam E, Skarsgard P, Laher I (1998) Inhibition of myogenic tone by mibefridil in rat cerebral arteries. *Eur J Pharmacol* 358:165-168
56. Skarsgard P, McManus BM, van Breemen C, Laher I (1998) Endothelium-smooth muscle interaction in cardiac transplantation. *Clin Exp Pharmacol Physiol* 25:836-840
57. Skarsgard P, Wang X, McDonald P, McManus BM, van Breemen C, Laher I (2000) Profound inhibition of myogenic tone in rat cardiac allografts is due to eNOS- and iNOS- based nitric oxide, and an intrinsic defect in vascular smooth muscle contraction. *Circulation* 101:1303-1310
58. Lagaud GJL, Skarsgard PL, Laher I, van Breemen C (1999). Heterogeneity of endothelium-dependent vasodilation in pressurized cerebral and small mesenteric resistance arteries of the rat. *J Pharmacol Exp Ther* 290:832-839
59. Lagaud GJL, Lam E, Lui A, van Breemen C, Laher I (1999) Nonspecific inhibition of myogenic tone by PD 98059, a MEK 1 inhibitor, in rat middle cerebral arteries. *Biochem. Biophys. Res. Comm.* 257:523-527
60. Laporte R, Laher I (1999). Sarcoplasmic reticulum and endothelium independently regulate venous smooth muscle Ca²⁺ and contraction. *Am J Physiol* 277:H749-H755
61. Lui AH, McManus BM, Laher I (2000) Endothelial and myogenic regulation of coronary artery tone in the mouse. *Eur J Pharmacol* 410: 25-31
62. Laher I, Zhang JH (2001) Protein kinase C and cerebral vasospasm. Invited Review. *J Cereb Blood Flow Metab* 21: 887-906
63. Lagaud G, Karicenti V, Knot H, Christ GJ, Laher I (2002) Inhibitors of gap junction activity attenuate myogenic tone in cerebral arteries. *Am J Physiol.* 283:H2177-H2186
64. Liang W, Afshari K, Stothers L, Laher I (2002) The influence of ovariectomy and estrogen replacement on voiding patterns and muscarinic receptor affinity in the female rat detrusor. *Life Sciences* 71:351-362
65. Petersen HH, Choy J, Stauffer B, Afshari FM, Aalkjaer C, Leinwand L, McManus BM, Laher I (2002) Coronary artery myogenic response in a genetic model of hypertrophic cardiomyopathy. *Am J Physiol* 283:H2244-H2249
66. Lagaud G, Gaudereault N, Moore EDW, van Breemen C, Laher I (2002) Pressure dependent myogenic constriction of cerebral arteries occurs independently of voltage activation. *Am J Physiol* 283:H2187-H2195
67. Momose K, Matsuda T, Oike M, Obara K, Laher I, Suguira S, Ohata H, Nakayama K (2003) Regulatory role of mechanical stress response in cellular function: development of new drugs and tissue engineering. *Nippon Yakurigaku Zasshi.* 121:103-111
68. Chan H, Loughheed M, Laher I, Steinbrecher UP (2003) Oxidized LDL inhibits endothelium-dependent vasodilation by an antioxidant-sensitive lysophosphatidylcholine-independent mechanism. *J Cardiovasc Pharmacol* 41: 856-865.

69. Moien-Afshari F, Kenyon E, Choy JC, Battistini B, McManus BM, Laher I (2003) Long-term effects of ovariectomy and estrogen replacement treatment on endothelial function. *Maturitas* 45:213-233.
70. Moien-Afshari F, McManus BM, Laher I (2003) Immunosuppression and Transplant Vascular Disease. Invited Review. *Pharmacol Therap* 100(2): 141-156
71. Stothers L, Laher I, Christ GT(2003) A review of the L-arginine –nitric oxide-guanylate cyclase pathway as a mediator of lower urinary tract physiology and symptoms. *Can J Urol* 10(5): 1971-1980
72. Okon EB, Szado T, Laher I, McManus BM, van Breemen C: Augmented contractile response of vascular smooth muscle in diabetic mouse model. *J Vasc Res* 43:39-47, 2003.
73. Moien-Afshari F, Choy JC, McManus BM, Laher I: Cyclosporine A treatment preserves coronary resistance artery function in rat cardiac allografts. *J Heart Lung Transplant.* 23(2): 193-203, 2004.
74. Choy JC, Lui AH, Wei K, Yanagawa B, McManus BM, Laher I: Coxsackievirus B3 infection compromises endothelial-dependent vasodilation of small coronary resistance arteries. *J Cardiovasc Pharmacol* 43:39-47, 2004.
75. Tsang SY, Yao X, Chan FL, Wong CM, Chen ZY, Laher I, Huang Y. Estrogen and tamoxifen modulate cerebrovascular tone in ovariectomized female rats. *Hypertension* 44: 78-82, 2004.
76. Moien-Afshari F, Skarsgard PL, McManus BM, Laher I (2004) Cardiac transplantation and resistance artery myogenic tone. Invited Review. *Canadian Journal of Physiology and Pharmacology* 82: 840-848.
77. Laporte R, Hui A, Laher I (2004). Pharmacological modulation of sarcoplasmic reticulum function in smooth muscle. Invited Review. *Pharmacological Rev* 56: 439-513.
78. Bai N, Moien-Afshari F, Washio H, Min A, Laher I. Pharmacology of the mouse isolated cerebral artery. *Vascular Pharmacology* 41: 97-106, 2004.
79. Bai N, Lee H-C, Laher I (2005) Emerging role of cADPR in smooth muscle function. *Pharmacology and Therapeutics* 105: 189-207.
80. Laher I, Mulvany M, Henrion D (2005). Meeting report: Highlights of the 8th International Symposium on Resistance Arteries. *American Journal of Physiology* 288: H1000-H1003.
81. Nishizawa S, Laher I (2005) Signaling mechanisms in cerebral vasospasm. Invited review for *Trends in Cardiovascular Medicine* 15:24-34. *Cover of journal*
82. Knot HJ, Laher I, Sobie EA, Guatimosim S, Gomez-Viquez L, Hartmann H, Song L-S, Lederer WJ, Graier WF, Malli R, Frieden M, Petersen OH (2005). 20 Years of Calcium Imaging: A Revolution in Cell Physiology to Dye For. *Molecular Interventions.* 5:112-127 *Cover of journal*
83. Hunter AL, Bai N, Laher I, Granville DJ (2005) Cytochrome P₄₅₀ inhibition reduces post-ischemic vascular dysfunction. *Vascular Pharmacology.*43:213-219.
84. Wong CM, Yao X, Au CL, Tsang SY, Fung KP, Laher I, Vanhoutte PM, Huang Y (2006) Raloxifene prevents endothelial dysfunction in aging ovariectomized female rats. *Vasc Pharmacol* 44: 290-298
85. Bai, N, Khazaei M, van Eeden SF, and Laher I (2007). The Pharmacology of Particulate Matter Air Pollution-induced Cardiovascular Dysfunction. *Pharmacology and Therapeutics* 113: 16-29

86. Leung, H-S, Yung LM, Leung, F-P, Yao, X, Chen, Z-Y, Ko WH, Laher, I, Huang, Y (2006) Tamoxifen dilates porcine coronary arteries: roles for nitric oxide and ouabain sensitive mechanisms *Br. J. Pharmacol.* 149: 703-711.
87. Rahman MM, Elmi S, Chang TKH, Bai N, Sallam NA, Lemos VS, Moien-Afshari F, Laher I (2006) Increased vascular contractility in isolated vessels from cigarette smoking rats is mediated by basal endothelin release. *Vasc Pharmacol* 45: 35-42.
88. Baxter KA, Laher I, Church, J, Hsiang YH (2006) Acidosis augments myogenic constriction in rat coronary arteries. *Ann Vasc Surg.* 20:630-637
89. Tsang SY, Yao X, Chan HY, Chan FL, Leung C S-L, Yung LM, Au C L, Chen Z-Y, Laher I, Huang Y. (2007) Tamoxifen and estrogen attenuate enhanced vascular reactivity induced by estrogen deficiency in rat carotid arteries. *Biochem Pharmacol* 73: 1330-1339
90. Okon EB, Chung AWY, Zhang H, Laher I, van Breemen C (2007) Hyperglycemia and hyperlipidemia are associated with endothelial dysfunction during the development of type 2 diabetes. *Can J Physiol Pharmacol* 85: 562-567
91. Leung, FP, Yung LM, Leung, HS, Au CL, Yao, X, Vanhoutte PM, Laher, I, Huang, Y (2007) Therapeutic concentrations of raloxifene augment nitric oxide-dependent coronary artery dilation *Brit J Pharmacol* 152: 223-229.
92. Rahman M, Laher I (2007). Structural and functional alteration of blood vessels caused by cigarette smoking: An overview of molecular Mechanisms. *Current Vasc Pharmacol* 5:276-292
93. Gaudreault N, Scriven DRL, Laher I and Moore EDW (2008) Subcellular characterization of glucose uptake in coronary endothelial cells. *Microvasc Res.* 75: 73-82.
94. Leung FP, Yung LM, Yao, X, Laher I, Huang Y (2007) Store-operated calcium entry in vascular smooth muscle. *Br J Pharmacol* 153: 846-857
95. Elmi S, Sallam NA, Rahman MM, Rahman, Teng X, Hunter AL, Moien-Afshari F, Khazai M, Granville DJ, Laher I (2008) Sulfaphenazole treatment restores endothelium-dependent vasodilatation in diabetic mice. *Vasc. Pharmacol.* 48: 1-8
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3. **BOOKS**

Book Chapters

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