

**McGill University  
Faculty of Medicine**

**Curriculum Vitae for Promotion  
Considerations**

**Louise Larose Ph.D.  
Associate Professor**

**Date of Last Revision: March 2008**

## A. Identification

**Name** Louise Larose  
**Office Address** Polypeptide Laboratory  
McGill University  
Strathcona Building Room W315  
3640 University St.  
Montreal, Qc H3A 2B2  
**Telephone** 514-398-5844  
**Fax** 514-398-3923  
**e-mail** [louise.larose@mcgill.ca](mailto:louise.larose@mcgill.ca)

## B. Education

<u>Year</u>	<u>Degree</u>	<u>University, Location</u>	<u>Faculty, Department</u>
-------------	---------------	-----------------------------	----------------------------

### Undergraduate

1971-74	B.Sc.	Sherbrooke, Sherbrooke Canada	Sciences, Biology
---------	-------	----------------------------------	-------------------

### Graduate

1974-76	M.Sc.	Sherbrooke, Sherbrooke Canada	Sciences, Biology
---------	-------	----------------------------------	-------------------

**Title:** Étude de la sensibilité du pancréas de rat aux cholinergiques au cours de son développement. Effet de l'acétate de corticostérone.

**Supervisor:** Dr. Jean Morisset, Laboratoire des Mécanismes des Sécrétion  
Université de Sherbrooke, Sherbrooke.

1988-1992	Ph.D.	Montreal, Quebec	Medicine, Pharmacology
-----------	-------	------------------	------------------------

**Title:** Modulation des propriétés du récepteur du facteur natriurétique (ANF-R<sub>1</sub>) par effet allostérique et phosphorylation.

**Supervisor:** Dr. André DeLéan, IRCM, Université de Montréal, Montréal

### Postgraduate

1992-95	Ph.D. Fellow	Mount Sinai Hospital, Toronto Ontario, Canada	Molecular Biology
---------	--------------	--------------------------------------------------	-------------------

**Supervisor:** Dr Tony Pawson

## C. Appointments

2004-present	Associate Professor, Medicine, McGill University
2000-present	Associate Member, Department of Physiology, Medicine, McGill University
1995-present	Member, Division of Experimental Medicine, Medicine, McGill University
1995-2004	Assistant Professor, Medicine, McGill University
1978-1988	Research Assistant, Department of Biology, Sciences, Sherbrooke University. Supervisor: Dr. J. Morisset
1976-1978	Research Assistant, Department of Gastroenterology, Medicine, Sherbrooke University. Supervisor: Dr. H. Navert

## D. Formation

2007	Improving Graduate Supervision Teaching and Learning Services (TLS) McGill University
------	---------------------------------------------------------------------------------------------

## E. Special Honors, Awards and Recognition

### *Awards, Fellowships and Personal Support Awards*

From 1988 to 1995, my Ph.D. and post-doctoral training have been supported by the Medical Research Council of Canada. From 1995 to 2003 and 2004-2011, my salary has been supported by the Medical Research Council of Canada, the “Société de Recherches sur le Cancer” and the FRSQ.

2007-2011	<b>FRSQ</b> , Chercheur National
2004	Special Award, Medicine Faculty, McGill University
2004-2007	<b>FRSQ</b> Scholarship, Senior
2001-2003	<b>FRSQ</b> Scholarship, Junior 2
1996-2001	Scholarship, <b>Société de recherches sur le cancer inc. et MRC</b>
1996-2001	Scholarship, <b>Canadian Diabetes Association</b> (declined)
1996-1999	<b>FRSQ</b> , Chercheur Boursier (declined)
1995-1998	Scholarship, <b>Fraser, Monat and McPherson Foundation</b> (declined)
1995	Scholarship, <b>Royal Victoria Hospital</b> (declined)
1992-1995	<b>MRC</b> , Postdoctoral Fellowship
1992-1995	<b>FRSQ</b> , Postdoctoral Fellowship (declined)
1988-1992	<b>MRC</b> , Graduate Study Fellowship
1990	Award of the <b>Canadian Pharmacology Society</b>
1987	<b>FCAR</b> , Graduate Study Fellowship
1987	<b>NSERC</b> , Graduate Study Fellowship
1975	Air Canada Fellowship
1975	<b>MEQ</b> , Graduate Study Fellowship
1973	Imperial Oil Company, Summer Student Fellowship

## ***Recognition***

- 2008-2007 **Scientific Consultant** at Perkin Elmer, Montreal, Canada  
**Judge**, Physiology Research Day (presentations and posters), McGill University. May 11, 2007
- 2007 **Judge**, Endocrine Division Retreat (best presentations and publications), McGill University. April 24, 2007
- 2003-05 **Ad hoc External Review**, CIHR, Operating grant Metabolism Committee  
2004 **Ad hoc External Review**, CIHR Operating grant Cancer A Committee  
2003 **Chair**, Signalisation Québec. Québec  
2003 **Ad hoc External Review**, CIHR Grant Application  
2002 **Judge**, Annual McGill Graduate Biomedical Conference, McGill University, Montreal
- 2002-2001 **Ad hoc External Review**, NSERC Grant Application  
**Judge**, Annual McGill Graduate Biomedical Conference, McGill University, Montreal
- 2000 **Ad hoc External Review**, NSERC Grant Application  
1999 **Judge**, IRCM Research Day, Montreal  
1999 **Judge**, Experimental Medicine Annual Research Seminar Day  
1997 **Judge**, Experimental Medicine Annual Research Seminar Day.  
1997 **Ad hoc External Review**, FRSQ, Chercheur-boursier junior 2  
1997 **Ad hoc External Review**, MRC  
1997 **Ad hoc External Review**, Programme de Soutien aux équipes de recherche du Fonds FCAR
- 1996 **Chair**, Signalisation Moléculaire. ACFAS

## **F. Teaching Activities**

At the moment, my teaching activities include **24-30 hours/year** in different Departments at McGill University and **3 hours every second year** at the Faculty of Pharmacy of the University of Montreal. Overall, my teaching is distributed equally between undergraduate and graduate courses.

### ***1. Courses: (Total hours: approximately 30-36 hours/year)***

- 2007-present EXSU684 Signal Transduction 2 hours/year  
Department of Surgery, McGill University
- 2003-present Cytokines, chimiokines et facteurs de croissance 3 hours/2 years  
Graduate course on Receptors and Signaling, Cours Cycle Supérieur PHM 6034  
Faculté de Pharmacie, Université de Montréal

2002-present	Molecular and Cell Biology Topics EXMD 616A Experimental Medicine Dept., McGill University Lecture and Seminar evaluation	2.5 hours/year
2002	Issues in Biomedical Research 519-605B Experimental Surgery Department, McGill University Lecture on the techniques of grant writing.	3 hours
2001-present	Tutorial in Physiology for honours Students 552-359D Physiology Department, McGill University 2001-02 Mentor for Ms. Ilana Sanderson 2002-03 Mentor for Mr. Carl Huynh 2003-04 Mentor Jean-Sébastien Ménard 2005-06 Paul Bastianelli 2007-08 Adiba Azad	2hours/month (8months)
2001-present	Advanced Endocrinology 516-503A Experimental Medicine Department, McGill University Lecture on Receptors tyrosine kinase. This course is offered to undergraduate and graduate students.	1.5 hours/year
2000-2006	Cancer & Oncology Faculty of Medicine, McGill University Instructor for small group teaching session on cancer and oncogenes	3 hours/year
1999-2004	Back to Basic, Seminar course Anatomy and Cell Biology Department, McGill University Interactive lectures on Molecular Biology techniques and applications presented to medical students	6 hours/year
1997-present	Advanced Topics in Cellular and Molecular Physiology 552-552B Physiology Department, McGill University Graduate course to 10-12 students. Topics discussed are receptors for growth factors and cytokines, characteristics and signaling.	9 hours/year
1996-2001	Advanced Endocrinology 516-503A Experimental Medicine Department, McGill University Two lectures on Receptors tyrosine kinase and G protein-coupled receptors. This course is offered to undergraduate and graduate students.	3 hours/year
1994-2007	Pharmacologie Moléculaire PHM 2320 Faculté de Pharmacie, Université de Montréal First year Pharmacy students. Introduction to the various membrane receptors and their biological functions.	3 hours/year

## ***2. Research Trainees Supervised or Under Supervision***

### **Graduate students**

#### **Ph.D.**

Sem Kebache	Exp. Med. Dept., McGill Univ.	1997- 02	Ph.D. 2003
Eric Cardin	Exp. Med. Dept., McGill Univ.	2002-	
Mathieu Latreille	Exp. Med. Dept., McGill Univ.	2003-07	Ph.D. 2007
Aude Picard-Cloutier	Physiology Dept., McGill Univ.	2006-07	Withdraw
Reyhaneh Salehi Tabar	Exp. Med. Dept., McGill Univ.	2008-	

#### Co-Supervision

Rosemarie Gauthier	Exp. Med. Dept., McGill Univ.	2007-	
--------------------	-------------------------------	-------	--

#### **M.Sc.**

Nadia Cardillo Marricco	Exp. Med. Dept., McGill Univ.	1996-98	M.Sc. 1998
Rossella Norma Oliva	Exp. Med. Dept., McGill Univ.	2000-03	M.Sc. 2004
Salma Ismail	Physiology Dept., McGill Univ.	2006-07	M.Sc. 2007
Marie-Kristine Laberge	Exp. Med. Dept., McGill Univ.	2007-	

#### Co-Supervision

Mélissa Labelle-Côté	Biol. Mol., Univ. of Montréal	2007-	
----------------------	-------------------------------	-------	--

### **Summer students**

Nadia Cardillo Marricco	Biochemistry, McGill Univ.	1995	
Zen Wong	Physiology, U. of Montreal	1996	
Patty Tsai	Physiology, McGill Univ.	2001	
Ilana Anderson	Physiology, McGill Univ.	2002	
Carl Huynh	Physiology, McGill Univ.	2003	
Adiba Azad	Physiology, McGill Univ.	2008	NSERC USRA

### **Undergraduate students (Research Credits part of the B.Sc. program)**

Jennifer Lee	Anatomy and Cell Biology, McGill	05/2003-09/2003	B.Sc. 2004
Annie Lacerte	Biotechnology, Sherbrooke	09/2000-01/2001	B.Sc. 2001
Yumi Lee	Anatomy and Cell Biology, McGill	05/2001-09/2001	B.Sc. 2002
Ilana Sanderson	552-359D Physiology, McGill	09/2001-05/2002	B.Sc. 2003
Carl Huynh	552-359D Physiology, McGill	09/2002-05/2003	B.Sc. 2004
Claire Fung	Anatomy and Cell Biology, McGill	09/2003-01/2004	B.Sc. 2004
Nadia Hourri	Biochemistry Dept., McGill	09/2004-05/2005	B.Sc. 2005
Jean-Séb. Ménard	Physiology Dept., McGill	09/2004-05/2005	B.Sc. 2005
Paul Bastianelli	Physiology Dept., McGill	09/2006-05/2007	B.Sc. 2007
Noor Mohamed	Physiology Dept., McGill	09/2006-05/2007	B.Sc. 2007

Co-supervision with Dr. Suhad Ali

### **Post-doctoral fellows**

Janice Boudreau	10/1995-12/1995
El Bachir Bioukar	03/1996-09/1998
Sandrine Palcy	02/1998-06/1998
Nacera Saadane	04/1999-10/1999

### ***3. Invited Lectures, Talks, and Presentations***

- 2008 Nck, impliqué dans la réponse du réticulum endoplasmique aux stress, joue un rôle important dans l'établissement de la résistance à l'insuline qui accompagne l'obésité. Signalisation Québec Juin 2008.
- 2008 Powerful Pancreatic Islets in Nck-1 knockout mice. Jewish General Hospital. Endocrine Rounds. March 20, 2008
- 2008 MDRC Retreat 2008 Mice lacking Nck-1 are protected from development of glucose intolerance secondary to obesity. January 11, 2008
- 2006 Centre de Recherche de l'Hôtel-Dieu de Québec, Québec. L'adaptateur Nck : un nouvel acteur de l'homéostasie glucidique. October 2006
- 2006 Endocrine Division, Faculty of Medicine, McGill University. Endoplasmic reticulum stress and glucose homeostasis. September 2006
- 2006 Dept. Physiological Chemistry. University of Ulm. Germany. The adaptor protein Nck, a new player in the regulation of the activity of the eukaryotic initiation factor eIF2.
- 2006 CRC in Molecular Endocrinology, RVH McGill University. Understanding the adaptor function of Nck. March 20, 2006
- 2005 Biotechnology Research Institute, Montreal, Qc  
The Unfolded Protein Response is regulated by the adaptor protein Nck.
- 2005 Centre de Recherche sur le Cancer, Hôpital Notre Dame, Montréal  
Un rôle pour Nck dans la réponse des cellules aux situations de stress.
- 2004 Un rôle pour l'adaptateur protéique Nck au niveau du réticulum endoplasmique. Département de Pharmacologie. Université de Montréal, Février 2004.
- 2003 Signalisation Québec, Juillet 2003, Québec  
L'adaptateur protéique Nck, pour le meilleur ou pour le pire.
- 2002 Centre de recherche de l'Hôtel-Dieu de Québec, Québec  
Modulation de la traduction protéique par l'adaptateur Nck
- 2002 Pharmacology & Toxicology Dept. University of Western Ontario, London, Ontario.  
Casein Kinase I- $\gamma$ 2: A function in actin dynamics and cell proliferation.
- 2002 Lady Davis Institute, Jewish General Hospital, McGill University, Montreal, Quebec  
Nck, a modulator of protein translation.
- 2001 Centre de Recherche de l'Hôpital Sainte-Justine, Montreal, Quebec  
L'isoforme gamma 2 de la caséine kinase I module l'organisation du cytosquelette et la prolifération cellulaire.

- 2001 Colloque sur la Signalisation Cellulaire, ACFAS. Sherbrooke, Quebec.  
Nck, une protéine adaptatrice composée de domaines SH, est impliquée dans la régulation traductionnelle de la synthèse protéique.
- 1999 Anatomy and Cell Biology Department, McGill University. Montreal. Nck-mediated signaling: negative or positive.
- 1999 Royal Victoria Hospital, Cardiovascular Division. Montreal. Role of Nck in PDGF receptor regulation.
- 1999 Physiology Department, McGill University. Montreal. Regulation of the  $\beta$ -PDGF receptor activity by Casein Kinase I- $\gamma$ 2, a binding partner of the adaptor protein Nck.
- 1999 Royal Victoria Hospital, Medicine Dept. Spring Research Day. Montreal. Regulation of the Platelet-Derived Growth Factor Receptor (PDGFR) Activity by Casein Kinase I- $\gamma$ 2.
- 1998 McGill Cancer Centre. Montreal. PDGF-dependent serine phosphorylation of the PDGF receptor by Casein Kinase I- $\gamma$ 2.
- 1998 Conference on Signalling and Cancer Cells, Banff, Canada
- 1997 Montreal Children Hospital. Montreal. The exciting world of Nck: A Popular Adaptor Protein.
- 1996 Research Workshop, Lady Davis Institute, Jewish General Hospital. Montreal. Protein Domain Mapping.
- 1996 Bristol-Myers Squibb Seminar. Pharmacology Department, University of Sherbrooke. Identification d'une protéine kinase de type caséine kinase I associée à Nck.
- 1996 Biochemistry Department, McGill University. Identification of a serine/Threonine protein kinase associated with Nck.
- 1996 Royal Victoria Hospital, McGill University. Association of serine/Threonine protein kinase with Nck.
- 1996 Signal Transduction Group, McGill University. Functions of the Nck adaptor protein in signal transduction.
- 1996 McGill Endocrine Retreat. A Casein Kinase I activity is constitutively associated with Nck.
- 1996 Congrès de l'ACFAS. Montreal. Identification d'une serine/thréonine kinase associée aux domaines SH3 de Nck.
- 1996 Club de Recherche Clinique du Québec. Manoir Richelieu, Pointe au Pic, Québec. Identification d'une serine/thréonine kinase constitutivement associée à Nck.
- 1995 Department Medicine Research Day. McGill University. Nck in Receptor Tyrosine Kinase Signaling.
- 1995 Anatomy and Cell Biology Department, McGill University. Analysis of the interaction between the platelet-derived growth factor receptor and phospholipase C gamma 1.

## G. Other Contributions

### Committees

- 2007-  
2007-2008 **Department of Experimental Medicine** Admission Committee  
**Organizer Committee**, Provincial Meeting, Signalisation Québec 11-13 Juin 2008 Québec

2007-2008 **MDRC Retreat 2008**, Montreal. Organizer Committee  
 2007-present **Exp. Med. Dept.**, McGill University Admission committee  
 2007-present **Environmental Health and Safety Committee.**  
 Anatomy, Dentistry & Polypeptide laboratory  
 2007-present **Academic Advisor**, Exp. Med. Dept., McGill University  
 2007-present **Genome Animal Facility Users Committee**, Polypeptide and Hormone  
 Laboratory representative  
 2004-2006 **Organizer Committee**, International Meeting on Cytoskeleton Dynamics,  
 Montreal June 2006  
 2006-2007 **DC Animal Care Committee**, Chair  
 Faculty of Medicine, McGill University  
 2002-2006 **Animal Care Committee**, Member  
 Faculty of Medicine, McGill University  
 2002 **Montreal Genetics Seminar Series**  
 McGill Cancer Centre. Co-Organizer  
 2001-2002 **McGill Cytoskeleton Club**  
 McGill Cancer Centre. Organizer  
 2001-2002 **Faculty of Graduate Studies and Research.**  
 Experimental Medicine Dept. Representative

### **Grant Reviews**

2007- **CIHR**, Cell Biology & Mechanisms of Diseases Committee  
 2003-2007 **CDA**, Canadian Diabetes Association, Grant Panel,  
 Internal Member, Committee B  
 2002, 2003 **CFI/FRSQ**, Canadian Foundation for Innovation  
 Fond de la Relève, Grant Panel  
 2001 **CIHR**, Cancer A Grant Panel, Regular member  
 2000-2001 **CIHR**, Cancer A Grant Panel, Regular member  
 2000 **CIHR**, Cancer A Grant Panel, Invited member  
 1999 **CIHR**, Cancer A Grant Panel, Invited member

### **Journal Reviews**

2007- **Editorial Board**, Cell Communication and Signaling. Online Journal  
 2007 **Ad hoc**, Molecular Biology of the Cell  
 2005 **Ad hoc**, Médecine-Sciences  
 2004-2007 **Ad hoc**, J. Biol. Chem.  
 2002 **Ad hoc**, Journal of Cellular Biochemistry  
 2000 **Ad hoc**, Canadian Journal of Diabetes Care  
 2000 **Ad hoc**, Oncogene  
 2000 **Ad hoc**, Biochemistry and Cell Biology  
 2000 **Ad hoc**, Canadian Journal of Diabetes  
 1995 **Ad hoc**, Gene

### **Fellowships Reviews**

- 2007 Exp. Med. Dept., McGill University. CIHR Studentship committee
- 2007 MDRC Travel Award Committee
- 2007-present RI MUHC Fellowships committee, McGill University
- 2006 MUHC, Endocrine Division Travel Award McGill University
- 2006-2008 FRSQ, Chair, Postdoctoral fellowship
- 2005 FRSQ, Vice Chair, Postdoctoral fellowship
- 2002 Experimental Medicine Department  
McGill Major and NSERC Applications  
McGill University
- 2000 IRCM, Montreal  
Internal Studentship Awards
- 1997-2000 Experimental Medicine Department  
McGill Major and NSERC Applications  
McGill University
- 1996-2001 Medicine Department  
McGill University

### **Graduate Students**

#### **Ph.D. Thesis**

- 2008 Simona M. Wagner, A Role for the Ste20-like Kinase, SLK, in Cell Migration. Supervisor; Dr. Luc Sabourin, University of Ottawa.
- 2008 Eric Danek, Characterization of regulatory mechanisms of CdGAP, a negative regulator of the small GTPases Rac1 and Cdc42. Supervisor: Dr. Nathalie Lamarche-Vane. McGill University
- 2007 Yuhong Wei, Supervisor Dr Cynthia Goodyear Exp. Med. Dept. McGill University. Representing the Departmental Chair
- 2007 Katherine Robertson, The role of the growth hormone/IGF-I system on islet cell growth and insulin action. Supervisor Dr Jun-Li Liu. Exp. Med. Dept. McGill University. Internal Examiner.
- 2006 Annie Lacerte, Molecular mechanisms and signal transduction pathways induced by Transforming Growth Factor-beta for transcriptional repression of target genes. Supervisor Dr. Jean-Jacques Lebrun. Exp. Med. Dept., McGill University, Internal Examiner.
- 2006 Simon Joubert, Mécanismes moléculaires de régulation de l'activité du récepteur A des peptides natriurétiques. Superviseur Dr. André De Léan. Dépt. Pharmacologie, Université de Montréal, Examineur externe.

- 2006 Marie-Claude Gingras, Régulation de l'activité cytotoxique de AD2 E4ORF4 par phosphorylation sur tyrosine. Superviseur Dr. Josée Lavoie. Centre de Recherche de l'Hôtel-Dieu de Québec, Université Laval. Examineur externe.
- 2006 Maya Khairallah, Supervisor Dr Christine DesRosiers, Exp. Med. McGill University, External Examiner.
- 2006 Svetlana Pidasheva, Supervisor Dr. Geoffrey Hendy. Exp. Med. McGill University, Member
- 2006 Yarong Lu, Supervisor J.L. Liu, Exp. Med. McGill University, Member
- 2005 Parham Minoo, Supervisor Dr. Suhad Ali, Exp. Med. McGill, Jury Member
- 2005 Yinglun Shengs, Supervisor Dr. Johné Liu, Université d'Ottawa. Jury Member
- 2005 Krikor Bijian, Supervisor: Dr. A. Cybulski. Jury Member, Exp. Med. Dept. McGill University
- 2005 Ahmad Zahabi, Supervisor: Dr. C. Descheper, IRCM. Jury Member
- 2004 Alexandre Angers-Lousteau. Supervisor : Dr. Rolando Del Maestro. McGill University Jury Member
- 2004 Nizar Chetoui, Supervisor : Dr Jean Charron, Université Laval, Jury Member
- 2003 Magdalena. H. Maslowska, Supervisor: Dr. K. Cianflone, Exp. Med. Div., McGill University, Jury Member
- 2003 Mei. Kong, Supervisor: Dr. B.I. Posner, Exp. Med. Div., McGill University, Montreal. Jury Member
- 2003 L. Wu, Supervisor: Dr. S.-H. Shen, Exp. Med. Div. McGill University, Montreal. Jury Member.
- 2002 Y. Guo, Supervisor: Dr. S. Rabbani, Exp. Med. Div., McGill University, Montreal. Jury Member.
- 2001 A.-C. Gingras, Supervisor: Dr. N. Sonenberg, Biochem. Dept., McGill University, Montreal. Jury Member.
- 2000 H. Ngan\_Ha Wong, Supervisor: Dr. J.J.M. Bergeron, Anatomy and Cell Biology Dept. McGill University. Jury Member
- 1999 I. Murray, Supervisor: Dr. K. Cianflone, Exp. Med. Div. McGill University. Jury Member
- 1999 P. Allard, Supervisor: Dr. S. Chevalier, Biochem. Dept. University of Montreal, Montreal. Jury Member.
- 1999 D.M. Kamikura, Supervisor: Dr. M. Park, Molecular Oncology Group, McGill University, Montreal. Jury Member.
- 1998 J.-F. Cloutier, Supervisor: Dr. A. Veillette, Biochem. Dept., McGill University, Montreal. Jury Member.
- 1996 A. Charest, Supervisor: Dr. Michel Tremblay, Biochem. Dept., McGill University, Montreal. Jury Member.
- 1996 R. Fenrick, Supervisor: Dr. A. DeLéan, Pharmacol. Dept. University of Montreal, Montreal. Jury Member.

## Master's Thesis

- 2007 Raphaëlle Stenne, La protéine adaptatrice Gab1 est requise pour la migration et le réarrangement adéquat du cytosquelette des cellules endothéliales en réponse au VEGF  
Université de Montréal
- 2007 Houda Jallal, A Src-Abl kinases inhibitor SKI-606, blocks breast cancer invasion, growth and metastasis *in vitro* and *in vivo*. Exp. Med. Dept. McGill University, Internal Examiner
- 2005 Helen Legakis, Exp. Med. McGill University
- 2004 M. Wu, Dept. of Biology, McGill University, Internal Examiner
- 2004 Matthew Porter Carroll, McGill University, Internal Examiner
- 2003 X. Y. Li, Anatomy and Cell Biology, McGill University. External Examiner
- 2003 L. Hatahet, Medicine Div., McGill University. External Examiner
- 2002 L. Ivanisevic, Pharmacology and Therapeutics Dept., McGill University.  
External Examiner
- 2001 W. Rocha, Supervisor: Dr. P. Jolicoeur, Montreal University, Montreal.  
External Examiner.
- 2000 C. Kim, Supervisor: Dr. J.J. Lebrun, Exp. Med. Dept. McGill University, Montreal  
Internal Examiner.
- 1996 A. Gregorieff, Supervisor: Dr. A. Veillette, Biochem. Dept., McGill University,  
Montreal. Internal Examiner.

## Graduate Student Thesis Committees, Member

I regularly serve on graduate student committees for students from University of Montreal and McGill University.

- 2008- Jason Tan, M.Sc Student. Supervisor: Dr. A. Kristof, Exp. Med. Dept., McGill University
- 2008 Yanqing Xu, Ph.D. Student. Supervisor: Dr. Barry I. Posner, Exp. Med. Dept., McGill University
- 2008- Xiaoyong Liu, Supervisor: Dr. Francois Fagotto, Biology Dept., McGill University
- 2008- Zhenqian Feng, Ph.D. Student, Supervisor: Dr. Suhad Ali, Exp. Med. Dept., McGill University.
- 2008- Amber Zabarauskas, Ph.D. Student, Supervisor: Dr. Stéphane Richard. Exp. Med. Dept. McGill University.
- 2008- Sierra Delarosa, Ph.D. Student, Supervisor Dr. André Cybulski. Exp. Med. Dept., McGill University
- 2007- Erika Hooker, M.Sc Student. Supervisor Dr Serge Lemay. Exp. Med. Dept. McGill University
- 2007- Stéphanie Duhamel, Ph.D. Student. Supervisor Dr. Sylvain Meloche, IRIC Université de Montréal
- 2007- Ortal Attias, M.Sc. Student. Supervisor Dr Tomoko Takano. Exp. Med. Dept., McGill University

2007- Zhen Li, Ph.D. student. Supervisor: Dr. Shin-Hiang Shen, BRI and Exp. Med. Dept., McGill University

2007- Marisa G. Ponco, MD-Ph.D. student. Supervisor : Dr. Morag Park, McGill University, Montreal Qc. Predoctoral Exam

2006 Eric Carpentier, Ph.D. student. Supervisors: Drs. Michel Bouvier et Yves Durocher. BRI and University of Montreal, Qc. Predoctoral Exam

2006 Christophe Proulx, Ph.D. student Supervisor: Drs Gaetan Guillemette et Richard Leduc, Sherbrooke University, Sherbrooke, Qc. Predoctoral Exam

2005-2007 Carl Hyung, M.Sc Student. Dr A. Cybulski, McGill University

2005-2007 Atefeh Ghogha, Ph.D. Student. Dr Nathalie Lamarche-Vane, McGill University

2005 Nazi Torabi, Ph.D. Student. Dr Stéphane Richard, McGill University

2005- Lorrie Whitecombe, Ph.D. Student. Dr. Martin Olivier, Exp. Med. Dept. McGill University

2004 Simon Moore, Ph.D. Transfer, Dr T. Kennedy, McGill University

2004 Linhua Zhang, Ph.D. Student, Dr. Shen, McGill University

2004- Katie Robertson. Ph.D. Student, Dr. J.-J. Liu, McGill University

2003- Marie-Elaine Caruso, Ph.D. Student, Dr. Eric Chevet, McGill University

2003-2005 Gael Jean-Baptiste, M.Sc. Student, Dr. Michael Greenwood, McGill University

2002-2006 Delphine Fessart, Ph.D. student, Dr. Stephane Laporte, McGill University

2002-2006 Yarong Lu, Ph.D. student, Dr. J.-J. Liu, McGill University.

2002- Caroline Baril, Ph.D. student, Dr. M. Therrien, McGill University.

2002 Etienne Roussel, M.Sc. student, Dr. J.J.M. Bergeron, McGill University.

2002- Benjamin Turgeon, Pre-doctoral exam, Dr. S. Meloche, University of Montreal.

2001-2005 David Davidson, Ph.D. student, Dr. J.E. Anderson, McGill University.

2001 Strachan Hartley, Ph.D. student, Dr. S. Ali, McGill University.

2001-2006 Annie Lacerte, Ph.D. student, Dr, J.J. Lebrun, McGill University.

2001- Nelly Leung, Ph.D. student, Dr. N. Beauchemin, McGill University.

2001-2005 Leon Tourian Jr, Ph.D. student, Dr. C. Srikant, McGill University.

2000-2005 Krikor Bijian, Ph.D. Student Dr. A. Cybulsky, McGill University.

2000 Zhunan Xia, Pre-doctoral exam, Dr. K. Cianflone, McGill University.

2000-2004 Bassam Haidar, Ph.D. Student, Dr. J. Genest, Jr., University of Montreal.

2000-2004 Ahmad Zahabi, Ph.D. student, Dr. C. Deschepper, University of Montreal.

1999 Christie Kim, M.Sc. student, Dr. J.J. Lebrun, McGill University.

1999-2001 Louis Lamorthe, Ph.D. student. Dr. M. Park, McGill University.

1999-2003 Xiaodong Li, Ph.D. student, Dr. N. Lamarche-Vane, McGill University.

1999-2003 Magdalena Maslowska, Ph.D. student, Dr. K. Cianflone, McGill University.

1999-2002 Liangtan Wu, Ph.D. student, Dr, S.-H. Shen, McGill University.

1999 Andy Wong, Pre-doctoral exam, Dr. A. Koromilas, McGill University.

1999-2002 Samir Ali, Ph.D. student, Dr. S. Ali, McGill University.

1999-2003 Taiping Chen, Ph.D. student, Dr. S. Richard, McGill University.

1999-2003 Jean-Francois Côté, Ph.D. student, Dr. M. Tremblay, McGill University.

1997-2000 Hetty Ngan\_Ha Wong Ph.D. student, Dr. J.J. M. Bergeron, McGill University.

1996 Tanya Fournier, Pre-doctoral exam, Dr. M. Park, McGill University.

1995-99 Daren Kamikura, Ph.D. student, Dr. M. Park, McGill University

### *Undergraduate*

2007-2006-07	Physiology Honors Program Adiba Azad Physiology Dept. McGill University.
2006-07	Physiology Honors Program Co-Supervision. Noor Mohamed. Physiology Dept. McGill University.
2006-07	Physiology Honors Program. Paul Bastianelli. Physiology Dept. McGill University.
2004-05	Physiology Honors Program. Jean-Sébastien Ménard. Physiology Dept. McGill University.
2004-05	Madia Hourri. B.Sc Student voluntary work McGill University
2003	Undergraduate Research Project Co-Supervision with Dr. Michael Greenwood. Claire Fung, Anatomy Cell Biology Dept., McGill University
2003	Undergraduate Research Project Co-Supervision with Dr. Michael Greenwood. Jennifer Lee, Anatomy Cell Biology Dept., McGill University.
2002-03	Physiology Honors Program. Carl Huynh. Physiology Dept. McGill University.
2001-02	Physiology Honors Program. Ilana Sanderson. Physiology Dept. McGill University.
2001	Undergraduate Research Project Co-Supervision with Dr. Michael Greenwood. Yumi Lee, Anatomy Cell Biology Dept., McGill University.
2000-01	Annie Lacerte. Coop program Sherbrooke University

### *Membership of Professional Societies*

1996-present	Canadian Society of Biochemistry and Molecular Cellular Biology
1996-present	Canadian Diabetes Association
1995-present	ACFAS
1996-present	ASBMB, American Society for Biochemistry and Molecular Biology
2006-present	ACPQ, Association des Chercheurs Professionnels du Québec

## **H. Research**

### ***1. Research Activities.***

#### **Past.**

Twelve years as Research Assistant in the field of the regulation of exocrine functions of the digestive system.

Graduate studies (Ph.D.) on the regulation of the Atrial Natriuretic Factor receptor functions. Postdoctoral training on the molecular aspects of membrane receptors-induced cellular signaling pathways.

#### **Current.**

Understanding of molecular mechanisms involve in signal transduction regulating critical cellular functions such as embryonic development, proliferation, metabolism, response to external stress and oncogenesis. My laboratory interests are directed specifically on intracellular adaptor molecules that integrate signal transduction pathways.

#### **Specific interests:**

1. Role of the adaptor protein Nck in regulating mRNA translation and cell responses to stress.
2. Role of Nck in Diabetes.
3. Role of the adaptor protein Nck in cell transformation and cancer progression.
4. Mechanisms governing the phosphorylation of the adaptor protein Nck.

### ***2. Research Grants.***

#### **Principal Investigator**

##### **Applied**

2008-2013 **CIHR**, A role for Nck-2 in cancer progression. Renewal  
2008-2010 **CRS**, A role for Nck-2 in cancer progression

##### **Current**

2007-10 **CDA**, Canadian Diabetes Association  
A Role for the Adaptor Protein Nck in type 2 Diabetes. \$90,000, \$100,00 and \$98,275  
2007-12 **NSERC**, Phosphorylation of Nck. \$30,000/year  
2005-08 **CIHR**, Effect of Nck on translational machinery in cell transformation.  
\$96,334/year  
2005-08 **CRS**, Role of Nck on translation in cell transformation. Declined

## **Past**

2006	<b>AstraZeneca</b> , Nck a marker of cancer development and/or progression. \$5,000 to support Salma Ismail Research
2005-07	<b>CDA</b> , Canadian Diabetes Association. A Role for the Adaptor Protein Nck in type 2 Diabetes. \$74,170/year
2002-07	<b>NSERC</b> , Phosphorylation of Nck. \$35,000/year
2003-05	<b>CDA</b> , Canadian Diabetes Association. A Role for the Adaptor Protein Nck in Insulin Signaling and Insulin Resistance. \$67,735/year
2002	<b>CIHR</b> , Molecular mechanisms involving Nck in cell transformation. \$9,226
2001-03	<b>CDA</b> , Canadian Diabetes Association A Role for the Adaptor Protein Nck in Insulin Signalling and Insulin Resistance. \$70,400/year
1999-2002	<b>MRC</b> , Investigation of the role of Nck in cellular growth and transformation. \$73,808/year
1999-2001	<b>CDA</b> , Function of Nck in Insulin Signaling. \$45,000/year
1998-99	<b>MRC</b> , Signalling by Nck effectors. \$30,530
1997-99	<b>CDA</b> , Function of Nck and Casein Kinase I- $\gamma$ 2 in Insulin Signaling. \$60,000/year
1996-98	<b>FRSQ</b> , Fonds d'Établissement. \$15,000/year
1995-1998	<b>MRC</b> , Function of Nck, an adaptor protein in mitogenesis and transformation \$61,060/year
1995-97	<b>CDA</b> . Role of Nck in Insulin Signaling. \$45,885/year
1995-96	<b>Royal Victoria Hospital</b> , Medicine Dept. \$35,000
1995	<b>Royal Victoria Hospital Research Institute</b> . The molecular mechanisms of cellular signal transduction through Nck. \$50,000

## **Group Grants**

2006	<b>NCIC</b> , Symposium on Cytoskeletal Dynamics, June 2006 Co-organizers \$8,200
2005	<b>CIHR, Genetics Institute</b> . Symposium on Cytoskeletal Dynamics. June 2006. Co-Organizers \$5,000
2005	<b>CIHR, Cancer Institute</b> . Symposium on Cytoskeletal Dynamics. June 2006. Co-Organizers \$15,000
2005	<b>CIHR</b> , Multi-User Equipment and Maintenance Grants \$225,056 Applicants: Drs. B. Posner, S. Wing, L. Larose, M. Greenwood, A. Mandato et al.
2005	<b>MUHC Research Institute 2005 Equipment Competition</b> \$11,288.50 Principal applicant: Dr. Barry Posner Co-applicants: Drs S. Wing, M. Greenwood and L. Larose
2004	<b>MUHC Research Institute 2004 Equipment Competition</b> \$33,500 Principal applicant: Dr. Barry Posner Co-applicants: Drs S. Wing, M. Greenwood and L. Larose
2002	<b>Louis G. Johnson Grant</b> . Equipment \$12,882 Applicants: Drs. S. Wing, B. Posner, L. Larose and M. Greenwood
2002	<b>CIHR</b> , Multi-user equipment grant for image detection and analysis. \$171,966 Applicants: Drs. S. Wing, M. Greenwood, B. Posner, L. Larose, N. Lamarche-Vane and J.J.M. Bergeron

- 2001 **CIHR**, Equipment grant, \$140,806  
Applicants: Drs. B. Posner, S. Wing, M. Greenwood and L. Larose
- 2000 **Royal Victoria Research Institute**. Special 2000 Equipment Competition,  
\$35,595 Applicants: Drs. B. Posner, S. Wing, M. Greenwood and L. Larose

### 3. Publications

\*denotes trainees in my laboratory

#### *In Preparation*

1. Latreille\*, M. O. Rossella\*, D. Zuo and **L. Larose**. CKI- $\gamma$ 2 Inhibits Formation of Actin Stress Fibers and Delays Cell Cycle Progression in G1. Experiments completed. Manuscript in progress (75%). *Supported by MRC/CIHR*
2. Latreille\*, M., and **L. Larose**. Nck and PERK Interaction. Experiments in progress (95%). *Supported by NSERC and CDA.*
3. Ismail\*, S., V. Luangrath, A. Picard-Cloutier\*, and **L. Larose**. Enhanced expression of Nck-2 correlates with metastasis in melanoma. Experiments in progress (80%). *Supported by CIHR.*

#### *Articles Submitted for Publication in Peer Reviewed Journals or under Revision*

1. Cardin\*, E., and **L. Larose**. Modulation of PKR Nck interacts with PKR and inhibits its activation by dsRNA. Submitted to *Biology of the Cell* May 2008. *Supported by NSERC.*
2. Latreille, M. Bourret, G., Laberge, M.K. and L. Larose. Mice lacking Nck1 present decreased pancreatic  $\beta$ -cell mass but are protected from development of glucose intolerance secondary to obesity. *Diabetes*. Under second revision. Supported by CDA

#### *Articles in Peer Reviewed Journals.*

1. Cardin\*, E., M. Latreille\*, C. Khoury, M.T. Greenwood and **L. Larose**. Nck-1 selectively modulates eIF2 $\alpha$  Ser<sup>51</sup> phosphorylation by a subset of eIF2 $\alpha$ -kinases. *FEBS J.* 274:5865-75, 2007. *Supported by NSERC.*
2. Li, H., J. Zhu, L. Aoudjit, M. Latreille\*, H. Kawachi, **L. Larose** and T. Takano. Rat nephrin modulates cell morphology via the adaptor protein Nck. *BBRC* 349(1):310-6, 2006. *Supported by NSERC*

3. Latreille, M\* and **L. Larose**. Nck in a complex containing the catalytic subunit of protein phosphatase 1 regulates eukaryotic initiation factor 2 $\alpha$  signaling and cell survival to endoplasmic reticulum stress. *J. Biol. Chem.* 281(36): 26633-44, 2006. *Supported by CDA*
4. Jones, N., I.M. Blasutig, V. Eremina, J. Ruston, F. Bladt, H.Li, H. Huang, L. Larose, S.S.-C. Li, T. Tanako, S.E. Quaggin and T. Pawson. Nck adaptors link Nephrin to the actin cytoskeleton of kidneys podocytes. *Nature* 440:818-823, 2006.
5. Lettau, M., J. Qian, A. Linkermann, M. Latreille, L. Larose, D. Kabelitz and O. Janssen. The adaptor protein Nck interacts with Fas Ligand: Guiding the death factor to activation clusters and the cytotoxic immunological synapse. *PNAS* 103(15):5911-5916, 2006.
6. Nguyen, D.T., S. Kebache, S. Jenna, A. Fazel, A. Emadali, H.N. Wong, J.J.M. Bergeron, R.J. Kaufman, L. Larose and E. Chevet. Nck-dependent activation of extracellular signal-regulated kinase-1 and regulation of cell survival during endoplasmic reticulum stress. *Mol. Biol. of the Cell.* 15:4248-4260, 2004. *Supported by CDA.*
7. Mishra, S.K., Z. Yang, A. Mazumdar, A.H. Talukder, **L. Larose** and R. Kumar. Metastatic tumor antigen 1 short form (MTA1s) associates with casein kinase I- $\gamma$ 2, an estrogen-responsive kinase. *Oncogene* 23(25): 4422-4429, 2004
8. Kebache\*, S., E. Cardin, D. T. Nugent, E. Chevet and **L. Larose**. Nck-1 antagonizes Endoplasmic Reticulum stress-induced inhibition of translation. *J. Biol. Chem.* 279:9662-9671, 2004. *Supported by CDA and NSERC.*
9. Li, X., M. Meriane, I. Triki, M. Shekarabi, T.E. Kennedy, **L. Larose** and N. Lamarche-Vane. The adaptor Nck-1 couples netrin-1 receptor DCC to activation of Rac1. *J. Biol. Chem.* 277(40): 37788-97, 2002
10. \*Kebache, S., D. Zuo, E. Chevet, and **L. Larose**. Modulation of protein translation by Nck-1. *Proc. Natl. Acad. Sci.* 99(8): 5406-11, 2002. *Supported by CDA.*
11. Dubois, T., P. Kerai, E. Zemlickova, S. Howell, T. R. Jackson, K. Venkateswarlu, P. J. Cullen, A.B. Thiebert, **L. Larose**, P.J. Roach and A. Aitken. Casein kinase I associates with members of the centaurin- $\alpha$  family of phosphatidylinositol-(3,4,5)- triphosphate-binding proteins. *J. Biol. Chem.* 276 (22): 18757-18764, 2001. *Supported by MRC/CIHR.*
12. \*Bioukar, E. B., N. Cardillo Marricco\*, D. Zuo and **L. Larose**. Serine Phosphorylation of the ligand Activated  $\beta$ -PDGFR by Casein Kinase I- $\gamma$ 2, inhibits receptor's autophosphorylating activity. *J. Biol. Chem.* 274(30): 21457-21463, 1999. *Supported by MRC.*
13. Liu, J.-F., E. Chevet, S. \*Kebache, G. Lemaitre, D. Barritault, **L. Larose** and M. Crepin. Functional Rac-1 and Nck signaling networks are required for FGF-2-induced DNA synthesis in MCF-7 cells. *Oncogene* 18:6425-6433, 1999

14. Voisin, L., **L. Larose** and S. Meloche. Angiotensin II stimulates phosphorylation of the adaptor protein Nck. Physical association with cellular phosphoproteins and Casein Kinase I- $\gamma$ 2. *Biochem. J.* 341:217-223, 1999. *Supported by MRC.*
15. Kohn-Kozlowski, M., **L. Larose**, F. Lee, D. Le Ming, R. Rotappel and K. Siminovitch. SHP-1 binds and negatively modulated the c-kit receptor by interaction with tyrosine 569 in the c-kit juxtamembrane region. *Mol. Cell. Biol.* 18(4): 2089-2099, 1998
16. Lussier, G. and **L. Larose**. A Casein Kinase I activity is constitutively associated with Nck. *J. Biol. Chem.* 272:2688-2694, 1997. *Supported by CDA.*
17. **Larose, L.**, G. Gish and T. Pawson. Construction of an SH2 domain-binding site with mixed specificity. *J. Biol. Chem.* 270:3858-3862, 1995
18. Féthière, J., R. Graihle, **L. Larose**, K. Babinski, H. Ong and A. De Léan. Distribution and regulation of natriuretic factor-R<sup>1</sup>C receptor subtypes in mammalian cell lines. *Mol. Cell. Biochem.* 124:11-16, 1993.
19. **Larose, L.**, G. Gish, S.E. Shoelson and T. Pawson. Identification of residues in the platelet-derived growth factor receptor that confer specificity for binding to PLC- $\gamma$ 1. *Oncogene* 8:2493-2499, 1993.
20. Rondeau, J.J., N. McNicoll, C. Lord, **L. Larose**, S. Meloche, J. Gagnon, H. Ong and A. De Léan. Production of polyclonal antibody to the bovine adrenal atrial natriuretic factor-R1 receptor. *J. Receptor Res.* 12(4):485-505, 1992.
21. **Larose, L.**, J.J. Rondeau, H. Ong and A. De Léan. Phosphorylation of Atrial Natriuretic Factor R<sup>1</sup> receptor by serine/threonine protein kinases: evidence for receptor regulation. *Mol. Cel. Biochem.* 115:203-211, 1992.
22. **Larose, L.**, N. McNicoll, H. Ong and A De Léan. Allosteric modulation by ATP of the atrial natriuretic factor R<sup>1</sup> receptor functions. *Biochemistry* 30(37):8991-8995, 1991.
23. **Larose, L.**, N. McNicoll, J.J. Rondeau, and A De Léan. Photoaffinity labeling of the ANF-R1 receptor by the underivatized <sup>125</sup>I-ANF: Involvement of lipid peroxidation. *Biochemical J.* 267:379-384, 1990.
24. Blanchard, L., B. Paquette, **L. Larose** and J. Morisset. Carbamylcholine and phorbol esters desensitize muscarinic receptors by different mechanisms in rat pancreatic acini. *Pancreas* 5(1):50-59, 1990.
25. Morisset, J., **L. Larose** and M. Korc. Epidermal growth factor inhibits rat pancreatic cell proliferation, causes acinar cell hypertrophy, and prevents caerulein-induced desensitization of amylase release. *Endocrinology* 124(6):2693-2698, 1989.

26. **Larose, L.**, L. Leclerc, J. Asselin, S. Ruel and J. Morisset. Muscarinic cholinergic induced secretin subsensitivity in rat isolated pancreatic acini. Effects on amylase release, cAMP and inositol phosphate formation. *Pancreas* 4(1):71-78, 1989.
27. Morisset, J., J. Wood, E. Solomon and **L. Larose**. Muscarinic receptors and amylase secretion of rat pancreatic acini during caerulein-induced acute pancreatitis. *Dig. Dis. Sci.* 32(8):872, 1987.
28. Asselin, J., **L. Larose** and J. Morisset. Short-term desensitization of the rat pancreatic secretory response to carbamylcholine. *American Journal of Physiology* 252:G392-G397, 1987.
29. Loisel, J., **L. Larose** and J. Morisset. Contraindication for osmotic mini-pump in the abdominal cavity to study muscarinic cholinergic control of pancreatic enzyme secretion and muscarinic receptors. *Intern. J. Pancreatol.* 1:249-258, 1986.
30. Delhaye, M., G. Taton, G.G. Poirier, **L. Larose**, S. St-James and J. Morisset. Modulation of rat pancreatic muscarinic cholinergic receptors by caerulein. *Biochemical Pharmacology* 34:1057-1063, 1985.
31. **Larose, L.** and J. Morisset. Cholinergic stimulation of pancreatic amylase release and muscarinic receptors: Effects of ionophore A-23187. *Life Sciences* 37(3):255-261, 1985.
32. Taton, G., M. Delhaye, S. Swillens, J. Morisset, **L. Larose**, D.S. Longnecker and G.G. Poirier. Muscarinic cholinergic receptors in pancreatic acinar carcinoma of rat. *International Journal of Cancerology* 35:493-497, 1985.
33. Morisset, J., P.G. Génik, Y. Dumont and **L. Larose**. Development of pancreatic function and control of pancreatic growth in an animal model. *Journal of Pediatric Gastroenterology and Nutrition* 3 (suppl. 1):336-342, 1984.
34. Dumont, Y., **L. Larose**, G.G. Poirier and J. Morisset. Changes in acetylcholinesterase and cholinesterase activities in rat pancreas during post-natal development: Relation to muscarinic receptor maturation. *Pharmacology* 29:40-46, 1984.
35. **Larose, L.**, G.G. Poirier, Y. Dumont, C. Frégeau, L. Blanchard and J. Morisset. Modulation of rat pancreatic amylase and muscarinic receptor populations by chronic bethanechol treatment. *European Journal of Pharmacology* 95:215-223, 1983.
36. Heisler, S., **L. Larose** and J. Morisset. Muscarinic cholinergic inhibition of cyclic AMP formation and adrenocorticotropin secretion in mouse pituitary tumour cells. *Biomedical and Biophysical Research Communications* 114(1):289-295, 1983.
37. Morisset, J., S. Chamberland, L. Gilbert, A. Lord and **L. Larose**. A study of pancreatic DNA synthesis in vivo and in vitro following caerulein treatment in vivo. *Biomedical Research* 3(2):151-158, 1982.

38. Roberge, M., G. Grondin, **L. Larose** and A.R. Beaudoin. Cytological effects of urecholine stimulation of the rat pancreas. *Cell and Tissue Research* 220(4):781-787, 1981.
39. Dumont, Y., **L. Larose**, G.G. Poirier and J. Morisset. Modulation of pancreatic muscarinic receptors by weaning. *Life Sciences* 30:253-257, 1981.
40. **Larose, L.**, Y. Dumont, J. Asselin, J. Morisset and G.G. Poirier. Muscarinic receptor of rat pancreatic acini: [<sup>3</sup>H]QNB binding and amylase secretion. *European Journal of Pharmacology* 76:247-254, 1981.
41. Dumont, Y., B. Côté, **L. Larose**, G.G. Poirier and J. Morisset. Maturation of the muscarinic agonist receptors in rat developing pancreas and its relation to maximal enzyme secretion. *Life Sciences* 29(26):2771-2779, 1981.
42. Dumont, Y., **L. Larose**, J. Morisset and G.G. Poirier. Parallel maturation of the pancreatic secretory response to cholinergic stimulation and the muscarinic receptor population. *British Journal of Pharmacology* 73:347-354, 1981.
43. Morisset, J., L. Geoffrion, **L. Larose**, J. Lanoë and G.G. Poirier. Distribution of muscarinic receptors in the gastrointestinal organs. *Pharmacology* 22:189-195, 1981.
44. Dumont, Y., **L. Larose**, G.G. Poirier and J. Morisset. Delayed weaning of the neonatal rat and pancreatic acinar cell responsiveness to urecholine. *Digestion* 18:93-102, 1978.
45. Dumont, Y., **L. Larose**, G.G. Poirier and J. Morisset. Effect of early weaning of the neonatal rat on pancreatic acinar cell responsiveness to urecholine. *Digestion* 17:323-331, 1978.
46. **Larose, L.** and J. Morisset. Acinar cell responsiveness to urecholine in the rat pancreas during fetal and early post-natal growth. *Gastroenterology* 73:530-533, 1977.

### ***Book chapters.***

1. Gish, G., **L. Larose**, R. Shen and T. Pawson. Biochemical analysis of SH2 domains mediated protein interactions. *Methods in Enzymology* vol 254, p503-523, 1995.
2. Morisset, J., J. Asselin and **L. Larose**. Carbachol-induced pancreatic short-term desensitization: An heterogenous phenomenon. *Regulatory Peptides in Digestive, Nervous and Endocrine systems*. INSERM Symposium no. 25. Ed. M.J.M. Lewin and S. Bonfils. Elsevier Science Publishers, B.V. 209-212, 1985.
3. Aubin, R., F. Malouin, Y. Leduc, G. Taton, M. Dehaye, **L. Larose**, D.S. Longnecker, G.G. Poirier and J. Morisset. Characterization of a transplantable acinar cell carcinoma of the rat pancreas: Biochemical studies. In "Experimental Pancreatic Carcinogenesis" *In vitro Carcinogenesis, and Transplantable Pancreatic carcinomas* (Scarpelli, D.G., Reddy, J., Longenecker, D.S. Eds.) CRC Press, 1985.

4. **Larose, L.**, J. Lanoë, J. Morisset, L. Geoffrion, Y. Dumont, A. Lord and G.G. Poirier. Rat pancreatic muscarinic cholinergic receptors. In: *Hormone Receptors in Digestion and Nutrition*. G. Rosselin, P. Fromageot and S. Bonfils (Eds.) Elsevier North Holland, 229-238, 1979.
5. Morisset, J. and **L. Larose**. Development of the sensitivity of the rat pancreatic acini to urecholine: Effect of corticosterone. In: *Brooks and Evers, Nerves and the gut* (Slack, Thorofare) p. 142-153, 1977.

### ***Abstracts and Conference Presentations.***

1. Latreille, M., G. Bourret, M.-K. Laberge et **L. Larose**. Nck, impliqué dans la réponse du réticulum endoplasmique aux stress, joue un rôle important dans l'établissement de la résistance à l'insuline qui accompagne l'obésité. Signalisation Québec Juin 2008.
2. Luangrath, V., S. Ismail, A. Picard-Cloutier et **L. Larose**. La protéine adaptatrice Nck-2 contribue à la propagation métastatique des mélanomes. Signalisation Québec Juin 2008.
3. Laberge, M.-K., M. Latreille, G. Bourret et **L. Larose**. Le rôle de l'adaptateur Nck-1 dans la résistance à l'insuline induite par le stress imposé au réticulum endoplasmique. Signalisation Québec Juin 2008.
4. Laberge, M.-K\*, M. Latreille, G. Bourret and **L. Larose**. A Function for Nck-2 in ER Stress-mediated Insulin Resistance. Canadian Diabetes Association International Meeting, Montreal October 15-18, 2008
5. Cardin, E\*, and **L. Larose**. Modulation of eIF2 $\alpha$  Phosphorylation and PKR Activation by Nck. Experimental Biology Meeting, San Diego April 5-9, 2008.
6. Ismail, S\*, and **L. Larose**. Involvement of the adaptor protein Nck-2 in melanoma progression. NCIC 60<sup>th</sup> Anniversary Conference. Toronto, ON, November 2007.
7. Picard-Cloutier\*, A., and **L. Larose**. A non-canonical SH3 binding motif mediates the interaction between eIF2b and the adaptor protein Nck. 13<sup>th</sup> Graduate Research Day. Physiology Dept., McGill University. Montreal, Qc. May 11, 2007
8. Ismail\*, S., and **L. Larose**. Involvement of the SH2/SH3 domains-adaptor protein Nck in melanoma progression. 13<sup>th</sup> Graduate Research Day. Physiology Dept. McGill University. Montreal, Qc. May 11, 2007
9. Latreille\*, M., G. Bourret and **L. Larose**. Homozygous Inactivation of the Nck-1 Gene Improves Glucose Tolerance and Insulin Sensitivity in Obese Mice. McGill Endocrine Retreat. Montreal, Qc. April 2007

10. Latreille\*, M. and **L. Larose**. Regulation of glucose homeostasis by Nck adaptor proteins. AMBGC. McGill University. Montreal, Qc. February 2007
11. Marisa G. Ponzo, Stephanie Petkiewicz, Daniela Cernea, Babette Schade, Pascal Peschard, William J. Muller, Mike Hallett, **Louise Larose** and Morag Park. Gene expression profile analysis of Met receptor tyrosine kinase-induced mouse mammary tumours and human breast cancer. AMBGC. Montreal, Qc. February 2007
12. Cardin\*, E., M. Latreille\*, C. Khoury, M. Greenwood and **L. Larose**. Specificity of Nck on eIF2 phosphorylation by eIF2 $\alpha$  kinases. Club de Recherche Clinique du Québec. Saint-Alexis des Monts, Québec. Septembre 2006.
13. Latreille\*, M, R. Oliva\*, D. Zuo\* and **L. Larose**. CKI- $\gamma$ 2 overexpression inhibits formation of stress fibers and delays cell cycle progression in G1. Symposium on Cytoskeleton Dynamics. Montreal June 2006
14. Eric Cardin\*, Mathieu Latreille\*, Chanel Khoury, Michael Greenwood and **Louise Larose**. Specificity of the effect of Nck on the phosphorylation of eIF2 $\alpha$  by eIF2 $\alpha$  kinases. FEBS Special Meeting on cell signaling, Dubrovnik May 2006
15. Picard-Cloutier\*, A and **L. Larose**. Effect of Nck on translational machinery in cancer development. Physiology Dept. Research Day, McGill University, Montreal, Canada May 26, 2006.
16. Ismail\*, S. and **L. Larose**. The SH2/SH3 Domains Containing Protein Nck's Involvement in Cancer. Physiology Dept. Research Day, McGill University, Montreal, Canada May 26, 2006.
17. Cardin\*, E., M. Latreille\*, C. Khoury, M. Greenwood and **L. Larose**. Specificity of Nck on eIF2 phosphorylation by eIF2 $\alpha$  kinases. McGill University Endocrine Retreat, Montreal May 2006
18. Latreille\*, M. et **L. Larose**. Rôle de l'interaction Nck-PP1c dans la régulation de la signalisation de eIF2 $\alpha$  et la survie en réponse au stress du réticulum endoplasmique. ACFAS Montréal, Mai 2006.
19. Cardin\*, E., C. Khoury, M. Greenwood and **L. Larose**. Spécificité de l'effet de Nck sur la phosphorylation en Ser<sup>51</sup> de eIF2 $\alpha$ . ACFAS Montréal, Mai 2006
20. Cardin\*, E. and **L. Larose**. Specific effect of Nck toward phosphorylation of eIF2 $\alpha$  on Ser<sup>51</sup>. Poster. Annual McGill Biomedical Graduate Conference. McGill, Montreal February 2006.
21. Latreille\*, M. and **L. Larose**. Role of Nck-PP1c interaction in regulating eIF2 $\alpha$ -dependent signaling and cellular response to ER stress. Poster. Annual McGill Biomedical Graduate Conference. Montreal February 2006.

22. Latreille\* M., et **L. Larose**. Un rôle pour Nck dans la réponse des cellules aux situations de stress. Oral, CRCQ Bromont, 2005
23. Latreille\*, M., S. Kebache\* and **L. Larose**. Nck-1 antagonizes the Endoplasmic Reticulum-induced Unfolded Protein Response. CDA/CSEM Professional Conference and Annual Meeting. Quebec City. October 27-30, 2004.
24. Latreille\*, M., S. Kebache\* and **L. Larose**. Modulation of eIF2 $\alpha$  Ser51 phosphorylation by the adaptor protein Nck1. Sixth Conference on Signaling in Normal and Cancer Cells. Banff, March 2004.
25. Qian, J., **L. Larose**, M. Way and O. Janssen. CD95L interacting proteins: NCK as a potential regulator of CD95L trafficking and function. Submitted to the German Society for Immunology, August 2003
26. **L. Larose**. Nck, l'adaptateur protéique: pour le meilleur ou pour le pire. Signalisation Québec, Québec. Juillet 2003
27. \*Oliva, R., D. Zuo and **L. Larose**. Biochemical Characterization of the Serine/Threonine Protein Kinase Casein Kinase I- $\gamma$ 2. XIX International Union of Biochemistry and Molecular Biology Congress. July 20-24, Toronto, Canada
28. \*Cardin, E. and **L. Larose**. Nck Phosphorylation. 3rd Annual McGill Biomedical Graduate Conference. McGill February 2003.
29. \*Oliva, R. and **L. Larose**. Casein Kinase I- $\gamma$ 2 (CKI- 2) Impairs Cell Proliferation and Cell Morphology. 3rd Annual McGill Biomedical Graduate Conference. McGill February 2003.
30. Li, X., M. Meriane, I. Triki, M. Shekarabi, T. Kenedy, **L. Larose** and N. Lamarche-Vane. Intracellular mechanisms mediated by the chemotropic guidance cue netrin-1 and its receptor DCC (deleted in colorectal cancer). Axon Guidance and neural Plasticity. Cold Spring Harbor, September 2002
31. Li, X., M. Meriane, I. Triki, M. Shekarabi, T. Kenedy, **L. Larose** and N. Lamarche-Vane. Role of the Rho GTPases in the intracellular mechanisms induced by the axon guidance cue netrin-1 and the receptor DCC (deleted in colorectal cancer). FASEB Summer Research Conferences: Small G-Proteins and Cell Dynamics. Snowmass. Colorado USA 2002
32. Li, X., M. Meriane, I. Triki, M. Shekarabi, T. Kenedy, **L. Larose** and N. Lamarche-Vane. Intracellular mechanisms mediated by the chemotropic guidance cue netrin-1 and its receptor DCC (deleted in colorectal cancer) Canadian Developmental Biology Conference. Mont-Tremblant, 4-7 Avril 2002.
33. \*Kebache, S., et **L. Larose**. Nck, une protéine adaptatrice composées de domaines SH, est impliquée dans la régulation traductionnelle de la synthèse protéique. Colloque sur la Signalisation Cellulaire. ACFAS, Mai 2001. Sherbrooke, Canada.

34. \*Kebache, S., D. Zuo, E. Chevet, and **L. Larose**. Modulation of protein synthesis by the adaptor protein Nck through its interaction with the  $\beta$ -subunit of the Eukaryotic Initiation Factor 2 (eIF2 $\beta$ ). Experimental Medicine Research Day. Montreal. March 2001.
35. \*Oliva, R., D. Zuo and **L. Larose**. Overexpression of Casein Kinase I- $\gamma$ 2 (CKI- $\gamma$ 2) in Rat2 Fibroblasts Results in Loss of Actin Stress Fibers and PDGF-Induced Biological Responses without Altering PDGF-mediated Early Signaling Events. Conference on Signalling in Normal and Cancer Cells. Banff. March 2001
36. \*Kebache, S., E. Chevet, and **L. Larose**. Involvement of Nck in Protein Synthesis Regulation. 2nd International Conference on Signal Transduction. Dubrovnik, Croatia. May 2000.
37. \*Cardillo-Marrico, N., and **L. Larose**. Caractérisation de la Caséine Kinase I- $\gamma$ 2 comme étant la sérine/thréonine protéine kinase associée à Nck. ACFAS, Québec, Mai 1998.
38. \*Bioukar, E.-B., and **L. Larose**. Phosphorylation du récepteur du PDGF par la Caséine Kinase I- $\gamma$ 2 (CKI-g2). ACFAS, Quebec, Mai 1998
39. \*Bioukar, E.-B., and **L. Larose**. PDGF-dependent serine phosphorylation of PDGF receptor by Casein Kinase I- $\gamma$ 2. McGill Endocrine Retreat. Montreal April 30, 1998
40. **Larose, L.** And E. B. Bioukar\*. PDGF-dependent serine phosphorylation of the PDGF receptor by Casein Kinase I- $\gamma$ 2. Conference on Signalling in Normal and Cancer Cells Banff, March 1998
41. **Larose, L.** Identification d'une sérine/thréonine kinase constitutivement associée à Nck. CRCQ 1996
42. Kohn-Kozlowski, M., **L. Larose**, R. Rotappel, F. Lee and K.,A. Siminovitch. Identification of the site on the c-kit receptor that confers specificity for binding to tyrosine phosphatase PTP1C. Tyrosine Phosphorylation and Cell Signaling Meeting. San Diego August 1996
43. **Larose, L.**, and G. Lussier. A casein kinase I activity is constitutively associated with Nck. Tyrosine Phosphorylation and Cell Signaling Meeting. San Diego. August 1996
44. **Larose, L.**, and G. Lussier. A casein kinase I activity is constitutively associated with Nck. Oncogene meeting. Frederick, Maryland. June 1996
45. McGlade, J., R. Schmandt, S. Liu, **L. Larose**, S. Jacob, C. Woltig and S, Dho. Identification and characterization of SHC associated proteins. Signal Transduction through tyrosine kinases. Keystone Symposia, March 1996
46. **Larose, L.** et G. Lussier. Identification d'une serine/threonine kinase associée aux domaines SH3 de Nck. Congrès de l'ACFAS, Montréal, Mai 1996

47. Fantaske, R., S. Jacob, **L. Larose**, T. Pawson and J. McGlade. Identification and characterization of novel Shc binding proteins. AACR Special Conference. Banff. April 1995
48. De Léan, A., N. Bouchard, N. McNicoll and **L. Larose**. Intermodulation of natriuretic peptide receptors ANF-R1 and ANF-R2 in arterial smooth muscle cells: Role of protein kinase C and Ca<sup>2+</sup>/Calmodulin-dependent protein kinase. Keystone Symposia on Molecular and Cellular Biology. Colorado, February 1994.
49. Bouchard, N., R. Fenrick, N. McNicoll, **L. Larose** and A. De Léan. Cross-talk of natriuretic peptide receptors ANF-R1 and ANF-R2 in arterial smooth muscle cells. IUPHAR 1994.
50. Puil, L., **L. Larose**, A. Bernstein and T. Pawson. SH2-containing targets common to the c-Kit and IL-3 receptors signalling pathways in primary hematopoietic cells. Oncogene Meeting 1994.
51. **Larose, L.**, J. McGlade and T Pawson. Identification of a new partner for Shc proteins. Oncogene Meeting, 1994.
52. **Larose, L.** et T. Pawson. Identification des résidus du récepteur du facteur de croissance dérivé des plaquettes (PDGF) qui confèrent l'association spécifique de la phospholipase C- $\gamma$ 1 (PLC- $\gamma$ 1). CRCQ 1993.
53. Bouchard, N., N. McNicoll, **L. Larose** and A. De Léan. Intermodulation des récepteurs du facteur natriurétique de l'oreillette du type R<sub>1</sub> et R<sub>2</sub> dans les cellules musculaires lisses d'aorte de rat. CRCQ 1993.
54. **Larose, L.**, G.D. Gish, S. Shoelson and T. Pawson. Identification of residues in the PDGF-receptor that confer specificity for binding to PLC- $\gamma$ 1. Oncogene Meeting, 1993.
55. **Larose, L.**, G.D. Gish and T. Pawson. PDGF receptor and PLC- 1 interactions: Specificity of the binding site. Signal transduction in normal and cancer cells. Banff, Canada, April 1-5, 1993.
56. **L. Larose**,. Interactions between PLC- 1 and PDGF-receptor: mapping of the binding site. Third Annual Symposium of the Groupe de recherche sur le système nerveux. Signal Transduction. Montréal, 1992.
57. **Larose, L.**, N. McNicoll, J.J. Rondeau, H. Ong et A. De Léan. Régulation par les nucléotides de l'activité du récepteur biologique de l'ANF. CRCQ, Septembre 1990.
58. **Larose, L.**, N. McNicoll, J.J. Rondeau, H. Ong and A De Léan. ATP modulation of bovine adrenal atrial natriuretic factor R1 receptor subtype. "A Decade of ANF Research" Satellite Symposium on Hypertension. Ottawa, June 1990.

59. **Larose, L.**, N. McNicoll, J.J. Rondeau and A De Léan. Atrial natriuretic factor R1 receptor function modulated by adenine nucleotides CSBS. Halifax, June 1990.
60. **Larose, L.**, M. McNicoll, J.J. Rondeau, H. Ong et A. De Léan. Régulation par les nucléotides de l'activité du récepteur biologique de l'ANF. Journée de la recherche des étudiants de l'IRCM. Montréal, Avril 1990.
61. **Larose, L.**, N. McNicoll, J.J. Rondeau et A. De Léan. Adenine nucleotides modulate atrial natriuretic factor R1 receptor function. FASEB, Washington, April 1990.
62. **Larose, L.**, J.J. Rondeau, N. McNicoll, H. Ong and A. De Léan. Regulation by adenine nucleotides of ANF-R1 receptor function. Gordon Research Conference on Angiotensin. Oxnard, California. February 18-23, 1990.
63. **Larose, L.**, N. McNicoll, J.J. Rondeau, H. Ong et A. De Léan. Liaison covalente entre l'ANF et son récepteur de type R1. Journée de Recherche des étudiants de l'IRCM. Montréal, Mars 1989.
64. Rondeau, J.J., **L. Larose**, E. Escher, N. McNicoll, H. Ong and A. De Léan. Mechanism of the photoaffinity labelling of ANF receptor by underivatized  $^{125}\text{I}$ -ANF. soumis FASEB, 1989.
65. **Larose, L.**, N. McNicoll, E. Escher, S. Meloche, H. Ong and A. De Léan. Covalent photoaffinity labeling of bovine adrenal zona glomerulosa (BAZG) ANF receptor by underivatized  $^{125}\text{I}$ -ANF. ASPET, 1988.
66. **Larose, L.**, N. McNicoll, E. Escher, S. Meloche, H. Ong et A. De Léan. Le  $^{125}\text{I}$ -ANF (99-126), agent photomarqueur naturel du site récepteur membranaire de l'ANF. Club de Recherche Clinique du Québec (CRCQ), 1988.
67. **Larose, L.**, S. Ruel, B., Paquette and J. Morisset. Similarities in phorbol ester- and carbamylcholine-induced desensitization of rat pancreatic amylase release stimulated by secretin. American Pancreatic Association and Pancreas Cancer Section of the NCI Organ Systems Program. Chicago 1987
68. **Larose, L.**, L. Leclerc and J. Morisset. Désensibilisation de la réponse sécrétine d'acini pancréatiques exposés à la carbamylcholine. Voyage intracellulaire. Club Pancréatique Québécois. Sherbrooke. Mars 1987.
69. Blanchard, L.M., M. Pichette, **L. Larose** and J. Morisset. Desensitization of the rat pancreatic secretory response to a cholinergic agonist by the tumor promoting phorbol ester (TPA). American Pancreatic Association and Pancreas cancer Section of the NCI. Organ Systems Program. Chicago. November 1986.

70. Blanchard, L.M., M. Pichetter, **L. Larose** and J. Morisset. Desensitization of the rat pancreatic secretory response to a cholinergic agonist by the tumor promoting phorbol ester (TPA). FASEB Summer Conference on Receptors. Vermont. August 1986.
71. Blanchard, L.M., **L. Larose** and J. Morisset. Désensibilisation de la réponse sécrétoire pancréatique par les esters de phorbol: Implication de la protéine kinase C? Club Pancréatique Québécois, Québec. Avril 1986.
72. Morisset, J., M. Korc and **L. Larose**. Antagonistic and additive trophic effects of caerulein and EGF in rat pancreas. *Gastroenterology* 90(5):1557, 1986.
73. **Larose, L.**, M. Korc and J. Morisset. Modulation of caerulein mediated amylase secretion by epidermal growth factor. *Gastroenterology* 90(5):1512, 1986.
74. Asselin, J., **L. Larose** and J. Morisset. Carbachol-induced short term desensitization: An heterogenous phenomenon. American Gastrointestinal Association. New York. *Gastroenterology* 88(5):1311, 1985.
75. Asselin, J., **L. Larose** and J. Morisset. Carbachol-induced short term desensitization: an heterogenous phenomenon. Regulation Peptides: Mode of action on digestive, nervous and endocrine systems. Gouvieux-Chantilly, France. May 1985.
76. **Larose, L.**, J. Wood, T.E. Solomon and J. Morisset. Recovery of pancreatic secretory functions after caerulein-induced pancreatitis. American Pancreatic Study Group. Chicago. November 1983.
77. Asselin, J., **L. Larose** and J. Morisset. The calcium independence of pancreatic short term desensitization induced by carbachol  $1E-4M$ . American Pancreatic Association and the National Pancreatic Cancer, Project NCI, Chicago, *Digestive Diseases and Sciences* 29:940, 1984.
78. **Larose, L.** and J. Morisset. Effect of ionophore A-23187 on amylase release from dispersed pancreatic acini stimulated by caerulein or carbamylcholine. *Gastroenterology* 86(5):1152, 1984.
79. **Larose, L.** and J. Morisset. Effect of ionophore A-23187 on hormonal stimulation of enzyme release by isolated rat pancreatic acini. Recent Progress in Molecular Mechanisms of Hormone action in Health and Disease. Satellite Symposium of the 7th International Congress of Endocrinology. Montreal. June 1984.
80. Heisler, S., **L. Larose** and J. Morisset. Inhibition of cholinergic muscarinic receptor activation of cAMP formation and ACTH secretion in mouse pituitary tumor cells. Annual Meeting of the Society of Neuroscience, 1983.

81. **Larose, L.**, J. Morisset, J. Wood and T.E. Solomon. Impaired amylase release from pancreatic acini during acute pancreatitis induced by high dose of caerulein. *The Physiologist* 26(4): A-81, 1983.
82. Morisset, J. and **L. Larose**. Secretory response of the pancreas to a cholinergic stimulation and the muscarinic receptors in the course of experimental pancreatitis induced by caerulein. NIH Workshop on Advances in Pancreatic Physiology. Columbia, Missouri 1983.
83. **Larose, L.** and J. Morisset. Modulation of the cholinergic stimulation in isolated pancreatic acini by ionophore A-23187. NIH Workshop on Advances in Pancreatic Physiology. Columbia, Missouri 1983.
84. Morisset, J., M. Dehaye, G. Taton, **L. Larose** and G.G. Poirier. Modulation des récepteurs muscariniques du pancréas par la caeruleine. *Annales de l'ACFAS* 50:184, 1983.
85. Morisset, J., M. Dehaye, G. Taton, **L. Larose** and G.G. Poirier. Regulation of rat pancreatic muscarinic receptors by caerulein treatment in vivo. *Fed. Proc.* 42(4):984, 1983.
86. Taton, G., M. Dehaye, J. Morisset, **L. Larose** and G.G. Poirier. Biochemical characterization, of muscarinic cholinergic receptors from pancreas adenocarcinoma in rats. American Pancreatic Study Group. Chicago. November 1982.
87. **Larose, L.**, G.G. Poirier and J. Morisset. Modulation of rat pancreatic amylase secretion and muscarinic receptor populations by chronic bethanechol treatment. Canadian Association of Gastroenterology. Quebec. October 1982.
88. **Larose, L.**, G.G. Poirier and J. Morisset. Pancreatic enzyme secretion and muscarinic receptors are modulated by fasting. *The Physiologist* 25(4):217, 1982.
89. **Larose, L.**, G.G. Poirier and J. Morisset. Long-term in vivo cholinergic treatment modulates pancreatic receptor populations. *Gastroenterology* 82:112, 1982.
90. Asselin, J., **L. Larose**, G.G. Poirier et J. Morisset. Désensibilisation à court terme de la réponse sécrétoire du pancréas par le carbachol. *Annales de l'ACFAS* 49:188, 1982.
91. **Larose, L.**, G.G. Poirier and J. Morisset. Modulation of rat pancreatic amylase secretion and muscarinic receptor population by chronic bethanechol treatment. FASEB Summer Conference, Receptors, Vermont, 1982.
92. **Larose, L.**, G.G. Poirier et J. Morisset. Un traitement chronique à l'urécholine modifie la réponse sécrétoire et les récepteurs muscariniques du pancréas. *Annales de l'ACFAS* 49:188, 1982.
93. Asselin, J., **L. Larose**, G.G. Poirier and J. Morisset. Short term desensitization of the pancreatic secretory response to carbachol. *Fed. Proc.* 41(4):1360, 1982.

94. Morisset, J., S. Chamberland, L. Gilbert, **L. Larose** and A. Lord. Study of pancreatic DNA synthesis in vivo and in vitro following caerulein treatment in vivo. American Pancreatic Study Group. Chicago, November 1981.
95. Morisset, J., G.G. Poirier, **L. Larose** and Y. Dumont. Development and characterization of muscarinic receptors of the exocrine pancreas. Fed. Can. Soc. Biol. 24:50, 1981.
96. **Larose, L.**, Y. Dumont, G.G. Poirier and J. Morisset. Modification of the pancreatic muscarinic receptors by long-term treatment with bethanechol. Fed. Proc. 40(3):710, 1981.
97. Dumont, Y., **L. Larose**, G.G. Poirier and J. Morisset. Development of muscarinic agonist receptors of the rat pancreas. Fed. Proc. 40(3):710, 1981.
98. Dumont, Y., G.G. Poirier, **L. Larose** and J. Morisset. Parallel maturation of the pancreatic secretory response to cholinergic and the muscarinic receptor population. American Pancreatic Study Group. Chicago, November 1980.
99. Larose, L., G.G. Poirier, Y. Dumont and J. Morisset. Identification of muscarinic binding sites in dispersed pancreatic acini by direct antagonist binding. The Physiologist 23(4):66, 1980.
100. Dumont, Y., G.G. Poirier, **L. Larose** and J. Morisset. Parallel maturation of the pancreatic secretory response to cholinergic and the muscarinic receptor population. The Physiologist 23(4):67, 1980.
101. Lan e, J., **L. Larose**, J. Morisset, L. Geoffrion, Y. Dumont, A. Lord and G.G. Poirier. Rat pancreatic muscarinic cholinergic receptors. XI International Congress of Biochemistry. Toronto, July 1979.
102. **Larose, L.**, J. Lan e, J. Morisset, L. Geoffrion, Y. Dumont, A. Lord and G.G. Poirier. Rat pancreatic muscarinic cholinergic receptors. Second International Symposium on Hormonal Receptors in Digestive Tract Physiology. Montpellier, May 1979.
103. Dumont, Y., B. C t , **L. Larose**, G.G. Poirier et J. Morisset. Caract risation des diff rentes classes de r cepteurs muscariniques du pancr as de rat au cours de son d veloppement. Association Canadienne Fran aise pour l'Avancement des Sciences. Sherbrooke. Mai 1978.
104. Dumont, Y., **L. Larose**, G.G. Poirier et J. Morisset. Maturation de la r ponse s cr toire cholinergique du pancr as exocrine et du r cepteur muscarinique. Association Canadienne Fran aise pour l'Avancement des Sciences. Sherbrooke, Mai 1978.
105. Colomb, E., **L. Larose**, O. Guy and C. Figarella. Preexistence of the active site in the two human trypsinogens. Autoactivation of trypsinogens. XI Symposium, European Pancreatic Club. Zurich, 1978.

106. Navert, H., **L. Larose**, R. Beaudry, H. Haddad, G. Lufti, M. Lacruz and G. Apollon. Cimetidine is effective in the treatment of the gastric ulcers. VI Congrès Mondial de Gastroentérologie. Madrid, 1978.
107. Navert, H., **L. Larose**, R. Beaudry, H. Haddad, G. Lufti, M. Lacruz and G. Apollon. Cimetidine is effective in the treatment of the gastric ulcers. VI Congrès Mondial de Gastroentérologie. Madrid, 1978.
108. Navert, H., **L. Larose**, R. Beaudry, H. Haddad, G. Lufti, M. Lacruz and G. Apollon. Cimetidine is effective in the treatment of gastric ulcers. *Gastroenterology* 74(5):1072, 1978.
109. Morisset, J., Y. Dumont, **L. Larose** and G.G. Poirier. Prevention of weaning of the neonatal rat and the pancreatic acinar cell response to urecholine. *The Physiologist* 20(4):65, 1977.
110. Dumont, Y., **L. Larose**, G.G. Poirier and J. Morisset. Premature weaning of the neonatal rat and pancreatic acinar cell response to urecholine. *The Physiologist* 20(4):23, 1977.
111. Morisset, J. and **L. Larose**. Development of sensitivity of the rat pancreatic acini to urecholine: Effect of corticosterone. International Symposium on the Nerves and the Gut. Philadelphia. August 1976.
112. **Larose, L.** and J. Morisset. Sensibilité des acini pancréatiques aux cholinergiques chez le rat foetal et après la naissance: Effet de la corticostérone. Association Canadienne Française pour l'Avancement des Sciences. Mai 1976.
113. **Larose, L.** and J. Morisset. Foetal and post natal sensitivity of rat pancreatic acini to cholinergic stimulation: Effect of corticosterone. *Fed. Proc.* 35(3):540, 1976.
114. **Larose, L.** and J. Morisset. Les effets de l'âge sur la sensibilité des acinis pancréatiques aux stimulants cholinergiques chez le rat. Forum de Gastroentérologie. Sherbrooke, Juin 1975

### ***Others.***

1. **Larose, L.** Modulation des propriétés du récepteur du facteur natriurétique (ANF-R1) par effet allostérique et phosphorylation. Thèse de doctorat. Département de Pharmacologie, Faculté de Médecine, Université de Montréal, 1993.
2. **Larose, L.** (Mémoire de maîtrise). Étude de la sensibilité du pancréas de rat aux cholinergiques au cours de son développement. Effet de l'acétate de corticostérone. Sherbrooke, Québec. Juin 1977.