

CURRICULUM VITAE
LAURA S. STONE
May 2011

CONTACT INFORMATION

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POSITIONS

- 2008-present **Associate Member**, McGill Centre for Bone and Periodontal Research.
- 2008-present **Associate Member**, Anesthesia Research Unit, Department of Anesthesiology, McGill University.
- 2007-present **Member**, Graduate Program in Neuroscience, McGill University.
- 2007-present **Member**, Quebec Pain Research Network.
- 2007-present **Associate Member**, Dept of Pharmacology and Therapeutics, McGill University.
- 2007-present **Member**, McGill Centre for Research on Pain.
- 2007-present **Assistant Professor**, Faculty of Dentistry, Division of Biosciences, McGill University.
- 2007-present **Member**, The Quebec Network for Oral and Bone Health Research.
- 2006-2007 **Faculty**, Graduate Program in Pharmaceutics, University of Minnesota.
- 2004-2007 **Faculty**, Graduate Program in Neuroscience, University of Minnesota.
- 2003-2006 **Adjunct Assistant Professor**, Department of Anesthesiology, U. of Minnesota.
- 2002-2006 **Research Assistant Professor**, Department of Neuroscience, U. of Minnesota.
- 2002-2006 **Director of Education** - University of Minnesota Center for Pain Research.
- 2001-2002 **Director**, *in vivo* Pharmacology, Neuromics, Inc., Minneapolis, Minnesota.
- 1999-2000 **Postdoctoral Research Fellow**, Advisor: Dr. Ed McCleskey. Vollum Institute, Oregon Health Sciences University.
- 1993-1999 **Graduate Research Fellow**, Advisors: Dr. George Wilcox and Dr. Robert Elde, Graduate Program in Neuroscience, University of Minnesota.
- 1991-1993 **Undergraduate Research Assistant**, Advisor: Dr. Michael McKeown, Molecular Biology and Virology Lab, Salk Institute, San Diego, California.
- 1991-1992 **Undergraduate Research Assistant**, Advisor: Dr. V.S. Ramachandran, Brain and Perception Laboratory, UCSD.

EDUCATION

- 1999 **Ph.D, Neuroscience, Supporting Program: Pharmacology**, University of Minnesota-Twin Cities
- 1993 **B.Sc., Chemistry/Biochemistry**, University of California-San Diego

AWARDS

- 2008-2011 **Salary Award (Bourse de chercheur-boursier “Junior 2”) – Fonds de la recherche en sante Quebec.** This award provides an average of \$68,000/year for three years towards salary support as a young-mid career investigator.
- 2006 **American Pain Society John C. Liebeskind Early Career Scholar Award -** This award recognizes early career achievements that have or show exceptional promise of making an outstanding contribution to pain scholarship. One award is presented each year.
- 2003 **Travel Award - Winter Conference on Brain Research**
- 2000 **Association of Neuroscience Departments and Programs Training Fellowship -** The ANDP training fellowship is awarded to individuals showing outstanding leadership potential. Fellows contribute to the discussion of policy issues and make recommendations for improvements.
- 1999 **John J. Bonica Post-Doctoral Training Fellowship -** This one-year training fellowship is awarded annually to one individual by the International Association for the Study of Pain. The 1999 fellowship represented the inaugural award.
- 1999 **Bacaner Research Award –** This award is given annually through the Minnesota Medical Foundation to recognize excellence in creative research by graduating students in the Medical Sciences.
- 1999 **Travel Award- International Association for the Study of Pain- 9th World Congress on Pain 1999.**
- 1998 **Patrick J. Manning Research Award -** This award is given annually at the University of Minnesota “In recognition of significant contributions to biomedical research and to the enhancement of the welfare of animals used in research”.
- 1997 **Travel Award - Pain in Europe 1997. Congress of The European Federation of the IASP Chapters,**
- 1996 **Travel Award - International Association for the Study of Pain- 8th World Congress on Pain 1996.**
- 1996 **Travel Award - International Narcotics Research Conference 1996.**
- 1995 **Travel Award - International Narcotics Research Conference 1995.**

GRANTS AND CONTRACTS

- 2010-2013 **CIHR (Canadian Institutes for Health Research) Operating Grant (MOP – 102586) “Pre-Clinical Models of Low Back Pain”** (Principal Investigator).
- 2010 **Quebec Pain Research Network Pilot Project – “Generation of a Flag-Delta Opioid Receptor (Flag-DOPR) Knock-in-Mouse”** (Co-Investigator, PI = Louis Gendron).

- 2010 **Réseau de Recherche en santé buccodentaire et osseuse (RSBO) - Emerging Project Grant** - “Development and Validation of a Mouse Neuron-Osteoclast Co-Culture System” (Principal Investigator; Co-I = Dr. S. Komorova).
- 2008-2013 **CIHR (Canadian Institutes for Health Research) Operating Grant (MOP-86691)** - “Seven-transmembrane domain receptors in pain and analgesia: Actions and interactions. CIHR Operating Grant” (Principal Investigator).
- 2008-2013 **CFI (Canadian Foundation for Innovation) - Infrastructure Operating Fund** - “Integrated Neurobiology of Pain Laboratory” (Principal Investigator, Co-PI = Dr. Ji Zhang).
- 2008-2009 **Louise and Alan Edwards Foundation** – “Studies on the neuroanatomical, neurophysiological and biochemical effects of chronic low back pain” (Principal Investigator, Co-PI’s = Dr. David Seminowicz, Dr. Jean Ouellet).
- 2008 **Quebec Pain Research Network – Pilot Project** “Neuropeptides: High-throughput quantitation of neuropeptides in biological fluids” (Principal Investigator).
- 2008-2013 **CFI (Canadian Foundation for Innovation) Leaders Opportunity Fund** - “Integrated Neurobiology of Pain Laboratory” *This award must be used for equipment and infrastructure costs associated with starting a new laboratory and cannot be used towards operating expenses.* (Principal Investigator, Co-PI = Dr. Ji Zhang).
- 2007-2009 **CIHR (Canadian Institutes for Health Research)/RxD - Biology of Pain - Young Investigators Grant (XCP-83755)** - “Neuroanatomical Studies of Human Degenerative Disc Disease” (Principal Investigator).
- 2006-2008 **NIH (National Institutes of Health; USA) Research Grant - R21 DA020108** “Human Proteomic Studies of Chronic Pain” (Principal Investigator). *Transferred to co-I Dr. Lois Kehl (Univ. of Minnesota) upon move to McGill.*
- 2004-2005 **Minnesota Medical Foundation Research Grant** – “Biochemical Analysis of Human Cerebrospinal Fluid: Method Development and Validation” (Principal Investigator).
- 2004-2009 **NIH (National Institutes of Health; USA) Research Award** – NIH R01 DA 015438-01 “Mechanisms of Opioid Receptor Interactions” (Co-Investigator; PI = G.L. Wilcox).
- 2003-2005 **NIH (National Institutes of Health; USA) Research Grant - NIH R21 DA 017075** “G-Protein coupled receptor oligomerization in the CNS” (Principal Investigator).
- 2003-2004 **Minnesota Medical Foundation Research Grant** - “Detection of GPCR Oligomers in Sensory Neurons”. (Principal Investigator).

PEER-REVIEWED PUBLICATIONS

- Accepted **David A. Seminowicz, Timothy H. Wideman, Lina Naso, Zeinab Hatami-Khoroushahi, Summaya Fallatah, Mark Ware, Peter Jarzem, M. Catherine Bushnell, Yoram Shir, Jean A. Ouellet, and Laura S. Stone** Effective treatment of chronic low back pain reverses structural and functional brain changes, *Journal of Neuroscience*.
- Accepted **Frank J. Symons, Jason J. Wolff, Laura S. Stone, Tony Lim and James W. Bodfish** Salivary Biomarkers of HPA Axis and Autonomic Activity in Adults with Self-Injurious Behavior and Neurodevelopmental Disorders. *Journal of*

Neurodevelopmental Disorders.

- 2011 **Magali Millecamps, M. Tajarian, E. H. Sage, and L. S. Stone.** Behavioral Signs of Chronic Back Pain in the SPARC-null mouse. *Spine*, 36(2):95-102, 2011 (NIHMS221485, CAPMC1525).
- 2010 **Magali Millecamps, Andre Laferrière, J. Vaigunda Ragavendran, Laura S. Stone and Terence J. Coderre.** Role of peripheral endothelin receptors in an animal model of Complex Regional Pain Syndrome type 1. *Pain*, 151:174-183, 2010 (doi:10.1016/j.pain.2010.07.003).
- 2009 **A.C. Overland, K.F. Kitto, A.J. Chabot-Dore, P.E. Rothwell, C.A. Fairbanks, L.S. Stone, G.L. Wilcox.** Protein Kinase C Mediates the Synergistic Interaction Between Agonists Acting at Alpha-2-Adrenergic and Delta-Opioid Receptors in Spinal Cord. *Journal of Neuroscience*, 29(42):13264-13273, 2009.
- 2009 **C.L. Wade, L.L. Eskridge, H.O. Nguyen, K.F. Kitto, L.S. Stone, G.L. Wilcox, and C.A. Fairbanks.** Immunoneutralization of Agmatine Sensitizes Mice to Mu Opioid Receptor Tolerance. *Journal of Pharmacology and Experimental Therapeutics*, 331(2):539-46, 2009.
- 2009 **M.S. Riedl, S. Schnell, A.C. Overland, A-J. Chabot-Dore, A.M. Taylor, A. Ribeiro-Da-Silva, R. Elde, G.L. Wilcox and L.S. Stone.** Co-expression of Alpha-2a-adrenergic and delta-opioid receptors in Substance P terminals in rat dorsal horn. *Journal of Comparative Neurology* 513(4):385-398; 2009 (NIHMS89435).
- 2009 **C.A. Fairbanks, K.F. Kitto, H.O. Nguyen, L.S. Stone, and G.L. Wilcox.** Clonidine and Dexmedetomidine Produce Antinociceptive Synergy in Mouse Spinal Cord. *Anesthesiology* 110(3):638-47; 2009.
- 2007 **L.S. Stone, K.F. Kitto, J.C. Eisenach, C.A. Fairbanks and G.L. Wilcox.** ST91 [2-(2,6-Diethylphenylamino)-2-imidazoline Hydrochloride] - Mediated Spinal Antinociception and Synergy with Opioids Persists in the Absence of Functional Alpha-2A- or Alpha-2C- Adrenergic Receptors. *Journal of Pharmacology and Experimental Therapeutics* 323(3):899-906 2007.
- 2007 **C.J. Goracke-Postle, A.C. Overland, M.A. Riedl, L.S. Stone and C.A. Fairbanks.** Potassium- and capsaicin-induced release of agmatine from spinal nerve terminals. *Journal of Neurochemistry* 102:1738-1748; 2007.
- 2007 **C.J. Goracke-Postle, A.C. Overland, L.S. Stone and C.A. Fairbanks.** A polyamine transport system mediates uptake of tritiated agmatine into spinal nerve terminals. *Journal of Neurochemistry* 100:132-141; 2007.
- 2006 **C.J. Goracke-Postle, H.O. Nguyen, L.S. Stone and C.A. Fairbanks.** Release of tritiated agmatine from spinal synaptosomes. *Neuroreport* 17(23):13-7; 2006.
- 2004 **L.S. Stone and G.L. Wilcox.** Alpha-2-Adrenergic and Opioid Receptor Additivity in Rat Locus Coeruleus Neurons. *Neuroscience Letters* 361(1-3):265-268; 2004.
- 2004 **L.S. Stone, L. Vulchanova, M.S. Riedl, F.G. Williams, G.L. Wilcox and R. Elde.** Effects of Peripheral Nerve Injury on Delta Opioid Receptor (DOR) Immunoreactivity in the Rat Spinal Cord. *Neuroscience Letters* 361(1-3):208-211.

- 2003 **L.S. Stone, C.A. Fairbanks and G.L. Wilcox.** Moxonidine, a Mixed α_2 -Adrenergic and Imidazoline Receptor Agonist, Identifies a Novel Adrenergic Target for Spinal Analgesia [Review]. *Annals of the New York Academy of Sciences* 1009:378-385; 2003.
- 2003 **X-H Guo, C.A. Fairbanks, L.S. Stone and H. Loh.** DPDPE-UK14,304 Synergy is Retained in Mu Opioid Receptor Knock-Out Mice. *Pain* 104:209-217; 2003.
- 2003 **L.S. Stone and L. Vulchanova.** The Pain of Antisense: in vivo Application of Antisense Oligonucleotides for Functional Genomics in Pain and Analgesia [Review]. *Advanced Drug Delivery Reviews* 55(8):929-1115, 2003.
- 2002 **C.A. Fairbanks, L.S. Stone, K.F. Kitto, H.O. Nguyen, I.J. Posthumus and G.L. Wilcox.** Alpha-2c-Adrenergic Receptors Mediate Spinal Analgesia and Adrenergic-Opioid Synergy. *Journal of Pharmacology and Experimental therapeutics* 300(1):282-290, 2002.
- 2001 **L. Vulchanova, T.H. Olsen, L.S. Stone, M.S. Riedl, R. Elde and C.N. Honda.** Cytotoxic Targeting of Isolectin Ib4-Binding Sensory Neurons. *Neuroscience* 108(1):143-155, 2001.
- 2001 **Guo, D.A. Simone, L.S. Stone, C.A. Fairbanks, J. Wang and R. Elde.** Developmental Shift of Vanilloid Receptor 1 (VR1) Terminals into Deeper Regions of the Superficial Dorsal Horn: Correlation With a Shift From Trka to Ret Expression by Dorsal Root Ganglion Neurons. *European Journal of Neuroscience* 14: 293-304, 2001.
- 2000 **C.A. Fairbanks, K.L. Schreiber, K.L. Brewer, C-G. Yu, L.S. Stone, K.F. Kitto, H. O. Nguyen, B.M. Grocholski, D.W. Shoeman, L.J. Kehl, S. Regunathan, D.J. Reis, R.P. Yeziarski and G.L. Wilcox.** Agmatine Reverses Pain Induced by Inflammation, Neuropathy, and Spinal Cord Injury. *Proceedings of the National Academy of Sciences* 97:10584-10589; 2000.
- 2000 **C.A. Fairbanks, I.J. Posthumus, K.F. Kitto, L.S. Stone and G.L. Wilcox.** Moxonidine, an α_2 /Imadazoline Receptor Agonist, Synergizes with Morphine and Deltorphin II to Inhibit Substance P-Induced Behavior in ICR Mice. *Pain* 84(1):1107-1116; 2000.
- 1999 **L.S. Stone, L. Vulchanova, M.S. Riedl, J. Wang, F.G. Williams, G.L. Wilcox, and R. Elde.** Effects of Peripheral Nerve Injury on Alpha-2A and Alpha-2C Adrenergic Receptor Immunoreactivity in the Rat Spinal Cord. *Neuroscience* 93(4):1399-1407; 1999.
- 1998 **L. Vulchanova, M.S. Riedl, S.J. Shuster, L.S. Stone, K.M. Hargreaves, G. Buell, A. Surprenant, R.A. North and R. Elde.** P2X3 is Expressed by DRG Neurons that Terminate in Inner Lamina II. *European Journal of Neuroscience* 10: 3470-3478; 1998.
- 1998 **L.S. Stone, C. Broberger, L. Vulchanova, G.L. Wilcox, T. Hökfelt, M. Riedl and R. Elde.** Differential Distribution of Alpha-2A and Alpha-2C Adrenergic Receptor Immunoreactivity in the Rat Spinal Cord. *Journal of Neuroscience*, 18(15):5928-5937; 1998.
- 1997 **L.S. Stone, L. Macmillan, K.F. Kitto, L. Limbird and G.L. Wilcox.** The α_{2a} -Adrenergic Receptor Subtype Mediates Spinal Analgesia Evoked by α_2 -Agonists and is Necessary for Spinal Adrenergic/Opioid Synergy. *Journal of Neuroscience*, 17(18):7157-7165; 1997

- 1997 **L.S. Stone, C.A. Fairbanks, T.M. Laughlin, H.O. Nguyen, T.M. Bushy, M. Wessendorf and G.L. Wilcox.** Spinal Analgesic Actions of the New Endogenous Opioid Peptides Endomorphin-1 and -2. *Neuroreport* 8(14):3131-3135; 1997.
- 1996 **J. Lai, M. Riedl, L.S. Stone, U. Arvidsson, E.J. Bilksy, G.L. Wilcox, R. Elde and F. Porreca.** Immunofluorescence Analysis of Antisense Oligodeoxynucleotide-Mediated Knock-Down' of the δ Opioid Receptor in Vitro and in Vivo. *Neuroscience Letters* 213:205-208; 1996.

NON-PEER REVIEWED PUBLICATIONS

- 2009 **L.S. Stone and D.C. Molliver.** In Search of Analgesia: Emerging Roles of GPCRs in Pain (Review), *Molecular Interventions*, 9(5): 234-251, 2009.
- 2009 **A. Lebovits, B. Hainline, L.S. Stone, D.A. Seminowicz, J.T. Brunz, R.W. Rosenquist and P. Cowan,** Struck From Behind: Maintaining Quality of Life With Chronic Low Back Pain (Case Reviews in Pain), *Journal of Pain*, 10(9):927-931.
- 2009 **C.A Fairbanks, L.S. Stone, and G.L Wilcox.** Pharmacological Profiles of Alpha-2 Adrenergic Receptor Agonists Identified using Genetically Altered Mice and Isobolographic Analysis (Review), *Pharmacology and Therapeutics*, 123: 224–238
- 2009 **L.S. Stone.** Joint degeneration and chronic pain: Still looking for the missing link (Editorial), *Pain* 141(1):185-186.
- 2007 **T. Ness, U. Wesselmann, L. Stone, P. Mantyh, J. Neubert.** The American Pain Society and Translational Pain Research: A Position Statement from the American Pain Society. Copyright 2007 by the American Pain Society.
- 2005 **C. Bantel, L.S. Stone, M. Maze, G. L. Wilcox** “Alpha2-Adrenergic Agonists in Pain Treatment” In: Schmidt, R.F, & Willis, W.D (eds). *Encyclopedic Reference of Pain*. Springer, Berlin Heidelberg New York.
- 2004 **G. L. Wilcox, L.S. Stone, M.H. Ossipov, J. Lai, F. Porreca** “Pharmacology of pain transmission and modulation. I. Central mechanisms” In: M. Pappagallo (Ed.), *The Neurologic Basis of Pain*, McGraw-Hill, New York, pp. 31 -52; 2004.

SEMINARS/SYMPOSIA

- 2011 **Symposia Chair & Speaker** – “Disc Degeneration-Induced Low Back Pain” in “From brain to spine and beyond: Tracking the source of low back pain from the nervous system to peripheral tissues”, Canadian Pain Society Annual Meeting, Niagara Falls, Canada, May 2011.
- 2010 **Invited Speaker** – “Opioid and Alpha-2 Adrenergic Receptor Interactions” in Symposia “The Delta Opioid Receptor: Pre-clinical Findings & Implications in Pain Management”, Canadian Association for Neuroscience Annual Meeting, Ottawa, CA, May 2010.
- 2010 **Invited Speaker** – “Degenerative Disc Disease and Low Back Pain: Clinical and Preclinical Perspectives”, University of Pittsburgh Center for Pain Research, Pittsburgh, PA, May 2010.

- 2010 **Symposia Chair** - Novel Animal Models and Approaches to Measuring Pain: Moving to Optimize Translation of Preclinical Studies to Human Pain Conditions”, American Pain Society Annual Meeting, Baltimore, MD, May 2010.
- 2010 **Plenary Lecture** – “Animal Models of Low Back Pain” 14th Seminar of the Study Group for Nerve and Spine, Tokyo, Japan, March, 2010.
- 2010 **Invited Speaker** – “Degenerative Disc Disease and Low Back Pain: Clinical and Preclinical Perspectives” Fukushima International Symposia, Fukushima City, Japan, March, 2010.
- 2010 **Invited Speaker** – “My Twisted Path to McGill” Quebec Network of Junior Pain Investigators Career Day 2010, Montreal, Quebec, March, 2010.
- 2009 **Invited Speaker** – “Degenerative Disc Disease and Low Back Pain: Clinical and Preclinical Perspectives” Advanced Technologies and Regenerative Medicine LLC, A division of Johnson & Johnson, Somerville, NJ December 2009.
- 2009 **Symposia Chair** – “Successful Grant Writing and Funding Opportunities in Pain Research” American Pain Society Annual Meeting, San Diego, CA, May 2009.
- 2009 **Symposia Chair** – Basic Science Research Dinner Symposia “Death of the Dogma? Paradigm-Shifting Questions About Mechanisms of Pain” American Pain Society Annual Meeting, San Diego, CA, May 2009.
- 2009 **Invited Speaker** – “Alpha-2 Adrenergic and Opioid Receptors: Analgesic Actions and Interactions” Queens University, Department of Pharmacology and Toxicology, Kingston, Ontario, March 2009.
- 2009 **Invited Speaker** – “Alpha-2 Adrenergic and Opioid Receptors: Analgesic Actions and Interactions” University of Montreal, Department of Pharmacology, March 2009.
- 2008 **Invited Speaker** – “Alpha-2 Adrenergic and Opioid Receptors: Actions and Interactions” Great Lakes GPCR Retreat, Bromont, QC, Oct 2008.
- 2008 **Symposia Chair** – “Preclinical Models of Low Back Pain” American Pain Society Annual Meeting, Tampa, FL, May 2008.
- 2008 **Speaker** – “Animal Models of Low Back Pain” Quebec Pain Research Network Annual Meeting, Belmont, Quebec, Jan 2008.
- 2007 **Invited Speaker** – “Low Back Pain: Pre-clinical Models and Clinical Correlates” Astra-Zeneca-McGill Centre for Research on Pain Third Scientific Retreat, Montreal, Quebec, Dec 2007.
- 2007 **Invited Speaker** – “Alpha-2 Adrenergic and Opioid Receptors: Actions and Interactions” McGill University, Faculty of Dentistry, Montreal, Quebec, Nov 2007.
- 2007 **Invited Speaker** – “Alpha-2 Adrenergic and Opioid Receptors: Actions and Interactions” AstraZeneca R&D Montreal, Montreal, Quebec, Oct 2007.
- 2007 **Symposium Participant** - “Defining the Pain Proteome: Issues and Opportunities” American Pain Society Annual Meeting, Washington DC, 2007.
- 2007 **Symposium Participant** - “New Investigator Guide to the NIH Grant Process, Training Programs and Funding Opportunities” American Pain Society Annual Meeting, Washington DC, 2007.

- 2007 **Symposium Participant** - "Spinal Analgesia: Alpha-2 Adrenergic Receptors in Acute and Chronic Pain: Actions and Interactions" American Pain Society Annual Meeting, Washington DC, 2007.
- 2007 **Invited Speaker** - "Spinal Analgesia: Alpha-2 Adrenergic and Opioid Receptors: Interactions" Department of Anesthesia Research Rounds, McGill University, Montreal, Quebec, 2007.
- 2006 **Invited Speaker** - "Alpha-2 Adrenergic and Opioid Receptor Neuropharmaceutical Interactions" Department of Pharmaceutics, College of Pharmacy, University of Minnesota, Minneapolis, MN, 2006.
- 2005 **Invited Speaker** - "Alpha-2 Adrenergic Analgesia" Meharry Medical College (Hosts: Drs. Lee Limbird and Sukhir Mokha), Nashville, TX, 2005.
- 2005 **Invited Speaker** - "Opioid/Adrenergic Interactions: Therapeutic Utility" American Pain Society Basic Science Special Interest Group Meeting - Boston, MA, 2005.
- 2004 **Symposium Organizer + Participant** - "Analgesic Neuropharmacology and Drug Interactions for the Clinician" - Joint American and Canadian Pain Society Annual Meeting - Vancouver, B.C., 2004.
- 2003 **Symposium Participant** - "Double Black Diamond Techniques in Knock-down, Knock-out, Sequestration, and Synergism Studies" - Winter Conference on Brain Research 2003.
- 2003 **Invited Speaker** - "Pain: The 5th Vital Sign. Part 1: Animal Models" - Research Seminars in Physical Therapy - University of Minnesota.
- 2003 **Invited Speaker** - "Spinal Therapeutic Development" - Medtronic World Headquarters.
- 2002 **Invited Speaker** - "Use of Antisense Oligonucleotides to Evaluate the Role of the P2X3 Receptor in Chronic Pain" - Spring Pain Research Conference 2002.
- 2001 **Invited Speaker** - "Neuromics: Who are we and what do we do?" - Co-presented with Drs. L. Vulchanova and S.J. Shuster of Neuromics, Inc. - Department of Neuroscience, University of Minnesota.
- 2000 **Speaker and Chair** - "ANDP Workshop on Student and Postdoctoral Issues: The Trainee's Perspective" - Society for Neuroscience 2003.
- 1999 **Invited Speaker** - "Some Myths and Facts about Animal Research" - Graduate Program in Neuroscience Annual Retreat, Oregon Health Sciences University.
- 1998 **Symposium Participant** - "Adrenergic Receptors and Pain" - American Pain Society 1998.
- 1998 **Invited Speaker** - "Some Myths and Facts about Animal Research" - Research Animal Resources, University of Minnesota.
- 1998 **Invited Speaker** - "Alpha-2 Adrenergics and Pain" - Spring Pain Research Conference 1998.
- 1998 **Invited Speaker** - "Some Myths and Facts about Animal Research"- Graduate Program in Neuroscience Annual Retreat, University of Minnesota.
- 1998 **Invited Speaker** - Department of Anatomy and Neuroscience, University of Texas Medical Branch at Galveston.

TEACHING

- 2011 **Co-Director – Mechanisms and Management of Pain (Dent654), Winter/Spring 2009** - McGill University. Lecture Topics: Opioid Pharmacology, Grant Writing, Research Ethics
- 2010 – 2011 **Course Director – Advanced Research Seminars - 2010/2011 (Dent 671).**
- 2010 **Lecturer – Pathobiology, Prevention and Treatment of Disease (INDS 208; Unit 8)** – McGill University - Topics: Inhaled and Injectable Anesthetics and Skeletal Muscle Relaxants.
- 2010 **Group Leader – Pathobiology, Prevention and Treatment of Disease (INDS 208; Unit 8)** – McGill University - Topics: Anesthesia and Analgesia, Arthritis & Autoimmune, Independent Study Project.
- 2010 **Lecturer – Molecular Physiology of Bone (PHGY550, Fall Semester)** – McGill University. Lecture Topic: Bone Pain.
- 2010 **Lecturer – Introduction to Research - 2010 (Dent 563)** – McGill University. Topics: Animal and Human Research Ethics, Career Planning.
- 2009 **Lecturer, Panel Participant – Introduction to Research - 2009 (Dent 563)** – McGill University. Topics: Animal and Human Research Ethics, Career Management.
- 2009 **Lecturer – Molecular Physiology of Bone (PHGY550, Fall Semester)** – McGill University. Lecture Topic: Bone Pain.
- 2009 – 2010 **Course Director – Advanced Research Seminars - 2009/2010 (Dent 671).**
- 2009 **Group Leader – Pathobiology, Prevention and Treatment of Disease (INDS 208; Unit 8)** – McGill University - Topics: Anesthesia and Analgesia, Arthritis & Autoimmune.
- 2009 **Co-Director – Current Topics in Neuroscience: Neurobiology of Pain (Neur602)** – This is an upper level graduate seminar course focused on critical evaluation of primary literature in the field of pain. McGill University.
- 2009 **Faculty – Strategic Training Program in Pain: Molecules to Community (PainM2C) - Summer Retreat.** – June 2009 - St. Anne du Beupré, Quebec. Topics: Career Skills, Animal Models of Chronic Pain.
- 2009 **Co-Director – Mechanisms and Management of Pain (Dent654), Winter/Spring 2009** - McGill University. Lecture Topics: Opioid Pharmacology, Grant Writing
- 2008 **Group Leader – Pathobiology, Prevention and Treatment of Disease (INDS 208; Unit 8)** – McGill University - Topics: Anesthesia and Analgesia, Arthritis & Autoimmune.
- 2008 **Lecturer – Molecular Physiology of Bone (PHGY550, Fall Semester)** – McGill University. Lecture Topic: Bone Pain.
- 2008 **Lecturer – International Brain Research Organization Summer School** – Montreal, Canada. Topic: Analgesic Pharmacology.
- 2007 **Group Leader – Pathobiology, Prevention and Treatment of Disease (INDS 208; Unit 8)** – McGill University - Topics: Anesthesia and Analgesia.
- 2007 **Lecturer – Molecular Physiology of Bone (PHGY550, Fall Semester)** – McGill University. Lecture Topic: Bone Pain.

- 2007 **Co-Director – Current Topics in Neuroscience: Neurobiology of Pain 2007 (Neur602)** – McGill University.
- 2007 **Co-Director - Pain Mechanisms – From Molecules to Treatments (Nsc 8320)** – Joint University of Minnesota and Karolinska Institute bi-annual pain course. Lecture Topics: Neuropharmacology, Proteomics, Genomics, Gene Therapy. (Delaro, Sweden, June 10-15).
- 2007 **Lecturer – Mechanisms and Management of Pain 2007 (Dent 590-654B)** – Lecture topic – Opiates: Basic Mechanisms, McGill University.
- 2006 **Lecturer – Career Skills (Graduate Seminar; NSc 8321)** – Lecture topic – Responsible use of Animals in Research, University of Minnesota.
- 2005 **Lecturer – Graduate Seminar in Psychopharmacology (Nsc/Phcl 8207/Psy 8070)** – Lecture topics: Mass spectroscopy and proteomics, University of Minnesota.
- 2005 - 2006 **Co-Director – Readings in Neurobiology (Nsc 8320, Fall 2005)** – Weekly journal club explores topics related to the neurobiology of pain - University of Minnesota.
- 2005 **Co-Director - Pain Mechanisms – From Molecules to Treatments (Nsc 8320)** – Joint University of Minnesota and Karolinska Institute (Minneapolis, MN). This one week intensive was directed towards practicing clinicians, graduate and medical students and basic scientists. Lecture Topics: Neuropharmacology, Analgesic Drug Discovery - University of Minnesota.
- 2005 **Co-Director - Neurobiology of Pain (Nsc 8221, Phcl 8221)** – University of Minnesota. This is an upper level graduate course on the basic science of pain and analgesia. Lecture Topics: Animal Models, Functional Genomics, Pharmacology 101 - University of Minnesota.
- 2004 - 2006 **Lecturer - Advanced Neuropharmaceutics (Phm 8481, Nsci 8481, MVB 8481)** – Lecture topics: neuroanatomy, neuropharmacology, gene therapy, CNS drug delivery and drug interaction statistical analysis - University of Minnesota.
- 2004 **Lecturer - Anesthesia and Pain - Update 2004 - Bangalore, India** - This course in pain management is targeted to practicing anesthesiologists. I conducted a session entitled “Neuropharmacology for the Clinician”. This course is being co-directed by the St. John’s Academy of Health Sciences (Bangalore, India), the University of Minnesota and the Mayo Clinic. Bangalore, India, Feb. 8-11, 2004.
- 2003 **Lecturer - Neurobiology of Pain (Nsc 8320)** - Joint University of Minnesota and Karolinska Institute (Stockholm, Sweden). This one week intensive course was geared towards practicing clinicians and graduate students. Lecture Topics: Use of Antisepses and Transgenics in Pain Research, Applications of Mass Spectroscopy to the Neurobiology of Pain.
- 2002 **Readings in Neurobiology (Nsc 8320)** – I contributed regularly to this course each semester on varying topics related to pain research - University of Minnesota.
- 2000 **Lecturer - Neuroscience Refresher for Neurology Residents** - Oregon Health Sciences University. Lecture Topics: Synaptic Integration & Plasticity, Learning & Memory, Vision.

- 1998 **Lecturer - Pharmacology for Nurse Anesthetists** – Minneapolis Veterans Administration Medical Center School of Anesthesiology. Lecture Topics: CNS Stimulants and Anticonvulsant Agents.
- 1996 - 1997 **Lecturer - Introduction to Neuroscience (Nsc 5150)** - University of Minnesota – Lecture Topics: Sensory Systems, Pain and Analgesia, Learning & Memory, Neurochemistry.
- 1996 **Graduate of Preparing Future Faculty Program** - University of Minnesota - This program is designed to help doctoral students improve their skills in anticipation of their future faculty roles.
- 1995 **Teaching Assistant - Neuroanatomy for Medical Students (CBN 5111, Phsl 5112)** - University of Minnesota Medical School (Teaching Assistant).
- 1994 **Teaching Assistant - Introduction to Neurophysiology (Phsl 6041)** - School of Pharmacy. University of Minnesota, College of Pharmacy.
- 1991 - 1993 **Teaching Assistant - Undergraduate Chemistry and Biochemistry Courses** - Department of Chemistry, UCSD.

PROFESSIONAL ACTIVITIES & SERVICE

- 2011 **Judge** - McGill Dentistry Graduate Student Fellowships.
- 2011 **Reviewer** – Poster Abstracts, Canadian Connective Tissue Conference.
- 2011 **Judge** – Poster Presentations, Canadian Pain Society Annual Meeting.
- 2010-Present **Member** – Scientific Program Committee – Canadian Pain Society.
- 2010-Present **Member** - Trainee Research Interchange Program Award (TRIP) Committee - Canadian Pain Society
- 2010 **Judge** – Neuroscience Research Day, McGill University
- 2009-Present **Co-chair (Basic Science Division)** – Anesthesia Research Day, McGill University
- 2009-Present **Vice-Chair** – Faculty Animal Care Committee - McGill University, Downtown Campus B. Served as acting chair from May – Sept 1020.
- 2009-Present **Co-Chair** – Alan Edwards Centre for Research on Pain Website Committee.
- 2009-Present **Committee Member** - Membership Task Force – American Pain Society.
- 2009-Present **Chair** - Genome Building Animal Care Facility Users Advisory Board - McGill University
- 2009-2100 **Chair - Scientific Advisory Board** – Louise and Alan Edwards Foundation for Research on Pain.
- 2008-2010 **Chair** - McGill Faculty of Dentistry Research Seminar Series.
- 2008-Present **Committee Member** – Animal Ethics Subcommittee, McGill University (*After protocols are approved by the Facility Animal Care Committee, invasive protocols are further reviewed by the Ethics Subcommittee*).
- 2008 **Scientific Program Committee** – American Pain Society.
- 2008-2010 **Admissions Committee** - McGill Faculty of Dentistry.
- 2008 **Committee Member** - McGill Dentistry Graduate Student and Post-Doctoral Awards Committee.
- 2008 **Committee Member** - McGill University - Faculty of Dentistry - NSERC USRA Evaluation Committee.

- 2007 **CIHR Peer Review Committee Member - Behavioral Sciences A.** Nov. 2007.
- 2007-Present **Committee Member** – McGill Frontiers in Pain Research Lecture Series.
- 2007-Present **Scientific Advisory Board Member** – Louise and Alan Edwards Foundation for Research on Pain.
- 2007-Present **Committee Member** – Faculty Animal Care Committee - McGill University, Downtown Campus.
- 2007-Present **Committee Member** – Genome Building Animal Care Facility Users Advisory Board - McGill University
- 2007-2009 **Co-Chair – Basic Science Special Interest Group** – American Pain Society.
- 2007-2008 **Judge** – McGill Faculty of Dentistry Research Day – Oral Presentations.
- 2007-2008 **Judge** – McGill Pain Day Poster Session.
- 2006 **Translational Research Task Force** – American Pain Society.
- 2006 **Nominating Committee** – American Pain Society. This is an elected position.
- 2006 **Awards Committee** – American Pain Society.
- 2006 **Chair, Organizing Committee and Panel Member** – Graduate Program in Neuroscience at the University of Minnesota Career Forum 2006. This one-day event draws students from multiple graduate programs in the life sciences to learn about career opportunities.
- 2005 **Volunteer** – Minnesota State Fair Neuroscience Day.
- 2005 **Chair, Organizing Committee** – Graduate Program in Neuroscience at the University of Minnesota Career Forum 2005.
- 2005 **Volunteer** – Brain Awareness Week
- 2004 **Consultant** - Algos Therapeutics (Assisted in the establishment of methodologies for analgesic drug development and advised on novel analgesic target validation).
- 2003 **Panel Participant** - “Neuroscience Colloquia on Post-Doctoral Training”. This panel was assembled by the University of Minnesota Neuroscience Graduate Program Faculty to present a broad range of viewpoints on post-doctoral training to the students.
- 2002 **Steering Committee Member** – This committee was charged with the establishment of an association for post-doctoral associates and fellows at the University of Minnesota.
- 2002 **Panel Participant** - “Career Options in Neuroscience”. This event was organized and hosted by students in the Neuroscience Graduate Training Program at the University of Minnesota. Alumni were invited to share their perspectives and experiences in different career options following graduation.
- 1999 **Editor and Technical Writer** - Japan America Medical Post (JAM Post). JAM Post is a medical communications organization that assists Japanese researchers publishing in English.
- 1999 **Consultant** - Sibia Neuroscience. (Advised analgesic development team on product development and methodology).
- 1997-1998 **Travel Award Committee** - Sigma Delta Epsilon, Chapter XI.
- 1997-1998 **Volunteer** – Brain Awareness Week
- 1996-1998 **Award Committee** - Memorial Patrick J. Manning Research Award

- 1995-1999 **Director** - FACTS (Focus on Animal Contributions to Science). FACTS is a pro-research student organization committed to educating the public of the importance of animals in biomedical research.
- 1995-1999 **Student Representative** - University of Minnesota Graduate Program in Neuroscience Steering Committee. (The representative is elected by his/her peers).
- 1991-1993 **Treasurer** - UCSD Undergraduate Chapter of the American Chemical Society.

PROFESSIONAL ORGANIZATIONS

- 2010-Present AO Spine Foundation
- 2010-Present Canadian Neuroscience Association
- 2008-Present McGill Centre for Bone and Periodontal Research
- 2007-Present The Quebec Pain Research Network
- 2007-Present Canadian Pain Society
- 2007-Present The Quebec Network for Oral and Bone Health Research
- 2007-Present McGill Centre for Research on Pain
- 2007-Present McGill Association of University Teachers
- 2005-2006 American Association of Pharmaceutical Scientists
- 2002-2006 Center for Pain Research, University of Minnesota
- 1996-Present International Association for the Study of Pain
- 1996-Present American Pain Society
- 1995-Present Society for Neuroscience
- 1995-2006 Sigma Delta Epsilon, Chapter XI (Women in Science Organization)
- 1993-1999 FACTS (Focus on Animal Contributions to Science)
- 1992-2002 American Association for the Advancement of Science
- 1990-1993 American Chemical Society

MENTORING

Trainee Supervision – Graduate Students & Post-Doctoral Fellows

- 2010-Present **Co-Thesis Advisor** – PhD – McGill University, Dental Sciences – Ms. Dareen Abd El-Aziz
- 2010-Present **Thesis Advisor** – Msc – McGill University, Dental Sciences – Ms. Zahra Sadat Tabatabaei Shafiei
- 2008-Present **Thesis Advisor** – PhD – McGill University, Neuroscience – Ms. Maral Tajarian
- 2007-Present **Thesis Advisor** – PhD – McGill University, Neurological Sciences – Ms. Anne-Julie Chabot-Dore
- 2007-2009 **Post-Doctoral Advisor** – McGill University – Dr. Magali Millecamps (Current Position = Research Associate, Alan Edwards Centre for Research on Pain, McGill University)

- 2007-2009 **Thesis Advisor** – Msc – McGill University, Pharmacology and Toxicology – Mr. Tony Lim (Current Position = PhD Student in Neuroscience, McGill University).
- 2006-2007 **Co-Thesis Advisor** – PhD - University of Minnesota, Doctoral Program in Pharmaceutics – Jee-eun Lee (Current Position = Scientist, Vertex Pharmaceutical, Boston, MS).

Trainee Supervision – Awards Granted to Trainees under my Supervision

- 2011 Ms. Maral Tajarian (PhD Student) – Travel Award – Quebec Network for Oral and Bone Health Research to attend the *Canadian Conference on Epigenetics*, London, Ontario (\$800).
- 2011 Ms. Zahra Sadat Tabatabaei Shafiei (MSc Student) – Best Oral Presentation Award – McGill University Dentistry Research Day.
- 2011 Ms. Maral Tajarian (PhD Student) – Studentship – Louise and Alan Edwards Foundation (\$20,000).
- 2010 Ms. Maral Tajarian (PhD Student) – Travel Award – McGill University Graduate Program in Neuroscience GREAT (Graduate Research Enhancement and Travel award) Student Travel Award to attend the *Society for Neuroscience Annual Meeting*, San Diego, CA (\$500).
- 2010 Ms. Maral Tajarian (PhD Student) – McGill University, Faculty of Medicine Internal Studentship (\$12,000).
- 2010 Mr. Alex Danco (Undergraduate Student) – Travel Award from the Quebec Pain Research Network to attend the *13th World Congress on Pain* in Montreal, Quebec (\$200).
- 2010 Ms. Maral Tajarian (PhD Student) – Travel Award from the Canadian Pain Society to attend the *13th World Congress on Pain* in Montreal, Quebec (\$500).
- 2010 Ms. Anne-Julie Chabot-Dore (PhD Student) – Travel Award from the International Association for the Study of Pain to attend the *13th World Congress on Pain* in Montreal, Quebec (\$935).
- 2010 Ms. Anne-Julie Chabot-Dore (PhD Student) – Travel Award – McGill University Graduate Program in Neuroscience GREAT (Graduate Research Enhancement and Travel award) Student Travel Award to attend the *Canadian Association for Neuroscience Annual Meeting*, Ottawa, Ontario (\$500).
- 2010 Ms. Maral Tajarian (PhD Student) – Best Basic Science Poster – McGill Pain Day - “*Pharmacological characterization of low back pain in the SPARC-null mouse*”.
- 2010 Ms. Maral Tajarian (PhD Student) – Canadian Pain Society Trainee Research Award 2010 (\$5,000).
- 2009 Ms. Maral Tajarian (PhD Student) – Travel Award – Quebec Network for Oral and Bone Health Research - to attend the *2010 Society for Neuroscience Annual Meeting*, San Diego, CA (\$800).
- 2009 Ms. Maral Tajarian (PhD Student) – Graduate Scholarship – Quebec Network for Oral and Bone Health Research (\$15,000).
- 2009 Ms. Maral Tajarian (PhD Student) – Travel Award – McGill University Graduate Program in Neuroscience GREAT (Graduate Research Enhancement

- and Travel award) Student Travel Award to attend the *Society for Neuroscience Annual Meeting*, Chicago, IL (\$500).
- 2009 Ms. Maral Tajarian (PhD Student) – Travel Award – Quebec Pain Research Network to attend the *2009 Society for Neuroscience Annual Meeting*, Chicago, IL (\$1,000).
- 2009 Ms. Anne-Julie Chabot-Dore (PhD Student) – Canada Graduate Scholarship - Canadian Institutes for Health Research (\$35,000 yr x 3 years).
- 2009 Ms. Maral Tajarian (PhD Student) – Graduate Scholarship - Armenian International Association for Women (\$5,000).
- 2009 Ms. Anne-Julie Chabot-Dore (PhD Student) – Canadian Pain Society Trainee Conference Travel Award (\$500).
- 2009 Ms. Anne-Julie Chabot-Dore (PhD Student) – Canadian Pain Society Trainee Research Award 2009 (\$5,000).
- 2008 Ms. Anne-Julie Chabot-Dore (PhD Student) – Travel Award from the Quebec Pain Research Network to attend the *Society for Neuroscience Annual Meeting*, Washington, DC (\$1,000).
- 2008 Ms. Anne-Julie Chabot-Dore (PhD Student) - Studentship from the McGill Graduate Program in Neuroscience (\$10,000).
- 2008 Ms. Maral Tajarian (PhD Student) – International Brain Research Organization Fellowship to attend the *IBRO/RIKEN 3rd advanced school of Neuroscience* in Osaka, Japan (*all expenses covered by IBRO*).
- 2008 Mr. Tony Lim (MSc Student) – Doctoral Research Award, Canadian Institute of Health Research (\$22,000/yr x 3 years).
- 2008 Dr. Magali Millecamps (Post-doctoral Fellow) – Travel Award from the International Association for the Study of Pain to attend the *12th World Congress on Pain* in Glasgow, Scotland (\$1,000).
- 2008 Ms. Anne-Julie Chabot-Dore (PhD Student) – Travel Award from the International Association for the Study of Pain to attend the *12th World Congress on Pain* in Glasgow, Scotland (\$1,000).
- 2008 Mr. Tony Lim (MSc Student) – Travel Award from the International Association for the Study of Pain to attend the *12th World Congress on Pain* in Glasgow, Scotland (\$1,000).
- 2008 Ms. Anne-Julie Chabot-Dore (PhD Student) – Travel Award to attend *Frontiers in Neurophotonics* – International summer school on advanced live cell imaging techniques, Quebec City, QC, Canada (\$500).
- 2007 Dr. Magali Millecamps (Post-Doctoral Fellow) - Future Leaders in Pain Research Award from the American Pain Society for the project “*Animal Models of Low Back Pain*” (\$20,000).

Trainee Supervision – Undergraduate & Professional Students

- 2010-Present **Undergraduate Research Volunteer** – McGill University - (May 2010 - Present) – Mr. Alex Danco
- 2009-2011 **Undergraduate Research Volunteer** – McGill University - (Summer 2009 - Present) - Ms. Tharsika Sinnathamby

- 2009-2010 **Undergraduate Directed Research** - McGill University, Department of Pharmacology (PHAR 599, Fall/Winter 2009-2010) – Ms. Sarah Amrani
- 2009-2010 **Undergraduate Directed Research** - McGill University, Department of Pharmacology (PHAR 599, Fall/Winter 2009-2010) – Ms. Adriana Bljajic
- 2009-2010 **Undergraduate Research Volunteer** – McGill University - (Fall 2009 - Present) – Mr. Jan Czerminski
- 2009 **Undergraduate Research Volunteer** – McGill University – (Summer 2009) Ms. Ji-Young Li
- 2008 **Undergraduate Directed Research** - McGill University, Department of Biochemistry (Summer & Fall 2008) – Mr. Serge Zaretsky
- 2008 **Undergraduate Directed Research** - McGill University, Department of Pharmacology (PHAR 599, Spring) – Ms. Syamala Kalyanasundaram
- 2007-2008 **Undergraduate Directed Research** - McGill University, Department of Pharmacology (PHAR 599, Winter/Spring) – Ms. Audrey Laferrière
- 2004-2006 **Undergraduate Research Supervisor** – University of Minnesota, Department of Neuroscience – Ms. Lauren Bondorenko.
- 2003-2005 **Co-Advisor** - Doctoral Program in Physical Therapy, Independent Research – Tonya Brabec and Catie Christensen. Thesis Title: Degenerative Disc Disease: prevalence, causes, clinical measures, and future directives.

Service on Thesis Committees or as Thesis Reviewer

- 2010 **Internal Reviewer, PhD Thesis** – McGill University, Integrated Program in Neuroscience – Mark H Pitcher (Advisor: Dr. Fernando Cervero).
- 2010 **External Reviewer, PhD Thesis** – McGill University, Integrated Program in Neuroscience – Dr. Ara Schorscher-Petcu (Advisors: Dr. Remi Quirion & Dr. Jeff Mogil).
- 2010-Present **Thesis Committee** – PhD – McGill University, Surgery – Dr. Rahhul Gawri (Advisor: Dr. Lisbet Haglund).
- 2010-Present **Thesis Committee** – MSc – McGill University, Neuroscience – Ms. Rebecca Price (Advisor: Dr. Petra Schweinhardt).
- 2010-Present **Administrative Advisor** – MSc – McGill University, Pharmacology and Toxicology – Ms. Claire Magnussen (Advisor: Dr. Alfredo Ribeiro-Da-Silva).
- 2010-Present **Administrative Advisor** – MSc – McGill University, Pharmacology and Toxicology – Ms. Geraldine Longo (Advisor: Dr. Alfredo Ribeiro-Da-Silva).
- 2010 **External Reviewer, Msc Thesis** – McGill University, Department of Surgery – Mr. Kevin Debiparshad (Advisor: Dr. Fackson Mwale).
- 2010-Present **Thesis Committee** – MSc – McGill University, Neuroscience – Ms. Yen May Ong (Advisor: Dr. Fernando Cervero).
- 2009 **Pro-Dean** – PhD - McGill University, Department of Educational and Counseling Psychology – Dr. Anna Matjeka.
- 2009 **External Member, PhD Thesis Defense** – PhD – McGill University, Psychology – Dr. Mona Lisa (Advisor: Dr. Jeffery Mogil).
- 2009 **External Member, PhD Thesis Defense** – PhD – Queens University, Pharmacology and Toxicology – Dr. Sarah Holdridge (Advisor: Dr. Catherine Cahill).

- 2009-Present **Thesis Committee** – MSc – McGill University, Dental Sciences – Mr. Peter Lee (Advisor: Dr. Ji Zhang).
- 2008-Present **Administrative Advisor** – PhD – McGill University, Pharmacology and Toxicology – Ms. Gurpreet Manku (Advisor: Dr. Martine Culty).
- 2008 **External Member, PhD Thesis Defense** – PhD – McGill University, Pharmacology and Toxicology – Dr. Lina Almarestani (Advisor: Dr. Alfredo Ribeiro-da-Silva).
- 2008 **External Member, PhD Thesis Defense** – PhD – McGill University, Pharmacology and Toxicology – Dr. Maryam Majdi (Advisor: Dr. Claudio Cuello).
- 2008-Present **Thesis Committee** – PhD – McGill University, Physical and Occupational Therapy – Ms. Shahnaz Shahrbanian (Advisor: Dr. Maureen Simmonds).
- 2007-Present **Thesis Committee** – PhD – McGill University, Pharmacology and Toxicology – Ms. Jennifer Peleshok (Advisor: Dr. Alfredo Ribeiro-da-Silva).
- 2007-2009 **Thesis Committee** – PhD – McGill University, Pharmacology and Toxicology – Dr. Andrea Bailey (Advisor: Dr. Alfredo Ribeiro-da-Silva; Current Position = Postdoctoral Fellow, McGill University).
- 2007-2009 **Thesis Committee** - MSc – McGill University, Dental Sciences - Naomi Kemeny (Advisor: Dr. Svetlana Komarova).
- 2007-Present **Thesis Committee** – PhD – McGill University, Pharmacology and Toxicology – Ms. Anna Taylor (Advisor: Dr. Alfredo Ribeiro-da-Silva).
- 2007 **External Thesis Reviewer** – MSc - Ms. Laurene Dao-Pei Yen – MSc - McGill University, Pharmacology and Toxicology. (Advisor: Dr. Alfredo Ribeiro-da-Silva).
- 2005-2007 **Thesis Committee** - PhD - University of Minnesota, Graduate Program in Neuroscience – Dr. Cory Goracke-Postle (Current Position = Research Subjects Protection Administration, University of Minnesota).

PEER REVIEW (Journals):

Anesthesiology
 Brain Research
 European Journal of Neuroscience
 British Journal of Pharmacology
 European Journal of Pain
 European Journal of Pharmacology
 European Journal of Neuroscience
 Experimental Brain Research
 Expert Opinion on Biological Therapy
 Fundamental & Clinical Pharmacology Journal or Neuroscience
 Journal of Pharmacology and Experimental Therapeutics
 Journal of Pharmacology and Toxicology
 Journal of Rehabilitation Research & Development
 Journal of Pain
 Life Sciences
 Medicinal Research Reviews
 Neuropharmacology

Neuroscience
Neuroscience Letters
Pain
Pharmacological Reports
Pharmacology, Biochemistry and Behavior
Spine

PEER REVIEW (Funding agencies)

Ad hoc Reviewer - Quebec Network for Oral and Bone Research - 2010

Committee Member - National Institutes of Health (NIH) – National Institute on Drug Abuse Special Emphasis Panel ZDA1 GXM-A – Cutting Edge Basic Science Research Awards (2009).

Ad hoc Reviewer - Funding of Research Consortia in the Area of Musculoskeletal Diseases of the German Federal Ministry of Education and Research (BMBF, 2009).

Ad hoc Reviewer - Medical Research Council (UK) - National Centre for the Replacement, Refinement and Reduction of Animals in Research (NC3Rs, 2009).

Ad hoc Reviewer - Ontario Workplace Safety and Insurance Board (2009-2010).

Ad hoc Reviewer - National Science Foundation (USA, 2007).

Committee Member - CIHR – Behavioral Science A (2007)

INTELLECTUAL PROPERTY

- 2005 Inventor - Methods and Materials for Modulating TRPM2. European Patent Office 03796683.5-2101-US0338685
- 2004 Inventor - Methods and Materials for Modulating P2X2. European Patent Office 02796136.6-2101-US0241833
- 2004 Inventor - Methods and Materials for Modulating ENaC-BETA. European Patent Office 02799996.0-2101-US0241850
- 2004 Inventor – Methods and Materials for Modulating TASK-3. European Patent Office 02806292.5-2123-US0241834.
- 2004 Inventor - Antisense Modulation of Purinoreceptor P2X3. European Patent Office 027803.2-2101-US0236000.
- 1997 Inventor - Antinociceptive Drugs. Inventors: Fairbanks, CA, GL Wilcox, LS Stone, KF Kitto; Assignee, Solvay Pharma: 1997; U.S. Patent Number 6,117,879.
- 1997 Inventor - Analgesic Composition and Method for Using the Same. Inventors: Fairbanks, CA, GL Wilcox, LS Stone, KF Kitto; Assignee, Solvay Pharma 1997; U.S. Patent Number 6,204,271

CONTINUING EDUCATION

- 2010 **Supervisor Workshop (0.5 days)** - Best Practices for Graduate Supervision: Being a good supervisor in a highly competitive environment - McGill University – Teaching and Learning Services.
- 2010 **Teaching Workshop (0.5 days)** - Creating effective questions to enhance student engagement: The Student Response System (Clickers) – McGill University – Teaching and Learning Services.

- 2007 **Leadership and Coaching (1.5-day workshop)** - The purpose of this workshop is to advance supervisory leadership practices and provide tools to reinforce and increase performance levels - McGill University Staff Development Program.
- 2005 **Genomics and Proteomic Sample Preparation (3-day mini-course)** - Cambridge Healthtech Institutes - Boston Massachusetts.
- 2005 **Proteomic Methods (3-day workshop)** - Mass Spectrometry Consortium for the Life Sciences & Proteome Analysis Core Facility - University of Minnesota.
- 2004 **Clinical Research Coordinator Training (UMN Academic Health Center)** – Modules 2 and 3 (Practical Aspects of Clinical Research and Navigating the University Environment).
- 2003 **Genomics – (1-day mini-course)** - Winter Conference on Brain Research.

MEDIA COVERAGE

- 2009 *Couple antidouleur* by H el ene Laverdi ere. Decouvrir: La Revue de la recherche de la association francophone pour la savoir. 30(5):10, December 2009.
- 2007 *Back Pain: Deciphering the Biological Puzzle* by Rob Bull. McGill Centre for Research on Pain Newsletter, March 2007.
- 2007 *Understanding Sore Backs* by Patrick McDonagh. Newsletter of the McGill Faculty of Dentistry 2006-2007.

ABSTRACTS

1. **Zarah Tabatabaei Shafiei, Rahul Gawari, Lisbet Hagland, Jean Ouellet, and Laura S Stone.** Detecting matrix changes in human intervertebral disc degeneration using multichromatic FAST staining(Canadian Connective Tissue Conference, Montreal, 2011).
2. **Dareen Abd EL-Aziz, Svetlana V. Komarova, Laura S. Stone** Pain characteristics associated with a model of bone cancer due to metastatic breast cancer (Canadian Connective Tissue Conference, Montreal, 2011).
3. **Maral Tajerian, Sebastian Alvarado, Magali Millecamps, Thomas Dashwood, Kathleen M. Anderson, Lisbet Haglund, Jean Ouellet, Moshe Szyf, Laura S Stone** DNA methylation of SPARC is associated with low back pain (Canadian Conference on Epigenetics, London, Ontario, 2011).
4. **Lucie A. Low, David A. Seminowicz, Scott J. Thompson, Lina Naso, Magali Millecamps, Laura S. Stone, M. Catherine Bushnell** Chronic neuropathic pain in rats causes long-term increases in anxiety-like behaviours and deficits in attentional abilities. (Joint British/Canadian Pain Society Meeting, Edinburgh, Scotland, 2011).
5. **Maral Tajerian, S.V. Alvarado, Magali Millecamps, M. Szyf, L.S. Stone.** Epigenetic changes in SPARC accompany signs of age-related back pain and disc degeneration (Society for Neuroscience Annual Conference, San Diego, CA, 2010).
6. **C.A. Fairbanks, P.D. Braun, C.L. Wade. L.S. Stone, G.L. Flores nK.F. Kitto, H.O. Nguyen, G.L. Wilcox** Spinal mechanisms Underlying electroacupunctureevoked anti-allodynia in models of chronic pain (Society for Neuroscience Annual Conference, San Diego, CA, 2010).

7. **Anne-Julie Chabot-Doré, Magali Millecamps, Tharsika Sinnathamby, Laura S. Stone** Spinal and systemic morphine antinociception is potentiated in alpha-2A-adrenergic receptor knock-out mice (Society for Neuroscience Annual Conference, San Diego, CA, 2010)
8. **David A. Seminowicz, Timothy H. Wideman, Lina Naso, Zeinab Hatami-Khoroushahi, Summayah Fallatah, Mark A. Ware, Peter Jarzem, Jean A. Ouellet, Yoram Shir, M. Catherine Bushnell, Laura S. Stone** Treating chronic low back pain reverses structural brain changes (International Association for the Study of Pain, Montreal, QC, 2010).
9. **Anne-Julie Chabot-Doré, Magali Millecamps, Tharsika Sinnathamby, Laura S. Stone** A dual role for spinal alpha-2A adrenergic receptors in opioid-adrenergic interactions (International Association for the Study of Pain, Montreal, QC, 2010).
10. **Magali Millecamps, Jan Czerminski, Maral Tajerian, Ji Young Kim, Tharsika Sinnathamby, E. Helene Sage and Laura S Stone.** Parallel Development of Low Back Pain and Intervertebral Disc Degeneration in SPARC-null mice. (International Association for the Study of Pain, Montreal, QC, 2010).
11. **Magali Millecamps, David A. Seminowicz, Audrey L. Laferriere, Laura S. Stone, and M. Catherine Bushnell** Histological brain changes associated with a rat model of long-term neuropathic pain. (International Association for the Study of Pain, Montreal, QC, 2010).
12. **Magali Millecamps, Jan Czerminski, Maral Tajerian, Tharsika Sinnathamby, Jee Young Kim, E. Helene Sage, Laura S. Stone** Concurrent Development Of Low Back Pain And Intervertebral Disc Degeneration In SPARC-Null Mice: A Longitudinal Study (World Forum for Spine Research, Montreal, QC, 2010).
13. **G. L. Wilcox, A. C. Overland, K. F. Kitto, L. S. Stone, C. A. Fairbanks.** The epsilon isoform of protein kinase C (PKCe) mediates the synergistic analgesic interaction between adrenergic and opioid receptors. (Society for Neuroscience, San Diego, CA, 2010, International Association for Study of Pain, Montreal, QC, 2010).
14. **N. Audet, E. Archer-Lahlou, O. Mnie-Filali, M. Amraei, Magali Millecamps, Anne-Julie Chabot-Dore, L. Stone and G. Pineyro.** Functional selectivity determines post-endocytic sorting and tolerance potential of delta opioid receptor (DOR) ligands. (International Narcotics Research Conference, Malmo, Sweden, 2010)
15. **A. Chabot-Doré, M. Millecamps, T. Sinnathamby, L. S. Stone.** A dual role for spinal alpha-2A adrenergic receptors in opioid-adrenergic interactions. (Canadian Association Neuroscience, May 2010, Ottawa).
16. **N. Audet, E. Archer-Lahlou, O. Mnie-Filali, M. Amraei, Magali Millecamps, Anne-Julie Chabot-Dore, L. Stone and G. Pineyro.** Ligand-specific trafficking of delta opioid receptors (DORs). (Canadian Association Neuroscience, May 2010, Ottawa).
17. **Maral Tajerian, Magali Millecamps, E. Helene Sage, Laura S. Stone** Behavioral, Anatomical, And Pharmacological Evaluation Of The SPARC-Null Mouse As A Model Of Low Back Pain Due To Degenerative Disc Disease (World Forum for Spine Research, Montreal, QC, 2010, Dentistry Research Day, McGill University, Montreal, QC, 2010, (Canadian Association Neuroscience, May 2010, Ottawa, International Association for the Study of Pain, Montreal, QC, 2010).
18. **Timothy H. Wideman, David A. Seminowicz, Lina Naso, Zeinab Hatami-Khoroushah, Summaya Fallatah, Yoram Shir, Mark Ware, Katherine M. Anderson, Peter Jarzem, Jean A. Ouellet, Laura S. Stone.** Differential Effects Of

- Surgical Intervention For Low Back Pain On Psychosocial And Physical Factors (World Forum for Spine Research, Montreal, QC, 2010).
19. **David A. Seminowicz, Timothy H. Wideman, Jean A. Ouellet, Peter Jarzem, Yoram Shir, Mark Ware, Summaya Fallatah, Lina Naso, Zeinab Hatami-Khoroushahi, M. Catherine Bushnell, Laura S. Stone** Altered cognitive task-related and resting state fMRI activity associated with chronic low back pain (Organization for Human Brain Mapping, Barcelona, Spain, 2010).
 20. **David A. Seminowicz, Timothy H. Wideman, Lina Naso, Zeinab Hatami-Khoroushahi, Yoram Shir, Summaya Fallatah, Jean A. Ouellet and Laura S. Stone** A longitudinal study of the effects of treatment for chronic low back pain (cLBP) on brain function and structure: preliminary behavioral findings (American Pain Society Annual Meeting, Baltimore, MD, 2010).
 21. **Maral Tajerian, Magali Millecamps, Svetlana Komarova S and Laura S. Stone** Examination of modulatory interactions between sensory neurons and chondrocytes (Canadian Pain Society Annual Meeting, Calgary, AB, 2010).
 22. **Anne-Julie Chabot-Doré, Magali Millecamps, Tharsika Sinnathamby, Laura S. Stone** A dual role for spinal α_{2A} adrenergic receptors in opioid-adrenergic interactions (McGill Pain Day, 2010).
 23. **Jason J. Wolff, Laura S. Stone, Tony Lim, James W. Bodfish, & Frank J. Symons** Salivary Biomarkers of HPA and SAM systems in Adults with Self-Injurious Behavior and Neurodevelopmental Disorders (National Institute of Child Health and Human Development (NICHD) conference on NICHD research conference on intellectual and developmental disabilities, 2010).
 24. **Magali Millecamps, Maral Tajerian, and L.S. Stone** The SPARC-null mouse as a model of low back pain due to degenerative disc disease (Society for Neuroscience Annual Meeting, Chicago, IL, 2009).
 25. **Maral Tajerian, Magali Millecamps and L.S. Stone** "Pharmacological characterization of low back pain in the SPARC-null mouse (Society for Neuroscience Annual Meeting, Chicago, IL, October 2009, McGill Pain Day, 2010).
 26. **A.C. Overland, K.F Kitto, C.A. Fairbanks, L.S. Stone, G.L. Wilcox** Specific involvement of PKC-epsilon in the synergistic interaction between agonists acting at alpha-2-adrenergic and delta-opioid receptors in spinal cord (Society for Neuroscience Annual Meeting, Chicago, IL, October 2009).
 27. **A-J Chabot-Doré, S. Zaretsky and Laura S Stone** Investigating the molecular basis of adrenergic-opioid analgesic synergy (Canadian Pain Society, May 2009).
 28. **A-J Chabot-Doré, S. Zaretsky, G.L. Wilcox and Laura S. Stone** δ opioid receptor immunohistochemistry and western blot analysis in mouse spinal cords: A comparative study between antibodies from multiple sources (Canadian Neuroscience Society, 2008; Society for Neuroscience Annual Meeting, Washington, DC, 2008, McGill Pain Day, 2009).
 29. **A.C. Overland, K.F Kitto, C.A. Fairbanks, L.S. Stone, G.L. Wilcox** Protein kinase C (PKC) mediates the synergistic interaction between alpha-2-adrenergic and delta-opioid receptors in spinal cord (International Narcotics Research Conference, USA, 2008; Society for Neuroscience Annual Meeting, Washington, DC, 2008).
 30. **Magali Millecamps, L. MacIntyre, L.S. Stone** Qualitative innervation of lumbar intervertebral discs in rat (12th World Congress on Pain, Glasgow, Scotland, 2008, McGill Pain Day, 2009).

31. **L.S. Stone, L. MacIntyre, H. Sage, Magali Millecamps** The SPARC-KO mouse as a behaviorally relevant model of low back pain due to degenerative disc disease (12th World Congress on Pain, Glasgow, Scotland, 2008).
32. **Pawan K. Hari, Kathleen M. Anderson, Matthew P. Lee, David S. Beebe, Kumar G. Belani, Ioanna Apostolidou, Sameer D. Gadani, Troy E. Reihisen, Laura S. Stone and Lois J. Kehl** Cerebrospinal fluid ph is associated with pain intensity in human low back pain (12th World Congress on Pain, Glasgow, Scotland, 2008).
33. **Kathleen M. Anderson, Pawan K. Hari, Sameer D. Gadani, Amy M. Hanson, Carrie E. Gustafson, Manuel R. Pinto, Daryll C. Dykes, Joseph H. Perra, Laura S. Stone, and Lois J. Kehl** Evaluation of objective measures of pain and function for translational pain research in lumbar degenerative disc disease (12th World Congress on Pain, Glasgow, Scotland, 2008).
34. **Magali Millecamps, L. MacIntyre, T. Lim, and L.S. Stone** Physiological relevance of a rodent model of degenerative disc disease (American Pain Society Annual Meeting 2008).
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