# MARY C. OLMSTEAD CURRICULUM VITA

# **Affiliation and Contact**

Professor Dept. of Psychology Centre for Neuroscience Studies Queen's University Kingston, ON Canada K7L 3N6 Email: <u>olmstead@queensu.ca</u>

# **EDUCATION**

B.Sc.	Music/Psychology	University of Toronto	1989
M.Sc.	Psychology	McGill University	1991
Ph.D.	Psychology	McGill University	1995

# PROFESSIONAL EXPERIENCE

Chercheuse Invitée 20	017-2018
Laboratoire de Neuroscience Cognitives et Adaptives (LNCA)	
Université de Strasbourg	
Strasbourg, France	
Professor 20	012-present
Department Psychology, Biomedical and Molecular Sciences	
Queen's University	
Kingston, Canada	
0	011-2012
Centre d'Écologie Fonctionnelle Évolutive (CEFE)	
Centre Nationale de al Recherche Scientifique (CNRS)	
Montpellier, France	
Visiting Scientist 20	006-2007
Institut de Génétique et de Biologie Moléculaire et Cellulaire	
Strasbourg, France	
Associate Professor 20	004-2012
Department of Psychology, Pharmacology & Toxicology	
Queen's University	
Assistant Professor 19	998-2004
Department of Psychology, Queen's University	
Senior Research Associate 19	997
Department of Experimental Psychology, University of Cambridge	
Cambridge, UK	
Post Doctoral Fellow 19	995-1997
Department of Experimental Psychology, University of Cambridge	
Cambridge, UK	
Post Doctoral Fellow 19	995
Centre for Studies in Behavioural Neurobiology, Concordia University	
Montreal, Canada	

# AWARDS AND FELLOWSHIPS

Agency	<u>Tenure</u>
Natural Sciences and Engineering Research Council of Canada	2012-2015
Discovery Accelerator Supplement Award	
Visiting Scholar's Program	2009
Faculty of Arts and Science, Queen's University	
Medical Research Council of Canada	1997
Research Fellowship	
Human Frontier Science Program Organization	1995-1997
Long-Term Fellowship	
Natural Sciences and Engineering Research Council of Canada Post Doctoral Fellowship	1995
Fonds pour la formation de Chercheurs et L'Aide à la Recherche du Québec	1995
Post Doctoral Fellowship (not accepted)	
Fonds pour la formation de Chercheurs et L'Aide à la Recherche du Québec	1993-1994
Post Graduate Scholarship	
Natural Sciences and Engineering Research Council of Canada	1991-1993
Post Graduate Scholarship	
Natural Sciences and Engineering Research Council of Canada	1989
Undergraduate Summer Research Fellowship	
St. Michael's College, University of Toronto	1986-1989
Undergraduate Academic Scholarships	
University of Toronto	1984
Undergraduate Admissions Scholarship	
<b>RESEARCH FUNDING</b>	
Agency	<u>Tenure</u>
Principle Investigator	<u>I chui c</u>
Natural Sciences and Engineering Research Council	2020-2025
Discovery Grant	2020 2020
Immune-reward interactions: Contributions of the endocannabinoid system	1
55 000 per annum	
Experiential Learning Fund, Queen's University	2018-2019
Research and Information Science Education (RISE)	
4 000	
Co-application: C. Soutar	
Projet Internationaux de Coopération Scientifique (PICS)	2017-2020
Addiction à la nourriture palatable et épigénétique: Neuroadaptations com	munes aux
drogues?	
21 000 E	
Co-applicant: K. Befort	
Canadian Institutes of Health Research	2012-2018
Operating Grant	
Investigating how gliosis modifies opioid analgesia and reward	
\$147,420 per annum	

Co-applicant: C.M. Cahill	
Natural Sciences and Engineering Research Council of Canada	2012-2018
Discovery Grant	
Interactions between impulsivity and reward: relevance to addiction	
\$65,000 per annum	
Natural Sciences and Engineering Research Council of Canada	2006-2012
Discovery Grant	
The role of impulsivity in the development and maintenance of drug addid	ction
\$37,620 per annum	
Natural Sciences and Engineering Research Council	2009-2010
Research Tools and Instruments	
Electrophysiological workstation to study cellular and molecular bases of	behaviour
\$56,000	
Co-applicant: Eric Dumont and Richard Beninger	
Visiting Scholar's Program	2009
Faculty of Arts and Science, Queen's University	
\$2,977	
France-Canada Research Foundation	2008-2009
Role of opioid receptors in impulsivity	
23,000 E	
Natural Sciences and Engineering Research Council	2006-2007
Research Tools and Instruments	
Rodent Operant Test Chambers	
\$55,343	
Co-applicants: R.J. Beninger, J.L. Menard, H.C. Dringenberg	
Natural Sciences and Engineering Research Council of Canada	2006-2011
Discovery Grant	
The role of impulsivity in the development and maintenance of drug addid	ction
\$37,620 per annum	
Canadian Institutes of Health Research	2006-2009
Proof of Principle Grant, Phase 1	
Cannabinoid Combinations: Novel Products for Pain Relief	
\$123,648	
Co-applicant: J.J. Paquette	
Commercialization Partner: PARTEQ Innovations	
Ontario Problem Gambling Research Centre	2006-2007
Level 1 Research Grant	
Effects of Psychosocial Stress on Risk-Taking in Intoxicated Individuals	
\$10,515	
Natural Sciences and Engineering Research Council of Canada	2002-2006
Discovery Grant	
The role of impulsivity in the development and maintenance of drug addid	ction
\$32,000 per annum	
Advisory Research Committee, Queen's University	2000-2001
Principal's Development Fund Award	

Alcohol intoxication and impulsivity \$7,930	
Co-applicant: T.K. MacDonald Advisory Research Committee, Queen's University	1999-2000
Principal's Development Fund Award	
Effects of early environmental experience on the neural changes associa and drug addiction \$9,888	ted with aging
Co-applicant: H.C. Dringenberg	
Natural Sciences and Engineering Research Council of Canada	1998-2002
Operating Grant	a addiation
Neural and psychological mechanisms underlying the progression of dru \$23,100 per annum	ig addiction
Natural Sciences and Engineering Research Council of Canada	1998
Equipment Grant Neural and psychological mechanisms underlying the progression of dru	addiction
\$16,452	
Advisory Research Committee, Queen's University	1998-1999
Principal's Development Fund Award	
Establishing animal behavoural paradigms of drug addiction \$9,371	
\$7,571	
<b>Co-Applicant</b>	
Institute pour la Recherche en Santé Publique (IReSP)	2021-2024
Consommation excessive de sucre: facteur de risqué pour l'abuse d'alco	
Consommation excessive de sucre: facteur de risqué pour l'abuse d'alco 99 840 E (~75,000 Can\$ per annum)	
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Natural Sciences and Engineering Research Council Research Tools and Instruments Cage Washer \$ 150,000	2010-2011
Principal Investigator: Richard J. Beninger	
Co-applicants: J.L. Menard, H.C. Dringenberg, N. Troje, B. Frost Canadian Institutes of Health Research Operating Grant	2007-2010
Chronic prenatal ethanol exposure changes the pharmacological response and nicotine administration in postnatal life	to acute ethanol
\$107,802 per annum	
Principle Investigator: J.N. Reynolds Natural Sciences and Engineering Research Council	2004-2005
Research Tools and Instruments	2004-2003
Rodent housing infrastructure	
\$10,000	
Principle Investigator: H.C. Dringenberg	
Advisory Research Committee, Queen's University	2003-2004
Principal's Development Fund Award	
The effect of early adversity on adult depression: An animal model	
\$4,000	
Principle Investigator: K.L. Harkness	
Canadian Foundation for Innovation	1998
New Opportunities Award	
Creation of a multi-disciplinary behavioural neuroscience laboratory: Emphasis on neuropathology associated with aging and drug addiction	
\$70,000	
Principle Investigator: H.C. Dringenberg	
Ontario Research and Development Fund	1999
Creation of a multi-disciplinary behavioural neuroscience laboratory:	
Emphasis on neuropathology associated with aging and drug addiction Infrastructure for behavioural neuroscience laboratory	
\$46,200	
Principle Investigator: H.C. Dringenberg	
RESEARCH CONTRACTS	
Organization	<b>Tenure</b>
Pearson Canada	2021
Test bank development: <i>Drugs, Behavior, and Modern Society</i> \$5,000	
Pain Therapeutics Pain Therapeutics Inc. (San Francisco, CA) 2005	
Preclinical assessment of novel oxycodone compounds \$4,544	
EchoTrack Inc. (Ottawa, ON)	2005

Flight pattern assessments of foraging bats		
\$3,000		
Pain Therapeutics Inc. (San Francisco, CA)	2003	
Rewarding and aversive effects of opioid agonist-antagonist combinations	5	
\$14,985		
Pain Therapeutics Inc. (San Francisco, CA)	2002	
Microdialysis of accumbens dopamine in rats following acute administration and		
withdrawal from morphine vs. morphine/ naltrexone combinations		
\$18,696		
Vancouver International Airport Authority and Transport Canada (Ottawa, ON)	2000-2002	
Assessment of a conditioning and suppression unit for bird control		
\$4,500		
Canadian Bird Suppression Technologies (Vancouver, BC)	1999	
Experimental assessment of avoidance learning in birds		
\$2,000		

### **CONSULTING CONTRACTS**

<b>Organization Date</b>	<u>s</u>	
Options for Change (Kingston, ON) 2004	-2005	
Development of outcome assessment tools		
Pain Therapeutics Inc. (San Francisco, CA) 2002-	-2005	
Evaluating abuse potential of novel analgesics		
Ocean Nutrition (Halifax, NS) 2003		
Relationship between neural deficits and attention deficit hyperactivity disorder		
Ontario Substance Abuse Bureau (Toronto, ON) 2002		
Assessment of program restructuring and job descriptions for Ontario service agencies		
Options for Change (Kingston, ON) 2002		
Validation of Intake Assessment Tool to identify client preparedness for group t	herapy	
Canadian Bird Suppression Technologies (CBST), Vancouver BC 2001		
Data analysis from field trial of aversive learning in birds		
	-2001	
Development of intake assessment tool		
Alcohol and Drug Referral Centre (Kingston, ON) 1999		
Program restructuring for addiction services		

### **PUBLICATIONS**

# <u>Books</u>

**Olmstead, M.C.,** & Kuhlmeier, V.A. (2016). *Comparative Cognition*. Cambridge UK: Cambridge University Press.

# **Referred Journal Articles**

Blumberg, M.J., Lo, L.A., Harrison, G.W., & **Olmstead**, **M.C.** (2023). Differential impacts of perceived social support on alcohol and cannabis use in emerging adults: Lessons from the COVID-19 pandemic. <u>University of Toronto Medical Journal</u>, 100(1), 28-39.

Lamontagne, S.J., Wash, S., Irwin, S.H., Zucconi, K.E., & **Olmstead**, **M.C.** (2022). Effects of dopamine modulation on chronic stress-induced deficits in reward learning. <u>Cognitive</u>, <u>Affective</u>, and <u>Behavioral Neuroscience</u>, 22(4), 736-753.

De Sa Nogueira, D., Boudry, R., Alcala-Vida, R., Filliol, D., Andry, V., Goumon, Y., Zwiller, J., Romieu, P., Merienne, K., **Olmstead, M.C.**, & Befort, K. (2022). Hippocampal cannabinoid 1 receptors are modulated following cocaine self-administration in rats. <u>Molecular Neurobiology</u>, 59(3), 1896-1911

Lamontagne, S.J., Winters, M.F., Pizzagalli, D.A., & **Olmstead, M.C.** (2021). Post-acute sequelae of COVID-19: Evidence of mood and cognitive impairment. <u>Brain, Behavior, and Immunity – Health</u>, 17:100347.

Soutar, C.N., Grenier, P., Patel, A., Kabitsis, P., **Olmstead, M.C.**, Bailey, C.D.C. & Dringenberg, H.C. (2021). Brain-generated 17β-estradiol modulates long-term synaptic plasticity in the primary auditory cortex of adult male rats. <u>Cerebral Cortex</u>, Oct 9:bhab345.

Bourdy, R., Hertz, A., Filliol, D., Andry, V., Goumon, Y., Mendoza, J., **Olmstead**, **M.C.**, & Befort, K. (2021). The endocannabinoid system is modulated in reward and homeostatic brain regions following diet-induced obesity in rats: A cluster analysis approach. <u>European Journal of Nutrition</u>, 60(8), 4621-4633.

De Sa Nogueira, D., Bourdy, R., Fillioil, D., Awad, G., Andry, V., Goumon, Y., **Olmstead, M.C.**, & Befort, K. (2021). Binge sucrose-induced neuroadaptations: A focus on the endocannabinoid system. <u>Appetite</u>, 164, 105258.

Grenier, P., Sunavksy, A., & **Olmstead**, M.C. (2021). Morphine induces upregulation of neuronally-expressed CB2 receptors in the spinal dorsal horn of rats. <u>Cannabis and Cannabinoid</u> <u>Research</u>, 16(2), 137-147.

Lamontagne, S.J., Wilkin, M.M., Menard, J.L., & **Olmstead**, M.C. (2021). Midadolescent stress differentially affects sucrose bingeing across estrous cycles in female rats. <u>Physiology and Behavior</u>, 228, 113194

Lamontagne, S.J., Pizzagalli, D., & **Olmstead**, M.C. (2020). Does inflammation link stress to poor COVID-19 outcomes? <u>Stress and Health</u>, 37(3), 401-414.

Kuhlmeier, V.A., Karasewich, T.A., & **Olmstead**, M.C. (2020). Teaching animal learning and cognition: adapting to the online environment. <u>Comparative Cognition and Behavior Reviews</u>, 15, 187-198.

Jian, P., Stewart, T.C., & **Olmstead**, **M.C.** (2020). Implementing incentive sensitization theory of addiction with NENGO neural simulator. <u>International Conference on Cognitive Modeling</u>, page 115-121.

Cahill, C.M., Holdridge, S.V., Liu, S., Xue, L., Magnussen, C., Ong, E., Grenier, P., Sutherland, A., & **Olmstead, M.C.** (2020). Delta opioid receptor activation modulates affective pain and modality-specific pain hypersensitivity associated with chronic neuropathic pain. <u>Journal of Neuroscience Research</u> (July 5 2020) doi: 10.1002/jnr.24680

Lamontagne, S.J., Kuhlmeier, V.A., & **Olmstead**, M.C. (2020). Comparative cognition and cognitive ecology in the classroom. <u>Canadian Journal of Experimental Psychology</u>, 74(3), 176-182.

Correia, C., Romieu, P., **Olmstead, M.C.**, & Befort, K. (2020). Can cocaine-induced neuroinflammation explain maladaptive cocaine-associated memories? <u>Neuroscience and</u> <u>Biobehavioral Reviews</u>, 111, 69-83. Awad, G., Roeckel, L.A., Massotte, D., **Olmstead, M.C.**, & Befort, K. (2020). Deletion of mu opioid receptors reduces palatable solution intake in a mouse model of binge eating. <u>Behavioural Pharmacology</u>, 31, 249-255.

Grenier, P., Maihiot, M.C., Cahill, C.M., & **Olmstead**, M.C. (2020). Blockade of dopamine D1 receptors disrupts morphine reward in pain naïve but not chronic pain states. Journal of Neuroscience Research (Nov. 12 2020) doi: 10.1002/jnr.24553.

\*special issue on opioids and pain

Liu, S., Pickens, S., Taylor, A.M., Yang, H., Xue, L., Williams, P., Cook, C. Burma, N., Hakimian, J.K., Saverino, A., Ibarra, I., Lueptow, L., Carroll, F.I., Andrews, A.M., **Olmstead**, **M.C.**, Walwyn, W., Trang, T., Evans, C.J., Leslie, F. & Cahill, C.M. (2019). Kappa opioid receptors drive the tonic aversive component of chronic pain. <u>Journal of Neuroscience</u>, 39, 4162-4178.

Lamontagne, S.J. & **Olmstead**, M.C. (2019). Animal models in addiction research: A dimensional approach. <u>Neuroscience and Biobehavioural Reviews</u>, 106, 91-101.

\*invited review

\*Special issue on Addiction: A neurobiological and cognitive brain disorder

Maracle, A.C., Normandeau, C.P., Dumont, E.C., & **Olmstead**, M.C. (2019). Dopamine in the bed nucleus of the stria terminals contributes to compulsive responding for sucrose in rats. <u>Neuropsychopharmacology</u>, 44, 381-389. \*F1000

Roeckel, L.A., Massotte, D., **Olmstead, M.C.**, & Befort, K. (2018). CB1 agonism alters addiction-related behaviours in mice lacking mu or delta opioid receptors. <u>Frontiers in</u> <u>Psychiatry, 9</u>, 630.

Lamontagne, S.J., Melendez, S.I., & **Olmstead**, **M.C.** (2018). Investigating dopamine and glucocorticoid systems as underlying mechanisms of anhedonia. <u>Psychopharmacology</u>, 235, 3103-3113.

Smail-Crevier, R.L., Maracle, A.C., Wash, S.I., & **Olmstead**, **M.C.** (2018). Binge-like intake of sucrose reduces the rewarding value of sucrose in adult rats. <u>Physiology and Behavior</u>, <u>194</u>, 420-429.

Lamontagne, S.J. & **Olmstead**, **M.C.** (2018). Animal models in addiction research: A dimensional approach. <u>Neuroscience and Biobehavioural</u> Reviews, Oct. 8 Epub.

Grenier, P., Wiercigroch, D., **Olmstead**, **M.C.**, & Cahill, C.M. (2018). Dissociation between morphine-induced spinal gliosis and analgesic tolerance by ultralow dose α2-adrenergic and cannabinoid CB1 receptor antagonists. <u>Behavioural Pharmacology</u>, 29, 241-254. \*Special issue on pain research

Mahoney, M.K., Barnes, J.H., Wiercigroch, D., & **Olmstead**, M.C. (2016). Pharmacological investigations of a yohimbine-impulsivity interaction in rats. <u>Behavioural</u> <u>Pharmacology</u>, 27, 585-595.

Lamontange, S.J., **Olmstead, M.C.**, & Menard, J.L. (2016). The lateral septum and anterior hypothalamus act in tandem to regulate burying in the shcok-probe test but not open-arm avoidance in the elevated plus-maze. <u>Behavioural Brain Research</u>, 314, 16-20.

Kuhlmeier, V.K., & **Olmstead, M.C.** (2016). Keep calm and Comp. Cog. On Commentary: A crisis in comparative psychology: Where have all the undergraduates gone? <u>Frontiers in Psychology, 7</u>, 20.

Taylor, A.M.W., Castonguqy, A., Ghogha, A., Vayssiere, P., Pradhan, A.A., Xue, L., Wu, J, Levitt, P., **Olmstead, M.C.**, De Koninck, Y., Evans, C.J., & Cahill, C. M. (2016).

Neuroimmune regulation of GABergic neurons within the ventral tegmental area during withdrawal from chronic morphine. <u>Neuropsychopharmacology</u>, 41, 949-959.

Taylor, A., Castonguay, A., Taylor, A.J., Murphy, N.P., Ghogha, A., Cook, C., Xue, L, **Olmstead, M.C.**, De Konick, Y., Evans, C.J., & Cahill, C.M. (2015). Microglial disrupt

mesolimbic reward circuitry in chronic pain. <u>Journal of Neuroscience</u>, <u>35</u>, 8442-8450. Magrys, S.A., **Olmstead**, **M.C.** (2015). Acute stress increases voluntary consumption of

alcohol in undergraduates. <u>Alcohol and Alcoholism, 50</u>, 213-218.

Ong, E.W., Xue, L., **Olmstead, M.C.**, Cahill, C.M. (2015). Prolonged morphine treatment alters delta opioid receptor post-internalization trafficking. <u>British Journal of</u> <u>Pharmacology, 172</u>, 615-629.

Magrys, S.A., & **Olmstead**, **M.C.** (2014). Alcohol intoxication alters cognitive skills mediated by frontal and temporal brain regions. <u>Brain and Cognition</u>, 85, 271-276.

Mahoney, M.K., Silveira, M.M., & **Olmstead**, **M.C.** (2013). Increased impulsive action in rats: Effects of morphine in a short and long fixed-delay response inhibition task. <u>Psychopharmacology</u>, 230, 569-577.

Cahill, C.M., Xue, L., Holdridge, S., Grenier, P., Magnussen, C., Metcalfe, S., LeCourse, S., & **Olmstead, M.C.** (2013). Changes in morphine reward in a model of neuropathic pain. <u>Behavioural Pharmacology</u>, 24, 207-213.

Mahoney, M.K., & **Olmstead**, **M.C.** (2013). Neurobiology of an endophenotype: Modelling the progression of alcohol addiction in rodents. <u>Current Opinions in Neurobiology</u>, 23, 607-614.

Magrys, S.A., Wynne-Edwards, K.E., **Olmstead**, **M.C.**, & Balodis, I.S. (2013). Biochemical responses to alcohol intoxication in healthy males: relationship with impulsivity, drinking behaviour and subjective effects. <u>Psychophysiology</u>, 50, 204-209.

Magrys, S.A., Wynne-Edwards, K.E., **Olmstead**, M.C., & Balodis, I.S. (2012). Biochemical responses to alcohol intoxication in healthy males: relationship with impulsivity, drinking behaviour and subjective effects. <u>Psychophysiology</u> (accepted).

Shea, A.J, Hewitt, A.M., **Olmstead**, M.C., Brien, J.F., & Reynolds, J.M. (2012). Moderate ethanol consumption by the pregnant guinea pig produces neurobeahvioural deficits and increases ethanol preference in offspring. <u>Behavioural Pharmacology</u>, 23, 105-112.

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Kofman, O., McGlynn, S., **Olmstead, M.C.** & Yeomans, J.S. (1990). Differential effects of atropine, procaine, and dopamine in the rat ventral tegmentum on lateral hypothalamic rewarding brain stimulation. <u>Behavioural Brain Research</u>, 38, 55-68.

### **Edited Books**

**Olmstead**, M.C. (Ed.) (2016). <u>Animal Cognition: Principles, Evolution, and</u> <u>Development</u>. New York, NY: Nova Press Inc.

**Olmstead, M.C.** (Ed.) (2015). <u>Psychology of Impulsivity</u>. New York, NY: Nova Press Inc.

**Olmstead, M.C.** (Ed.) (2011). <u>Animal Models of Drug Addiction.</u> Totowa NJ: Humana Press Inc.

## **Book Chapters**

**Olmstead, M.C.**, & Kuhlmeier, V.A. (2021). Comparative cognition. In: Ridley, A.R., d'Ettorre, P., & Freeberg, T.M. (Eds.) <u>Handbook of Comparative Psychology</u>. New York: Routledge, Taylor and Francis.

Awad, G., Befort, K., & **Olmstead, M.C.** (2020). Artificial sweeteners in animal models of binge eating. In: Avena, N.M. (Ed.) <u>Animal Models of Eating Disorders</u>. Volume in Neuroscience Methods Series. New York NY: Springer Inc

Hancock, S.D., & **Olmstead**, **M.C.** (2011). Animal models of eating disorders. In: Olmstead, M.C. (Ed.). <u>Animal Models of Drug Addiction</u>. Totowa NJ: Humana Press Inc.

Balodis, I.M. & **Olmstead**, M.C. (2009). Laboratory measures of risk-taking: Relevance to pathological gambling. In: Columbus, F.E. (Ed.). <u>The Psychology of Gambling</u>. Hauppauge HY: Nova Science Publishers.

Hayton, S.J. & **Olmstead**, **M.C.** (2009). Fractionating animal models of motor impulsivity: Reconciling the neurochemistry of disinhibition. In: Granon, S. (Ed.) <u>Endophenotypes of psychiatric and neurodegenerative disorders in animal models</u>. Kerala India: Transworld Research Network.

Burns, L.H., Leri, F. & **Olmstead**, M.C. (2006). Ultra-low-dose naltrexone reduces dependence and addictive properties of opioids. In: Dean, R., Bilsky, E., Negus, S. & Wickens J. (Eds.). <u>Opioid Receptors and Antagonists: From Bench to Clinic</u>. Volume in Contemporary Neuroscience Series.

Beninger, R.J. & **Olmstead**, **M.C.** (1999). The role of dopamine in the control of locomotor activity and reward-related incentive learning. In: Miller, R. & Wickens, J. (Eds.) <u>Brain Dynamics and the Striatal Complex</u>. Chur, Switzerland: Harwood Academic Publishers.

### **Technical Reports**

Simpson, J & Olmstead, M.C. (2009). Internet addiction in university students: what to look for. <u>Report to Queen's University residence Dons and student advisors.</u>

Dennis, K. & **Olmstead**, M.C. (2001). Community Stabilisation Program at Options for Change, Kingston Ontario. <u>Submission to Ontario Substance Abuse Bureau and Ontario</u> <u>Addiction Services Advisory Council</u>. Millikin, R.L., Dysarsz, H., Matsuda, B. & **Olmstead**, M.C. (2000). Efficacy of the Suppression and Conditioning Apparatus and the Consequent Behaviour Modification in Birds. Report to Transport Canada and Vancouver International Airport Authority.

## **Conference Presentations**

I presented my first poster at a scientific meeting in 1991 (Society for Neuroscience). Since then, I have presented a total of 152 posters at national and international meetings (e.g., Canadian Society for Brain, Behaviour and Cognitive Science, European Behavioural Pharmacology Society, International Society for Behavioral Neuroscience, Society for Neuroscience, etc.).

# **INVITED TALKS**

**Olmstead, M.C.** Comparative cognition in conservation. <u>Psychologie a Université de</u> <u>Strasbourg</u>, Strasbourg France, June 2023.

**Olmstead, M.C.** Reward-immune interactions uncover risk factors for Long COVID. <u>Canadian Association for Psychologists for Disability Assessment</u>, Toronto ON Dec. 2022.

**Olmstead, M.C.** Animal models of addictive disorders. <u>NeuroFrance</u>, Illkirch France, May 2022.

**Olmstead, M.C.** Reward-immune interactions link sucrose-bingeing rats to COVID-19 patients. <u>McMaster Neuroscience Graduate Program Colloquium</u>, Hamilton ON Nov. 2021.

**Olmstead, M.C.** Reward-immune interactions: How COVID-19 reshaped our research program. <u>University of Toronto, Brain and Behaviour Seminar Series</u>, Toronto ON March 2021.

**Olmstead M.C.** Studying addiction within a dimensional framework. <u>International</u> conference on Neurology and Neuro Disorders. Paris France, Sept. 2020.

**Olmstead, M.C.** The morning after (legalization): What can we learn from neuroscience research? Science College Public Lecture, Montreal QU, Oct. 2018.

This lecture on the public understanding of science was covered in a number of news agencies including: *Evidence proves teens at risk from marijuana*. The Laval news Nov 7, 2018. https://www.lavalnews.ca/2018/11/07/teens-at-risk-from-marijuana/

**Olmstead**, **M.C.** The opioid epidemic: this is not fake news. <u>Laboratoire de Cognitives et</u> <u>Neurosciences Adaptives</u>, Strasbourg France June 2018.

McKay M., Maihiot, M., Grenier, P., & **Olmstead**, **M.C.** Disruption of morphine reward by dopamine D1 antagonism in pain-naïve but not chronic pain states. <u>Southern Ontario</u> <u>Neuroscience Association</u> Guelph ON May 2018.

**Olmstead, M.C.** Transitioning to drug abuse: Insight from animal models. Regard croisés sur Les Addiction. <u>Université de Strasbroug</u>. Strasbourg France April 2018.

**Olmstead**, **M.C.** Lost in translation: Moving from human to animal studies of anhedonia. Institut des Neurosciences Cellulaires et Integratives, Strasbourg, France Sept. 2017.

**Olmstead, M.C.** Neurocircuitry of binge eating: Alterations in reward processing. <u>Canadian College of Neuropsychopharmacology</u>, Kingston ON, June 2017.

**Olmstead, M.C.** Banting Postdoctoral Fellowships: Recommendations for applicants. <u>School of Graduate Studies, Queen's University</u>. Kingston ON. June 2016, 2017.

Olmstead, M.C. This is your brain on drugs. Student Outreach, Kingston ON, May 2017.

**Olmstead, M.C.** Basic-Applied translation in alcohol research. <u>Alcohol Working Group,</u> <u>Dean of Student Affairs</u>, Queen's University. March 2017 **Olmstead, M.C.** Animal models of psychiatric disorders: Addiction. <u>Dept. of Psychiatry</u> <u>Grand Rounds, Queen's University School of Medicine</u>. Kingston ON. Feb. 2017.

**Olmstead, M.C.** Neurobiology of an endophenotype: modeling the progression of alcohol addiction in rodents. <u>International Conference and Exhibition on Addiction</u>, Orlando, Florida, Aug, 2015. (declined).

**Olmstead, M.C.** Risk factors associated with excessive drinking in undergraduates. <u>Behavioral Neuroscience Summer Seminar Series</u>, Kingston, ON, May 2015.

**Olmstead, M.C.** Addiction: This is your brain on drugs. <u>Outreach Kingston Frontenac</u> <u>Public Library</u>, Kingston, ON, Feb., 2015.

**Olmstead, M.C.** Neuroscience of Homeopathy. <u>Centre for Studies in Behavioural</u> <u>Neurobiology</u>, Montréal, QUE, Feb., 2015.

**Olmstead, M.C.** Neurobiology of Impulsivity: Relevance to Addiction. <u>Dept of</u> <u>Psychology, Concordia University</u>, Montreal, QUE, Feb., 2015.

**Olmstead**, **M.C.** The feasibility of ultra-low dose compounds to treat chronic pain. <u>Kingston Orthopaedic Pain Institute</u>, Kingston ON, Dec., 2014.

**Olmstead, M.C.** Behavioural effects of ultra-low dose antagonism: Is less more? <u>Douglas Research Institute, McGill University</u>, Montreal QUE, Dec. 2013.

**Olmstead, M.C.** Ultra-low dose antagonist effects of cannabinoids and opioids: Is less more? <u>Abcan Medicinals Organization Meeting</u>, Kingston ON, Oct. 2013.

**Olmstead**, **M. C.** Neurobiology of Impulsivity: Relevance to Addiction. <u>Canadian</u> <u>Academy of Health Sciences</u>, Ottawa ON, Sept. 2013.

**Olmstead, M.C.** Cortico-striatal circuits in controlling responding for incentive stimuli. <u>Canadian Congress on Neuropsychopharmacology</u>, Toronto ON, June 2013.

**Olmstead**, **M.C.** Affective states associated with chronic pain. <u>International Congress on</u> <u>Neuropathic Pain</u>, Toronto ON, May 2013.

**Olmstead, M.C.** Animal models of psychiatric disorders: A focus on addiction. <u>Dept.</u> <u>Psychiatry</u>, Queen's University Kingston ON, Feb. 2013.

**Olmstead**, **M. C.** Behavioral and neural effects associated with sucrose bingeing. <u>Winter</u> <u>Conference on Brain Research</u>, Snowmass CO, Jan. 2013

**Olmstead, M.C.**, Mahoney, M.K., & Hayton, S.J. Behavioral traits predicting alcohol intake in rats: Anxiety, novelty-seeking and cognitive flexibility. *Nanosymposium on Vulnerability to Drug Self-Administration and Addiction*. <u>Society for Neuroscience</u>, New Orleans LA, Oct. 2012.

**Olmstead, M.C.** Evolution of Psychological Traits: The Cost of Language and other Cognitive Functions. <u>Université de Montpellier II</u>, Montpellier, France, Mar. 2012.

**Olmstead, M.C.** Comparative cognition: Synthesis of experimental psychology and behavioural ecology. <u>Centre d'Ecologie Functionelle et Evolutive</u>, Montpellier France, Oct. 2011.

Mahoney, M.K., Befort, K., & **Olmstead**, M.C. Mu opioid signalling increases motor impulsivity in a set delay response inhibition task in rodents. <u>European Behavioural</u> <u>Pharmacology Society</u>, Amsterdam Netherlands, Aug. 2011.

**Olmstead, M.C.** Developmental factors contributing to impulsivity. <u>EPS Global</u> <u>International Forum on Neuroscience</u>, Jiangsu China July 2011. (*not accepted*). Mahoney, M.K., Befort, K., & **Olmstead**, M.C. Mu opioid signalling increases motor impulsivity in a set delay response inhibition task in rodents. <u>European Behavioural</u> <u>Pharmacology Society</u>, Amsterdam Netherlands, Aug. 2011.

Hayton, S.J., Dumont, E.C., **Olmstead, M.C.** Waiting for 'The Go': Neural substrates of impulse control in the medial prefrontal cortex. <u>Canadian Society for Brain, Behaviour, and</u> <u>Cognitive Science</u>, Winnipeg MA, June 2011.

**Olmstead, M.C.** Modelling the progression of drug addiction: A French-Canadian collaboration. <u>Seminar on Neurosciences</u>, General Consulate of France in Toronto (Office for Science and Technology). Toronto Ontario, Oct. 2010.

Hayton, S.J., & **Olmstead**, M.C. Target-specific enhancement of synaptic strength following training in a simple impulse control task. <u>European Behavioural Pharmacology</u> <u>Society</u>. Rome Italy, Sept. 2009.

Magnussen, C., Sutherland, K.A., **Olmstead**, M.C. & Cahill, C.M. Conditioned place preference predicts drug effectiveness in alleviating neuropathic pain. <u>International Narcotics</u> <u>Research Conference</u>, Portland OR, July 2009.

**Olmstead, M.C.** A Role for Mu Opioid Receptors in Impulsivity. <u>International</u> <u>Behavioural Neuroscience Society</u>. Nassau Bahamas, June 2009

**Olmstead, M.C.** Addiction: This is your brain on drugs. <u>Shad Valley Summer</u> <u>Enrichment Program</u>, Kingston ON, June 2009.

**Olmstead, M.C.** Impulsivity and Addiction: Incorporating Nicotine. <u>Nicotine/tobacco</u> <u>CTCRI ICE team meeting</u>. McGill University, Montreal QC, Dev., 2008.

**Olmstead, M.C.** Developmental Neurobiology: Early Life Stress and Adult Psychopathology. <u>Canadian Society for Brain, Behaviour and Cognitive Science</u> (symposium organizer) London ON, June 2008.

**Olmstead, M.C.** Alcohol intoxication in undergraduates: Alterations in cognitiveaffective processing. <u>Psychology Seminar Series, Carleton University</u>, Ottawa ON, Feb. 2008.

**Olmstead**, **M.C.** A role for mu-opioid receptors in impulsivity. <u>Winter Conference on</u> <u>Brain Research</u>, Snowbird UT, Jan. 2008.

**Olmstead, M.C.** Alcohol intoxication in undergraduates: Alterations in cognitiveaffective processing. <u>Psychology Seminar Series, Brock University</u>, St. Catherines ON, Jan. 2008.

**Olmstead**, M.C. :Ultra-low dose cannabinoids modulate pain mechanisms. <u>Astra-</u> Zeneca Invited Authority Series, Montreal QC, Dec., 2007.

**Olmstead**, **M.C.** Opioid mechanisms in addictive behaviours. <u>Institut de Génétique et de</u> <u>Biologie Moléculaire et Cellulaire</u>, Illkirch France, March 2007.

**Olmstead, M.C.** Variations in maternal care influence vulnerability to stress-induced binge eating in female rats. <u>Winter Conference on Brain Research</u>, Snowmass CO, Jan, 2007.

**Olmstead, M.C.** Animal models of drug addiction: Where do we go from here?. <u>Institut</u> de Génétique et de Biologie Moléculaire et Cellulaire, Illkirch France, Sept. 2006.

**Olmstead, M.C.** Modeling drug abuse in rats: the role of impulsivity. <u>Dept. of</u> <u>Psychology Colloquium Series, Memorial University of Newfoundland</u>, St. John's NFLD, June 2006.

**Olmstead, M.C.** Modeling drug abuse in rats: the role of impulsivity. <u>Dept. of</u> <u>Psychology Colloquium Series, University of Ottawa</u>, Ottawa ON, March 2006. **Olmstead, M.C.** Principles of animal learning applied to species control. <u>ECHOTRACK, RMC</u>, Ottawa ON, March 2006.

**Olmstead, M.C.** Animal models of drug addiction: where do we go from here? <u>Centre</u> <u>of Excellence for Drug Discovery, GlaxoSmithKline Pharmaceuticals</u>, Verona Italy, Aug. 2005.

**Olmstead, M.C.** Cannabinoid mechanisms in pain and analgesia. <u>Universidad Pompeu</u> <u>Fabra</u>, Barcelona Spain, Aug. 2005.

**Olmstead, M.C.** The 'ultra-low dose' story. <u>Institut de Génétique et de Biologie</u> <u>Moléculaire et Cellulaire</u>, Illkirch France, Aug. 2005.

Pohl, J., Paine, T.A., Dringenberg, H.C. & **Olmstead**, **M.C.** Adult/adolescent differences in synaptic plasticity following chronic cocaine exposure. <u>Brain, Behaviour and Cognitive</u> <u>Science Annual Meeting</u>, Montreal QC, June 2005.

**Olmstead, M.C.** Addiction as a disorder of impulse control. <u>Dept. of Psychology</u> <u>Colloquium Series</u> University of Guelph, Guelph ON, March 2005.

**Olmstead, M.C.** Drug addiction and impulsivity: what is the relationship? <u>University of</u> <u>Toronto at Mississauga Colloquium Series</u>, Toronto ON, Feb. 2005.

Hancock, S.D., Menard, J.L. & **Olmstead**, **M.C.** Variations in maternal care influence vulnerability to stress-induced binge eating in female rats. <u>Brain, Behaviour and Cognitive</u> <u>Science Annual Meeting</u>, St. John's NF, June 2004.

Hellemans, K.G.C. & **Olmstead**, **M.C.** Early environmental experience influences impulsive choice following alcohol intoxication. <u>Brain, Behaviour and Cognitive Science</u> <u>Annual Meeting</u>, Hamilton ON, June 2003.

Paine, T.A., Dringenberg, H.C. & **Olmstead**, **M.C.** Effects of chronic cocaine on impulsivity: relation to cortical serotonin mechanisms. <u>Brain, Behaviour and Cognitive Science</u> <u>Annual Meeting</u>, Hamilton ON, June 2003.

**Olmstead, M.C.** What have we learned from animal models of drug addiction? <u>Winnipeg Regional Health Care Workers</u>, Winnipeg MA, April 2003

**Olmstead, M.C.** Impulsivity and drug addiction: what is the relationship? <u>Department</u> <u>of Pharmacology and Toxicology Seminar Series</u>, Queen's University, Kingston ON, March 2003.

**Olmstead, M.C.** Neurochemistry of Love / La Neuropsychologie de l'Amour <u>Department de Francais Invited Colloquium</u>, Queen's University, Kingston ON, March 2003.

Hellemans, K.C.G. & **Olmstead**, **M.C.** Adverse early experience: influences on the propensity to abuse drugs. <u>Department of Psychology Colloquium</u>, University of Alberta, Edmonton AB, March 2003.

Hellemans, K.C.G. & **Olmstead**, **M.C.** Effects of early environmental experience on neural and behavioural changes implicated in drug abuse. <u>Animal Cognition Seminar Series</u>, University of Western Ontario, London ON, Oct. 2002.

**Olmstead, M.C.** Modeling drug abuse with IV drug self-administration in rats neurobiology of drug craving versus drug-taking. <u>Neuroscience Seminar Series</u>, University of Alberta, Edmonton AB, Oct. 2000.

Millikin, R.L., Dysarsz, H., Matsuda, B. & **Olmstead**, M.C. Feasibility of a suppression and conditioning apparatus as a means of bird control. <u>Vancouver International Airport</u>, Vancouver BC, Dec. 2000.

**Olmstead, M.C.** Brain mechanisms underlying drug dependence in rats. <u>Pharmacology</u> <u>Seminar Series</u>, McGill University, Montreal QUE, Nov. 2000.

**Olmstead, M.C.** Classical conditioning and avoidance learning in animals. <u>Vancouver</u> <u>Airport Authority and Ministry of Transportation</u>, Vancouver BC, June 2000

**Olmstead**, **M.C.** Isolation of factors that mediate drug-seeking and drug-taking in the rat self-administration paradigm. <u>National Institute of Drug Abuse</u>, Baltimore MD, June 2000.

**Olmstead, M.C.** Psychological factors mediating the self-administration of abused drugs. <u>Neuroscience Seminar Series</u>, Queen's University, Kingston ON, Oct. 1999.

**Olmstead, M.C.** Reward mechanisms beyond the ventral striatum: The role of the NBM in conditioned and unconditioned responses to appetitive stimuli. <u>British Association for</u> <u>Psychopharmacology</u> and <u>Canadian College of Neuropsychopharmacology Annual Meeting</u>, Cambridge UK, July 1997.

**Olmstead, M.C.** The pedunculopontine tegmental nucleus: Part II. <u>Grindley Seminar</u> <u>Series</u>, Dept. of Experimental Psychology, University of Cambridge, Cambridge, UK, June 1997.

**Olmstead, M.C.** Fractionation of reward-related processes: A neurobiological approach. <u>Psychology Colloquim Series</u>, Queen's University, Kingston ON, June 1997.

**Olmstead, M.C.** Integration of motivation and cognition at the level of the brainstem pedunculopontine tegmental nucleus. <u>Grindley Seminar Series</u>, Dept. of Experimental Psychology, University of Cambridge, Cambridge UK, Feb. 1996.

**Olmstead, M.C.** Learning about reward in the conditioned place preference paradigm. <u>Animal Learning Lunch-Time Seminar Series</u>, Dept. of Experimental Psychology, University of Cambridge, Cambridge UK, Nov. 1995.

### PATENTS

Title:	Methods and therapies for potentiating therapeutic activities of a cannabinoid
	receptor agonist via administration of a cannabinoid receptor antagonist
Date filed:	Aug. 26, 2005
<b>Countries:</b>	Canada/USA
<b>Co-inventor:</b>	Jay J. Paquette
Serial No.	US Provisional Patent Application No. 60/711,813

# **TEACHING**

<u>Undergraduate Courses</u>	
History of Modern Psychology	2013-present
Comparative Cognition	2009-preent
Behavioral Pharmacology	2019-2022
Comparative Cognition: Lab in Animal Learning	2016
Brain and Behaviour	2015
Psychopharmacology	2005, 2007-2011
Research Problems in Animal Learning	2005
Brain and Emotion	2003
Neuropsychology	2001
Neurobiological Bases of Drug Addiction	2000
Experimental Analysis of Behaviour: Learning	1999-2008
Brain and Behaviour II	1999-2001
Neurobiology of Learning and Memory	1998, 1999

Graduate Courses	
Cognitive Neuropharmacology	2019
Écologie Comportementale (team taught)	2011
Comparative Neurocognition	2009, 2012-14, 2019
Neuroethology	2007, 2010
Animal Learning / Behavioural Ecology	2002, 2004, 2008
Basic Principles of Behavioural Neuroscience (team taught)	2001
Student Supervision	
Currently: 2 PhD, 1 MSc, 4 BSc students	
Graduated: 3 PDF, 14 PhD, 22 MSc and 58 BSc students.	
ADMINISTRATION	
Grant Review Panels	
Canadian Institutes of Health Research (CIHR)	2020-2023
Pharmacology and Toxicology committee member	
New Frontiers in Research Fund (NFRF) Exploration Chair	2020-2021
New Frontiers in Research Fund (NFRF) Exploration	2018-2020
Committee member: NSERC representative	
Science Foundation Ireland	2017
Strategic Partnership Program (O'Mara)	
Canadian Institutes of Health Research	2017-2020
College of Reviewers	
Natural Sciences and Engineering Research Council of Canada	2017-2018
Chair: Banting Postdoctoral Fellowship Awards	
Natural Sciences and Engineering Research Council of Canada	2014-2017
Banting Postdoctoral Fellowship Awards	
National Institute of Health (NIH: USA)	2012-2013
Biobehavioral and Behavioral Processes Integrated Review Group	
Biobehavioral Regulation, Learning and Ethology Study Section	
Agence Nationale de la Recherche (France)	2012-2015
Executive Review Committee: Neuroscience	
Centre National de la Recherche Scientifique (France)	2012
Habilitation à Diriger les Recherches en Sciences de la Vie	
Natural Sciences and Engineering Research Council of Canada	2010-2011
Co-chair, Biological Systems and Function	
Natural Sciences and Engineering Research Council of Canada	2007-2009
Committee member, Brain Behaviour and Cognition	
Canadian Institutes of Health Research	2001-2006
Behavioural Sciences A Committee	
Editorship	
Editorial Board, Reviewing Editor	2019-
Public Library of Science (PLoS) One	

Special Issue: Substances Use, Misuse, and Dependence: Prevention and Treatment	
Editorial Board	2014-2019
International Journal of Neurology Research	
International Editorial Advising Board	
Current Drug Research Reviews	2018-
Current Drug Abuse Reviews	2007-2018
Field Editor	2006-2018
Quarterly Journal of Experimental Psychology	

# **Grant Reviewer**

Agence Nationale de la Recherche (France) Canada Research Chairs Renewal (Tier II) Canadian Institutes of Health Research Canadian Foundation for Innovation Children's Hospital of Eastern Ontario Medical Research Council of Canada Medical Research Council (UK) Michael Smith Foundation for Human Research Misssion Interministérielle de Lutte contra la Drogue et al Toxicomaine (MILDT) (France) Natural Sciences and Engineering Research Council of Canada Netherlands Organization for Health Research and Development (EU) Nova Scotia Mental Health Foundation Ontario Mental Health Foundation Toronto Hospital for Sick Children

#### Journal Reviewer

Behavioral Neuroscience Behavioural Brain Research Behavioural Pharmacology Brain Research Brain Research Bulletin Brain Research Reviews European Journal of Neuroscience Journal of Neuroscience Music Perception Neuropsychopharmacology Neuroscience Psychopharmacology Physiology and Behavior Psychopharmacology

# Department of Psychology, Queen's University

Queen's University Faculty Association (QUFA) Council Rep	2018-
Associate Head: Teaching and Learning	2014-2017

Cognitive Neuroscience Research Group2021Promotion, renewal and tenure2013-2014Appointments2013-2014Animal Advisory Group2012-2019Space Committee2008-2010Appointments2005-06, 2007-08Promotion, renewal and tenure2005-06, 2007-08Behavioural neuroscience comprehensive exam1998-presentWorld wide web co-ordinator1998-1999Committee Member2021-2022Covin Space Committee2021-2022COVID Space Committee2021-2022COVID Space Committee2021-2022Priorities and Procedures (non-voting member)2014-2017Undergraduate2014-2015Priorities and Procedures2008-2011Headship2014-2015Priorities and Procedures2005-2006Appointments2005-2006Appointment2005-2006Appointments2004-2005, 2009-10Priorities and Procedures2004-2005, 2009-10Priorities and Procedures2005-2006Appointments2004-2005, 2009-10Priorities and Procedures2004-2005, 2009-10Priorities and Procedures2004-2005, 2009-10Priorities and Procedures2005-2006Appointments2004-2005, 2009-10Priorities and Procedures1999-2003, 2007-10Undergraduate academic advisor1999-2003, 2007-10Undergraduate academic advisor1999-2003, 2007-10Space committee1999-2003, 2007-10Undergraduate academic advisor1999-2003, 2007-10<
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Ad Hoc Duties
CRC Search 2012
NSERC USRA rankings 2009
NSERC PGSA rankings 2009
Psychology Careers Night, guest speaker 2003
Psychology degrees, orientation for incoming students 2003
APA graduate research scholarship, internal candidate ranking 2002
Andy McGhie prize for best Ph.D. thesis 2001
Behavioural neuroscience, job search 2001
<u>Oueen's University</u>
QUFA President 2023-2025
QUFA Vice President 2022-2023

Committee Chair or Co-Chair	
QSSET: Survey Student Experience & Teaching	2022-2023
QUFA Student Accommodation Working Group	2019-2022
QUFA Council Alternate Chair	2020-2022
Student Accommodation Working Group, Co-chair	2020-2021
Nominating committee	2004-2005
Pain research group, journal club (co-coordinator)	2004-2006
Committee Member	
Board of Trustees (observer)	2022-
Senate Agenda and Summer Action Committee	2022-
QUFA Nominating Committee	2020-2021
QUFA Grievance Committee	2022-
QUFA Political Action Committee	2022-
Senate	2021-
Chancellor's Scholarships, Reader	2016-2019, 2022
Ontario University Fair rep Faculty of Arts and Science	2015-2017
Queen's University Open House	2015-2017
Canada Graduate Scholarship (MSc), School of Graduate Studies	2014-2017
Education and Training, Centre for Neuroscience Studies	2014-2017
Curriculum committee, Faculty of Arts and Science	2014-2017
Headship Committee (Dept. Biology)	2012-2013
University Animal Care Committee	2009-2011
Nominating committee	2004-2005
Promotion, Renewal and Tenure, Rehabilitation Medicine	2004-2006
Animal User Training Program, curriculum development	2003
Major Entrance Scholarships and Awards, candidate ranking	2003
Pain Steering Committee, Centre for Neuroscience Studies	2002-2006
Radio Policy Board	2002-2006
Centre for Neuroscience Studies, job search	2002
Canada Research Chair in Neuroscience, job search	2002
Inspection of Level D Laboratories	2001-2003
Dean's Visible Minorities Awards	2001
University Committee on Animal Care	1998-2003
Advisory Research Council, Grants committee	1998-2001

# Academic and Research Reviews

Academic Program Review (2019-20) Dept. Psychology University of Alberta Academic Program Review (2019) Dept. of Psychology Laurentian University Tenure File Review (2019) Dept. Psychiatry, University of California, San Diego CRC Tier II renewal (2018) Dept. Neuroscience, University of Lethbridge Promotion to Full Professor (2018) Dept. Neuroscience, Carleton University Academic Program Review (2018) School of Psychology University of Ottawa Academic Program Review (2018) Neuroscience Program **Brock University** Promotion to Full Professor (2017) Centre for Studies in Behavioural Neurobiology, Concordia University Tenure file review (2017) Dept. of Psychology Loyola University, Chicago IL Tenure file review (2016) Dept. of Psychology University of Toronto at Scarborough Academic Program Review (2013) Dept. of Psychology Memorial University of Newfoundland and Labrador (MUN Promotion to Full Professor (2013) Dept. of Psychology, University of Guelph **Provincial and National Organisations** Southern Ontario Neuroscience Association (SONA) 2022-2023 Co-president Canadian College of Neuropsychopharmacology (CCNP) 2016-17 Organizing committee, annual meeting Southern Ontario Neuroscience Association (SONA) 2015-Councillor Regiopolis Notredame Secondardy School 2015-Science Coordinator, IB Program Addiction Services in Frontenac County, Kingston ON 2003 **Biannual Organization review** Limestone District School Board, Kingston ON 2002-2003 OAC Biology community project Ontario Substance Abuse Bureau, Toronto ON 2002

Program restructuring, strategy planning	
Options for Change, Kingston ON	2001-2006
Board of Directors	
Community Addiction Treatment Services, Kingston ON	2001-2006
Program committee	
Options for Change, Kingston ON	2001
Interview committee, program director	
Canada Wide Science Fair, Kingston ON	2001
Judge	
Ranger Pacific, Vancouver BC	2001-2003
Board of Directors	
HIV/AIDS Regional Services, Kingston ON	2001
Conflict of Interest Guidelines	
Options for Change, Kingston ON	2000
Interview committee, executive director	
Brain, Behaviour and Cognitive Science, Edmonton AB	1999
Graduate student presentations, judge	
Alcohol and Drug Referral Centre, Kingston ON	1999-2001
Board of Directors	
Frontenac County Science Fair, Kingston ON	1998-2003
Life Sciences, section judge	

#### **Other Activities**

## Southern Ontario Neuroscience Association (SONA)

As co-president of SONA, I (along with my co-host Rutsuko Ito) organized the annual SONA meeting that was held at University of Toronto Scarboro (UTSC) in May 2023. Along with a group of graduate students at each institution, we secured funding from industrial and academic partners, selected presentation venues, invited speakers, organized poster sessions, scheduled social events, coordinated judging of trainee posters, collated a meeting program, etc.

#### H'art Centre

Board of Directions Sept 2021-

H'art is a non-profit community organization promoting inclusive arts for all abilities. My role is to develop programs and secure funding that supports experiential learning opportunities for Queen's students.

### Duke of Edinburgh's International Award

Award Leader Queen's University chapter Jan. 2021-2024

An international organization with the goal of helping young people to discover their infinite potential. The award leader is a volunteer appointed by an Award Centre who is the contact and

mentor for a chapter. The Award Leader is responsible for engaging young people in their Award programme, inspiring, guiding and assisting them from start through to completion.

Women in Science (WiSE) Graduate Networking Event

Queen's University chapter

April 2019

WiSE is a student-run association in the Queen's community that promotes the education and successes of women in STEM related fields. The event was a panel presentation and question/answer session to create greater awareness of opportunities that are available in the Kingston community.

### Limestone Scholars

Teaching Best Research Practices to Middle and High School Students Faculty Advisor July 2020-

In response to COVID-19 pandemic shutdowns, RISE was transformed into Limestone Scholars, a not-for-profit virtual platform and system of webinars to support teachers and students in developing best research practices.

Research and Information Science Education (RISE)

Queen's University Outreach to Secondary Schools Faculty Advisor Aug. 2015-July 2020

RISE is a not-for-profit research skills and science outreach program targeted at middle school and high school students. Events include classroom visits, public workshops, and contributions to community events.

Roundtable discussion on cannabinoid legalization and impact on youth health

Ongwanada Health Centre

Nov. 2016

At the invitation Sophie Kiwala (MPP Kingston and the Islands), I participated in a discussion and the preparation of a report to the Ontario government, providing feedback and recommendations on health issues for youth in response to the pending federal legislation on legalization of cannabis.

Regiopolis-Notre Dame High School, Kingston ON

Science Outreach: International Baccalaureate (IB) program Sept. 2014-present

Working with graduate students at Queen's University, I set up a series of workshops on research skills that we offer each year to incoming IB students. The goal of these sessions is to provide students with skills and resources that they need to complete an independent research paper, which is part of the IB diploma program.

Community Drug Strategy Advisory Committee

#### 2016-present

I was invited to be part of a working group on community drug strategy, set up by Dr. Kieran Moore, Associate Medical Office of Health for KFLA Public Health. The team includes experts from a range of disciplines including family medicine, mental health, law, surveillance, education, and the municipal government. Our primary goal is to maintain communication across community sectors that are impacted by both legal and illegal drug use.

Leahurst Charitable Foundation

Board of Directors

2014-present

Leahurst College High School Inc. offers a unique alternative educational experience for intermediate and high school aged students and the Leahurst Charitable Foundation supports both students and the community by helping make this alternative educational experience available to members of the community. The objectives of the corporation are the following: 1. to provide scholarships, bursaries, awards and other forms of financial assistance to qualified students; 2. to provide funding for resources and facilities that support excellence and innovation; and 3. to raise funds in any way to achieve the objectives of the Corporation including accepting donations, gifts, grants, legacies, bequests and inheritances. As a member of the Board of Directors of Leahurst Charitable Foundation, I assess applications for financial assistance to Leahurst College and help to raise funds that are distributed through scholarships and bursaries.

Brain Awareness Day

This is your brain on pain Memory: How does your brain do it (without you)? May 2010-present

My lab participated in the annual Brain Awareness Day sponsored by Queen's University. This educational forum for elementary school children provides a hands-on learning experience in neuroscience-related

Canadian Institutes of Health research

Mentorship program

June 2007-present

Each year, I take one student from Queen's University (Faculty of Arts and Science or Faculty of Health Sciences) to participate in this program. The purpose of the mentorship is to familiarize students with the regular duties of academic life. Depending on the student's interest and availability, I meet with them 1-2 times per month during each term. These meetings may involve attending lectures that I teach, attending lab meetings, following a research project from inception to completion by shadowing one of the senior graduate students or learning about various administrative duties that accompany an academic position.

### YMCA Kingston Ontario

Dealing with substance abuse Advisor for program development Sept. 2007-present For the last 3 years, I have acted as a consultant for a YMCA program that helps individuals deal with substance abuse issues. This work has included given informal lectures on substance abuse, gambling and eating disorders to counsellors who work with the YMCA community outreach programs. In general, these individuals are not trained in counselling or assessment, so the work largely involves compiling lists of community mental health resources, developing questionnaires and information sheets on substance abuse that individuals can use with their own health care providers and educating the workers on the etiology of substance abuse.

**KAIROS Kingston Ontario** 

Gambling in youth Advisor for program development Sept. 2007-present

As a consultant for KAIROS, I advise on program development for youth with gambling disorders. In the past year, the focus of this work has shifted to internet addiction. Recently, I developed a brief assessment tool for identifying internet addiction that is now being used by some of the counsellors at this agency. The same tool was distributed to dons on the Queen's University campus last spring.

# **PROFESSIONAL AFFILIATIONS**\*

Association of Women in Science and Engineering (AWISE) Canadian College of Neuropsychopharmacology (CCNP) Canadian Society for Brain, Behaviour, and Cognitive Science (CSBBCS) Canadian Society of Addiction Medicine (CSAM) Cognitive Neuroscience Society (CNS) Comparative Cognition Society (CCS) European Behavioural Pharmacology Society (EBPS) International Behavioral Neuroscience Society (IBNS) Society for Neuroscience (SFN) Southern Ontario Neuroscience Association (SONA) Women in Neuroscience (WIN) \*Not all memberships are active at any given time.