

CONTACT INFORMATION

Montreal Diabetes Research Center
Centre de Recherche du CHUM
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APPOINTMENTS

05/08 – Present Member, Montreal Diabetes Research Center
05/08 – Present Principal Investigator, Centre de Recherche du CHUM
05/08 – Present Assistant Professor, Department of Nutrition, University of Montreal
09/08 – Present Adjunct Assistant Professor, Department of Physiology, University of Montréal

EDUCATION & TRAINING

02/06 – 04/08 Postdoctoral fellow, Laboratory of Louis-Eric Trudeau
University of Montreal, Department of Pharmacology, Montréal, QC, Canada
06/03 – 01/06 Postdoctoral fellow, Laboratory of Jeffrey S. Flier.
Beth Israel Deaconess and Harvard Medical School, Division of Endocrinology
01/99 - 07/03 PhD Psychology, Graduate supervisors: Peter Shizgal & Barbara Woodside
Center for Studies in Behavioral Neurobiology, Concordia University, Montreal
PhD thesis: Functional organization of brain reward circuitry: Characterization of a subpopulation of reward neurons linked to energy balance (Award of Excellence)

HONORS & AWARDS

07/09 – 07/13 *Fonds de la Recherche en Santé de Quebec (FRSQ) Research Scholar award*
02/06 - 02/08 *Natural Sciences and Engineering Research Council of Canada (NSERC)*
postdoctoral fellowship
02/07 *Keystone Symposium - Neurobiology of Addiction, Young Investigator Award*
07/03 – 01/06 *Canadian Institutes of Health Research (CIHR) postdoctoral fellowship*
12/04 *Governor General's of Canada Gold Medal, Top PhD academic record - Concordia University*
12/04 *Valedictorian, 2004 Fall Convocation, Concordia University*
11/04 *Award of Excellence from the Academy of Great Montrealers (N.Sc) 2004, Highest ranked PhD thesis and jury presentation amongst four Montreal Universities*
10/04 *Laureate of the Canadian Psychological Association Certificate of academic excellence*
10/03 *NSERC doctoral prize finalist*
04/03 *Fonds Québécois de la Recherche sur la Nature et les Technologies postdoctoral fellowship (declined)*
09/01 – 08/02 *Power Corporation of Canada, Graduate Fellowship*
09/00 – 08/01 *Concordia University Graduate Fellowship*
11/01 *Stereology Resource Center, Inc. Workshop fellowship*
07/00 *Society for the Study of Ingestive Behavior, Young Investigator Award*

GRANT SUPPORT

- 03/09 – 03/10 Principle Investigator. Identifying the neural mechanisms of food reward and their contribution to obesity. *CIHR, Institute of Nutrition, Diabetes, Metabolism: #94730 - \$65 021*
- 11/08 Principle Investigator, Neural substrates of food reward and obesity: Launching a neuroendocrinology laboratory to link the molecules to behaviour, CFI –Leader’s Opportunity Fund, Infrastructure alone: #19526 - \$201 191
- 07/08 – 07/13 Principle Investigator. Role of Peripheral Metabolic Signals in Neural Reward Mechanisms. *NSERC, Discovery Grant 355881-2008: \$158 750*

PUBLICATIONS

Fulton, S. (2009) Neurosystems Linking Corticolimbic and Hypothalamic Pathways Involved in Energy Balance Regulation: View from the Chair. (Proceedings of the 11th Annual International Symposium of the Merck-Frosst / CIHR Obesity research Chair) *International Journal of Obesity*, in press

Fulton, S., Pissios, P., Pinol, R., Frank, L, Stiles, L, Pothos, E., Maratos-Flier, E., Flier, J.S. (2006) Leptin regulation of the mesoaccumbens dopamine pathway, *Neuron*, 51(6), 811-822.

- Commentary: Cota, D., Barrera, J.G. & Seeley, R. *Neuron*, 2006, 51(6), 678-80.
- News and Views: Simerly, R. *Nature Medicine*, 2006; 12(11):1244-6.

Fulton, S., Woodside, B. & Shizgal, P. (2006) Potentiation of Brain Stimulation Reward by Weight Loss: Evidence for Functional Heterogeneity in Brain Reward Circuitry, *Behavioural Brain Research*, 174(1):56-63

Fulton, S., Richard, D., Woodside, B. & Shizgal, P. (2004) Food restriction and leptin impact brain reward circuitry in lean and obese Zucker rats. *Behavioural Brain Research*, 155(2), 319-329.

Fulton, S., Woodside, B & Shizgal, P. Energy Balance and Reward. In: *Progress in Obesity Research: 9.* (2003) Eds. G. Medeiros-Neto, A. Halpern, C. Bouchard. London: John Libbey, 818-821.

Fulton, S., Richard, D., Woodside, B. & Shizgal, P. (2002) Interaction of CRH and energy balance in the modulation of brain stimulation reward. *Behavioural Neuroscience*, 116(4): 651-9.

Fulton, S., Woodside, B., & Shizgal, P. (2002) Does neuropeptide Y contribute to the modulation of brain stimulation reward by food restriction? *Behavioural Brain Research*, 134(1-2): 157-164.

Shizgal, P., **Fulton, S.**, Woodside, B. (2001) Brain reward circuitry and the regulation of energy balance. *International Journal of Obesity*, 25(Suppl. 5), S1-S5.

Conover, K., **Fulton, S.**, D’Abramo, R., Shizgal, P. (2001) Operant tempo varies with reinforcement rate: Implications for measurement of reward efficacy. *Behavioral Processes*, 56(2): 85-101.

Fulton, S., Woodside, B., Shizgal, P. (2000) Modulation of brain reward circuitry by leptin. *Science*, 287(5450): 125-128.

- Commentary/review: Figlewicz, D.P., Woods, S.C. (2000) Adiposity signals and brain reward mechanisms, *Trends in Pharmacological Sciences*, 21(7):235-6.

MANUSCRIPTS UNDER REVIEW / IN PREPARATION

Fulton, S. (2009) Appetite and Reward. *Frontiers in Neuroendocrinology* (Invited review), under review

Fulton, S., Thibault, D, Mendez, A., Lahaie, N., Bouvier, M., Tempel, B., Trudeau, L. Contribution of Kv1.2 voltage-gated potassium channels to D2 autoreceptor regulation of axonal dopamine release. In preparation

INVITED TALKS

Canadian Association for Neuroscience Annual Meeting, Vancouver, BC. May 24-27, 2009. Title: Leptin Regulation of Dopamine Tone & Behaviour

Montreal Diabetes Research Center Annual Meeting, Jan. 16, 2009 (Organizer M. Prentki and V. Poitout). From Adipose Stores to Behavior: The Role of Neural Reward Circuitry in Appetite and Obesity.

Neurological Sciences Axis, Research Center of the University of Montreal Hospital Center, October 20, 2008. (Organizer: Bernard Brais) Excessive gratification: Mesolimbic mechanisms of reward and their contribution to obesity,

The Obesity Society annual meeting, Phoenix, Arizona. October 5, 2008. (Co-chair: T. Moran) Session: Can't Get No Satisfaction: Reward, Addiction and Obesity. Title: Leptin and Reward

Purdue University, Department of Psychology, West Lafayette, Indiana. Feb. 27, 2008 (Organizer: T.L. Davidson) Title: Energy balance, Obesity and Reward.

Douglas Hospital Research Institute, Montreal. January 21, 2008 (Organizer: C. D. Walker) Title: Linking adipose stores to behaviour: Influence of leptin on neural reward circuitry

2007 CSBN Workshop: Eating and Addiction, Concordia University, Montreal. October 4-5th, 2007 (Organizer: U. Shalev & W. Brake) Title: Linking Dopamine Tone to Obesity: The Leptin Connection

FASEB summer conference: Obesity, Energy Balance and Disease. Indian Wells, CA. August 4th, 2007 (Organizers: B. Levin, T. Nagy & J. Speakman) Title: Reward pathways in the brain and energy homeostasis

Montreal Diabetes Research Center Seminar Series, Montreal. June 29, 2007 (Organizers: Vincent Poitout & Marc Prentki) Title: Linking adipose stores to behaviour: Influence of leptin on neural reward circuitry and plasticity

Keystone Symposia: Neurobiology of Addiction, Santa Fe, NM. February 27, 2007 (Organizers: S. Heinemann & E. Nestler) Title: Influence of leptin on mesoaccumbens dopamine tone and function

Merck Frosst Seminar in Obesity, Centre de Recherche, Hôpital Laval, Quebec, February 6, 2007. (Organizers: P. Boisvert and D. Richard) Title: Linking adipose stores to brain reward pathways

Seminar in Genetics, Ste. Justine Hospital, Montreal. January 17th, 2007 (Organizers: G. Mitchell) Title: Leptin links adipose stores to brain reward pathways

9th International Congress on Obesity, Sao Paulo, Brazil. August 26, 2002 (Organizers: Claude Bouchard and Denis Richard) Title: Brain reward circuitry and energy balance

OTHER ORAL PRESENTATIONS

Fulton, S., Richard, D., Woodside, B. & Shizgal, P. The role of CRH in the modulation of brain stimulation reward. Annual meeting of the *Society for the Study of Ingestive Behavior*, Dublin, Ireland. July 26, 2000

Fulton, S. Functional specialization of brain reward circuitry: Links to energy balance. *Center for Studies in Behavioral Neurobiology Noon Seminar Series*, Concordia University. September 14, 2001

CAREER AND RESEARCH DEVELOPMENT

- *CIHR- 6th Annual New Principle Investigators Meeting*, Jackson's Point, Ontario. Nov 9-11, 2007
- Confocal microscopy workshop, *Harvard Center for Neurodegeneration & Repair*, May 10, 2005
- Stereology workshop, *Stereology Resource Center, Inc.* San Diego, Nov. 6 – 9, 2001

CONFERENCE ORGANIZATION

- Co-organizer of FASEB summer conference 2009 - *The physiological basis for obesity therapeutics*. August 16-21st, Snowmass Village, CO (Head organizer: Paul S. MacLean, U Colorado at Denver)
- Co-organizer and -chair of the 11th International Symposium of the Merck-Frosst / CIHR obesity research chair. *Obesity in a Modern World: When pleasure takes over homeostasis*. Nov. 5, 2008, Québec (Head organizer: Denis Richard, U Laval)

PEER REVIEW

AJP-Regulatory, Integrative and Comparative Physiology; Biological Psychiatry; Journal of Biological Chemistry; Alcohol and Alcoholism; Acta Psychiatrica Scandinavia

COMMITTEE MEMBERSHIP

- Concordia University Animal Care Committee, Graduate representative, , Nov.1999 – Dec. 2002
- Advisory Chair Search Committee, Concordia University, Graduate representative, Dec. 2001 – May

TEACHING

- University of Montreal, Department of Nutrition, Montreal. March 12, 2008
Guest lecturer for MSc course: *Seminaire en Nutrition* (G. Ferland)
- Purdue University, Department of Psychology, West Lafayette, IN. February 26, 2008
Guest lecturer for PhD course: *Special Lectures in Ingestive behavior* (T.L. Davidson)
- Concordia University, Department of Psychology, Montreal, QC, Canada. Jan. 1997 – Dec. 2001
Lab Instructor: Statistics for the Behavioral Sciences & Strategies of Inquiry