

NEUROSCIENCE DAY AT UNIVERSITY OF GUELPH

Friday, April 9, 2010 (10:00a.m. – 4:00p.m.)

Arboretum Centre

Sponsored by the Department of Biomedical Sciences

Morning Coffee Service 9-10a.m.

10:00 Welcoming introduction: Neil MacLusky, Chair, Dept. of Biomedical Sciences.

Oral presentations by graduate and post-doctoral research students

10:10 “Stirring up new ideas about the regulation of the hypothalamic-pituitary-interrenal axis in zebrafish (*Danio rerio*)” Meghan Fuzzen, Nicholas Bernier and Glen Van Der Kraak Dept. of Integrative Biology and Collaborative Neuroscience Program, University of Guelph.

10:20 “Comparative analysis of Shc family protein expression in the nervous system and beyond” Steve Hawley, John Armstrong and Nina Jones Dept. of Molecular & Cellular Biology and Collaborative Neuroscience Program, University of Guelph.

10:30 “Biochemistry to Brain Tumours: Investigating the Functional and Prognostic Implications of the ShcD Adaptor Protein” Melanie K. B. Wills and Nina Jones Dept. of Molecular & Cellular Biology and Collaborative Neuroscience Program, University of Guelph.

10:40 “Luman Recruitment Factor (LRF) deficiency affects prolactin levels and causes a defect in maternal behaviour” Amanda Martyn, John Armstrong, Dan Gillis, Tegan Williams, Elena Choleris and Ray Lu Dept. of Molecular & Cellular Biology and Collaborative Neuroscience Program, University of Guelph.

10:50 “Estrogens and Social Learning in Mice” Amy Clipperton Allen and Elena Choleris Dept. of Psychology and Collaborative Neuroscience Program, University of Guelph.

Break

11:10 “Recurrent perseveration correlates with cage stereotypic behaviour, but seems insensitive to environmental enrichment in adult American mink” Jamie Dallaire and Georgia J Mason, Dept. of Animal and Poultry Science, and Collaborative Neuroscience Program, University of Guelph.

11:20 “Cannabidiol, a Nonpsychotropic Component of Cannabis, Attenuates Vomiting and Nausea by Activating 5-HT_{1A} Somatodendritic Autoreceptors in the Dorsal Raphe Nucleus” Erin M. Rock¹, Cheryl L. Limebeer¹, Paul J. Fletcher², Raphael Mechoulam³ and Linda A. Parker¹ Dept of Psychology and Collaborative Neuroscience Program, University of Guelph.¹, Center for Addiction and Mental Health, University of Toronto² and Institute of Drug Research, Hebrew University Medical Faculty, Jerusalem, Israel³

11:30 “Role of 2-AG and MAGL inhibition in conditioned nausea and vomiting” Martin Sticht¹, Jonathan Z. Long², Benjamin F. Cravatt², and Linda A. Parker¹ Dept of Psychology and Collaborative Neuroscience Program, University of Guelph.¹ and

Institute for Chemical Biology, The Scripps Research Institute, La Jolla, California
U.S.A. ²

11:40 “A distributed cortical representation underlies crossmodal object recognition in rats”
James Reid and Boyer Winters Dept of Psychology and Collaborative Neuroscience
Program, University of Guelph.

11:50 “I remember μ : The effects of methadone and heroin on memory retrieval in rats”
Erin Cummins and Francesco Leri, Dept. of Psychology and Collaborative
Neuroscience Program, University of Guelph.

12: 00 - 2:30 **Lunch (lunch will be served) and Poster Presentations**

Posters (graduate and undergraduate students)

1. “An Examination of Conditioned Cue Avoidance and Anxiety Induced by Cannabinoid Precipitated Withdrawal” Brittany Ford and Paul Mallet Dept. of Psychology, Wilfred Laurier University
2. “Comparative Effects of Pulmonal versus Parenteral Cannabinoid Exposure on Opiate Withdrawal Conditioned Aversion in Rats” Laurie Manwell ¹, and Paul Mallet ², Dept. of Psychology and collaborative Neuroscience Program, University of Guelph. ¹, Dept. of Psychology, Wilfred Laurier University ²
3. “Attending to the big picture: Does it affect mood?” Asma Hanif and Mark Fenske Dept. of Psychology and Collaborative Neuroscience Program, University of Guelph
4. “Response Inhibition and Affective Ratings After Pre-exposure” Dustin Burt and Mark Fenske Dept. of Psychology and Collaborative Neuroscience Program, University of Guelph.
5. “Improvements in Executive Function: Effects of Age and Lifestyle” Amanda Gadke and Dan Meegan Dept. of Psychology and Collaborative Neuroscience Program, University of Guelph.
6. “The impact of motivational state on conditioned place preference through food restriction” Avi Salamon, AnneMarie Levy and Francesco Leri Dept. of Psychology and Collaborative Neuroscience Program, University of Guelph.
7. “Is it the rat or the Oreo” AnneMarie Levy and Francesco Leri, Dept. of Psychology and Collaborative Neuroscience Program, University of Guelph
8. “Role of PFC in response matching to dynamically changing reward contingencies” Craig Allen and Francesco Leri, Dept. of Psychology and Collaborative Neuroscience Program, University of Guelph.
9. “Factors affecting acute stress induced reinstatement of heroin seeking in rats” Stephanie L. Grella, Kelsy Ervin and Francesco Leri, Dept. of Psychology and Collaborative Neuroscience Program, University of Guelph.
10. “A Study of Incentive Motivation in Individuals Undergoing Treatment for Substance Dependence and Healthy Undergraduate Students” Ben Goddard, Heather Kerr and Francesco Leri, Dept. of Psychology and Collaborative Neuroscience Program, University of Guelph.
11. “Latent learning: 1930 or 2010?” Rafael Galindo, Laura Schulze and Francesco Leri Dept. of Psychology and Collaborative Neuroscience Program, University of Guelph.

12. "Interaction between Non-Psychotropic Cannabinoids in Marijuana: Cannabigerol Prevents the Anti-Nausea Effects of Cannabidiol in a Rodent Model of Nausea" Jennifer M. Goodwin¹, Cheryl L. Limebeer¹, Roger Pertwee², Raphael Mechoulam³, and Linda A. Parker¹ Dept. of Psychology and Collaborative Neuroscience Program, University of Guelph.¹, Dept. of Pharmacology, University of Aberdeen, Aberdeen, Scotland² and Institute of Drug Research, Hebrew University Medical Faculty, Jerusalem, Israel³
13. "The Effect of FAAH Inhibition on Reinstatement of a Conditioned Place Preference and a Conditioned Place Aversion" Amanda McCallum and Linda Parker Dept. of Psychology and Collaborative Neuroscience Program, University of Guelph.
14. "Depletion of serotonin in the insular cortex by 5,7-Dihydroxytryptamine (5,7-DHT) lesions attenuates conditioned nausea in rats". Katharine J. Tuerke.¹, Cheryl L Limebeer.¹, Jessica Lester.¹, John Chambers.², Paul J. Fletcher.², Linda A. Parker.¹, Dept. of Psychology and Collaborative Neuroscience Program, University of Guelph.¹, Center for Addiction and Mental Health, University of Toronto²
15. "Assessing the role of nicotinic acetylcholine receptors in various aspects of object recognition memory" Ashley Melichercik, Kevin Elliott and Boyer Winters Dept. of Psychology and Collaborative Neuroscience Program, University of Guelph.
16. "Comparing Techniques to Reduce Simulator Adaptation Syndrome and Improve Naturalistic Behaviour During Simulated Driving." James G. Reed Jones and Lana Trick, Dept. of Psychology and Collaborative Neuroscience Program, University of Guelph.
17. "Detection of changes on the road: Effects of safety relevance and size" Alexandra Mueller and Lana Trick, Dept. of Psychology and Collaborative Neuroscience Program, University of Guelph.
18. "The effects of realistic display and control elements in a multiple object tracking task" Martin Lochner and Lana Trick, Dept. of Psychology and Collaborative Neuroscience Program, University of Guelph.
19. "The modulation of balance adjustments due to visual feedback during a double-step focal action" Eric Prout and John Zettel Dept. of Human Health and Nutritional Science, and Collaborative Neuroscience Program, University of Guelph.
20. "Effects of Ultrasound on Pain and Function in Osteoarthritis" Gaayathiri Jegatheeswaran and John Srbely, Dept. of Human Health and Nutritional Science, and Collaborative Neuroscience Program, University of Guelph.
21. "Cooling effects on cutaneous receptor response to movement and vibration" Catherine Lowrey, Miriam McLean, Nick Strzalkowski and Leah Bent Dept. of Human Health and Nutritional Science, and Collaborative Neuroscience Program, University of Guelph.
22. "Establishing stimulation profiles for cutaneous receptors in the foot sole" Nick Strzalkowski, Catherine Lowrey and Leah Bent Dept of Human Health and Nutritional Science and Collaborative Neuroscience Program, University of Guelph.
23. "The psychoactive solvent toluene attenuates perforant path - dentate gyrus synaptic transmission in the rat" Madeleine C. Warwick, Jimmie M. Gmaz and Bruce E. McKay Dept of Psychology, Wilfred Laurier University

24. “Response inhibition leads to devaluation of motivationally salient visual stimuli”
Anne E. Ferrey, Angele Larocque, and Mark J. Fenske Dept. of Psychology and Collaborative Neuroscience Program, University of Guelph.
25. “The expression of Somatostatin 28 in the developing mouse cerebellum” Jenica Gorrie, A Whate, Carol Armstrong Dept. of Biomedical Sciences and Collaborative Neuroscience Program, University of Guelph.
26. “Cellular localization of Adenomatous Polyposis Coli protein in the adult rat hippocampus” Jason Viera, John Armstrong and Carol Armstrong Dept. of Biomedical Sciences and Collaborative Neuroscience Program, University of Guelph.
27. “Specialized neuroanatomy and reverse curvature of the lizard cerebellum” Matt Granger, Matt Vickaryous and Carol Armstrong Dept. of Biomedical Sciences and Collaborative Neuroscience Program, University of Guelph.
28. “Heterochronic expression of cerebellar antigens during development”. Disa Lim, Matt Vickaryous and Carol Armstrong Dept. of Biomedical Sciences and Collaborative Neuroscience Program, University of Guelph.
29. “Effects of NGF on Secretase Expression “ Beau Frigault, Farwa Batool and Bettina Kalisch Dept. of Biomedical Sciences and Collaborative Neuroscience Program, University of Guelph.
30. “Effects of ATF3 overexpression on APP and BACE expression and processing “ Sean Geddes and Bettina Kalisch Dept. of Biomedical Sciences and Collaborative Neuroscience Program, University of Guelph.
31. “Regulation of the stress-response gene ATF3 in PC12 cells “ Carolyn Parratt and Bettina Kalisch Dept. of Biomedical Sciences and Collaborative Neuroscience Program, University of Guelph

Afternoon Coffee Service

2:30 – 4:00 Keynote Address

“Sex, stress and the brain: from serendipity to clinical relevance”

Professor Bruce S. McEwen

Alfred E. Mirsky Professor

Head, Harold and Margaret Milliken Hatch

Laboratory of Neuroendocrinology

Rockefeller University

New York