Collaborative Program in Neuroscience (CPIN) University of Toronto

Newsletter – Vol. 34, No. 1 – September 2017

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Welcome New CPIN Students Please see page 3 for details.

News – CPIN Faculty Members Congratulations to CPIN faculty member **Dr. J. Martin Wojtowicz** (Professor Emeritus, Physiology) on the recent publication from his laboratory in the journal *eNeuro*. Please see page 2 for details.

News – CPIN Students Congratulations to CPIN student member **Kirusanthy Kaneshwaran** (Physiology, Orser lab) on recently completing the CPIN requirements and graduating from her MSc program. Please see page 2 for details.

Neuroscience Opportunities Please see page 4 for details.

2017-18 CPIN Distinguished Lectureship Series

http://www.neuroscience.utoronto.ca/events/lectureship.htm

Speaker | **Dr. Florian Engert**, Prof. of Mol. & Cellular Biology, Harvard University
Title | *Neural circuits and behavior in larval zebrafish*
Date and Time | **Thursday, September 14, 2017, 4:00 pm**
Location | Daniels Hollywood Theatre (555 University Avenue, 1st floor), SickKids
Hosts | 1) Dr. Paul Frankland, Senior Scientist, Neuroscience & Mental Health, SickKids; 2) Dr. Tod Thiele, Assistant Professor, Biological Sciences, UTSC
Co-sponsor | Neuroscience & Mental Health, SickKids

CPIN Emerging Leaders in Neuroscience Lecture
Speaker | **Dr. Ines Liebscher**, ESF Junior group leader, Rudolf Schönheimer Institute of Biochemistry, Medical Faculty, University of Leipzig, Germany
Title | *Signaling logic of Adhesion GPCRs: translating context into function*
Date and Time | **Friday, September 29, 2017, 1:00 pm**
Location | Red Seminar Room, Terrence Donnelly Centre for Cellular and Biomolecular Research, 160 College Street, U of T (Please note that this lecture room location will accommodate up to 80 people)
Host | Dr. Oliver Ernst, Professor, Depts. of Biochemistry & Mol. Genetics, U of T
Co-sponsors | Departments of Biochemistry & Molecular Genetics, U of T

Speaker | **Dr. Sylvain Williams**, Professor of Psychiatry, Douglas Mental Health University Institute McGill University
Title | *What can we learn by visualizing neuronal cell assemblies during behavior?*
Date and Time | **Wednesday, October 18, 2017, 4:15 pm**
Location | Room 2117, Sidney Smith Hall, 100 St. George Street, U of T
Hosts | 1) Dr. Kaori Takehara-Nishiuchi, Associate Professor, Department of Psychology, U of T; 2) Dr. Laura Corbit, Assistant Professor, Department of Psychology, U of T
Co-sponsor | Department of Psychology Brain and Behaviour Seminar Series, U of T

CPIN Faculty Distinguished Lecture
Speaker | **Dr. Roger S. McIntyre**, Professor, Psychiatry, Pharmacology & Toxicology and the Institute of Medical Science, U of T; Executive Director, Brain and Cognition Discovery Foundation (BCDF), Toronto; Director, Depression and Bipolar Support Alliance (DBSA), Chicago, USA; Head, Mood Disorders Psychopharmacology Unit
Title | *How does obesity metastasize to the brain?*
Date and Time | **Friday, October 27, 2017, 1:00 pm**
Location | 103 Main Lecture Room, FitzGerald Building, 150 College Street, U of T

CPIN Newsletter

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Lead Faculty
Faculty of Medicine

CPIN Participating Units
Applied Psychology & Human Development
Biochemistry
Biomaterials & Biomedical Engineering
Cell & Systems Biology
Computer Science
Dentistry
Laboratory Medicine & Pathobiology
Medical Biophysics
Medical Science
Music
Pharmaceutical Sciences
Pharmacology & Toxicology
Physiology
Psychology
Public Health
Rehabilitation Science

Contributors:
Heart & Stroke/Richard Lewar Centre of Excellence in Cardiovascular Research

Human Biology Program

Krembil Research Institute

St. Michael's Neuroscience Research Program

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News - CPIN Faculty Members

http://www.neuroscience.utoronto.ca/communications/news_cpin_faculty_members.htm

Photo caption: L-R Dr. Olga Shevtsova, Dr. J. Martin Wojtowicz and Ms. Yao Fang Tan

Congratulations to CPIN faculty member **Dr. J. Martin Wojtowicz** (Professor Emeritus, Physiology) on the recent publication from his laboratory entitled "Early-Age Running Enhances Activity of Adult-Born Dentate Granule Neurons following Learning in Rats" in the journal *eNeuro*.

Link to the publication:
http://www.eneuro.org/content/4/4/ENEURO.0237-17.2017

Media story links on the publication:
http://medicine.utoronto.ca/news/could-running-when-young-help-protect-aging-brain
http://www.the-scientist.com/?articles.view/articleNo/50080/title/Rats-that-Run-Have-Better-Memory/
http://www.medicalnewstoday.com/articles/318962.php

Dr. Wojtowicz is a Professor Emeritus in Physiology and researcher in neuroscience specializing in adult neurogenesis. The other authors on the publication include **Dr. Olga Shevtsova** (Postdoctoral fellow), **Dr. Christina Merkley** (Postdoctoral fellow), **Professor Gordon Winocur** (Researcher, Baycrest Institute) and **Ms. Yao Fang Tan** (Research assistant).

News - CPIN Students

http://www.neuroscience.utoronto.ca/communications/news_cpin_students.htm

Congratulations to CPIN student member **Kirusanthy Kaneshwaran** (Physiology, Supervisor Dr. Beverley Orser) on recently completing the CPIN requirements and graduating from her MSc program.

Kirusanthy Kaneshwaran investigated the role of astrocytes in postanesthetic memory deficits using electrophysiological and pharmacological approaches. Kirusanthy coauthored one paper (Lecker et al., Anesthesiology, 2017) and is an author of two other papers that are in preparation. In addition, she made a major contribution to the development of a new genetically-modified strain of mice.

She also won several scholarships and awards, including the Kirk Weber Award for Research in Anesthesia, Ontario Graduate Scholarship, and prizes for poster presentations at the Annual Department of Physiology Research Symposium.
During her Master's Kirusanthy was extremely involved in extracurricular and leadership activities. She volunteered and participated in many CPIN-related events, including the Toronto Brain Bee, CPIN Research Day, and NeuroCentric Arts Competition, where she was able to advance her knowledge of neuroscience while contributing to the neuroscience community in Toronto.
She volunteered at The Hospital for Sick Children, and volunteered for Science Rendez Vous, the Saturday Program, Let's Talk Science, and Let's Talk Science-Sandy Lake, demonstrating her interest in helping children and promoting science education. She also served as Outreach Coordinator (2015-2016) and Vice President (2016-2017) on the Graduate Association for Students in Physiology. Following her MSc, Kirusanthy will be pursuing a medical degree at the University of Toronto.

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Welcome New CPIN Students

Last Name	First Name	Home Unit	Degree	Supervisor (s)
Antonyshyn	Kira	Institute of Medical Science	MSc	Gregory Borschel
Ayoub	Ramy	Psychology	MA	Donald Mabbott
Banihashemi	M. Amin	Institute of Medical Science	MSc	Sandra E. Black
Boulos	Mary	Rehabilitation Science	MSc	Robin Green
Darwish	Lina	Pharmacology & Toxicology	MSc	Jane Mitchell
Etkin-Spigelman	Laurel	Institute of Medical Science	MSc	Colin Shapiro
Fan	Carina	Psychology	MA	Brian Levine
Hung	Andrea	Rehabilitation Science	MSc	Joyce Chen
Kranc	Saffire	Pharmacology & Toxicology	MSc	Walter Swardfager
Lalgudi Ganesan	Saptharishi	Institute of Medical Science	MSc	Anne-Marie Guerguerian
Li	Bing	Music	PhD	Michael Thaut
Lin	Yuqi	Institute of Medical Science	MSc	Aylin Reid
Liu	Xiao Yu Eileen	Institute of Medical Science	MSc	Andrew Baker
Moon	Jaewoong	Institute of Biomaterials and Biomedical Engineering	MASc	Tom Chau
Paleshi	Chrystalla	Music	MA	Michael Thaut
Patel	Yash	Institute of Medical Science	MSc	Tomas Paus
Poulson	Sandra	Psychology	MA	Melissa Holmes & Loren Martin
Richard	Nicole	Music	MA	Michael Thaut
Rick	Darcy Ellen	Institute of Medical Science	MSc	Karen Gordon
Sama	Marco	Psychology	PhD	Jonathan S. Cant
Smaoui	Sana	Rehabilitation Science	PhD	Catriona Steele
Tagore	Abanti	Institute of Medical Science	MSc	Romina Mizrahi
Tan	Dorothy	Music	MA	Michael Thaut
Tu	Gaqi	Psychology	MA	Kaori Takehara-Nishiuchi
Vasilevskaya	Anna	Institute of Medical Science	MSc	Carmela Tartaglia
Venkatesan	Sridevi	Physiology	MSc	Evelyn Lambe
Wang	Kevin	Pharmaceutical Sciences	MSc	David Hampson
Yang	Jane	Institute of Biomaterials and Biomedical Engineering	MASc	Steve Prescott

Upcoming Events

U of T Neuroscience Seminars
http://neuroscience.utoronto.ca/events/seminar.htm

Conferences and Meetings
http://neuroscience.utoronto.ca/events/Conf_M.htm

Neuroscience Opportunities

http://www.neuroscience.utoronto.ca/communications/Positions_Available.htm

Postdoctoral Fellow Positions

McGill University , Montreal, QC, Canada
Description: The laboratory of Prof. Natasha Rajah, Department of Psychiatry, McGill University (Montreal, Canada) is currently seeking talented and motivated post-doctoral researchers. Our research focus is on conducting cross-sectional adult lifespan studies using neuroimaging methods to investigate healthy brain aging and its impact on memory function. In addition,we study how genetic risk factors for late-onset Alzheimer's disease (AD),biological sex, and sex hormones impact memory and brain function across the adult lifespan. We use a variety of fMRI and structural MRI analytic methods to understand how these aforementioned variables are associated with age-related differences in brain structure, function, and connectivity; and how this in turn impacts memory and other cognitive processes at different stages of adulthood. Specifically, the lab is seeking post-doctoral researchers with computational neuroscience training and/or training in cognitive neuroscience of aging and memory.
For further information, please visit our website: http://www.neuroscience.utoronto.ca/communications/Positions_Available.htm

Faculty Positions

University of Colorado, Denver, CO, USA
Description: The Department of Physiology and Biophysics at the University of Colorado School of Medicine is seeking to fill up to two tenure-track Assistant Professor positions in the areas of Neuroscience/Physiology. Applicants with more senior ranks may be considered in special cases. The applicant's research program should address fundamental physiological questions at systems, cellular, or molecular levels, and complement and/or extend the Department's existing research strengths in nervous and cardiovascular system function and computational science (www.medschool.ucdenver.edu/physiology). We especially encourage applicants using state-of-the-art imaging, electrophysiological and/or computational approaches. We expect appointees to conduct vigorous independent research and to participate in professional and graduate teaching and training.
For further information, please visit our website: http://www.neuroscience.utoronto.ca/communications/Positions_Available.htm

Department of Physiology, McGill University, Montreal, QC, Canada
Description: The Department of Physiology at McGill University invites applications for a tenure-track faculty position in the area of systems neuroscience with an emphasis on brain function in health and disease. The rank of the position is open. We are specifically seeking talented investigators who will develop an independent and innovative research program using non-human primates. This program will use state of the art techniques(e.g., optogenetics, CRISPR-CAS9) in order to study neural circuit function in health with a focus on how alterations of these circuits leads to cognitive defects mimicking those found in patients suffering from brain disorders. The successful candidate's research program will help complement existing expertise within the department in both visual and self-motion perception for which significant infrastructure and operating funds have already been acquired.
For further information, please visit our website: http://www.neuroscience.utoronto.ca/communications/Positions_Available.htm

Reminders

Submissions for News Updates The CPIN Office requests trainee and faculty members to submit updates in research discoveries, events, and other achievements involving CPIN members. Please send your submissions to p.neuroscience@utoronto.ca

Follow CPIN on social media: CPIN faculty and trainee members are welcome to follow us at the following links:
Facebook: https://www.facebook.com/Collaborative-Program-in-Neuroscience-212564644049/
LinkedIn: https://ca.linkedin.com/in/cpinuoft
Twitter: https://twitter.com/CPIN_UofT

CPIN Student Completion Form CPIN graduate students who have completed both their home department and CPIN trainee requirements must fill in the online completion form located at the link below:
http://www.neuroscience.utoronto.ca/students/cpin_student_completion_form.htm