

Collaborative Program in Neuroscience (CPIN)

University of Toronto

Newsletter – Vol. 31, No. 2 – October 2014

Announcements

Welcome New Students See page 2 for details.

Congratulations CPIN Graduating Students See page 2 for details.

Welcomes New Faculty Member Dr. Richard Swartz (Institute of Medical Science).

News - CPIN Faculty Members Dr. Jonathan Dostrovsky's (the former Director of the Collaborative Program in Neuroscience) pioneering work with Dr. John O' Keefe on the discovery of "place cells" has been recognized as the first cited paper during the announcement of the 2014 Nobel Prize in Physiology /Medicine. Please see below for details.

News – St. Michael's Hospital Neuroscience Research Program St. Michael's Hospital has received close to \$10 million in funding from the Canada Brain Research Fund for two major research projects. Please see page 2 for more details.

2015 Toronto Brain Bee Registration for the annual neuroscience competition & free neuroscience course for high school students is now open. Please see page 2 for details.

Updates from the CPIN Graduate Executives: Meet your 2014-2015 CPIN Executives
Please see page 3 for more details.

2014-15 CPIN Distinguished Lectureship Series

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



Speaker | **Dr. Ole Kiehn**, MD, Dr.Sci, Professor, Mammalian Locomotor Lab, Dept. of Neuroscience, Karolinska Institute, Stockholm, Sweden
Title | *Deciphering neural circuits controlling walking: moving forward*
Date | **Friday, November 7, 2014**
Time | 4:00-5:00 pm
Location | 89 Chestnut, U of Toronto, Colony Ballroom East, 2nd Floor
Host | Dr. Michael Fehlings, MD PhD FRCS FACS FRSC FCAHS, Professor and Vice Chair Research, Department of Surgery
Co-Sponsors | UT Spine Program, Barbara Turnbull Foundation, CIHR- INMHA, Brain Canada

News - CPIN Faculty Members

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



Dr. Jonathan Dostrovsky's (the former Director of the Collaborative Program in Neuroscience) seminal work on the discovery of "place cells" has been recognized as the first cited paper co-authored with Dr. John O'Keefe, one of the three Nobel prize laureates, during the announcement of the 2014 Nobel Prize in Physiology or Medicine.

Link: [Nobel Prize in Physiology or Medicine Press Release](#)

Dr. Jonathan Dostrovsky is a professor emeritus in the Department of Physiology, Faculty of Medicine and in the Faculty of Dentistry at the University of Toronto, as well as an affiliate scientist at the Toronto Western Hospital Research Institute. He joined the faculty of the Physiology Department at UofT in 1977. Dr. Dostrovsky served as the Director of the Collaborative Program in Neuroscience from 1993 to 2008 and was a founding member of the University of Toronto Centre for the Study of Pain. His major accomplishments have been in the area of pain and have involved neurophysiological studies in animals and humans related to the central processing of pain in the trigeminal nucleus and thalamus, descending modulation of pain and plasticity in the somatosensory system. In recent years, he has also become internationally recognized for his studies on basal ganglia pathophysiology and movement disorders and mechanisms of deep brain stimulation. From 2005 to 2007 he served as President of the Canadian Association for Neuroscience (CAN) and was actively involved on the executive committee of the Neuropathic Pain Special Interest Group of the International Association for the Study of Pain (IASP) from 2005 to 2011. He received a Distinguished Career Award from the Canadian Pain Society (CPS) in 2005 and is an honorary member of the IASP, CPS and CAN.

<http://www.neuroscience.utoronto.ca/communications/2014newsletter.htm>

CPIN Newsletter

Zhong-Ping Feng
Director
CPIN
Graduate Studies

Suhail Asrar
Administrator
CPIN Office

CPIN Graduate Executives

CPIN Office
p.neuroscience@utoronto.ca
Tel.: 416 978 8637

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
Rehabilitation Science

Contributor:
St. Michael's Neuroscience
Research Program

Collaborative Program in Neuroscience (CPIN) University of Toronto

Newsletter – Vol. 31, No. 2 – October 2014

News – St. Michael's Neuroscience Research Program

<http://www.stmichaelshospital.com/neuroscience/>

St. Michael's Hospital has recently received close to \$10 million in funding from the **Canada Brain Research Fund for neuroscience research for two major projects:**

1. **The FRONTIER trial led by Dr. Laurie Morrison** (Director of the Rescu research program) received \$6.6 million to demonstrate the efficacy of NA-1 (a drug discovered by Canadian scientists) during stroke. The administration of NA-1 will enable first responders to diminish damage to stroke victims before they arrive for further treatment at a health facility.
2. **The Z-BRAIN screening project headed by Dr. Xiao-Yan Wen** received \$2.6 million to assess the effectiveness of drugs for the treatment of Alzheimer's, depression and stroke at Canada's first automated high-throughput screening facility for zebrafish.

2015 Toronto Brain Bee

<http://www.neuroscience.utoronto.ca/events/brainbee.htm>

The Toronto Brain Bee is a knowledge-based competition organized by CPIN for high school students in the GTA region. It tests the knowledge of the students in neuroscience. The original contest format was derived from the traditional Spelling Bee. **The 17th Annual Toronto Brain Bee** will be held on Friday, March 27, 2015 at the University of Toronto. **Please register for the event using the form at the following link:** [Toronto Brain Bee 2015 Registration Form](#)

Link for free neuroscience course: [Neuroscience Enrichment Program](#)

Welcome New CPIN Students

Last Name	First Name	Home Unit	Degree	Supervisor
Brathwaite	Shakira	Physiology	MSc	R. Loch Macdonald
Constantinof	Andrea	Physiology	PhD	Stephen Matthews
D'Onofrio	Philippe	Rehabilitation Science	PhD	Paulo Koeberle
Himberger	Kevin	Psychology	MA	Christopher Honey
Kapadia	Fenika	Pharmacology & Toxicology	MSc	Etienne Sibille
Kristl Brunec	Iva	Psychology	MA	Morris Moscovitch; Morgan Barens
Marshall	Patricia	Psychology	MA	Nicole Anderson
Misquitta	Keith	Pharmacology & Toxicology	MSc	Etienne Sibille
Morrison	Daniel	Physiology	MSc	Sheena Josselyn
Mossad	Sarah	Psychology	MA	Margot Taylor
Paniccia	Alicia	Rehabilitation Science	MSc	Sally Lindsay
Tibbles	Alana	Rehabilitation Science	MSc	Sally Lindsay

Congratulations CPIN Graduating Students

Last Name	First Name	Home Unit	Degree	Supervisor
Agnihotri	Sabrina	Rehabilitation Science	PhD	Michelle Keightley
Cunningham	Ceilidh Morgan	Physiology	MSc	William Trimble
Fonseka	Trehani	Institute of Medical Science	MSc	Sidney H. Kennedy
Kentebe	Alexandra	Institute of Medical Science	MSc	Cathy Barr
Law	Nicole	Psychology	PhD	Donald Mabbott
McDonald	Chloe Elleda Ross	Institute of Medical Science	PhD	Kevin Kain
Pun	Henry	Dentistry	MSc	Limor Aviv Arber
Rajendram	Rageen	Institute of Medical Science	MSc	Paul Arnold
Sharma	Bhanu	Rehabilitation Science	MSc	Robin Green
Shellikeri	Sanjana	Sleep Language & Pathology	MSc	Yana Yunusova
Steel	Morrison Mansour	Institute of Medical Science	MSc	Karen Gordon
Wolter	Nikolaus	Institute of Medical Science	MSc	Karen Gordon

Collaborative Program in Neuroscience (CPIN) University of Toronto

Newsletter – Vol. 31, No. 2 – October 2014

Updates from the CPIN Graduate Executives

<http://www.neuroscience.utoronto.ca/aboutus/GScommittees.htm>

Following the recent open call to CPIN students, the CPIN Graduate Executive Committee are pleased to **announce their 2014-2015 roster:**

Secretary - Tina Behdinin (Institute of Medical Science)

Treasurer - Andrew Barszczyk (Physiology)

Communications Officer - Vladislav Sekulic (Physiology)

Cortex Club Coordinator - Vivek Mahadevan (Cell & Systems Biology)

Discussions Group Coordinator (Neurotalk) - Vladislav Sekulic (Physiology) & Ayda Ghahremani (Institute of Medical Science)

Special Events Coordinator - Ekaterina Turlova (Physiology)

Outreach Coordinator - Kasey Hemington (Institute of Medical Science)

Sponsorship Officer - Andrew Barszczyk (Physiology)

Photographer/Videographer - Denis Osipov (Physiology)

Executive at Large - Alexandre Guet McCreight (Physiology)

Upcoming Events

U of T Neuroscience Seminars

<http://neuroscience.utoronto.ca/events/seminar.htm>

Psychology Emblinghaus Empire Talk Series 2014-2015

Speaker | **Dr. Donna Rose Addis**, Psychology, The University of Auckland

Title | Constructive Memory: False Pasts and Fictional Futures

Date | **Wednesday, November 5, 2014**

Time | 12:15-1:30 pm

Location | Room 3130 (3 rd floor), Sidney Smith Hall, 100 St. George Street

Faculty of Music and MaHRC Music and Health Colloquium

Speakers | **Liona Boyd, Dr. Joaquin Farias**

Title | Causes, Prevention, and Treatment of Focal Dystonia

Date | **Wednesday, November 5, 2014**

Time | 4:00-5:30 pm

Location | Room 216, Edward Johnson Building

Centre for the Study of Pain Translational Seminar Series

Speakers | **Dr. David Lam, MD, DDS, PhD, FRCD(C), DABOMS, Josiane Mapplebeck, BSc (Hon), Master's Student, Marie-Andrée Coulombe, PhD, Post-Doctoral Fellow, Ruma Goswami, PhD, Post-Doctoral Fellow**

Title | Personality and Sex Differences in Chronic Pain

Date | **Wednesday, November 5, 2014**

Time | 4:30-6:00 pm

Location | Room 270, 155 College Street

Pharmaceutical Sciences Seminar

Speaker | **Dr. Gene Blatt**, Director of Neuroscience, Hussman Institute for Autism Research, Baltimore, Maryland

Title | Widespread Evidence of GABAergic Changes in the Cerebellum, Limbic and Cortical Regions in the Autism Brain

Date | **Friday, November 7, 2014**

Time | 11:00 am

Location | Room PB850, 144 College Street, Leslie Dan Faculty of Pharmacy, U ofT

Host | Dr. David R. Hampson, Professor, Department of Pharmaceutical Sciences, Leslie Dan Faculty of Pharmacy, and Department of Pharmacology, Faculty of Medicine, and Director of the CIHR Strategic Training Program in Biological Therapeutics

<http://www.neuroscience.utoronto.ca/communications/2014newsletter.htm>

Collaborative Program in Neuroscience (CPIN)

University of Toronto

Newsletter – Vol. 31, No. 2 – October 2014

Upcoming Events (continued)

Conferences and Meetings

http://neuroscience.utoronto.ca/events/Conf_M.htm

2014 E. Harry Botterell Lectureship in Neurosurgery & Symposium

Event Date: November 11, 2014

Toronto Western Hospital, Main Auditorium, West Wing 2-401

Symposium: Mapping Normal Brain Function/Activity

The objective of this symposium is to provide an opportunity for those individuals in the neurosciences field to learn about current research and treatment in neurosurgical disorders. Surgical and medical treatments will be presented with an opportunity for questions and discussion. **Chairs:** Dr. Taufik A Valiante, Dr. Andres Lozano

Featured Speaker: Professor Hugues Duffau, Director of the Team "Brain plasticity, Human stem cells and Glial tumors", National Institute for Health and Medical Research (INSERM), Institute for Neurosciences of Montpellier, Montpellier, France.

For further details, please see the [Event Program](#).

GABAergic Signaling in Health and Disease: 24th Neuropharmacology Conference

Satellite to the 2014 Meeting of the Society for Neuroscience.

Event Dates: November 13-14, 2014

Arlington, VA, USA

GABAergic signaling plays a critical role in regulating neuronal development, neuronal plasticity and dynamic network behaviour. GABA receptors are also key clinical targets and disrupted inhibition is implicated in a host of neurological and psychiatric disorders including epilepsy, stroke, neurodegeneration, schizophrenia and depression.

Understanding the molecular and cellular events that underpin inhibitory control of neuronal function is therefore central to understanding both brain information processing and brain pathology. The aim of this two-day meeting is to bring together an international group of junior and senior scientists working on GABA and inhibition to discuss the latest findings in the field.

World experts will present their most recent discoveries covering a broad array of topics from the formation and plasticity of inhibitory synapses, through to GABA receptor structure and function and regulation by endogenous and exogenous modulators. The central role of interneurons for coordinating network behaviour and pathology will also be a key focus.

For further details, visit the [website](#).

Giant Synapse Symposium

Event Date: November 14, 2014

Building 31, Room 6C10, NIH, NIH Campus, Bethesda, Maryland, [Directions to Building 31, NIH](#)

We are pleased to announce the 2014 Giant Synapse Symposium to take place at NIH, Bethesda, Maryland, on Friday, November 14th, 2014, one day before the SfN Annual Meeting. Encouraged by overwhelmingly positive responses from the last Giant Synapse Symposium held at SfN 2012 in New Orleans, and the past chairs, Drs. Gerard Borst and Ian Forsythe, we hope to keep this symposium running every 2 years at SfN. The purpose of this symposium is to provide an effective platform to discuss exciting scientific discoveries and exchange ideas originated from a variety of large model synapses.

The agenda of this year's one-day symposium, titled "Giant Synapses: Mechanistic Insights into Synaptic Function", will feature a series of 15 minutes short-talks following by 5 minutes Q&A. **Chairs:** Sam Young, Lu-Yang Wang, Ling-Gang Wu

For further details, [please see the flyer](#).

Centre for Collaborative Drug Research Neuroscience Research Day

Event Date: November 27, 2014

Chestnut Conference Centre, 89 Chestnut Street, Toronto

The newly established Centre for Collaborative Drug Research (CCDR) is aimed at fostering open-innovation partnerships to identify and validate new therapeutic targets that can progress to the clinical treatment for major brain disorders and other therapeutic indications ([Click here for link](#))

To launch the Neuroscience Catalyst funding program ([Click here for link](#)), the CCDR is hosting a Neuroscience Research Day on New Targets in Neurodegeneration and Neuropsychiatry to bring the U of T neuroscience community together, to network and seek new collaborations. You are invited to participate in 5-minute data blitzes focusing on Neuropsychiatry and Neurodegeneration, with panel discussions and invited speakers from the local community. The goal is to have a highly interactive and enjoyable day while showcasing the top class research going on at U of T ([Click here for the preliminary program](#)). Registration is free. Please submit your Abstracts for the data blitzes and suggestions for speakers to Dr Jesse McLean (jesse.mclean@utoronto.ca). Abstract deadline: Friday November 14th.

<http://www.neuroscience.utoronto.ca/communications/2014newsletter.htm>