

# Collaborative Program in Neuroscience (CPIN)

## University of Toronto

Newsletter – Vol. 33, No. 4 – December 2016

### Featured In This Issue

**2016 Jonathan Dostrovsky Award in Neuroscience Recipient** CPIN is pleased to announce **Katharine Dunlop** (PhD candidate, Institute of Medical Science, Downar lab) as the inaugural recipient of the award. Please see below for details.

**Welcome New CPIN Students** Please see page 3 for details.

**Welcome New CPIN Faculty Member** We would like to welcome **Dr. Anne Wheeler** (Assistant Professor, Physiology) as a new faculty member to the CPIN community. Please see page 3 for details.

**Happy Holidays** CPIN would like to wish all members a happy holiday season.

### 2016 Jonathan Dostrovsky Award in Neuroscience Recipient

[http://www.neuroscience.utoronto.ca/award\\_opportunities/jonathan\\_dostrovsky\\_award.htm](http://www.neuroscience.utoronto.ca/award_opportunities/jonathan_dostrovsky_award.htm)



On behalf of the Collaborative Program in Neuroscience (CPIN) 2016 Jonathan Dostrovsky Award in Neuroscience Committee, CPIN is pleased to announce **Katharine Dunlop** (PhD candidate, Institute of Medical Science, Downar lab) as the inaugural recipient of the award.

This award has been established by the generosity of Professor Jonathan Dostrovsky, and aims to recognize the achievements of exceptional CPIN graduate students. The award appraises academic excellence amongst applicants across the diverse branches of neuroscience at the University of Toronto encompassed by 16 CPIN participating graduate departments from 7 faculties. Following a rigorous and extremely competitive review process, Katharine was selected as the 2016 Jonathan Dostrovsky Award recipient due to her exemplary achievements that distinguished her from the other strong candidates. She will be presented with the award at the 2017 CPIN Research Day.

#### **Katharine Dunlop's Biosketch:**

Katharine Dunlop's research focuses on the neurobiological mechanisms and predictors of clinical response to non-invasive brain stimulation. Using resting-state functional magnetic resonance imaging (fMRI), she investigates response to stimulation in major depression, eating disorders, and obsessive-compulsive disorder.

Katharine is a Canadian Institutes of Health Research (CIHR) Vanier Scholar, earning over \$150,000 in scholarship funding over the course of her degree. Katharine currently has 12 published or in proof manuscripts, 6 of which are as first or co-first author. Her most recent publication will be published in Nature Medicine. Katharine is also a Junior Fellow at Massey College, and a teaching assistant for undergraduate and graduate students in Human Biology and the IMS.

Katharine thanks her supervisor, Dr. Jonathan Downar, and her program advisory committee members, Drs. Karen Davis and Blake Woodside, for their mentorship and support.

CPIN would also like to thank the faculty members from our participating academic units who served on the Award Review Committee: **Dr. Jonathan Dostrovsky** (Honorary member, PSL), **Dr. Zhong-Ping Feng** (Chair, PSL), **Dr. Lili-Naz Hazrati** (LMP), **Dr. William Hutchison** (PSL & IMS), **Dr. Cindi Morshead** (IMS, IBBME & RSI), **Dr. Amy Ramsey** (PCL), **Dr. Kaori Takehara-Nishiuchi** (PSY, CSB & IMS) and **Dr. Albert Wong** (PCL & IMS).

### 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

# Collaborative Program in Neuroscience (CPIN) University of Toronto

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## 2016-17 CPIN Distinguished Lectureship Series

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

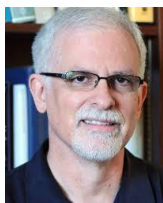


Speaker | **Dr. Robert Froemke**, Assistant Professor of Otolaryngology, Neuroscience & Physiology, Skirball Institute, NYU School of Medicine; Center for Neural Science, NYU  
Title | *Maternal behavior, oxytocin, and synaptic plasticity*  
Date | **Thursday, January 12, 2017**  
Time | 3:00 pm  
Location | Rm. 2170, Medical Sciences Building, 1 King's College Circle, U of T  
Hosts | 1) Dr. Blake Richards, Assistant Professor, Biological Sciences, UTSC; 2) Dr. Melanie Woodin, Associate Professor, Cell and Systems Biology, U of T  
Co-sponsor | Biological Sciences Department, UTSC



Speaker | **Dr. Nils Brose**, Professor and Director, Max Planck Institute for Experimental Medicine, Göttingen, Germany  
Title | *On the role of neurotransmitter signaling in the establishment of neuronal synaptic connectivity*  
Date | **Thursday, January 12, 2017**  
Time | 4:00 pm  
Location | Rm. 2170, Medical Sciences Building, 1 King's College Circle, U of T  
Hosts | 1) Dr. Shuzo Sugita, Professor, Physiology, U of T; 2) Lu-Yang Wang, Senior Scientist & Interim Head, Neurosciences & Mental Health, SickKids; Professor & Director, Neuroscience Platform, Physiology, U of T  
Co-sponsor | Department of Physiology Neuroscience Platform, U of T

### Electrical and Computer Engineering (ECE) and CPIN Distinguished Lecture



Speaker | **Dr. Michael Roukes**, Robert M. Abbey Professor of Physics, Applied Physics, and Bioengineering, California Institute of Technology  
Title | *Nanotechnology for Massively-Parallel, Multi-Physical Interrogation of Brain Activity*  
Date | **Thursday, January 19, 2017**  
Time | 4:00 pm  
Location | Auditorium 1105, Sandford Fleming Building, 10 King's College Rd., U of T  
Host | Dr. Joyce Poon, Associ. Professor, Electrical & Computer Engineering, U of T  
Co-sponsor | Electrical & Computer Engineering Distinguished Lecture Series, U of T  
Please click the ECE website link below for speaker information:  
<https://www.ece.utoronto.ca/about/distinguished-lectures/2016-2017-speakers/#Roukes>



Speaker | **Dr. Helen Mayberg**, Professor, Psychiatry, Neurology and Radiology, Dorothy C. Fuqua Chair in Psychiatric Neuroimaging and Therapeutics, Emory University School of Medicine, Atlanta GA  
Title | *The Evolving Role for Imaging in Optimizing Treatment for Depression: from CBT to DBS*  
Date | **Wednesday, January 25, 2017**  
Time | 4:00 pm  
Location | Li Ka Shing Knowledge Institute, 209 Victoria Street, 2nd Floor, Room 209-Allan Waters Family Auditorium  
Host & Co-sponsor | Arthur Sommer Rotenberg Suicide & Depression Studies Program, St. Michael's Hosp., U of T

## 14<sup>th</sup> Sackler Distinguished Neuroscientist

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



Speaker | **Dr. Carol A. Barnes**, Regents' Professor, Psychology, Neurology and Neuroscience; Evelyn F. McKnight Chair for Learning and Memory in Aging; Director, Evelyn F. McKnight Brain Institute; Director, Division of Neural Systems, Memory and Aging, University of Arizona  
Title | *Aging is not a disease: Normal lifespan changes in brain circuits critical for memory*  
Date | **Tuesday, February 21, 2017**  
Time | 4:00 pm  
Location | Rm. 2172, Medical Sciences Building, 1 King's College Circle, U of T  
Host | Dr. Cheryl Grady, Professor, Depts. of Psychology and Psychiatry, U of T; Senior Scientist, Rotman Research Institute, Baycrest Centre

## Welcome New CPIN Faculty Member

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<http://www.neuroscience.utoronto.ca/home.htm>



We would like to welcome **Dr. Anne Wheeler** (Assistant Professor, Physiology) as a new faculty member to the CPIN community.

Behaviour and cognition are emergent properties of brain networks. Dr. Wheeler's research has focused on using brain-wide structural and functional imaging to examine these processes, how they go awry in disease states, and how network-based biomarkers can be used to inform prognosis and treatment response. She completed her PhD in 2011 in the Institute of Medical Science at the University of Toronto, where she focused on structural and functional imaging in the rodent brain, combining the mapping of brain networks with behavioural analysis in Paul Frankland's lab. This was followed by a postdoctoral fellowship in Aristotle Voineskos' Translational Imaging Genetics lab at the Centre for Addiction and Mental Health (CAMH) where she employed magnetic resonance brain imaging (MRI) to investigate network-based neuroimaging biomarkers in psychiatric disorders.

As the FedEx Catalyst Scholar in Traumatic Brain Injury research at SickKids Hospital her lab focuses on describing how traumatic injury affects the developing brain. Her lab is using brain imaging in patient populations and mouse models to look for biomarkers of brain injury in order to describe brain damage and inform prognosis. MRI based biomarkers derived from recent advanced acquisition and analysis methods may be able to detect subtle injury induced microscopic alterations in the brain. Dr. Wheeler's lab is particularly interested in psychiatric outcomes of TBI and how genes influence brain structure and interact with injury to predict outcome.

## Welcome New CPIN Students

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Surname	First Name	Home Unit	Degree	Supervisor (s)
Cunningham	Jasmyn	IMS	MSc	Colin Shapiro
Gabriel	Grace	PSY	MA	Morris Moscovitch and Asaf Gilboa
Pan	Danny	IMS	MSc	Roger S. McIntyre
Propp	Lee	APHD	MA	Anne-Claude Bedard

## Upcoming Events

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### U of T Neuroscience Seminars

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

### Conferences and Meetings

[http://neuroscience.utoronto.ca/events/Conf\\_M.htm](http://neuroscience.utoronto.ca/events/Conf_M.htm)

## Reminders

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**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](https://twitter.com/CPIN_UofT)

**Volunteer Opportunity at the 2017 Toronto Brain Bee** CPIN Faculty and trainee members are invited to volunteer at the 19th Annual Toronto Brain Bee that will be held on Friday, March 31, 2017 at the University of Toronto. Please fill out the online volunteer form at <http://www.neuroscience.utoronto.ca/events/brainbee.htm>