

# Collaborative Program in Neuroscience (CPIN)

## University of Toronto

Newsletter – Vol. 35, No. 9 – May 2019

### Featured In This Issue

#### CPIN Research Day and Next Generation of Neurotechnology Symposium on June 5, 2019

Please see pages 2 and 3 for updates

**Call for Faculty Judges at CPIN Research Day** If you haven't already done so, please register online to evaluate the student oral and poster presentations:

[http://www.neuroscience.utoronto.ca/events/CPIN\\_Research\\_Day/researchdayfacultyreg.htm](http://www.neuroscience.utoronto.ca/events/CPIN_Research_Day/researchdayfacultyreg.htm)

**Welcome New CPIN Student** Please see page 4 for details

**Congratulations CPIN Graduating Students** Please see page 4 for details

**News – CPIN Trainees** Congratulations to CPIN student member **Caroline Park** on recently completing the CPIN requirements and graduating from her MSc program. Please see page 4 for details

**Neuroscience Opportunities** Please see page 3 for details.

### News – CPIN Faculty Members

[http://www.neuroscience.utoronto.ca/communications/news\\_cpिन\\_faculty\\_members.htm](http://www.neuroscience.utoronto.ca/communications/news_cpिन_faculty_members.htm)



Congratulations to **Professor Shirley Wu** on being awarded the Killam Research Fellowship.

The Killam Research Fellowships are release time awards that provide support to scholars of exceptional ability who are engaged in research projects of broad significance and widespread interest within the disciplines of the humanities, social sciences, natural sciences, health sciences, engineering, or studies linking any of these disciplines.

Dr. Xiao Yu (Shirley) Wu is a Professor and internationally recognized expert and leader in advanced pharmaceuticals and drug delivery. She received her PhD degree at McMaster University and was a postdoctoral fellow at the University of Toronto. Her research includes brain-penetrating nanoparticles for diagnosis and treatment of brain cancer and CNS diseases, synergistic drug combination nanomedicine, bioreactive nanoparticles for modulating tumor microenvironment, glucose-responsive delivery of therapeutic hormones, and computer-aided design of controlled release dosage forms. Dr. Wu has been recognized by several awards including Astra Pharma-AFPC New Investigator Research Award, Fellow of the AAPS, and AFPC-Pfizer Research Career Award.

Current medications for Alzheimer's disease are limited to treat cognitive symptoms, mental deficits and agitation, yet fail to directly prevent or halt disease progression. To date, the process for developing new therapeutics has suffered significant setbacks due to formidable hurdles. Dr. Wu's project is to develop new agents that can efficiently enter the brain to enable noninvasive, early detection of neurodegenerative diseases including Alzheimer's disease, and monitoring disease progression and response to therapy, using clinically available imaging equipment. Wu lab is also developing small particles to shuttle drug and growth factors to the brain to reduce neuron injury and stimulate neuron regrowth.

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

### CPIN Newsletter

Zhong-Ping Feng  
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CPIN  
Graduate Studies

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CPIN Office

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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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### 2019 CPIN Research Day & Neurotechnology Symposium

[http://www.neuroscience.utoronto.ca/events/CPIN\\_Research\\_Day.htm](http://www.neuroscience.utoronto.ca/events/CPIN_Research_Day.htm)



  Collaborative Program In Neuroscience (CPIN)  
**UNIVERSITY OF TORONTO**

# CPIN Research Day

**Wednesday, JUNE 5<sup>TH</sup>**

**Stone Lobby,  
Medical Sciences Building  
(9AM – 5PM)**

**2019**

The **Collaborative Program in Neuroscience (CPIN)** welcomes everyone to join our 19<sup>th</sup> annual Research Day:

- Oral Presentations** by senior PhD students on the latest neuroscience research
- Research Posters** by CPIN students and postdoctoral fellows
- Neurotechnology Symposium**
  - Dr. Eusik Yoon** (Professor, Electrical & Biomedical Engineering, University of Michigan)
  - Dr. Sheena Josselyn** (Senior Scientist, SickKids)
  - Dr. Joyce Poon** (Director of Max Planck Institute for Microstructure Physics)
  - Dr. Taufik Valiante** (Neurosurgeon, Toronto Western Hospital)

**Sponsors:**





 Psychology UNIVERSITY OF TORONTO	 Pharmacology & Toxicology UNIVERSITY OF TORONTO	 Rehabilitation Sciences Institute UNIVERSITY OF TORONTO
 Human Biology UNIVERSITY OF TORONTO	 Computer Science UNIVERSITY OF TORONTO	 UNIVERSITY OF TORONTO LESLIE DAN FACULTY OF PHARMACY
 <b>CSB</b> Cell & Systems Biology	 UNIVERSITY OF TORONTO FACULTY OF DENTISTRY	 UNIVERSITY OF TORONTO OISE / ONTARIO INSTITUTE FOR STUDIES IN EDUCATION
 <b>SickKids</b>   Centre for Brain & Mental Health	 Laboratory Medicine & Pathobiology UNIVERSITY OF TORONTO	 Biochemistry UNIVERSITY OF TORONTO
 Medical Biophysics UNIVERSITY OF TORONTO	 UNIVERSITY OF TORONTO FACULTY OF MUSIC	 Institute of Medical Science UNIVERSITY OF TORONTO
		 Institute of Medical Science UNIVERSITY OF TORONTO

Image: by NICHOLAS Jeong (Flickr), Mouse Neurons

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The **2019 CPIN Research Day and Next Generation of Neurotechnology symposium** will be held on **Wednesday, June 5** at the Medical Sciences Building of the University of Toronto. The online registration is still open. Check the CPIN website for event updates: [http://www.neuroscience.utoronto.ca/events/CPIN\\_Research\\_Day.htm](http://www.neuroscience.utoronto.ca/events/CPIN_Research_Day.htm).



**Dr. Euisik Yoon** has been invited to give the keynote talk as a part of the Next Generation of Neurotechnology symposium. Dr. Yoon is a Professor in the Electrical Engineering & Computer Science and Biomedical Engineering Departments, and the Director of NSF International Program for Advancement of Neurotechnology (IPAN) at the University of Michigan.



**Dr. Joyce Poon** is a Director of the Max Planck Institute of Microstructure Physics, Professor of Electrical and Computer Engineering at University of Toronto, and an Honorary Professor in the Faculty of Electrical Engineering and Computer Science at the Technical University of Berlin. At the University of Toronto, she holds the Canada Research Chair in Integrated Photonic Devices. She and her team specialize in integrated photonics on silicon.



**Dr. Sheena Josselyn** is a Senior Scientist at the Hospital for Sick Children and a professor in the departments of psychology and physiology at the University of Toronto. She holds a Canada Research Chair in Brain Mechanisms underlying Memory and is a Fellow of the Royal Society of Canada. Dr. Josselyn's research focuses on understanding how information is encoded, stored and used in the brain, using a variety of different tools to examine memory in mice.



**Dr. Taufik Valiante** is currently the Director of the Surgical Epilepsy Program at the Krembil Neuroscience Center, a Scientist at the Krembil Research Institute, and has a cross-appointment at the Institute of Biomaterials and Biomedical Engineering. His neurosurgical staff appointment is at the Toronto Western Hospital, and he is currently Associate Professor of Neurosurgery at the University of Toronto.

The Research Day opens with a morning session of oral presentations delivered by CPIN PhD trainees. The day will conclude with an awards ceremony, including the Jonathan Dostrovsky Awards In Neuroscience, oral and poster presentation awards.

For the program updates, please visit the CPIN website ([http://www.neuroscience.utoronto.ca/events/CPIN\\_Research\\_Day.htm](http://www.neuroscience.utoronto.ca/events/CPIN_Research_Day.htm)).

We are extremely excited to see you all joining us on June 5!

### Neuroscience Opportunities

[http://www.neuroscience.utoronto.ca/communications/Positions\\_Available.htm](http://www.neuroscience.utoronto.ca/communications/Positions_Available.htm)

#### Postdoctoral Opportunities

##### Postdoctoral Fellowship, Human Factors and Neuroergonomics

National Research Council of Canada, Ottawa

Closing Date extended to: **June 12, 2019**

[Click here for details](#)

##### Cognitive intracranial EEG postdoc position

Dept. of Neurological Surgery, Center for Neuroscience  
University of California, Davis

[Click here for details](#)

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

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### Welcome New CPIN Students

<http://www.neuroscience.utoronto.ca/students/currentstudents.htm>

Last Name	First Name	Home Unit	Degree	Supervisor
Pranjic	Marija	MUS	PhD	Dr. Michael Thaut
Saderi	Matteo	PSL	PhD	Dr. Paul Frankland

#### Postdoctoral Fellows

Last Name	First Name	Home Unit	Supervisor
Rich	Scott	Toronto Western Research Institute   UHN	Dr. Frances Skinner
Thiruvallur Madanagopal	Thulasi	Institute of Medical Science	Dr. John B. Vincent

### Congratulations CPIN Graduating Students

[http://www.neuroscience.utoronto.ca/communications/news\\_cpin\\_students.htm](http://www.neuroscience.utoronto.ca/communications/news_cpin_students.htm)

Last Name	First Name	Home Unit	Degree	Supervisor
Anreiter	Ina	EEB	PhD	Dr. Marla Sokolowski
Guskjolen	Axel	PSL	PhD	Dr. Paul Frankland
Jegatheeswaran	Gaayathiri	IMS	PhD	Dr. Robert Chen
Nabbouh	Fadl	IMS	MSc	Dr. Anurag Tandon
Tan	Dorothy	MUS	MA	Dr. Michael Thaut
Tan	Joel	IMS	MSc	Dr. John Brumell
Young	Julia	PSY	PhD	Dr. Margot Taylor

### News - CPIN Trainees

[http://www.neuroscience.utoronto.ca/communications/news\\_cpin\\_students.htm](http://www.neuroscience.utoronto.ca/communications/news_cpin_students.htm)



Congratulations to CPIN student member **Caroline Park** (Institute of Medical Science, Dr. Roger McIntyre) on recently completing the CPIN requirements and graduating from her MSc program.

Caroline's research aimed to investigate various phenotypic and biological predictors of treatment response in patients with depressive disorders. During her graduate studies, she received several merit-based research awards and scholarships, including an Ontario Graduate Scholarship, two Institute of Medical Science fellowships, and a University Health Network Unilever/ Lipton Graduate fellowship. She also published four first-author research articles, all of which explore aspects related to the pathobiology and/ or

treatment of depression. As a leader and health advocate, Caroline is also a member of the Mental Health Advisory Committee of the University of Toronto Graduate Students' Union, where she helps organize events for mental health promotion and illness destigmatization. Caroline continues to openly advocate preventative and integrative approaches to health and wellness, and plans to continue contributing to the field as a mental health researcher.

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