

# Collaborative Program in Neuroscience (CPIN)

## University of Toronto

Newsletter – Vol. 30, No. 3 – March 2014

### Announcements

**CPIN Administration Change** The CPIN administration is undergoing a period of transition. We would like to extend our sincere thanks to the previous CPIN Administrator, Elissa Caccavella, and offer a warm welcome to our new Administrator, Suhail Asrar.

#### **Updates: The 16<sup>th</sup> Annual Toronto Brain Bee 2014 Friday, March 28, 2014**

**The Toronto Brain Bee Organizing Committee** met on March 11 to discuss the logistics of the 2014 event. The 16th Annual Toronto Brain Bee will be held at the Room 159 Amphitheatre of the Lash Miller Laboratories at the University of Toronto on Friday, March 28, 2014 between 12:30 & 5:00pm. The event is co-sponsored by the Department of Physiology, the Division of Anatomy, the Firefly Foundation and CPIN. For the event program, please visit <http://www.neuroscience.utoronto.ca/events/2014brainbee.htm>

**New Toronto Brain Bee Sponsor** We wish to thank the Division of Anatomy at the University of Toronto for its sponsorship of the 2014 Toronto Brain Bee. The Division of Anatomy has been a long-term supporter of the Toronto Brain Bee and has provided the opportunity for Brain Bee participants to visit the Anatomy Museum.

**Call for Brain Bee volunteers** Please contact [p.neuroscience@utoronto.ca](mailto:p.neuroscience@utoronto.ca) if you are interested in volunteering at this year's Brain Bee event.

#### **Updates: 2014 CPIN Research Day & International Symposium on Synaptic Plasticity and Brain Disorders Held in honour of the lifetime achievements of Dr. John C. Roder. Tuesday, April 8, 2014**

**The CPIN Research Day Organizing Committee** met on March 12. The event program is posted on [http://www.neuroscience.utoronto.ca/events/CPIN\\_Research\\_Day.htm](http://www.neuroscience.utoronto.ca/events/CPIN_Research_Day.htm). Registration will start at 9:00 am at the Medical Sciences Building (MSB) Stone Lobby.

**Poster Presentation and evaluation** will be held at the MSB Stone Lobby from 9:30 to 11:30 am. **Poster Presentation Awards** will be bestowed to students and postdoctoral fellows under the vigilance of an expert judging panel comprising of CPIN faculty members. Evaluation will be based on visual presentation, project content, oral presentation and the ability to answer questions. **Students' Choice Poster Awards** will be given to the top three presenters receiving the most student votes.

**The symposium** held in honour of **Dr. John C. Roder** is the featured event for the 2014 Research Day. The **2014 Raymond and Beverly Sackler Distinguished Lecture** will be delivered by **Professor Graham Collingridge** (Centre for Synaptic Plasticity, University of Bristol, UK). The events are organized in collaboration by the Lunenfeld-Tanenbaum Research Institute at Mount Sinai Hospital and the CPIN. This International Symposium will be held at Mount Sinai Hospital, 18th Floor Auditorium starting at 12:45 pm following the lunch.

**An Event Reception** will be held at the 18th Floor Auditorium lobby following the symposium.

**New 2014 CPIN Research Day Event Sponsors** We wish to thank the event sponsorships provided by the Faculty of Medicine, St. Michael's Neuroscience Research Program, the Brain Sciences Research Program at the Sunnybrook Research Institute, and Parkinson Society Canada.

**Call for Poster Presentation Judges** All CPIN faculty members are invited to attend the CPIN Research Day and provide feedback to our students' research work through this annual event. Your support and interaction with the students are the foundations for a successful training program. Please contact [p.neuroscience@utoronto.ca](mailto:p.neuroscience@utoronto.ca) if you are available to serve as a poster judge.

### CPIN Newsletter

Zhong-Ping Feng  
Director  
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Suhail Asrar  
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#### CPIN Office

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#### 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

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### Upcoming Events

#### 2014 CPIN Distinguished Lectureship Series

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



Speaker | **Dr. Akira Sawa**, MD, PhD; Professor, Psychiatry & Behavioural Sciences, Johns Hopkins Medicine; Director, Johns Hopkins Schizophrenia Center; Director, Silvio O. Conte Center for Schizophrenia Research at Johns Hopkins; Director, Molecular Psychiatry Program  
Title | *Potential of human stem cell approach: Linking molecular cellular signatures to clinical phenotypes in major mental illness*

Date | **Thursday, March 27, 2014**

Time | 4:00-5:00 p.m.

Location | Room 610, Health Sciences Building (155 College St.)

Host | Dr. James Kennedy, MD; Professor, Department of Psychiatry & Institute of Medical Science, University of Toronto; Director, Neuroscience Research Department & Head of Psychiatric Neurogenetics Section, Centre for Addiction & Mental Health (CAMH)

Co-Sponsor | Centre for Addiction & Mental Health (CAMH)

**Dr Akira Sawa Research Interests:** The research in our laboratory is directed towards understanding the pathogenesis of major mental illnesses, especially schizophrenia and mood disorders, at the molecular level. Furthermore, we anticipate our efforts may uncover fundamental mechanisms that mediate cognition, emotion, and thought. Taking advantage of our roles in both basic and clinical departments, our interdisciplinary research ranges from molecular/cellular biology and animal models to clinical studies using patient subjects.



Speaker | **Dr. Ana Martinez**, Research Professor, Spanish Council for Research

Title | *From the lab to the bedside targeting GSK-3 and PDE7*

Date | **Tuesday, April 8, 2014**

Time | 2:30-3:15 pm

Location | 18th Floor Auditorium, Mount Sinai Hospital, 600 University

Host | Dr. John Roder, PhD, FRSC; Senior Investigator, Lunenfeld-Tanenbaum Research Institute; Professor, Department of Molecular Genetics, University of Toronto

Co-Sponsor | Lunenfeld-Tanenbaum Research Institute

Please note this lecture will be given as part of the 2014 CPIN Research Day & International Symposium on Synaptic Plasticity & Brain Disorders.

**Dr. Ana Martinez Research Interests:** Dr. Ana Martinez is Research Professor at Medicinal Chemistry Institute of Spanish National Council for Research (CSIC), having a background formation on Organic Chemistry. Her interest is focused on neurodegenerative disorders, leading numerous research projects on the medicinal chemistry and rational drug design of new drugs for Alzheimer's and Parkinson's disease, amyotrophic lateral sclerosis, spinal cord trauma and multiple sclerosis.

#### Twelfth Annual Raymond & Beverly Sackler Distinguished Lecture

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

Date | Tuesday, April 8, 2014

Time | 5:00-6:00 pm

Location | 18th Floor Auditorium, Mount Sinai Hospital, 600 University Ave.

Speaker | **Dr. Graham Collingridge**, School of Physiology and Pharmacology, The University of Bristol, Bristol, UK

Title | *Memory Mechanisms in Health & Disease*

Host | Zhengping Jia, PhD; Senior Scientist, Neurosciences and Mental Health, The Hospital For Sick Children; Professor, Department of Physiology, Faculty of Medicine, University of Toronto



**Dr. Graham Collingridge Profile:** Graham Collingridge is the Professor of Neuroscience in Anatomy in the School of Physiology & Pharmacology at the University of Bristol, UK. From 1999 until 2012 he was also the Director of the MRC Centre for Synaptic Plasticity. He is also a former president of the British Neuroscience Association. In 2001 he was elected a fellow of The Royal Society. His research interests are in the molecular mechanisms of synaptic plasticity. He is particularly interested in how glutamate receptors and their downstream effectors are involved in the mechanisms of long-term potentiation (LTP) and long-term depression (LTD) in the hippocampus and other regions of the mammalian brain in health and disease.

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

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## Upcoming Events (Continued)

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**CPIN Special Lecture** For more information, visit: <http://www.neuroscience.utoronto.ca/events.htm>

Title | *The Neurobiology of Fear, Stress and Anxiety*

Speaker | **Dr. Marcus Brandao**; Professor & Director of the Institute of Neurosciences & Behavior, Rebeirao Preto, Brazil  
Institution | Research Support Center on the Neurobiology of Emotions at the University of Sao Paulo and the Institute of Neurosciences and Behavior, Rebeirao Preto, Brazil

Date and Time | Monday, March 31, 2014, 1:00 pm

Location | Medical Sciences Building, Room 2172, Faculty of Medicine, University of Toronto

Host | Dr. Wes Shera, Professor & Dean Emeritus, Director of Post-Master's Diploma in Social Service Administration, Factor-Inwentash Faculty of Social Work

Sponsors | Association of Universities and Colleges of Canada (AUCC) and International Development Research Centre (IDRC)

**CPIN – Neurotalk** For more information, visit: <http://www.neuroscience.utoronto.ca/events/Neurotalk.htm>

**CPIN Cortex Club** For more information, visit: <http://www.neuroscience.utoronto.ca/events/cortexclub.htm>

**U of T Neuroscience Seminars** For more information, visit: <http://neuroscience.utoronto.ca/events/seminar.htm>

### Cross Talks Seminar

Title | *Brain Stimulation: The Next Frontier for the Brain and Mind?*

Speakers | **Dr. Andre Lozano; Dr. Paul Frankland; Dr. Jonathan Downar**

Date and Time | Tuesday, March 25, 2014, 4:00 pm

Location | 2810J, IGT Multimedia Room, SickKids

### Physiology Seminar Series

Title | *In-vivo brain electrical signals as translatable markers in pharmaceutical neuroscience research*

Speaker | **Dr. Keith Wafford**; Principal Research Scientist, Pharmaceutical Neuroscience Research Lilly Research Laboratories, UK

Date and Time | Wednesday, March 26, 2014, 11:30 am

Location | Physiology Seminar Space, Medical Sciences Building, Room 3231, U of T

Host | Dr. Richard L Horner PhD, Director, Sleep & Biological Rhythms Toronto Research and Training Program

### Neuroscience Seminar

Title | *The Role of Sleep in Memory Storage*

Speaker | **Dr. Ted Abel**; Brush Family Professor of Biology & Co-Director Biological Basis of Behavior, University of Pennsylvania

Date and Time | Thursday, March 27, 2014, 10:30 am

Location | CRL Event Room 1 (2nd floor of the Peter Gilgan Centre for Research and Learning - Room #02.9320), Peter Gilgan Centre for Research and Learning, 686 Bay Street, Toronto

**Conferences and Meetings** For more information, visit: [http://neuroscience.utoronto.ca/events/Conf\\_M.htm](http://neuroscience.utoronto.ca/events/Conf_M.htm)

**SickKids Centre for Brain & Mental Health Day: The Newborn Brain – A Work in Progress - Interrupted**

April 16, 2014; SickKids' Peter Gilgan Centre for Research and Learning.

Further information and registration details can be found on the website at: <http://www.cvent.com/d/t4qpx0>

## Neuroscience Opportunities

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**Postdoctoral positions** are available at the Sibille Lab (CAMH) to study the cellular and molecular mechanisms of depression. These include the cell-specific molecular pathology of depression in human postmortem brain and genetic mouse models, mechanisms of brain accelerated aging in depression and preclinical studies of antidepressant activity.

For further details, please visit: [http://www.neuroscience.utoronto.ca/communications/Positions\\_Available.htm](http://www.neuroscience.utoronto.ca/communications/Positions_Available.htm)

**Seeking trainee position at the U of T Neuroscience Community**

Tribikram Thapa, a MSc student in the United Kingdom is seeking a PhD position at the University of Toronto in the area of stroke research. For more details and contact information, please visit:

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

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