

# Collaborative Program in Neuroscience (CPIN)

## University of Toronto

Newsletter – Vol. 29, No. 7 – June 2013

### Announcements

**Welcome New Members of the CPIN Board of Directors** The Board of Directors is pleased to welcome the new members, Professor Ernest Lam, Associate Dean of Graduate Studies at the Faculty of Dentistry; Professor Justin Nodwell, Chair of the Department of Biochemistry; and Professor Christopher Yip, Chair of the Institute of Biomaterials and Biomedical Engineering.

**Acknowledgements** We would like to thank Professor Reinhart Reithmeier, Professor Morris Manolson, and Professor Paul Santerre for their role in the CPIN Board of Directors in 2012-2013 and for their support for the CPIN program over the past years.

**CPIN Research Day Updates** The 2013 University of Toronto CPIN Research Day was held on June 10, in partnership with the International Symposium on Structural Neurobiology (June 11). We were honored to have Dr. Brian K Kobilka, Professor at Stanford University School of Medicine and the 2012 Nobel Prize Laureate in Chemistry, delivered our 2013 CPIN Raymond and Beverly Sackler Distinguished Lecture. The Research Day was well attended, with 90 poster presentations, 35 poster judges and over 240 attendees. Over 80 trainees participated in the pre-event Career workshop. This inter-faculty and inter-department interactive event was a tremendous success. The CPIN Executive Committee would like to congratulate the poster presentation awardees for their achievements, and thank all participants, especially the poster judges, the Research Day Organizing Committee and Graduate Executives for organizing the event. The event was generously supported by 17 sponsors, and 14 MoA Academic Departments from 5 faculties. (More details on page 2-6).

**CPIN Graduate Executives Election** The Graduate Executive Committee will call for an election in September, 2013, for positions in Communications and the executive at large. Details will be sent to all graduate students by email, and in the September Newsletter.

**CPIN Welcomes New Faculty Members** Bill Ju (Human Biology) and Steven Prescott (Physiology).

**CPIN Welcomes New Postdoctoral Fellow members** Gemma Baillie (Pharmacology, Ruth Ross Lab), Daniele Bolognini (Pharmacology, Ruth Ross Lab), Christie Burton (Sickkids, Paul Arnold Lab), Leon French (Ratman Research Institute, Tomas Paus Lab), Anil Kumar (Biochemistry, Andrew Woolley Lab), Emily Nalder (Ratman Research Institute, Deirdre Dawson Lab), Shraddha Pai (CAMH, Art Petronis Lab), Adnan Slioks (Biochemistry, Walter Whiteley Lab), Lauren Whyte (Pharmacology, Ruth Ross Lab).

**Newsletters** CPIN Newsletter will be reassumed in September 2013 after the summer break. Please check CPIN website for Neuroscience Events: <http://neuroscience.utoronto.ca/events.htm>

**Congratulations to the graduates of the CPIN program** Nina Bahl (MSc/IMS, Supervisor: R. Chen), Sarah Figley (PhD/IMS; Supervisor: M. Fehlings), and Angela Rodding (PhD/Pharmacology, Supervisor: J. Warsh).

### Welcome New CPIN Students

| Last Name | First Name | Program | Department | Supervisor        |
|-----------|------------|---------|------------|-------------------|
| Baello    | Stephanie  | PhD     | PSL        | Stephen Matthrws  |
| Cheung    | Jeffrey    | MSc     | IMS        | Adam Dubrowski    |
| Gray      | Courtney   | MA      | Psychology | Tomas Paus        |
| Mahabir   | Samantha   | CSB     | PhD        | Robert Gerelai    |
| Manno     | Francis    | PhD     | IMS        | Karen Gordon      |
| McKelvey  | Kyra       | MA      | Psychology | Morris Moscovitch |
| Osipov    | Denis      | PSL     | MSc        | Mike Salter       |

### CPIN Newsletter

Zhong-Ping Feng  
Director  
CPIN  
Graduate Studies

Katie Ferguson  
Vladislav Sekulić  
Communications  
Graduate executives

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## CPIN Research Day Updates ([http://neuroscience.utoronto.ca/events/CPIN\\_Research\\_Day.htm](http://neuroscience.utoronto.ca/events/CPIN_Research_Day.htm))

**The 2013 University of Toronto CPIN Research Day** was held on June 10, in partnership with the International Symposium on Structural Neurobiology (June 11). Dr. Brian K Kobilka, Professor at Stanford University School of Medicine and the 2012 Nobel Prize Laureate in Chemistry, delivered the 2013 Raymond and Beverly Sackler Distinguished Lecture. Over 240 graduate, postdoc and faculty members and friends attended the CPIN Research Day.

**Pre-event Career workshop** The 2013 CPIN Research Day Organizing Committee hosted the pre-event Career Workshop on alternative (non-academic) career options for Neuroscience graduates, at MSB2172 from 9:30 am to 11:00 am on June 10. Over 80 students attended the workshop. The workshop were chaired by Professors Janice Robertson and Zhong-Ping Feng. Five Neuroscience graduates spoke about their training experiences and their career transition into jobs outside of academia. The featured speakers are Dr. Christa Studzinski, Senior Program Lead of Research Programs, OBI; Dr. Ruslan Dorfman, Co-Founder, Geneyouin Inc.; Dr. Alison Denney, Senior Program Lead for Industry Relations, OBI; Dr. Philip Caffrey, Public Policy and Programs Analyst, Alzheimer's Society of Ontario; and Dr. Kirk Nylen, Acting Director of Operations and Outreach, OBI. We would like to express our gratitude to the speakers for providing insight into the diversity of potential career paths for neuroscience graduates (<http://neuroscience.utoronto.ca/events/2013workshop.htm>). We would like to express our gratitude to the speakers for providing insight into the diversity of potential career paths for neuroscience graduates.



**CPIN Research Day** began with welcome by Professor Zhong-Ping Feng, the CPIN Director, at 12:00 noon at the Stone Lobby. Professors Peter Lewis (Associate Vice-President, UofT), Alison Buchan (Vice-Dean, FofM), and Sandy Welsh (Vice Dean, Arts & Science) made the opening remarks on behalf of the University of Toronto, Faculty of Medicine and Faculty of Arts and Science, respectively. Prof Feng also acknowledged the 17 sponsors for the Research Day and 14 MoA Academic Departments/Units from 5 Faculties. Professors Albert Wong and Janice Robertson acknowledged the faculty judges and announced the process of 2-round evaluation for poster presentations. Professor Lili-Naz Hazrati announced the rule of Student Choice Poster Presentation Awards.



(Photo credits to Dr. Hong-Shuo Sun)

**CPIN Research Day Sponsorship** The 2013 CPIN Research Day Organizing Committee wish to acknowledge the following sponsors: The Faculty of Medicine, Rotman Research Institute, Mount Sinai Hospital Samuel Lunenfeld Research Institute, SickKids Research Institute Neuroscience & Mental Health, St. Michael's Hospital, Toronto Western Research Institute, Raymond and Beverly Sackler Foundation, Ontario Brain Institute, Parkinson Society Canada, Olympus Canada, and Departments of Anesthesia, Computer Science, Laboratory Medicine & Pathobiology, Pharmacology & Toxicology, Physiology and Psychiatry, and Human Biology Program ([http://neuroscience.utoronto.ca/events/CPIN\\_Research\\_Day.htm](http://neuroscience.utoronto.ca/events/CPIN_Research_Day.htm)),

**The 14 CPIN participating Departments** and their faculties are: Departments of Cell & System Biology, Psychology, and Computer Science from Faculty of Arts and Science; Graduate Department of Dentistry from Faculty of Dentistry; Departments of Biochemistry, Laboratory Medicine & Pathobiology, Medical Biophysics, Pharmacology, Physiology, Rehabilitation Science, Institute of Biomaterials & Biomedical Engineering, and Institute of Medical Science from Faculty of Medicine; Graduate Department of Pharmaceutical Sciences from Faculty of Pharmacy; and Department of Applied Psychology & Human Development from Ontario Institute For Studies in Education.

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## CPIN Research Day Updates ([http://neuroscience.utoronto.ca/events/CPIN\\_Research\\_Day.htm](http://neuroscience.utoronto.ca/events/CPIN_Research_Day.htm))

**Poster Presentations and Evaluations** 90 poster presentations were given by the CPIN trainees at the Stone Lobby from 12:30 pm to 4:00 pm. 5 Overall Outstanding Poster Presentations and 10 Outstanding Poster Presentations were recognized by the faculty judges after two rounds of evaluations. The CPIN students also voted for their favored posters, resulting in 12 Student Choice Poster Presentation Awards. This inter-faculty and inter-department interactive event was a tremendous success. The CPIN Executive Committee would like thank all participants, the poster judges, and graduate student volunteers.



(Photo credits to Dr. Albert Wong)

**Thanks Judges** A very special thank you to the faculty members who volunteered to judge the poster presentations:

|                  |                |                  |                     |                 |               |
|------------------|----------------|------------------|---------------------|-----------------|---------------|
| Ana Andrezza     | Paul Fletcher  | Bill Ju          | Daniel Mueller      | Frances Skinner | Lu-Yang Wang  |
| Limor Avivi-Arbe | Susan George   | Rasmus Kiehl     | Joanne Nash         | Shuzo Sugita    | John Yeomans  |
| Paul Boutros     | Karen Gordon   | Evelyn Lambe     | Jose Nobrega        | Hong-Shuo Sun   | Karl Zabjek   |
| Sid Croul        | David Hampson  | Robert Levitan   | Janice Robertson    | Franco Taverna  | Martin Zack   |
| Suzanne Erb      | Jeff Handerson | Philippe Monnier | Gerold Schmitt-Ulms | Douglas Tweed   | Richard Zemel |
| Jim Eubanks      | Zhengping Jia  | Howard Mount     | Barry Sessle        | John Vincent    |               |

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## CPIN Research Day Updates ([http://neuroscience.utoronto.ca/events/CPIN\\_Research\\_Day.htm](http://neuroscience.utoronto.ca/events/CPIN_Research_Day.htm))

**Sackler Distinguished Lecture** Dr. Brian K Kobilka, Professor at Stanford University School of Medicine and the 2012 Nobel Prize Laureate in Chemistry, delivered our 2013 CPIN Raymond and Beverly Sackler Distinguished Lecture, which is also the keynote lecture of International Symposium of Structural Neurobiology, chaired by Professor Oliver Ernst. Over 400 graduate students, postdoctoral fellows and faculty members and guests attended the lecture. Following the welcome by Prof. Oliver Ernest, Prof. Peter Lewis (Associate Vice-President, UofT) and Prof. Alison Buchan (Vice-Dean, FofM), spoke on behalf of the University of Toronto and Faculty of Medicine, respectively. Prof. Zhong-Ping Feng acknowledged the Sackler Foundation as well as the other 16 sponsors for the Research Day and the 14 CPIN participating Departments/Units. Prof. Oliver introduced the Sackler Lecturer, Dr. Brian Kobilka. Dr. Brian Kobilka delivered the world-class lecture on structural insights into the dynamic process of G-protein coupled receptor activation, and highlighted the unequivocal contribution of the state-dependent structural characterization of the receptors to drug discovery. The lecture was educational, informative and inspirational. Dr. Brian Kobilka's lecture was also webcasted and attended off-site by the neuroscientists and trainees from UofT, Queen's University and McMaster University.



(Photo credits to Dr. Hong-Shuo Sun)

**Congratulates to Awardees** Following the Sackler Lecture, Dr. Lili-Naz Hazrati and Dr. Albert Wong announced the winners of the Student's Choice Poster Awards, the Outstanding Poster Presentation Awards and the Overall Outstanding Poster Presentation Awards. Dr. Brian Kobilka joined Dr. Zhong-Ping Feng to present the awards to the winners. The International Symposium In Structural Biology took place on June 11 following the CPIN Research Day. Many congratulations to the poster presentation awardees:

### The Student's Choice Poster Winners:

Most Popular:

- 1-Soaleha Shams (PhD/CSB) Supervisor: Robert Gerlai
- 2-Gang Wang (MSc/IMS) Supervisor: Karen Davis
- 3-Aaron Kucyi (PhD/IMS) Supervisor: Karen Davis

Outstanding Research:

- 1-Soaleha Shams (PhD/CSB) Supervisor: Robert Gerlai
- 2-Aaron Kucyi (PhD/IMS) Supervisor: Karen Davis
- 3-Gang Wang (MSc/IMS) Supervisor: Karen Davis

Visually Effective:

- 1-Gang Wang (MSc/IMS; Supervisor: Karen Davis)
- 2-Daniel Lee (PhD/PSY; Supervisor: Adam Anderson)
- 3-Soaleha Shams (PhD/CSB; Supervisor: Robert Gerlai)

Oral Presentation:

- 1- Soaleha Shams (PhD/CSB; Supervisor: Robert Gerlai)
- 2-Gang Wang (MSc/IMS; Supervisor: Karen Davis)
- 3-David Dukoff (MSc/CSB; Supervisor: Les Buck)

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## CPIN Research Day Updates ([http://neuroscience.utoronto.ca/events/CPIN\\_Research\\_Day.htm](http://neuroscience.utoronto.ca/events/CPIN_Research_Day.htm))

### The Overall Outstanding Poster Winners:

Pieter Beerepoot (PhD/PCL; Supervisory: Ali Salahpour)  
Hillary Bond (MSc/CSB; Supervisor: Leslie Buck)  
Helen Chiang (PhD/LMP; Supervisor: Janice Robertson)

Nancy Dong (PSL; Supervisor: Zhong-Ping Feng)  
Celeste Leung (MSc/PSL; Supervisor: Zhengping Jia)

### The Outstanding Poster Winners:

Monique Budani (MSc/LMP; Supervisor: Clifford Lingwood)  
Michael Chang (MSc/IMS; Supervisor: Taufik Valiante)  
Vanessa Ghosh (PhD/PSY; Supervisor: Asaf Gilboa)  
Marielle Deurloo (PhD\*/PSL; Supervisor: Zhong-Ping Feng)  
Doris Lam (PhD/PSL; Supervisor: Lyanne Schlichter)

Zhong Xu Liu (PhD/APHD; Supervisor: Morris Moscovitch)  
Adam Mosa (MSc/PSL; Supervisor: Martin Wojtowicz)  
Gabriela Rozanski (PhD/PSL; Supervisor: Elise Stanley)  
Sonia Sugumar (MSc/PSL; Supervisor: Peter Carlen)  
Paul Whissell (PhD/IMS; Supervisor: Bev Orser)

\*international student



Students' Choice Poster Presentation Awardees with Dr. Brian Kobilka and the Award Organizing Committee Chairs.



Overall Outstanding and Outstanding Poster Awardees with Dr. Brian Kobilka and the Poster Judge Organizing Committee members.



Dr. Brian Kobilka and the CPIN Research Day Organizing Committee.

The Immense success of the 2013 CPIN Research Day is attributable to enormous team effect by the CPIN faculty members, postdoctoral fellows and graduate students, and CPIN Research Day Organizers, particularly the CPIN Research Day Organizing Committee and CPIN Graduate Executive Committee.

## CPIN Research Day Organizers

### Research Day Organizing Committee

Zhong-Ping Feng (Chair)  
Oliver Ernst (also ISNB organizer)  
Lili-Naz Hazrati  
Janice Robertson  
Albert Wong

### CPIN Graduate Student Executives:

Andrew Barszczyk  
Ceilidh Cunningha  
Katie Ferguson (Liaison)  
Vivek Mahadevan  
Denis Osipov  
Vladislav Sekulic  
Bhanu Sharma  
Luka Srejc  
Sonia Sugumar

### Sackler Lecturer Invitation

Oliver Ernst

### Workshop

Zhong-Ping Feng  
Janice Robertson

### Poster Judge Organizing Committee

Janice Robertson (Co-Chair)  
Albert Wong (Co-Chair)  
Lili-Naz Hazrati  
Zhong-Ping Feng

### Student's Choice Poster Awards Committee

Zhong-Ping Feng (Co-Chair)  
Lili-Naz Hazrati (Co-Chair)  
Andrew Barszczyk  
Luka Srejc

### Sponsorships

Zhong-Ping Feng (Chair)  
Oliver Ernst  
Lili-Naz Hazrati  
Bev Orser  
Janice Robertson  
Albert Wong  
Richard Zemel

### Event Program Design

Katie Ferguson  
Vladislav Sekulic

### Poster Site Coordinator

Luka Srejc  
Sonia Sugumar

### Registration Desk

Luka Srejc (Co-Chair)  
Bhanu Sharma (Co-Chair)  
Andrew Barszczyk  
Ceilidh Cunningha  
Katie Ferguson  
Vivek Mahadevan  
Vladislav Sekulic  
Sonia Sugumar (AV)

### Photographers

Albert Wong  
Denis Osipov  
Hong-Shuo Sun

### Administration

Victoria Simpson  
Rob Reedijk

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The CPIN Research Day was generously supported by:



Neurosciences & Mental Health



**Raymond and Beverly Sackler Foundation**

## The CPIN Participating Academic Units:

### Faculty of Arts and Science

Cell & System Biology  
Psychology  
Computer Science

### Faculty of Dentistry

Graduate Department of Dentistry

### Faculty of Medicine

Biochemistry  
Laboratory Medicine &  
Pathobiology  
Medical Biophysics

### Faculty of Medicine (Cont')

Pharmacology & Toxicology  
Physiology  
Rehabilitation Science  
Institute of Biomaterials & Biomedical Engineering  
Institute of Medical Science

### Faculty of Pharmacy

Graduate Department of Pharmaceutical Sciences

### Ontario Institute For Studies in Education

Applied Psychology & Human

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## CPIN Board of Directors and Committees (2012 – 2013)

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**The CPIN Board of Directors** reviews and signs the Memorandum of Agreement (MoA) and oversees the general direction of the program. The Board of Directors is composed of:

- John Coleman (Interim, Cell and Systems Biology)
  - Morris Moscovitch (Psychology)
  - Sven Dickinson (Computer Science)
  - Morris Manolson (Dentistry)
  - Reinhart Reithmeier (Biochemistry)
  - Harry Elsholtz (Laboratory Medicine and Pathobiology)
  - Peter Burns (Medical Biophysics)
  - Ruth Ross (Pharmacology)
  - Stephen Matthews (Physiology)
  - Katherine Berg (Rehabilitation Science)
  - Paul Santerre (Interim: Institute of Biomaterials and Biomedical Engineering)
  - Allan Kaplan (Institute of Medical Science)
  - Heather Boon (Pharmaceutical Sciences)
  - Ester Geva (Applied Psychology and Human Development)
  - Avrum Gottlieb (Lead Faculty: Faculty of Medicine)
  - David R. Hampson (Honorary director, past CPIN director)
  - Zhong-Ping Feng (Chair, CPIN Director; Physiology)
- (<http://neuroscience.utoronto.ca/aboutus/BoardDirectors-2013.htm>)

**The CPIN Academic Committee** reviews admission and program requirements, program curriculum and completion, and program activities as per the MoA. The Academic Committee is composed of:

- Julie Audet (Institute of Biomaterials and Biomedical Engineering)
  - Peter Carlen (Institute of Medical Science)
  - Jonathan O. Dostrovsky (Honorary member: Physiology)
  - Zhong-Ping Feng (Chair)
  - David R. Hampson (Honorary member: Pharmaceutical Sciences)
  - Jeffrey Henderson (Pharmaceutical Sciences)
  - Kang Lee (Applied Psychology and Human Development)
  - Peter McPherson (Pharmacology)
  - Angus McQuibban (Biochemistry)
  - John Peever (Cell and Systems Biology)
  - Janice Robertson (Laboratory Medicine and Pathobiology)
  - Barry J. Sessle (Dentistry)
  - Bojana Stefanovic (Medical Biophysics)
  - Martin Wojtowicz (Physiology)
  - John S. Yeomans (Psychology)
  - Karl Zabjek (Rehabilitation Science)
  - Richard Zemel (Computer Science)
  - CPIN Graduate Executives representative
- (<http://neuroscience.utoronto.ca/aboutus/academic.htm>)

**The CPIN Executive Committee** reviews and leads the program activities as per the MoA, including distinguished lecture selection, Research Day, high school outreach program, sponsorships and faculty-student interactive events. The Executive Committee is composed of:

- Oliver Ernst (Biochemistry)
  - Zhong-Ping Feng (Chair)
  - David R. Hampson (Honorary member: Pharmaceutical Sciences)
  - Lili-Naz Hazrati (Laboratory Medicine and Pathobiology)
  - Jeffrey Henderson (Pharmaceutical Sciences)
  - Kang Lee (Human Development and Applied Psychology)
  - John Peever (Cell and Systems Biology)
  - Ruth Ross (Pharmacology & Toxicology)
  - Barry J. Sessle (Dentistry)
  - Molly Shoichet (Institute of Biomaterials and Biomedical Engineering)
  - Bojana Stefanovic (Medical Biophysics)
  - Lu-Yang Wang (Physiology)
  - Albert Wong (Institute of Medical Science)
  - John S. Yeomans (Psychology)
  - Karl Zabjek (Rehabilitation Science)
  - Richard Zemel (Computer Science)
  - CPIN Graduate Executives representative
- (<http://neuroscience.utoronto.ca/aboutus/executive.htm>)