



# UNIVERSITY OF TORONTO NEUROSCIENCE PROGRAM NEUROSCIENCE NEWSLETTER

University of Toronto Neuroscience Program Newsletter  
November 2011 | Volume 28 | Number 3

## UPCOMING DISTINGUISHED LECTURESHIP SERIES 2011-2012

THURSDAY, NOVEMBER 3<sup>RD</sup>, 2011



**Speaker** | Dr. Richard Morris, Centre for Cognitive and Neural Systems, University of Edinburgh, UK

**Topic** | **Memory consolidation: synaptic tagging and schemas**

**Time** | 3:30 – 4:30PM

**Host** | Dr. Paul Frankland, PhD Senior Scientist, Hospital for Sick Children

**Location** | MS 3154, Medical Sciences Bldg University of Toronto

FRIDAY, DECEMBER 9, 2011



**Speaker** | **Roy A. Wise, Ph.D.**, F.R.S.C., Senior Investigator, Chief, Behavioral Neuroscience, NIDAIRP, Baltimore, MD.

**Title** | The key to the treasure is the treasure (The predictor of reward becomes the reward: How the peripheral effects of cocaine explain the speed of cocaine)

**Time** | 10:00 – 11:00AM

**Location** | Room 6, TANZ Neuroscience Building, University of Toronto

**Host** | Dr. Derek von der Kooy

MONDAY, DECEMBER 12<sup>TH</sup>, 2011



**Speaker** | Dr. Michael E. Goldberg, David Mahoney Professor of Brain and Behavior, Director of The Mahoney Center at Columbia University (New York)

**Topic** | **Helmholtz and Sherrington were both right - corollary discharge and oculomotor proprioception in the analysis of space by the monkey brain**

**Time** | 4:00 - 5:00PM

**Host** | Dr. Martin J. Steinbach

**Location** | HS 610, Health Sciences Bldg University of Toronto

THURSDAY, MARCH 1<sup>ST</sup>, 2012



**Speaker** | Dr. Bradley Peterson

**Research** | Serious childhood-onset neuropsychiatric disorders

**Time** | 4 – 5pm

**Hosts** | Prof. Paul Sandor, Dept of Psychiatry, UofT | Elia Abi Jaoude, MSc., MD., PhD Candidate (CPIN)

TUESDAY, APRIL 24<sup>TH</sup>, 2012



**Speaker** | Dr. Keith Cicerone, Dir. Neuropsychology, JFK Johnson Rehabilitation Institute & New Jersey Neuroscience Institute, JFK Medical Center, New Jersey

**Topic** | **Process and outcome of holistic neuropsychological rehabilitation**

**Host** | Dr. Deirdre Dawson

**Location** | MS 3154, Medical Sciences Bldg University of Toronto (TBC)

MONDAY, MAY 7<sup>TH</sup>, 2012



**Speaker** | Dr. Eric Jorgensen, University of Utah

**Time** | TBA

**Research interests** | **Synaptic plasticity and memory**

**Host** | Mei Zhen, Samuel Lunenfeld Research Institute

THURSDAY, MAY 17, 2012



**Speaker** | **Christopher Summerfield, PhD**, University of Oxford, Lecturer, Dep't of Experimental Psychology, Psychology Tutor at Wadham College Medical Centre

**Date** | Thursday, May 17, 2012

**Time** | 4:00PM - 5:00PM (TBC)

**Topic** | Neural and computational mechanisms of decision-making in human observers

**Hosts** | Prof. Eve deRosa, UofT | Taylor Schmitz, MA, PhD Candidate CPIN

**CPIN Students must attend 75% of the Lectureship Series each year according to their program (Masters or PhD) requirement.**

## UTNP Administration



**Michael G. Fehlings**  
Director, UTNP



**David R. Hampson**  
Director, CPIN



**Alexander A. Velumian**  
Planning & Operations



**Tallie Rabin-Claassen**  
Interim Program Coordinator

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## UTNP SfN RECEPTION

**PLEASE JOIN US AT THE UTNP RECEPTION AT THE SOCIETY FOR NEUROSCIENCE 41<sup>ST</sup> ANNUAL MEETING IN WASHINGTON D.C.**

University of Toronto Neuroscience Program Reception  
Date | Monday, November 14  
Time | 6:30 PM - 8:30 PM  
Location | Renaissance Washington DC  
Room | Congressional Hall 'C'

**RSVP: [p.neuroscience@utoronto.ca](mailto:p.neuroscience@utoronto.ca)**

Further details about the Reception:  
[http://www.sfn.org/am2011/events/satellite\\_events.aspx](http://www.sfn.org/am2011/events/satellite_events.aspx)

### JOIN US FOR OUR MEET & GREET

This November 2<sup>nd</sup> we will have Graduate Students and Post Docs on a panel for a "Q&A" with undergraduates in neuroscience.

The Q&A will be followed by a "Meet the Profs" gathering from 2 – 3pm. Light refreshments will be served.

**Faculty Members, please confirm you will attend.** Many students are looking forward to meet you! [p.neuroscience@utoronto.ca](mailto:p.neuroscience@utoronto.ca)

### ☆ RESOURCES AVAILABLE TO BORROW ☆

The CPIN Program Office has DVDs with neuroscience educational material for students to loan on short-term basis. Available are: "The Human Body: How we fail, How we heal," "Philosophy of the mind," and "Understanding the brain."

For more information contact the Program Office at [p.neuroscience@utoronto.ca](mailto:p.neuroscience@utoronto.ca) or 416.978.8761

### COMPUTER SCIENCE DEPARTMENT: PENDING NEW ADDITION TO CPIN

UTNP and the Computer Science Department are currently working out an agreement to include Graduate Studies in Computer Science in CPIN. Check back with us soon!

## Thank you to Gail Mandel, UTNP Distinguished Lecturer!

**Gail Mandel, VOLLUM Institute and Howard Hughes Medical Investigator, National Academy of Science member** spent 3 days in October in Toronto. She visited with members of CPIN and gave a seminar highlighting her recent work on how REST is involved in cell lineage determination during development. The seminar was well received and prompted a lot of discussion among the attendees. Gail was impressed with the breadth of our neuroscience program and is looking forward to returning.

She shared some insights with several IPs on some of her results and as well gave input on their work. She is eager to strike collaboration with UofT. We're glad that she also enjoyed a fine dinner and the view from the top of the CN Tower.

## UPCOMING NEUROSCIENCE MEETINGS

**CIHR Training Program in Biological Therapeutics Symposium**  
**Biological Therapeutics and Cancer: Basic Science, Development, Delivery, and Clinical Evaluations**  
Friday, November 4, 2011, 9:00am to 6:00pm  
Health Sciences Building Auditorium, University of Toronto, 155 College St, Room 610

**Symposium 1 - 9:00am to 10:45am - Basic science and cancer**  
**Session I:** Jonathan D. Licht, M.D. (Northwestern University Feinberg School of Medicine), "Targeting the MMSET Protein in Multiple Myeloma"  
**Session II:** Riccardo Alessandro, Ph.D. (University of Palermo, Italy), "Characterization, Functional Analysis and Drug Manipulation of Exosomes in CML"

**Coffee Break - 10:45am to 11:00am**

**Symposium 2 - 11:00am to 12:45pm - Strategies/experiences in Biotherapeutic Drug Development**  
**Session I:** David Stojdl, PhD (Children's Hospital of Eastern Ontario, University of Ottawa), "Discovery and Development of Oncolytic Rhabdoviruses"  
**Session II:** John E. Shively, PhD (City of Hope), "Imaging and Therapy with Radiolabeled Antibodies"  
**Lunch/Poster Session - 12:45pm to 2:00pm**

**Symposium 3 - 2:00pm to 3:15pm - Drug delivery**  
**Session I:** Dr. Pieter Cullis (UBC), "Personalized Lipid Nanoparticle siRNA Systems for Treatment of Cancer"  
**Session II:** Jeff Leyton, PhD (Postdoctoral Fellow, Raymond Reilly Lab, UofT), "Targeting CD123-Positive Leukemia Stem Cells - Pharmacokinetic Lessons Learned from Molecular Imaging Approaches"

**Coffee Break - 3:15pm to 3:30pm**



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## **Symposium 4 - 3:30pm to 5:45pm - *Clinical trials/important issues, road blocks, experiences etc.***

**Session I:** Marko Skrtic (MD/PhD Student, Aaron Schimmer Lab, PMH/OCI), "Inhibition of Mitochondrial translation as a Novel therapeutic Strategy for AML - From Bench to Bedside"

**Session II:** Dr. David Kim (Jennerex Biotherapeutics), "Targeted and Transgene-armed Oncolytic Vaccinia Viruses for Cancer"

**Session III:** Dr. Ronan Foley (Juravinski Cancer Centre), "Bench to Clinic - 'The Long and Winding Road'"

### **Reception to follow**

If you would like to attend this symposium, please rsvp [biotherapeutics@utoronto.ca](mailto:biotherapeutics@utoronto.ca). Lunch will only be available to registered attendees. Registration is free. Sponsored in part by genzyme

## **ACQUIRED BRAIN INJURY 2011 PROVINCIAL CONFERENCE**

Date | November 2-4, 2011

Location | Sheraton on the Falls Hotel, Niagara Falls, Ontario

Website | [www.obia.on.ca](http://www.obia.on.ca)

## **CALL FOR WORKSHOP PROPOSALS:**

Situating Science is a SSHRC-funded Strategic Knowledge Cluster, mandated to build networks among scholars, Canadian and international, in the various disciplines engaged in the humanistic and social study of science and technology, and to engage the work of these scholars with the wider Canadian public.

Situating Science is soliciting workshop proposals for the timeframe of: Jan. 1, 2012 to March 31, 2013. Up to two Canadian workshops will be funded (up to \$10,000 each). Workshop topics should fall under one of the four themes of the Cluster:

- Science and its Publics
- Historical Epistemology and Ontology (including philosophy of science)
- Material Culture and Scientific/Technological Practices
- Geography and Sites of Knowing

Detailed information on the themes can be found at [www.situsci.ca](http://www.situsci.ca). The themes are intended to be broad and flexible. If in doubt as to whether your proposed topic fits within one of the themes, contact your local SituSci organisers or the SituSci central office.

## **NEUROSCIENCE-RELATED SEMINARS & EVENTS**

### **Music Psychology and Neuroscience: What are the Questions?**

DATE | Tuesday Nov 1, 2011

TIME | 7:15 - 9:00 pm

LOCATION | Walter Hall, Faculty of Music, Edward Johnson Building 80 Queen's Park Cres.

FEATURED SPEAKER | Vera Brandes, Director, Research Program in Music-Medicine, Paracelsus Medical University, Salzburg, Austria  
Topic | **"Connecting Music, Psychology, Neuroscience, and Health."**

SPEAKERS: Sharing short "reports" of research in progress will be:

- Glenn Schellenberg, Music & Cognition Laboratory, UTM
- Takako Fujioka, Rotman Research Institute
- Bernhard Ross, Rotman Research Institute
- Frank Russo, SMART Lab, Ryerson
- Mark Schmuckler, Laboratory for Infant Studies, UTS
- Jessica Grahn, Centre for Brain and Mind, University of Western Ontario
- Sandra Trehub, Auditory Development Laboratory, UTM
- Michael Schutz, MAPLE Lab (researching Music, Perception, Acoustics and Learning), McMaster University
- Laurel Trainor, McMaster Institute for Music and the Mind

RSVP: Dina Garcia <[dina.garcia@utoronto.ca](mailto:dina.garcia@utoronto.ca)>

### **SAMUEL LUNENFELD RESEARCH INSTITUTE OF MOUNT SINAI HOSPITAL A University of Toronto Affiliated Research Institute**

Date | Wednesday, November 2

Time | 12:00 p.m.

Speaker | **Daniel A. Colón-Ramos, PhD.**, Assistant Professor of Cell Biology, Yale Program in Cellular Neuroscience, Neurodegeneration and Repair Yale School of Medicine

Topic | **Molecular mechanisms of presynaptic targeting in vivo'**

Host | Joe Culotti

Location | Mount Sinai Hospital, 60 Murray St. Level 3 Conference Rooms, L3-201-202-203\*\*

Date | Wednesday, November 2<sup>nd</sup>

Time | 1pm – 3pm

Event | **Undergraduates Q&A with Graduate Students & Meet and Greet with CPIN Professors**

Location | Banting Building Room 131, University of Toronto

Hosts | **UTNP & Neuroscience Association of Undergraduate Students (NAUS)**

~ REFRESHMENTS WILL BE SERVED

Date | Friday, November 4<sup>th</sup>

Time | 4pm (sharp)

Topic | **Pattern separation in the Dentate Gyrus and beyond**

Location | Sidney Smith Bld, Room 560A, ground fl, University of Toronto

Speaker | **Diano Marrone, PhD**, Faculty of Science, Wilfred Laurier University

Hosts | Brain and Behaviour Seminar Series

Date | Friday, November 4<sup>th</sup>

Time | 1:30 - 2:30PM

Topic | **The Myc - miR-17-92 Story and its Unusual Suspects**

Location | Room 1527, Hill Wing, Hospital for Sickkids

Speaker | **Dr. Andrei Thomas-Tikhonenko**, Department of Pathology & Laboratory Medicine, University of Pennsylvania

Hosts | Program in Cell Biology Seminar Series



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Date | Monday, November 14<sup>th</sup>  
Time | 6:30 – 8:30pm  
Event | Inaugural SFN Social on Inhibitory Synaptic Plasticity & Neuronal CI Regulation  
Location | Grand Hyatt, McPherson Room  
Hosts | Woodin Lab  
RSVP |  
<http://www.facebook.com/event.php?eid=148479291918072&context=create#!/event.php?eid=148479291918072>

### Program in Cell Biology Seminar Series

#### The Hospital For Sick Children

Date | Friday, November 18, 2011  
Time | 1:30-2:30  
Speaker | Dr. Sachdev Sidhu, Banting & Best Department of Medical Research, University of Toronto  
Topic | “Synthetic Proteins: New Tools for New Biology”  
Location | Room 1527, Hill Wing, Hospital for Sick Children

Date | Friday, November 25, 2011  
Time | 1:30-2:30  
Speaker | Dr. Gerald Krystal, The Terry Fox Laboratory, British Columbia Cancer Research Centre  
Topic | A Low Carbohydrate, High Protein Diet Both Slows and Reduces the Incidence of Cancer  
Location | Room 1527, Hill Wing, Hospital for Sick Children

### 10<sup>th</sup> Annual Charles H. Tator - Barbara Turnbull Lectureship Series in Spinal Cord Injury

Date | Friday, November 25, 2011  
Time | 10:00 AM – 5:00 PM  
Location | The Guildhall, 3<sup>rd</sup> Floor, The Old Mill Inn & Spa, 21 Old Mill Road, Toronto, ON M8X 1G5

This annual presentation features leading researchers in the field of spinal cord injury. We are excited to have Armin Curt, Professor and Chairman, Spinal Cord Injury Center as the 2011 Keynote Speaker.

In addition, CIHR will announce the recipient of the 2011 Barbara Turnbull Award during the lectureship. This prestigious award, which was established in 2001, is presented to the top ranked spinal cord researcher identified through CIHR's investigator-initiated grants competition.

The Krembil Neuroscience Centre has established prizes for the top two (2) student posters presented at the Charles Tator - Barbara Turnbull Event. All trainees working in the field of spinal cord injury are encouraged to submit an abstract by **November 17, 2011**. The Abstract Submission Guidelines are attached. Posters will be presented during the lunch time poster session on November 25, 2011.

For more information, please contact Amy Lem at [alem@uhnres.utoronto.ca](mailto:alem@uhnres.utoronto.ca) or tel: 416-603-5085.

\* Wheelchair accessible

## POSITIONS AVAILABLE

### CANADA



**Postdoctoral training position available for research in the cellular and molecular biology of sensory receptor cells.** Candidates should have prior experience in functional imaging at the cellular level (e.g., Fura2 imaging) or electrophysiological recording, and publications/presentations vouching for this experience. The project will involve sophisticated new imaging methodologies that combine confocal Ca

imaging with electrophysiology to study fundamental mechanisms in chemoreception. **Please contact Dr. Stephen Roper, Professor of Physiology & Biophysics, [sroper@med.miami.edu](mailto:sroper@med.miami.edu)** for further details.



Centre  
for Stroke  
Recovery

### Research Scientist in Stroke Rehabilitation

The Heart and Stroke Foundation Centre for Stroke Recovery (CSR) is made up of some of Canada's foremost healthcare centres: Sunnybrook Health Sciences Centre, Baycrest (including the Rotman Research Institute and the Kunin-Lunenfeld Applied Research Unit), the University of Ottawa (uOttawa) and the Ottawa Hospital Research Institute (OHRI). The CSR was formed to allow experts in stroke, working in different locations, to share knowledge and collaborate on research initiatives. Leading the CSR is Scientific Director and CEO Dr. Dale Corbett. The CSR's goal is to become the world's preeminent research centre focused exclusively on exponential advances in stroke recovery.

At the Sunnybrook Health Sciences Centre site of the Heart and Stroke Foundation Centre for Stroke Recovery (CSR), led by Site Director Dr. Sandra Black and Associate Site Director Dr. William McIlroy, we are currently seeking a Research Scientist position in Stroke Rehabilitation, with specific interest in neuroimaging analysis - techniques for structural or functional MRI and in developing and evaluating neurorehabilitation interventions. The successful candidate will engage in a research program focused on basic and/or applied research to advance the development and evaluation of imaging, cognitive and/or physical rehabilitation techniques applied to overt stroke and covert cerebrovascular disease. The successful applicant will provide a linkage between applied and basic research by developing collaborations with Clinical Scientists and Neuroscientists at Sunnybrook Health Sciences Centre, and with CSR scientists at Baycrest and the University of Ottawa/Ottawa Health Research Institute.

**More information about the Heart and Stroke Foundation Centre for Stroke Recovery can be found at [www.heartandstroke-centrestrokerecovery.ca](http://www.heartandstroke-centrestrokerecovery.ca)**



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## INTERNATIONAL POSITIONS



### Department of Neurosciences

#### Tenure Track Faculty Position

The Department of Neurosciences invites applications for a tenure-track faculty position at the Assistant Professor level. Neuroscientists with primary research interests that build upon department strengths in molecular and cellular aspects of mammalian neurodevelopmental, neurodegenerative and psychiatric disorders; Experience or interest in participating in graduate and medical school teaching programs. For more details on current research activities in the Department of Neurosciences see <http://hsc.unm.edu/som/neurosciences/>.

Opportunities exist for collaborations with faculty in other basic science and clinical departments in the Health Sciences Center <http://hsc.unm.edu/som/departments.shtml> the Department of Psychology, the MIND Research Network, and Sandia and Los Alamos National Laboratories. The position includes a competitive state-funded salary, research start-up funds and research facilities. For best consideration, applications must be received by November 18, 2011; however, position will remain open until filled. UNM's confidentiality policy ("Disclosure of Information about Candidates for Employment," UNM Board of Regents' Policy Manual 6.7), which includes information about public disclosure of documents submitted by applicants, is located at <http://www.unm.edu/~brpm/r67.htm>. The University of New Mexico is an Equal Opportunity/Affirmative Action employer and educator.

**Minimum Requirements:** Applicants must have a Ph.D. or M.D. degree, or the equivalent, with postdoctoral experience

#### Preferences:

Applicants with an independent research program, or strong potential for obtaining extramural funding, as evidenced by high quality publications

**For best consideration:** applications must be received by **November 18, 2011**; however, position will remain open until filled

For complete details of this position and to apply, access Faculty Postings at: <http://unmjobs.unm.edu/> Reference Posting # 0811895

**The Search Coordinator: Department of Neurosciences**

MSC 08 4740, 1 University of New Mexico  
Albuquerque, New Mexico 87131-0001

Email:  
[jacastro@salud.unm.edu](mailto:jacastro@salud.unm.edu)  
Phone: (505)272-4413

**CENTER FOR MANAGEMENT OF COMPLEX CHRONIC CARE (CMC3)** and the **Spinal Cord Injury Quality Enhancement Research Initiative (SCI QUERI)** have an opening for an Implementation Scientist. This full time position is based at the centers within the Hines VA Hospital, located in the western suburbs of Chicago.

The position involves working with investigators and clinicians locally and across the country to develop and study implementation strategies to facilitate the uptake and use of evidence-based findings and innovations into health care practice. The Implementation Scientist will have a significant role in the development and execution of projects, as well as serving as the implementation expert for other projects.

There is also an opportunity to secure an academic appointment in the newly created Program in Health Services Research at our affiliated medical center, Loyola University, Stritch School of Medicine or at one of our other affiliated universities (i.e., Northwestern University; University of Illinois, Chicago).

This position is being advertised through the USA jobs web site: [www.usajobs.gov](http://www.usajobs.gov) with the position number: 534833. If you have questions, please email: [frances.weaver@va.gov](mailto:frances.weaver@va.gov).

## FUNDING OPPORTUNITIES

**FOX FOUNDATION FOR PARKINSON'S RESEARCH, MICHAEL J. – Call for Submissions:**

Biomarker Development

LRRK2 Challenge

Dyskinesia Challenge - Identification and Testing of Novel Targets

**Deadline for Submissions: Continuous**

[http://www.michaeljfox.org/research\\_openFundingPrograms\\_program.cfm?ID=7](http://www.michaeljfox.org/research_openFundingPrograms_program.cfm?ID=7)

**CIHR FUNDING OPPORTUNITIES – various**

[http://www.researchnet-](http://www.researchnet-recherchenet.ca/rnr16/search.do?fodAgency=CIHR&fodLanguage=E&all=1&search=tru)

[recherchenet.ca/rnr16/search.do?fodAgency=CIHR&fodLanguage=E&all=1&search=tru](http://www.researchnet-recherchenet.ca/rnr16/search.do?fodAgency=CIHR&fodLanguage=E&all=1&search=tru)