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# UNIVERSITY OF TORONTO NEUROSCIENCE PROGRAM NEUROSCIENCE NEWSLETTER

## PROGRAM NEWS

### DISTINGUISHED LECTURESHIP SERIES

Time/Date | 2:00pm Thurs. Feb. 3, 2011

Topic | **Neuro-genetics of Amusia**

Location | Medical Sciences Building, Room 3153, University of Toronto

Videoconferencing | UTM DV3131 | UTSc MW229

Speaker | **DR. ISABELLE PERETZ** Département de psychologie, Université de Montréal

Host | Dr. Milton Charlton



Time/Date | 1:00pm Thurs. Feb. 24, 2011

Topic | **Endocannabinoid-mediated plasticity: novel mechanisms and synaptic rules**

Location | Medical Sciences Building, Room 3153, University of Toronto

Speaker | **DR. PABLO CASTILLO** Albert Einstein College of Medicine

Host | Dr. Melanie Woodin



Date | 4:00pm Thurs. Mar. 10, 2011

Topic | **Nanoparticles, nanodomains and efficient synaptic strategies**

Location | Medical Science Building, Rm 3154, University of Toronto

Speaker | **DR. RICHARD TSIEN** Stanford

Host | Dr. Lu-Yang Wang



Date | 4:00pm Thurs. Mar. 31, 2011

Topic | **The Malleable Engram: Enhancing and Erasing Long-term Memory in Cortex**

Location | Medical Sciences Building, Room 3154, University of Toronto

Speaker | **DR. YADIN DUDAI** Weizmann Institute of Science

Host | Dr. Sheena Josselyn



### Upcoming Speakers for 2010-11

**Dr. Bruce Dobkin | UCLA**

June 8, 2011

*CPIN Students must attend 75% of the Lectureship Series each year*

### NEUROSCIENCE DEGREE SURVEY

Neuroscience has emerged as a distinct area of knowledge. This is reflected by the offering of graduate degrees in Neuroscience by many universities (e.g. University of Western Ontario, Harvard and many others). At the recommendation of the Advisory Council of the University of Toronto Neuroscience Program, we have begun examining the potential offering of a graduate degree specifically in Neuroscience at the University of Toronto. On January 7, 2011 a meeting was held with representatives of the departments participating in the Collaborative Program in Neuroscience seeking opinions on how the neuroscience degree might be best structured within the current organization of graduate offerings at the University of Toronto. From this meeting it was clear that there is not enough data around this issue and feedback from trainees and faculty is needed to inform the discussion.

To this end, a brief electronic survey will be sent out by email to all UTNP faculty members, CPIN students and affiliated postdocs.

Complete the survey here | <http://bit.ly/ut-ns-survey>

We hope you will take the time to complete the survey as your opinions are very important to how this matter develops.

### *In this Issue/ February 2011*

<b>Distinguished Lectureship Series</b> .....	<b>1</b>
<b>Neuroscience Degree Survey</b> .....	<b>1</b>
<b>New CPIN Students</b> .....	<b>2</b>
<b>New Faculty Members</b> .....	<b>2</b>
<b>Neuroscience News</b> .....	<b>2</b>
<b>Publications &amp; Awards</b> .....	<b>3</b>
<b>Trainee Funding</b> .....	<b>3</b>
<b>Upcoming Seminars &amp; Lectures</b> .....	<b>4</b>
<b>Upcoming Meetings</b> .....	<b>8</b>
<b>Positions available</b> .....	<b>9</b>
<b>Funding announcements</b> .....	<b>11</b>
<b>Submission Information</b> .....	<b>11</b>

**University of Toronto Neuroscience Program Newsletter**  
February 2011 | Volume 27 | Number 6



Director UTNP |  
Michael G. Fehlings MD PhD



Director CPIN |  
David R. Hampson PhD

Planning & Operations | Alexander A. Velumian PhD, DSc  
Program Coordinator | Frazer Howard  
UTNP Administrative Office | MP 11-315, Toronto Western Hospital  
Collaborative Program in Neuroscience | Room 904, Leslie Dan  
Faculty of Pharmacy, University of Toronto  
Email | [p.neuroscience@utoronto.ca](mailto:p.neuroscience@utoronto.ca)  
Phone | 416 978 8761 Fax | 416 978 8511  
Website | [www.neuroscience.utoronto.ca](http://www.neuroscience.utoronto.ca)

### NEW CPIN STUDENTS

We would like to welcome the following students to the Collaborative Program in Neuroscience

Student Name	Deg.	Dept	Supervisor
John Zawadzki	MSc	IMS	Albert Wong

### NEW FACULTY MEMBERS

We would like to welcome the following faculty who have recently joined the UTNP

Name	Department	Location
Jonathan Downar MD PhD	Psychiatry	UHN TWH
Amy Ramsey PhD	Pharmacology	MSB

### NOTICE TO GRADUATING STUDENTS

Please notify the CPIN office upon your graduation to ensure that you will receive the notation "completed Collaborative Program in Neuroscience" on your degree transcript as well as a separate certificate suitable for framing from the CPIN office to indicate that you have completed the program's requirements. **CPIN students must complete all the Collaborative Program requirements to receive the notation.** Please inform the office of your mailing address and thesis title. If you have transferred from a Master's degree to a PhD, please notify the CPIN office.

### NEW LECTURE SELECTION COMMITTEE MEMBER

We are pleased to announce that Dr. Lu-Yang Wang (Physiology, SickKids) has joined the UTNP Distinguished Lecture Selection Committee.

### MOLLY SHOICHET NAMED TO THE ORDER OF ONTARIO

Professor Molly Shoichet of chemical engineering and applied chemistry, chemistry and biomaterials and biomedical engineering, a world-renowned scientific researcher in regenerative medicine, is among the 30 distinguished individuals appointed to the Order of Ontario .  
More | <http://bit.ly/shoichet-oo>

### FOUR UTNP MEMBERS AMONG 32 UT CFI GRANT RECIPIENTS

Four UTNP members were among thirty-two U of T researchers awarded \$6.4 million from the Canada Foundation for Innovation (CFI) for projects ranging from drug discovery to the physiology of trees. The winners were announced January 21, 2011 in Guelph

- **Gabrielle Boulianne** of physiology, molecular genetics and The Hospital for Sick Children: \$268,605 for infrastructure to study synaptic plasticity and behavior in *Drosophila*;
  - **Rod Bremner** of laboratory medicine and pathobiology, ophthalmology and vision sciences and the University Health Network: \$210,492 for dissecting networks that regulate cancer initiation and progression;
  - **Fang Liu** of psychiatry and the Centre for Addiction and Mental Health: \$258,111 for targeting receptor-receptor interaction for development of novel therapeutics to treat neuropsychiatric diseases;
  - **Kaori Takehara-Nishiuchi** of psychology: \$200,000 for network organizations underlying long-term memory
- The CFI, an independent corporation created by the Government of Canada to fund research infrastructure, recently announced a total of \$61,291,274 in new funds to support 246 projects at 48 institutions across Canada. U of T won \$6,447,388 for 32 projects across all disciplines.  
More | <http://bit.ly/ut-cfi>

### UT SCARBOROUGH HIRES CAMH PSYCHOLOGIST

Dr. Michael Bagby, director of clinical research and senior scientist at the Centre for Addiction and Mental Health, will join the faculty at U of T Scarborough and put his energies towards establishing a doctoral program in clinical psychology  
More | <http://bit.ly/CAMH-UTSC>

### MERGING PSYCHOLOGY AND ART

UTNP faculty member John Kennedy's (Psychology) research into the ability for the blind to incorporate perspective into their artwork has manifested itself in his collaboration with Turkish artist Esref Armagan.  
More | <http://bit.ly/psych-art>

## REMEMBERING ERNEST MCCULLOCH

University Professor Emeritus Ernest McCulloch, one of the fathers of stem cell research, died last week at the age of 89. More | <http://bit.ly/mcculloch>

## UTNP FACULTY HONOURED BY AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

UTNP Members Freda Miller (Molecular Genetics, Physiology, IMS) and Molly Shoichet (Chemistry, IBBME, IMS) were part of a group of nine University of Toronto researchers among 503 to be elected Fellows of the American Association for the Advancement of Science (AAAS), the world's largest science society and publisher of the prestigious journal, Science. More | <http://bit.ly/ut-aas>

## SWITCH OFF ENZYME TO CONTROL CHRONIC PAIN, SAY U OF T RESEARCHERS

A team of researchers at the University of Toronto has developed a new drug targeted at parts of the brain and spinal cord associated with pain perception, which may more effectively control chronic pain caused by nerve injuries. In a paper published Jan. 12 in the journal Science Translational Medicine, a team led by UTNP member Professor Min Zhuo of the Department of Physiology and Centre for the Study of Pain, the Canada Research Chair in Pain and Cognition, showed that a new drug called NB001 produced powerful pain-killing effects in mice and in human neuronal cell lines. More | <http://bit.ly/new-drug-zhuo>

## UPDATED RESEARCH ETHICS STANDARD UNVEILED

The tri-council funding agencies have published an updated policy statement, Ethical Conduct for Research Involving Humans, a vital document for all U of T researchers. More | <http://bit.ly/new-ethics-standards>

## "CANADIANS CHANGING THE WORLD:" PROFESSOR CHARLES TATOR

The Globe & Mail has published a special report on Canadians who play a leading role in the world. UTNP faculty member Charles Tator (Dept. of Surgery; UHN) was named for his work with ThinkFirst Canada and revealing the serious, lasting impact of concussions. More | <http://bit.ly/tator-gm>

## PUBLICATIONS AND AWARDS

Ehsani S, Huo H, Salehzadeh A, Pocanschi CL, Watts JC, Wille H, Westaway D, Rogaeva E, St George-Hyslop PH, Schmitt-Ulms G. Family reunion - **The ZIP/prion gene family**. *Prog Neurobiol*. 2010 Dec 14. [Epub ahead of print]

Please send us information regarding recent publications, awards or other achievements from your lab and we will share it with the UT Neuroscience community. Send your notification to the Program office: [p.neuroscience@utoronto.ca](mailto:p.neuroscience@utoronto.ca)

## TRAINEE FUNDING

### New Opportunity for Funding - Grad Students and Post-Docs in Neuroscience

(1) The first deadline for funding from the CIHR Team Research and Training Program in Sleep and Biological Rhythms is February 15<sup>th</sup> 2011 (the next is October 15<sup>th</sup>).

There are funds for at least **5 post-doc awards per year, and 6 graduate awards per year**, each accompanied by an additional **\$3,000 research allowance** and a **\$1,000 travel allowance**.

(2) For FULL application and review details please see the new website at <http://www.utoronto.ca/sleepandrhythms>

(3) Please note:

(i) Any research **teams** engaging in true new collaborative projects incorporating sleep-wake states, sedation and/or biological timing systems into their projects (**in whatever discipline**) are eligible to apply. No boundaries, just new science of high impact.

(ii) The vision of the program is that in 5 years time there will be more faculty and trainees incorporating some component of their research in these important areas, addressing fundamental questions in biology, physiology, medicine and health care.

(iii) If the big picture questions are addressed, this will lead to effective new collaborations, funded projects, major publications and new capacity for research, education and knowledge transfer.

(4) **Details:** The application procedure is straightforward and short, but requires planning. In the first instance it is estimated that three post-doctoral awards will be available in the February competition, and two in the October competition (i.e., a total of 5 post-doc awards per year).

Three graduate student awards will be available in each competition (i.e., a total of 6 graduate awards per year). Each stipend will also be accompanied by an additional \$3,000 research allowance to foster new research in the collaborating laboratories, and a \$1,000 travel allowance from the Program. Trainees have access to world-class infrastructure for molecular, cellular and behavioural analyses in animal models and humans. Supervisor top-up of salary to set levels is expected (all details are on the website).

(5) The website is designed to be fully transparent, with all the details of the objectives of the program, eligibility to apply, application forms, how the applications will be reviewed, the reviewer forms, and how the funds will be distributed.

(6) There are also funds available to support a total of **ten visits** from prominent researchers per year (**\$1,000 per visit**). Please see website for details ('funds' page).

Best regards

Richard L. Horner, PhD  
 Canada Research Chair in Sleep and Respiratory Neurobiology  
 Departments of Medicine and Physiology  
 Director, CIHR Team Research and Training Program in Sleep  
 and Biological Rhythms Toronto  
<http://www.utoronto.ca/sleepandrhythms/>

Please e-mail all queries to **Rhiannon Davies, Program  
 Coordinator** at [sleep.rhythms@utoronto.ca](mailto:sleep.rhythms@utoronto.ca)

### **SUMMER STUDENT RESEARCH AWARDS IN NEUROINFLAMMATION (SSRAN)**

Value - \$5,000

Duration of Award - 3 months (May – August)

Application Deadline - 1st March, 2011

- These awards are meant to stimulate interest and raise awareness in research in neuroinflammation being done at our CIHR Neuroinflammation Training Program in Montreal.
- Our Training Program includes 16 laboratories in 3 Universities in the Montreal area. They include McGill University, Université de Montréal and the Université du Québec (Institut Armand Frappier). Go to the “Faculty” link to see what types of research are being done in the various participating laboratories.
- These awards are also meant to encourage you to undertake graduate studies and pursue a research career in fields related to neuroinflammation.

#### **Eligibility requirements**

To be eligible applicants must:

- be Canadian citizens or permanent residents of Canada from any Canadian Province but studying in a University outside the Montreal area
- be registered (at the time of application), in a bachelor's degree at a Canadian University
- have a cumulative average of at least B+ or 3.5 grade point average
- To hold an award, applicants must:
- have completed all the course requirements of at least the first year of university study (or two academic terms) of a bachelor's degree
- have been registered in the term immediately before holding the award in a bachelor's degree program at an eligible university
- not have started a program of graduate studies
- Applicants are not eligible if they:
- are currently enrolled in an undergraduate professional degree program in the health sciences (e.g., MD, DDS); or
- or hold a M.Sc. or Ph.D. degree

#### **Value of awards**

These awards have a value of \$5,000 for a full 12-week period.

\*No payment will be approved for any vacation leave taken during tenure of the award.

#### **Duration of awards**

The duration of the award is 12 consecutive weeks on a full-time basis during the summer months (between May and August).

#### **How to apply**

An application for a Summer Student Research Awards in Neuroinflammation (SSRAN), which can be found at [www.neuroinflammation.com](http://www.neuroinflammation.com) must be completed and submitted online.

Application deadline - 1st March, 2011

#### **Award decisions**

Applicants will be notified of the award decisions at the end of March 2011.

#### **Travel allowance**

Successful applicants may qualify for a travel allowance based on the economy airfare between Montreal and the Canadian city where you are located. Please note that travel allowances are taxable.

- Travel costs will be paid only if the actual period of tenure is a minimum of 12 weeks.
- Allowance will also include cost of ground transportation to and from your residence and your point of departure (e.g., airport, train station, bus station). Original receipts must be provided to the university.
- Travel claims must be submitted no more than one month after the completion of the SSRAN work term.

## **U OF T NEUROSCIENCE EVENTS AND SEMINARS**

### **KREMBIL NEUROSCIENCE CENTRE GRAND ROUNDS**

Held Thursdays 8:00am-9:00am

Main Auditorium, 2 West Wing, Room 401

Toronto Western Hospital

### **ROTMAN ROUNDS**

Held Mondays at 3:30pm

Three times each month, in the Classrooms ABC, 2nd Floor, Hospital and once each month, in the Loftus Hall, Main Floor, Apotex, Baycrest Centre

### **CENTRE FOR BRAIN AND BEHAVIOUR CROSSTALKS**

Held the last Thursday of every month 4:00pm

DI Multimedia Room (2810J) 2nd Floor Atrium, Diagnostic Imaging, SickKids Hospital

Contact: [laurel.brown@sickkids.ca](mailto:laurel.brown@sickkids.ca)

### **EPILEPSY JOURNAL CLUB**

First Tuesday of every month

Contact Erin Crawford [erin.crawford@sickkids.ca](mailto:erin.crawford@sickkids.ca) for further information

Date | Tuesday February 1, 2011

Time | 12:00pm

Speakers | **DRS. ELYSA WIDJAJA** and **BLATHNAID MCCOY**  
 Location | Room: 4-254Black Wing, Hospital for Sick Children  
 Host | Epilepsy Journal Club

Date | Wednesday February 2, 2011

Time | 12:15pm - 1:30pm

Topic | **Effects of affective dysregulation on autobiographical memory and social cognition in patients with neuropsychiatric illness**

Location | Sidney Smith Hall, Room 3130 (3rd floor), University of Toronto St. George Campus, 100 St. George St.

Speaker | **DR. MARGARET MCKINNON** St. Joseph's Healthcare Hamilton

Host | Ebbinghaus Empire Meetings | Department of Psychology University of Toronto

Date | Thursday February 3, 2011

Time | 8:00 - 9:00am

Topic | **Resident Speakers**

Location | Main Auditorium, 2 West Wing, Room 401, Toronto Western Hospital

Speaker | Neurology **DR. KOOROSH SHIRKOOL**  
 Neurosurgery **DR. ANTHONY LAU**

Host | Krembil Neuroscience Program Grand Rounds

Date | February 3, 2011

Time | 2:00pm

Topic | Neuro-genetics of Amusia

Location | Medical Sciences Building, Room 3153, University of Toronto

Videoconferencing | UTM DV3131 | UTSc MW229

Speaker | **DR. ISABELLE PERETZ** Département de psychologie, Université de Montréal

Host | Dr. Milton Charlton | UTM Distinguished Lectureship Series

Date | Friday February 4, 2011

Time | 11:00am

Topic | **The Therapeutic Potential of Apolipoprotein E for Alzheimer's Disease and Traumatic Brain Injury**

Location | Room PB 850, 144 College Street, Leslie Dan Faculty of Pharmacy, University of Toronto

Speaker | **DR. CHERYL WELLINGTON** Department of Pathology & Laboratory Medicine University of British Columbia

Host | Dr. Carolyn Cummins | Graduate Department of Pharmaceutical Sciences

Date | Friday February 4, 2011

Time | 1:30pm - 2:30pm

Topic | **Linking the Phospholipase D Pathway to Neurodegeneration and Autophagy: Novel Insights from Mouse Genetic Models**

Location | Room 1527, Hill Wing, Hospital for Sick Children  
 Speaker | **DR. GILBERT DI PAOLO** Department of Pathology

and Cell Biology Taub Institute for Research on Alzheimer's Disease and the Aging Brain Columbia University Medical Center

Host | Dr. John Brumell | Program in Cell Biology Seminar Series | Hospital for Sick Children

Date | Friday, February 4, 2011

Topic | **Therapeutic Potential of Stem Cells in CNS Injury & Inflammation**

Location | The Kingsbridge Centre 12750 Jane Street King City, Ontario

Speaker | **DR. EVAN Y. SNYDER**, MD PhD, Sanford-Burnham Medical Research Institute, California

Host | 2011 UofT Neuroinflammation Symposium  
 Website | <http://guest.cvent.com/d/qdqt5n>

Date | Monday February 7, 2011

Time | 3:30pm

Topic | **Working memory updating**

Location | Classrooms ABC, 2nd Floor, Baycrest Hospital and via telecast at Toronto Western Hospital, Room 3McL-405 (3rd floor, McLaughlin wing, Room 405)

Speaker | **DR. YOAV KESSLER** Rotman Research Institute

Host | Rotman Rounds | Rotman Research Institute

Date | Wednesday February 9, 2011

Time | 12:15pm - 1:30pm

Topic | **TBA**

Location | Sidney Smith Hall, Room 3130 (3rd floor), University of Toronto St. George Campus, 100 St. George St.

Speaker | **DR. BRIAN LEVINE** Rotman Research Institute at Baycrest

Host | Ebbinghaus Empire Meetings | Department of Psychology University of Toronto

Date | Wednesday, February 9, 2011

Time | 3:30pm

Topic | **When thoughts become actions: Using fMRI to detect awareness**

Location | Vivian & David Campbell Conference Facility Munk School of Global Affairs 1 Devonshire Place, University of Toronto

Speaker | **DR. ADRIAN OWEN** University of Cambridge

Host | Department of Psychology | Colloquium

*All are welcome Reception to follow For further information, contact: Jennifer Tackett (416) 978-8810; [tackett@psych.utoronto.ca](mailto:tackett@psych.utoronto.ca) or Susanne Ferber (416) 978-1537; [ferber@psych.utoronto.ca](mailto:ferber@psych.utoronto.ca)*

Date | Friday February 11, 2011

Time | 4:00 pm sharp

Topic | **The network organization of recent and remote memory**

Location | Sidney Smith Hall, Room 2105, 100 St. George Street, University of Toronto

Speaker | **DR. PAUL FRANKLAND** Senior Scientist, Hospital for Sick Children Associate Professor, Department of Physiology University of Toronto

Host | Brain and Behaviour Seminar Series | Department of Psychology

*Reception to follow in Psychology Lounge Room 4043, 4th Floor, Sidney Smith Hall All are welcome For further information, contact: John Yeomans 416-978-7618; yeomans@psych.utoronto.ca or David Kupferschmidt 416-287-5612; kupferda@utsc.utoronto.ca*

Date | Wednesday February 16, 2011

Time | 12:15pm - 1:30pm

Topic | **TBA**

Location | Sidney Smith Hall, Room 3130 (3rd floor), University of Toronto St. George Campus, 100 St. George St.

Speaker | **DR. JORDAN POPPENK** Princeton University

Host | Ebbinghaus Empire Meetings | Department of Psychology University of Toronto

Date | Friday February 18, 2011

Time | 1:00pm

Topic | **TBA**

Location | Main Auditorium WW 2-401 Toronto Western Hospital

Speaker | **DR. YSBRAND D. VAN DER WERF** Netherlands Institute for Neuroscience, Royal Netherlands Academy of Arts and Sciences, Depts Anatomy & Neurosciences and Clinical Neurophysiology, VU University Medical Center, Amsterdam, The Netherlands

Host | **DR. MARY PAT MCANDREWS** | Toronto Western Research Institute Visiting Speaker Series

Date | Thursday February 24, 2011

Time | 1:00pm

Topic | **Endocannabinoid-mediated plasticity: novel mechanisms and synaptic rules**

Location | Medical Sciences Building, Room 3153, University of Toronto

Speaker | **DR. PABLO CASTILLO** Albert Einstein College of Medicine

Host | Dr. Melanie Woodin | UTNP Distinguished Lectureship Series

Date | Thursday February 24th, 2011

Time | 4:00pm

Topic | **Synaptic plasticity and metaplasticity in stress circuits**

Location | Medical Sciences Bldg. Room 3153 Faculty of Medicine University of Toronto

Speaker | **DR. JAIDEEP BAINS** Hotchkiss Brain Institute &

Dept. of Physiology and Pharmacology University of Calgary

Host | BRAIN Platform | Physiology Seminar Series

Date | Friday February 25, 2011

Time | 8:30am – 12:30pm (followed by lunch 12:30pm – 1:30 pm)

Topic | **Sensory Systems and Deficits**

Location | Daniels Hollywood Theatre, Room 1246 Black Wing, SickKids

Speakers | **DR. WADE REGEHR**, Professor of Neurobiology, Harvard Medical School | **DR. AGNES WONG**, MD, PhD Scientist, SickKids | **DR. CAROL WESTALL**, Senior Associate Scientist, and Director of the Visual Electrophysiology Unit, SickKids | **DR. KAREN A. GORDON**, Scientist, and Audiologist, SickKids | **DR. DWIGHT BERGLES**, Associate Professor, The Solomon H. Snyder Department of Neuroscience Associate Professor, Department of Otolaryngology-Head and Neck Surgery, and Director, Multiphoton Imaging and Electrophysiology Core, Johns Hopkins University

Host | The Neurosciences & Mental Health Program, Research Institute, The Hospital for Sick Children  
*PLEASE RSVP by February 22nd to nmh.events@sickkids.ca*

Date | Wednesday March 2, 2011

Time | 12:15pm - 1:30pm

Topic | **TBA**

Location | Sidney Smith Hall, Room 3130 (3rd floor), University of Toronto St. George Campus, 100 St. George St.

Speaker | **DR. JESSICA GRAHN** MRC, Cognition and Brain Sciences Unit, Cambridge, UK

Host | Ebbinghaus Empire Meetings | Department of Psychology University of Toronto

Date | Tuesday March 8, 2011

Time | 1:00pm

Topic | **TBA**

Location | Main Auditorium, WW 2-401, TWH

Speaker | **DR. ALAN CROCKARD**

Host | Dr. Michael Fehlings | Toronto Western Research Institute Visiting Speaker Series

Date | Thursday March 10, 2011

Time | 4:00pm

Topic | **Nanoparticles, nanodomains and efficient synaptic strategies**

Location | Medical Science Building, Rm 3154, University of Toronto

Speaker | **DR. RICHARD TSIEN** Stanford

Host | Dr. Lu-Yang Wang | UTNP Distinguished Lectureship Series

Date | Friday March 11, 2011  
 Time | 4:00 pm sharp  
 Topic | **Modelling human motivation and learning in worms**  
 Location | Sidney Smith Hall, Room 2105, 100 St. George Street, University of Toronto  
 Speaker | **DR. DEREK VAN DER KOOY** Department of Molecular Genetics, University of Toronto  
 Host | Brain and Behaviour Seminar Series | Department of Psychology  
*Reception to follow in Psychology Lounge Room 4043, 4th Floor, Sidney Smith Hall All are welcome For further information, contact: John Yeomans 416-978-7618; yeomans@psych.utoronto.ca or David Kupferschmidt 416-287-5612; kupferda@utsc.utoronto.ca*

Date | Wednesday March 9, 2011  
 Time | 12:15pm - 1:30pm  
 Topic | **TBA**  
 Location | Sidney Smith Hall, Room 3130 (3rd floor), University of Toronto St. George Campus, 100 St. George St.  
 Speaker | **DR. MARY PAT MCANDREWS** Neuropsychology Clinic, Toronto Western Hospital  
 Host | Ebbinghaus Empire Meetings | Department of Psychology University of Toronto

Date | Wednesday March 16, 2011  
 Time | 12:15pm - 1:30pm  
 Topic | **TBA**  
 Location | Sidney Smith Hall, Room 3130 (3rd floor), University of Toronto St. George Campus, 100 St. George St.  
 Speaker | **DR. ELIZABETH HAMPSON** Psychology, University of Western Ontario  
 Host | Ebbinghaus Empire Meetings | Department of Psychology University of Toronto

Date | Wednesday March 23, 2011  
 Time | 12:15pm - 1:30pm  
 Topic | **Data Blitz**  
 Location | Sidney Smith Hall, Room 3130 (3rd floor), University of Toronto St. George Campus, 100 St. George St.  
 Host | Ebbinghaus Empire Meetings | Department of Psychology University of Toronto

Date | Wednesday March 30, 2011  
 Time | 12:15pm - 1:30pm  
 Topic | **Rotman Conference**  
 Location | Sidney Smith Hall, Room 3130 (3rd floor), University of Toronto St. George Campus, 100 St. George St.  
 Host | Ebbinghaus Empire Meetings | Department of Psychology University of Toronto

Date | March 31, 2011  
 Time | 4:00pm  
 Topic | **The Malleable Engram: Enhancing and Erasing Long-term Memory in Cortex**  
 Location | Medical Sciences Building, Room 3154, University of Toronto

Speaker | **DR. YADIN DUDAI** Weizmann Institute of Science  
 Host | Dr. Sheena Josselyn | UTRP Distinguished Lectureship Series

Date | Wednesday April 6, 2011  
 Time | 12:15pm - 1:30pm  
 Topic | **Frank Lloyd Wright's Fallingwater: A case study in Inside-the-Box Creativity**  
 Location | Sidney Smith Hall, Room 3130 (3rd floor), University of Toronto St. George Campus, 100 St. George St.  
 Speaker | **DR. ROBERT WEISBERG** Temple University  
 Host | Ebbinghaus Empire Meetings | Department of Psychology University of Toronto

Date | April 29, 2011  
 Time | 1:00pm  
 Topic | **TBA**  
 Location | Main Auditorium WW 2-401 Toronto Western Hospital.  
 Speaker | **DR. STEFAN LOHMANDER** Professor Department of Orthopaedics University Hospital in Lund, Sweden  
 Host | Dr. Aileen Davis | Toronto Western Research Institute Visiting Speaker Series

Date | Friday May 6, 2011  
 Time | 1:00pm  
 Topic | **TBA**  
 Location | Main Auditorium, WW 2-401, TWH  
 Speaker | **DR. VESNA SOSSI** University of British Columbia Department of Physics and Astronomy  
 Host | Dr. Antonio Strafella | Toronto Western Research Institute Visiting Speaker Series

Date | Friday June 3, 2011  
 Time | 1:00pm  
 Topic | **TBA**  
 Location | Main Auditorium, WW 2-401, TWH  
 Speaker | **DR. COLUM D. MACKINNON** Assistant Professor & Associate Chair of Research Department of Physical Therapy and Human Movement Sciences Feinberg School of Medicine Northwestern University Chicago, IL, USA  
 Host | Dr. Robert Chen | Toronto Western Research Institute Visiting Speaker Series

Date | Wednesday June 8, 2011  
 Time | 4:00pm-5:00pm  
 Topic | **TBA**  
 Location | TBA  
 Speaker | **DR. BRUCE DOBKIN** UCLA  
 Host | Dr. Molly Verrier | UTRP Distinguished Lectureship Series | Krembil Neuroscience Program | Graduate Department of Rehabilitation Science

## UPCOMING NEUROSCIENCE MEETINGS

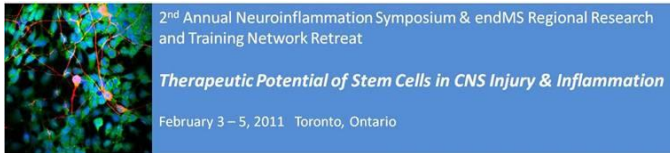
### KEYSTONE SYMPOSIA MEETING ON "ADULT NEUROGENESIS"

Dates | **January 9-14, 2011**

Location | Sagebrush Inn and Conference Center, Taos, New Mexico, USA

Deadlines | Abstract & Scholarship – September 16, 2010 / Late-Breaking Abstract – October 13, 2010 / Early Registration Deadline – November 10, 2010

Website | [www.keystonesymposia.org/11A5](http://www.keystonesymposia.org/11A5)



### 2011 UOFT NEUROINFLAMMATION SYMPOSIUM

Dates | **February 3-5, 2011**

Location | The Kingsbridge Centre King City, Ontario

Keynote Speaker | **DR. EVAN Y. SNYDER**, MD PhD, Sanford-Burnham Medical Research Institute, California

Topic | Therapeutic Potential of Stem Cells in CNS Injury & Inflammation

Website | <http://guest.cvent.com/d/qdqt5n>

### THE 7TH ANNUAL UPDATE SYMPOSIUM SERIES ON CLINICAL NEUROLOGY AND NEUROPHYSIOLOGY 2011

Dates | February 21-22, 2011

Location | Dan Panorama Hotel Tel Aviv, Israel

Website | [www.neurophysiology-symposium.com](http://www.neurophysiology-symposium.com)

### THE 10TH INTERNATIONAL CONFERENCE ON ALZHEIMER'S & PARKINSON'S DISEASES (AD/PD 2011)

Dates | **March 9-13, 2011**

Location | Barcelona, Spain

Theme | Explore New Horizons and Emerging Disease Modifying Therapies

This conference will feature a diverse, multi-disciplinary scientific program covering the most recent research and discoveries in etiology, neurobiology, diagnosis, imaging, treatment and therapy.

### GORDON RESEARCH CONFERENCE ON DENDRITES

Date | March 13-18, 2011

Location | Ventura Beach Marriott, California.

Website | [www.grc.org](http://www.grc.org)

### AGING, OLD AGE, MEMORY, AESTHETICS

Dates | **March 25-27, 2011**

Location | University of Toronto

Website |

<http://sites.google.com/site/agingoldagememoryaesthetics/>

### INAUGURAL CONFERENCE OF THE ROTMAN RESEARCH INSTITUTE AND THE KUNIN-LUNENFELD APPLIED RESEARCH UNIT NEUROSCIENCE OF EMOTION AND EMOTION-RELATED DISORDERS

Date | **March 27-29, 2011**

Location | The Four Seasons Hotel, 21 Avenue Road, Toronto, Canada

Website | [www.rotman-baycrest.on.ca](http://www.rotman-baycrest.on.ca)

Contact | Paula Ferreira 416-785-2500x2363 / [pferreira@baycrest.org](mailto:pferreira@baycrest.org)

### THE 1ST WOMEN'S BRAIN HEALTH SYMPOSIUM

Date | April 6, 2011

Location | The Glenn Gould Studio CBC Building 250 Front Street West Toronto, Ontario, Canada

Flyer | [email.womenofbaycrest.com/event\\_10/index.html](http://email.womenofbaycrest.com/event_10/index.html)

### ISAD 2011 REGIONAL CONFERENCE TORONTO: MOOD DISORDERS - NEUROSCIENCE TO TREATMENT

Dates | **April 8-9, 2011**

Location | Toronto Marriott Downtown Eaton Centre Hotel, 525 Bay Street, Toronto, Ontario M5G 2L2 Canada

Host | International Society for Affective Disorders & Canadian Network for Mood and Anxiety Treatments

Website | [www.isad.org.uk](http://www.isad.org.uk)

### XXVTH INTERNATIONAL SYMPOSIUM ON CEREBRAL BLOOD FLOW, METABOLISM, AND FUNCTION & XTH INTERNATIONAL CONFERENCE ON QUANTIFICATION OF BRAIN FUNCTION WITH PET

Dates | **May 24-28, 2011**

Location | Barcelona, Spain

Website | <http://www2.kenes.com/brain/Pages/Home.aspx>

### INTERNATIONAL NEUROETHICS CONFERENCE BRAIN MATTERS II

Theme | Ethics in the Translation of Neuroscience Research to Psychiatric and Neurological Care

Dates | **May 26-27 2011**

Location | Montréal, Québec, Canada

Call for abstracts forthcoming

Contact | [neuroethics@ircm.qc.ca](mailto:neuroethics@ircm.qc.ca)

### 2011 INTERNATIONAL CONFERENCE ON BRAIN INJURY IN CHILDREN

Topics | Pre-and Peri-natal brain injury, Non-accidental brain injury, Head injury in sport, Management of severe traumatic brain injury, Non-traumatic causes of brain injury, Neurorehabilitation

Dates | **July 12-14, 2011**

Location | Four Seasons Hotel, Toronto

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



## 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)

### POSITIONS AVAILABLE UNIVERSITY OF TORONTO & AFFILIATED INSTITUTIONS

#### STANLEY LAB | TWO POSTDOCTORAL POSITIONS | JUNIOR TECHNICIAN

The laboratory of Elise Stanley seeks two postdoctoral fellows and a junior technician to work on the biology of transmitter release at presynaptic terminals. We are recognized internationally as leaders in the area of presynaptic function and molecular structure with respect to calcium channel gating of transmitter release, a fundamental mechanism important to virtually all brain functions and disorders. The laboratory has achieved a number of exciting firsts including: the first recording of presynaptic calcium currents in a vertebrate; recording single transmitter release site calcium channels; demonstrating that a single calcium channels can trigger synaptic vesicle fusion; biochemical characterization of the 'transmitter release site organelle' etc. (see: J. Neuroscience, Neuron, PNAS, Nature, Nature Neuroscience etc). The successful applicants will:

**PDF 1.** Analyze presynaptic 'nanophysiology' of release and facilitation (CIHR funded project). The PDF will apply patch clamp recording to a novel calyx-type presynaptic terminal combined with laser-based flash photolysis to explore the biology of the presynaptic calcium channel and the role of calcium ions in short-term facilitation. We seek PDF with electrophysiology experience preferably with a neuroscience or cellular physiology background.

**PDF 2.** Explore the structure of the presynaptic release site scaffold (CIHR funded project). The PDF will use biochemical, molecular biological and immunocytochemical methods to analyze the organization of the molecular scaffold that links calcium channels to the secretory vesicle docking and release complex. We seek a PDF with biochemical/molecular biology experience, preferably with a neuroscience or cell biology background.

**Laboratory Assistant** (temporary position with possibilities for conversion). With a strong background in protein molecular biology techniques will work with graduate student and PDF trainees and will make fusion proteins etc to support laboratory projects (this is initially a temporary position but with possibilities for renewal).

Competitive stipends, according to experience.

Please send a letter of interest, a CV and contact information for three references to:

Elise F. Stanley PhD at [estanley@uhnres.utoronto.ca](mailto:estanley@uhnres.utoronto.ca)

#### RESEARCH POSITION - NEUROSCIENCE AND MENTAL HEALTH PROGRAMME, SICKKIDS

A full-time research position at the Neuroscience and Mental Health Programme of the Hospital for Sick Children is offered to work on biophysics projects centred on brain signal analyses, using Matlab software. Our research focuses on the study of brain coordinated activity derived from a variety of recordings (electroencephalography and magnetoencephalography principally). The data analysis uses concepts from the physics and engineering fields, and includes frameworks like phase synchronization. The projects are funded by two operating grants for, at least, the period of January 2011-May 2012, with possibility to be extended (dependent upon obtaining other funds), with the stipend of \$35,000/year. The major requirement is an excellent knowledge of coding in Matlab, mostly as applied to signal analysis, and, while not necessary, some experience or interest in neuroscience and biophysics would be advantageous. The job includes helping members of our team with Matlab codes, data analysis, and contributing with the organisation of experiments that will predominantly involve cognitive tasks performed in our magnetoencephalographic (MEG) recording facility of the Hospital for Sick Children (but no knowledge of MEG is required as technicians in our institute perform the recordings).



Those interested should submit a CV to Jose Luis Perez Velazquez, [jlvp@sickkids.ca](mailto:jlvp@sickkids.ca), or [jose-luis.perez-velazquez@sickkids.ca](mailto:jose-luis.perez-velazquez@sickkids.ca)

#### PROFESSOR (TENURE-STREAM), UNIVERSITY OF TORONTO NEURAL ENGINEERING, REGENERATION and REHABILITATION

The Institute of Biomaterials and Biomedical Engineering and the Department Electrical and Computer Engineering jointly invite applications for a Tenure-track position (all ranks) in one or a combination of the fields of neural engineering, neural-prosthetics or neuro-modulation systems. Of particular interest is research at the interface of these areas and systems biology, with a focus on system and component design, signal processing, sensory-motor integration, neuro-muscular-sensory and cognitive control systems, and/or communications technology.



Applicants are expected to have a Ph.D. or equivalent, a strong background in electrical or biomedical engineering or a closely related field, excellent teaching skills, demonstrated excellence in research and success in collaborative and interdisciplinary research at the interface between engineering and medicine/dentistry. The successful candidate will be expected to initiate and lead an independent research program of international caliber. The successful candidate will also be expected to teach at the undergraduate and post-

graduate level in biomedical, electrical and computer engineering. Collegial interaction will be an important element in success. Salary will be commensurate with qualifications and experience.

Toronto has one of the most concentrated Biomedical Research communities in the world with >5,000 principal investigators affiliated with the University and its hospital network and an ≈ \$800M in annual research investment. The successful applicant will be expected to contribute to collaborative research initiatives with IBBME's affiliated neural research centres at the Toronto Western Hospital and the Toronto Rehabilitation Institute, where Internationally recognized research in the areas of deep brain stimulation, Parkinson's disease, epilepsy, dystonia, spinal cord injury, cognitive disorders, neural regeneration and other neural related challenges are pursued. Exceptional candidates may be nominated for a Canada Research Chair <http://www.chairs-chaires.gc.ca/home-accueil-eng.aspx>

Applicants should send a curriculum vitae and a statement concerning research and teaching interests (three to five pages), and should arrange to have sent directly three letters of reference to:

Professor Willy Wong (c/o Susan Reeves), Chair of the Biomedical Engineering Search Committee at [director.ibbme@utoronto.ca](mailto:director.ibbme@utoronto.ca).

The search will continue until the position is filled. To ensure consideration, interested individuals should deliver their application before February 20, 2011.

Information: <http://www.ece.utoronto.ca> and <http://www.ibbme.utoronto.ca>

#### RESEARCH TECHNICIAN IN SPINAL CORD INJURY RESEARCH

The Fehlings laboratory of spinal cord injury research at Toronto Western Hospital is looking for an experienced technician with experience in cellular electrophysiology/patch clamp, compound action potential recording, fluorescence imaging, immunohistochemical and molecular biology techniques.

Send resume and cover letter to:

Amy Lem

Research Administrative Assistant to

Michael G. Fehlings, MD, PhD, FRCS, FACS  
Professor of Neurosurgery, University of Toronto  
Medical Director, Krembil Neuroscience Program

Toronto Western Hospital, University Health Network

T: 416-603-5085 F: 416-603-5298

E: [alem@uhnres.utoronto.ca](mailto:alem@uhnres.utoronto.ca)

## CANADA

### CHAIR DEPARTMENT OF ANATOMY & CELL BIOLOGY

The Schulich School of Medicine & Dentistry, at The University of Western Ontario, is inviting applications for the position of



Chair in the Department of Anatomy & Cell Biology. Anatomy & Cell Biology is a strong vibrant department with three main areas of strength: Cell Biology, Neurobiology and Clinical Anatomy. Research in Cell Biology focuses on Cancer, Vascular Biology and Stroke, Cell Communication and Cell Signaling. Research in Neurobiology includes Addiction and Reward, Schizophrenia, Spinal Cord Injury and Learning, Memory and Cognition. Clinical Anatomy research is centered on the development and testing of novel tools for the teaching of anatomy, as well as the application of anatomy in clinical settings such as surgery and radiology. The Department has approximately 16 000 sq. ft of renovated laboratory space and access to many core facilities located at the Schulich School of Medicine & Dentistry, and at the Robarts Research Institute. Facilities within the department include confocal microscopy, cell micromanipulation, live cell imaging, whole animal imaging, and animal behavioral equipment. The Department has a strong graduate program consisting of both Research and Clinical Anatomy Streams and an innovative undergraduate Honours program in Medical Cell Biology. In addition, the Department provides teaching to medical, dental, science and health science students through undergraduate programs in the Schulich School of Medicine & Dentistry and the Faculties of Science and Health Sciences.

The successful candidate should have a reputation for effective interpersonal, administrative and leadership skills and have a well-funded, successful research program. The new Chair will be expected to support the research, educational and interdisciplinary initiatives of the Department, to help maintain the positive forward momentum of the Department and to develop new initiatives in research/scholarship. The successful candidate must have a PhD or equivalent, and would receive a tenured academic appointment at the level of associate or full professor, as appropriate to their record of accomplishment in teaching and research. Candidates with a background in the anatomical sciences and a research program complementing existing research strengths are particularly encouraged to apply. However, applications from candidates with outstanding accomplishments in other research areas are also welcome. The position of Chair is for a five year term, renewable.

Details concerning the Department of Anatomy & Cell Biology, the Schulich School of Medicine & Dentistry, and The University of Western Ontario, London, Ontario, may be found at <http://www.uwo.ca/anatomy/>.

Interested candidates should submit a CV outlining their research, teaching, and administrative experience and interests, including future directions, together with the names and addresses of three referees to:

Dr. Michael Strong, Dean  
Schulich School of Medicine & Dentistry  
Room 3701A, Clinical Skills Building  
The University of Western Ontario  
London, Ontario N6A 5C1  
FAX: (519) 850-2357  
The competition will remain open until the position is filled.

## UNITED STATES

### POSTDOCTORAL FELLOW | STANFORD UNIVERSITY SCHOOL OF MEDICINE

A postdoctoral fellow position is available in the Penn laboratory at Stanford University School of Medicine. We seek a highly motivated individual with expertise in developmental neuroscience and mouse embryology to join our team. The lab aims to understand the placenta's hormonal contribution to brain development by developing novel mouse models. An NIH Director's New Innovator Award (<http://nihroadmap.nih.gov/newinnovator/>) will support this postdoctoral research.



The successful candidate will have a PhD and a proven track record of productivity. A candidate must have skills in: transgenic mouse development, embryology and/or neural stem cell biology. Applicants must have the ability to work both independently and as part of a team. Strong communication skills are needed. Appointment is for a one-year term, renewable annually for up to 5 years. Start date for this position is December, 2010 to March, 2011 (negotiable)

.Applicants should submit a statement of research interests and experience, a CV with publications, and contact information for three letters of reference to Anna Penn, MD, PhD. Email: [apenn@stanford.edu](mailto:apenn@stanford.edu)

Web: <http://pennlab.stanford.edu/>



UNIVERSITY OF TORONTO  
FACULTY OF MEDICINE

Neuroscience Program

U T N P



## FUNDING ANNOUNCEMENTS

### [Fox Foundation for Parkinson's Research, Michael J. \(MJFF\)](#) :

Rapid Response Innovation Awards - Edmond J. Safra Core Program for PD Research. To promote testing of novel hypotheses, funding from our Rapid Response Innovation Awards program quickly supports high-risk, high-reward projects with little to no existing preliminary data, but potential to significantly impact our understanding or treatment of PD.

**Deadline for Applications: Continuous.**

### [Cerebral Palsy International Research Foundation \(CPIRF\)](#) :

Research Grant Program. The foundation provides funding for pilot studies on research important to the prevention and treatment of cerebral palsy, including improvement in the quality of life of persons with disabilities due to cerebral palsy and closely related developmental brain disorders. This broad research agenda includes basic, clinical and applied research in the biomedical and bioengineering sciences.

**Deadlines for Submissions: Continuous.**

### [National Multiple Sclerosis Society \(NMSS\)](#) : **Research**

**Grants.** The society welcomes applications for studies related to multiple sclerosis that may serve in any way to advance the society's mission of preventing, treating, and curing MS and improving quality of life. The society supports fundamental as well as applied studies, non-clinical or clinical in nature, including projects in patient management, care and rehabilitation.

**Deadline for Submissions: February 2, 2011.**

## SUBMISSION & CONTACT INFORMATION

Email: [p.neuroscience@utoronto.ca](mailto:p.neuroscience@utoronto.ca) | Fax: 416-978-8511 Attn: UT Neuroscience Program Newsletter | Submissions to the newsletter must be made by the 25th of the preceding month. Previous issues of the newsletter are posted on our website at:

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

If you no longer would like to receive this newsletter, please contact [p.neuroscience@utoronto.ca](mailto:p.neuroscience@utoronto.ca) with subject line "unsubscribe from UTNP Newsletter"