



University of Toronto Neuroscience Program Newsletter
March 2011 | Volume 27 | Number 7

Distinguished Lectureship Series

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



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



Date | April 14, 2011 ~ Held during CPIN Poster Day
Time | 11:30am - 12:30pm
Topic | **When Good RNAs Go Bad - FXTAS as a Paradigm for Neurodegenerative Disorders**
Location | Medical Sciences Building Room 3154 – U of T
Speaker | **DR. PAUL HAGERMAN** - UC at Davis and the Mind Institute
Host | Dr. David Hampson

CPIN POSTER DAY – Thursday, APRIL 14th

Abstracts are due by April 1st – please click here to submit your abstract:
http://neuroscience.utoronto.ca/students/posterday/Neuroscience_Posters_Day_2011_Submission.htm .
We are also still looking for judges: interested faculty and post-docs please email:
p.neuroscience@utoronto.ca

UTNP CAN MEETING BUS SPONSORSHIP

May 29 - June 1, 2011 - Quebec City Convention Centre



UTNP is proud to sponsor a bus to take conference participants to Quebec City. Conference registration to open on March 1st – see web for details.
<http://www.canmeeting.ca/>

UTNP Administration



Michael G. Fehlings - Director, UTNP



David R. Hampson - Director, CPIN Graduate Studies

Planning & Operations |
Alexander A. Velumian PhD, DSc
Interim Program Coordinator |
Maureen Peng

UTNP Administrative Office | MP 11-315,
Toronto Western Hospital
399 Bathurst St.
Toronto, Ontario M5T 2S8

Collaborative Program in Neuroscience |
Room 904, Leslie Dan Faculty of Pharmacy,
144 College Street
Toronto Ontario M5S 3M2
University of Toronto

Email | p.neuroscience@utoronto.ca
Phone | 416 978 8761
Fax | 416 978 8511

Website | www.neuroscience.utoronto.ca

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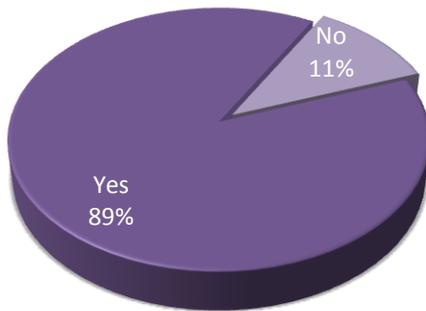


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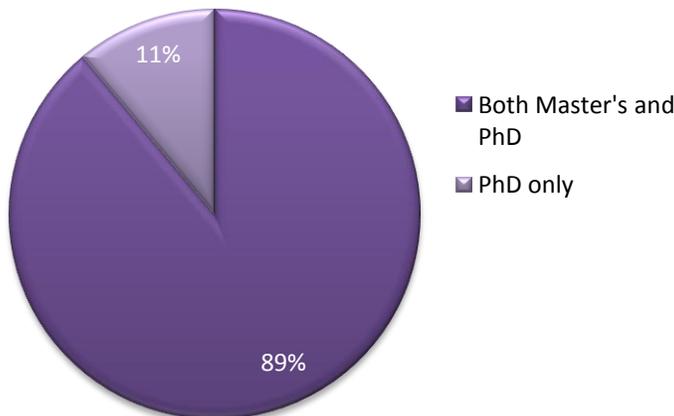
Neuroscience Degree Survey

Thank you for your prompt support in filling out the degree survey. With over 200 respondents, the response was extremely positive towards the development of a Graduate Level Neuroscience Degree at the University. Included in this issue are some key charts. We will be providing updates as we progress in the degree application process in the months to follow.

Do you think the University of Toronto should offer a graduate degree specifically in Neuroscience? (n=214)



If yes to Neuroscience Degree, at what level? (n= 190)



NEW CPIN STUDENTS

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

Student Name	Deg.	Dept	Supervisor
Ziad Butty	MSc	IMS	John G Flanagan

NEW FACULTY MEMBERS

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

Name	Department	Location
Lee Bartel, BA BMus AMus LMus MEd PhD	Music	Faculty of Music, Edward Johnson Building
Bradley Buchsbaum, PhD	Psychology	Baycrest Centre for Geriatric Care
Jeffrey Meyer MD PhD FRCPC	Psychiatry	CAMH

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.



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NEUROSCIENCE NEWS

PHILANTHROPIST DONATES \$12 MILLION TO UNIVERSITY OF TORONTO MISSISSAUGA HEALTH SCIENCES COMPLEX

Philanthropist **Terrence Donnelly** has donated \$12 million to the University of Toronto to support students and help construct a new Health Sciences Complex at U of T Mississauga. The gift is the largest donation ever made to the Mississauga campus.

Donnelly's gift will support the construction of the building that will house the Mississauga Academy of Medicine and support medical students through bursaries and scholarships. The facility will be named the Terrence Donnelly Health Sciences Complex.

More | [Bulletin Article](#)

BRAIN CAN LEARN TO OVERCOME SLEEP APNEA: UNIVERSITY OF TORONTO SCIENTIST

From sound science to sound sleep.

New research from U of T could provide some restful nights for the 18 million North Americans who suffer from obstructive sleep apnea. In a recent study that appeared in the *Journal of Neuroscience*, U of T scientists demonstrated that repeated obstruction of the airways requires release of the brain chemical noradrenaline. The release of this chemical helps the brain learn to breathe more effectively and purposefully.

"What we showed is that repeated disruption of normal lung activity - what happens during sleep apnea - triggers a form of learning that helps you breathe better. This type of brain plasticity could be harnessed to help overcome the breathing insufficiency that typifies sleep apnea" said Professor **John Peever** of cell and systems biology and lead author of the study.

More | [Bulletin Article](#)

U OF T CELEBRATES 50 YEARS OF STEM CELL RESEARCH

Till, McCulloch lauded for work as fathers of stem cell science Fifty years ago today (Feb. 1), two young, unknown scientists at the University of Toronto and the fledgling Ontario Cancer Institute (OCI) published accidental findings that proved the existence of stem cells - cells that can self-renew repeatedly for different uses.

"It's impossible to overstate the enormity of Till's and McCulloch's discovery and long-time collaboration. Their work changed the course of cancer research and lit the way to what we now call regenerative medicine - the use of stem cells for bone marrow transplants and many other types of disease research," said Dr. Christopher Paige, vice-president

(research) at University Health Network, which includes OCI, the research arm of Princess Margaret Hospital.

More | [Bulletin Article](#)

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: p.neuroscience@utoronto.ca

U OF T NEUROSCIENCE EVENTS AND SEMINARS

Date | Wednesday March 2, 2011

Time | 12:15pm - 1:30pm

Topic | THE ROLE OF MOTOR AREAS IN MUSICAL RHYTHM AND BEAT PERCEPTION

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 | Thursday March 3, 2011

Time | 8:00 - 9:00am

Topic | Resident Speakers on Neurology and Neurosurgery

Location | Main Auditorium, 2 West Wing, Rm 401, TWH

Speaker | Neurology: Dr. Joyce Tang | Neurosurgery: Dr. Anthony Lau

Host | Krembil Neuroscience Program Grand Rounds

Date | Monday, March 7, 2011

Time | 5:00 to 6:00pm

Topic | Management of the Rheumatoid Neck: Changes over 30 Years

Location | Main Auditorium, 2 West Wing, Rm 401 at TWH

Speaker | Professor Alan Crockard, Emeritus Professor of Surgical Neurology - Victor Horsley Department of Neurosurgery | The National Hospital for Neurology and Neurosurgery - London, UK

Host | UT Spine Program Grand Rounds Lecture

Date | Friday, March 4, 2011

Time | 2:00 pm

Topic | Mechanisms of Regulation of Ion Channels by Cyclic Nucleotide

Location | Ramsay Wright Building, Room 432 - U of T

Speaker | Professor William Zagotta - Physiology & Biophysics Department, University of Washington



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Host | Prof. Keiko Yoshioka | Cell and Systems Biology
Video Conferencing at UTM (DB A1141d) & UTSc (SY 205)

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 | Thursday March 10, 2011
Time | 4:00pm
Topic | Nanoparticles, nanodomains and efficient synaptic
strategies
Location | Medical Science Building, Rm 3154, U of T
Speaker | Dr. Richard Tsien Stanford
Host | Dr. Lu-Yang Wang | UTNP Distinguished Lectures

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 | March 14th 2011
Time | 7:00 pm
Topic | ACCESS DENIED: MEDICINE, TRUST, AND
EXPERIMENTAL TREATMENTS
Location | NORTHROP FRYE HALL RM 300 - VICTORIA
COLLEGE UNIVERSITY OF TORONTO | Webcast: CCEPA.CA
Speaker | Dr. Jonathan Kimmelman, Associate Professor,
Biomedical Ethics Unit, Social Studies of Medicine, Faculty of
Medicine McGill University
Panelists |Dr. Kerry Bowman, Bioethicist, University of
Toronto and Clinical Ethicist, Mount Sinai Hospital, Toronto |
Dr. Samuel Ludwin, Neuropathologist, Board Member,
Multiple Sclerosis Society of Canada, and Professor Emeritus,
Department of Pathology and Molecular Medicine, Queen's

University | Dr. Anthony Lang, Senior Scientist, Division of
Patient Based Clinical Research, Toronto Western Research
Institute and Jack Clark Chair, University of Toronto Centre
for Research
Host | Science And Its Publics | Situating Science

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 | Thursday March 17, 2011
Time | 4-5 p.m.
Topic | Embracing Nervous System Heterogeneity in Brain
Cancer Research
Location | Auditorium Rm 1246 Black Wing - Hospital for Sick
Children
Speaker | Dr. David H. Gutmann, MD, Ph.D.- Professor,
Department of Neurology, Washington University School of
Medicine St Louis, Missouri
Host | Arthur and Sonia Labatt Brain Tumour Research Centre

Date | Friday, March 18, 2011
Time | 1:30 - 2:30pm
Topic | Using Cancer to Understand Normal Neural Stem Cell
Function
Location | Room 1527, Hill Wing, HSC
Speakers |Dr. David Gutmann - Department of Neurology |
Director, Neurofibromatosis Center, Washington University
School of Medicine
Host | Dr. Ab Guha, PROGRAM IN CELL BIOLOGY SEMINAR
SERIES| THE HOSPITAL FOR SICK CHILDREN

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



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Date | Friday March 25, 2011
Time | 11:00am
Topic | The Development of Inhibitory Deficits in the Fragile X Amygdala
Location | Leslie Dan Faculty of Pharmacy Rm 850, U of T
Speaker | Dr. Rebecca L. Vislay-Meltzer Center for Neuroscience Research Children's National Medical Center
Host | Graduate Department of Pharmaceutical Sciences

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, U of T
Speaker | Dr. Yadin Dudai Weizmann Institute of Science
Host | Dr. Sheena Josselyn | UTPN Distinguished Lectures

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

Thursday April 14, 2011 - CPIN Poster Day

8:45-9:15 | Registration (free); Poster set up
Medical Sciences Building, Stone Lobby
9:15-11:15 | Poster Judging, MedSci Stone Lobby
11:30-12:30 | UTPN Distinguished Lecture
Topic | When Good RNAs Go Bad - FXTAS as a Paradigm for Neurodegenerative Disorders
Location | MedSci 3154 - U of T
Speaker | Dr. Paul Hagerman - UC at Davis and the MIND Institute
Host | Dr. David Hampson | UTPN Distinguished Lectures
12:45-2:00: Pizza Lunch - Poster Viewing, MedSci Stone Lobby

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

UPCOMING NEUROSCIENCE MEETINGS

CONFERENCE | THE 10TH INTERNATIONAL CONFERENCE ON ALZHEIMER'S & PARKINSON'S DISEASES (AD/PD 2011)
Date | March 9-13, 2011
Location | Barcelona, Spain
Theme | Explore New Horizons and Emerging Disease Modifying Therapies
Website | <http://www2.kenes.com/adpd/Pages/Home.aspx>

CONFERENCE | GORDON RESEARCH CONFERENCE ON DENDRITES
Date | March 13-18, 2011
Location | Ventura Beach Marriott, California.
Website | <http://www.grc.org/programs.aspx?year=2011&program=dendrites>

CONFERENCE | AGING, OLD AGE, MEMORY, AESTHETICS
Dates | March 25-27, 2011
Location | University of Toronto
Website | <http://sites.google.com/site/agingoldagememoryaesthetics/>

CONFERENCE | 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
Website | www.rotman-baycrest.on.ca
Contact | Paula Ferreira 416-785-2500x2363 / pferreira@baycrest.org

CONFERENCE | 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 | http://email.womenofbaycrest.com/event_10/index



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**CONFERENCE | 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

**CONFERENCE | THE FIRST MEETING OF THE INTERNATIONAL
SCHOOL OF CLINICAL NEUROANATOMY**

Date | May 25-27, 2011 - Deadline for registration and
abstract submission is 15 April 2011
Location | Palermo, Sicily
Theme | The clinical neuroanatomy of the Frontal Lobes
Topics cover comparative anatomy, cytoarchitectonic maps,
connectional anatomy, executive functions, intra-operative
mapping, consciousness, fronto-temporal dementia, motor
neuron disease, traumatic brain injury, memory and
confabulation, neuropsychological testing, virtual
tractography dissections and epilepsy.
Website | <http://www.isocn.eu>

**CONFERENCE | 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>

**CONFERENCE | 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

5TH ANNUAL CANADIAN NEUROSCIENCE MEETING.

Dates | May 29-June 1, 2011
Location | Québec City Convention Centre
Special Guest Speakers| Bert Sakmann (Max Plank Florida
Institute)|William T. Newsome (Stanford University)|Fred H.
Gage (Salk Institute for Biological Studies)
<http://www.canmeeting.ca/>

CONFERENCE | BRAIN & BEHAVIOUR DAY SYMPOSIUM

Date | June 2nd, 2011 – 8:00am – 4:30pm
Location | Old Mill, Toronto
Theme | Neural Networks of the Brain: Structure, Function
and Dysfunction
Speakers|

1. Olaf Sporns, PhD – Department of Psychological and Brain Sciences, Indiana University Bloomington, Indiana, USA.
 2. Stephen Strother, PhD - Senior Scientist, Rotman Research Institute, Baycrest, Toronto.
 3. Sam Dosburg, PhD – MEG Clinical Associate, Diagnostic Imaging, and Program in Neurosciences & Mental Health, SickKids, Toronto
 4. Vinod Menon, PhD – Department of Psychiatry and Behavioural Sciences, Department of Neurology and Neurological Sciences, Program in Neuroscience, Stanford University Medical School, Stanford, California.
 5. Paul Frankland, PhD – Senior Scientist, Program in Neurosciences & Mental Health, SickKids, Associate Professor, Department of Physiology, University of Toronto, Canada Research Chair - Cognitive Neurobiology.
 6. Steven Laureys MD, PhD - Clinical Professor and Senior Research Associate at the Belgian National Fund of Scientific Research (FNRS), Belgium.
- Website | Centre for Brain and Behaviour - Reg. Opens on April 1st 2011

**CONFERENCE | 2011 INTERNATIONAL CONFERENCE ON
BRAIN INJURY IN CHILDREN**

Dates | July 12-14, 2011
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
Location | The Four Seasons Hotel, 21 Avenue Road, Toronto
Website | www.sickkidsbrainconference.ca

**CONFERENCE | 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

TRAINEE FUNDING

**NEW OPPORTUNITY FOR FUNDING - GRAD STUDENTS AND
POST-DOCS IN NEUROSCIENCE**

(1) The Second deadline for funding from the CIHR Team Research and Training Program in Sleep and Biological Rhythms is October 15th2011. There are funds for at least 5



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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).

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

CALL FOR APPLICATIONS FOR 2011-12 CIHR FELLOWS IN PUBLIC HEALTH POLICY

The CIHR Strategic Training Program in Public Health Policy provides an exciting opportunity for Fellows to become actively involved in the complex tasks demanded by public health policymaking. The primary objectives of the training program are: 1. To build capacity in public health policy research and practice; 2. To provide Fellows and Mentors with an environment and resources that support learning across disciplines and substantive areas; 3. To foster collaborative research among Mentors and with Fellows; and 4. To contribute to more effective public health policy through collaborations with government and voluntary-sector public health policy leaders. Fellows will acquire the necessary knowledge, skills and experience related to public health policy through the following program components: • Fellowships • Required courses in public health policy • Monthly public health policy rounds • Annual training institutes • Training and Research Pods • Executive exchanges and interchanges • Public health policy action teams • Public forums and/or other knowledge exchange activities with the community

Eligibility criteria: • Acceptance in a graduate-level program in a Department, School or Faculty at the University of Toronto, or post doctoral position at the University of Toronto or affiliated research unit/hospital • An existing or proposed training and research focus in public health policy
Annual stipends: • Masters level Fellows: up to \$17,850, renewable for up to one additional year • Doctoral level Fellows: up to \$17,850, renewable for up to three additional years • Post doctoral Fellows: up to \$36,750, renewable for up to one additional year • Fellows already receiving funding from other sources may receive STIHR funding up to \$2000. For additional information about the program and on becoming a CIHR Fellow in Public Health Policy please visit our website at: www.publichealthpolicy.utoronto.ca OR contact us by email at: publichealthpolicy@utoronto.ca

Deadline: Friday April 15, 2011

SGS CONFERENCE GRANT

The SGS Conference Grant is intended to encourage doctoral-stream students to present their research at a regional, national or international conference or equivalent academic event.

The SGS Conference Grant competition will run twice a year.



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The winter 2011 competition is intended to support conferences that will take place prior to October 31, 2011. A second competition will be announced in September 2011 for conferences that take place prior to April 30, 2012.

The value will be based on the event's registration-fee (at the student-rate) as well as a pre-determined amount based on the location of the event. The SGS Conference Grant is not intended to be the principal source of funding. Applicants are expected to seek funding from other sources, and must list other resources that will or may be used to support their conference attendance.

Applicants must be:

- doctoral-stream (M.A, MA.Sc., M.Sc. and PhD (including flexible-time option PhD))
- registered full-time
- in good standing as defined by their graduate unit
- an active participant (e.g. speaker, poster presenter, member of a panel or round table) in a conference (or other academic meeting) relevant to their academic program

Preference will be given to:

- Applicants who have not previously attended a conference in their current program
- Applicants who are in the early stage of their academic program

The Conference Grant application has an online submission tool and is available at

<http://www.sgs.utoronto.ca/informationfor/students/money/support/internal.htm>.

Applicants will be asked for the following information:

- Supervisor/Advisor contact information
- Details of the Conference or academic event (title, location, student registration fee, URL)
- Details regarding the presentation of research (title, etc)
- Previous conferences in which they have presented their research
- Other sources of funding that will support the conference attendance

The deadline for the student portion of the Conference Grant application is March 16, 2011. Once the student deadline passes the Supervisor/ Advisor will be contacted via email and asked to confirm the appropriateness of the conference and the availability of other funding. The Supervisor/ Advisor will have until March 23, 2011 to complete their portion of the application. Students are encouraged to discuss conference attendance with their Supervisor/Advisor prior to

the submission of a Conference Grant application.

Successful applicants will:

- receive an email-notification in mid April 2011 providing them with the details of their grant, including the amount of funding.
- be asked to provide proof of registration and confirmation of attendance and active involvement (e.g. hotel receipt and a conference program that lists their name) in order to retain the grant.
- be asked to complete the Conference Grant Payment Activation Form and submit it electronically to conferencegrant@sgs.utoronto.ca.
- Grants will be distributed through ROSI once all required documentation has been provided.

All applications must be submitted electronically by students by **March 16, 2011**.

Supervisors/Advisors will have until March 23, 2011 to complete their section of the SGS Conference Grant.

For all questions regarding this competition email us at conferencegrant@sgs.utoronto.ca.

For more detailed information on the Conference Grant application visit:

<http://www.sgs.utoronto.ca/informationfor/students/money/support/internal.htm>

POSITIONS AVAILABLE

UNIVERSITY OF TORONTO &
AFFILIATED INSTITUTIONS

ROTMAN RESEARCH INSTITUTE, BAYCREST | POSTDOCTORAL
FELLOWSHIP | COGNITIVE NEUROSCIENCE OF MEMORY



The Rotman Research Institute of Baycrest, affiliated with the University of Toronto is offering a postdoctoral fellowship in cognitive neuroscience of memory in the laboratory of Dr. Bradley Buchsbaum. The post-doctoral fellow will collaborate in CIHR-funded research investigating the neural basis of human memory, especially short-term and episodic memory. Projects will involve the use of fMRI and MEG to study how



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memories are stored and represented in the brain, using both univariate and multivariate “pattern recognition” methods. Candidates should have interest and expertise in some of the following topics:

- Cognitive neuroscience of working memory
- Aging and memory
- Functional neuroimaging (fMRI and MEG)
- Multivariate pattern recognition applied to neuroimaging data

The Rotman Institute is fully equipped for cognitive neuroscience research, with a 3T MRI, 151-channel CTF MEG, several EEG systems. We seek a candidate with a strong background in memory research, good computing skills, and experience with functional neuroimaging.

Toronto is consistently ranked as one of the most livable cities in the world, as well as the most multicultural. It is an excellent place to work for those interested in cross-linguistic research, as native speaker populations can be found for dozens of world languages.

Applicants should have a recent Ph.D. or M.D. degree, and the potential for successfully obtaining external funding. The postdoctoral position carries a term of 2 years and is potentially renewable. Bursaries are in line with the fellowship scales of the Canadian Institutes of Health Research (CIHR) and include an allowance for travel and research expenses. A minimum of 80% of each fellow’s time will be devoted to research and related activities.

Start date is negotiable, but ideally in the spring or summer of 2011. Applicants should submit a C.V. and relevant reprints, together with a cover letter describing current research interests and future research goals, and also arrange to have three letters of reference sent independently to:

Bradley Buchsbaum, Ph.D.
Rotman Research Institute
Baycrest
3560 Bathurst Street
Toronto, Ontario, M6A 2E1, Canada

bbuchsbaum@rotman-baycrest.on.ca

The Rotman Research Institute welcomes applications from all qualified individuals, including members of visible groups, minorities, women, aboriginal persons, and persons with disabilities. All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.

Join a dedicated team of staff and volunteers whose vision is to transform the way people age and to advance quality of life to a new level through the power of research and education, with a focus on brain functioning.

Join Baycrest, one of the few organizations in the world that can say it is Enriching Care; Enhancing Knowledge; Enlightening Minds!

As staff, we all share in maintaining a safe care environment for clients, families, and visitors and a safe work environment for staff, students, researchers, physicians and volunteers.

While Baycrest appreciates all applications to this position, only those candidates that are selected for an interview will be contacted. Thank you!

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.



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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

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, or 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 of 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-chaire.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.

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



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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, FRCSC, 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

CANADA

2011 CANADA COUNCIL FOR THE ARTS - KILLAM RESEARCH FELLOWSHIP

These awards, which are administered by the Canada Council for the Arts, provide support to scholars of exceptional ability who are engaged in research projects of broad significance and widespread interest. The awards honour the memory and exceptional achievements of Mrs. Dorothy J. Killam's husband, Izaak Walton Killam.

The Killam Research Fellowships are awarded annually, on a competitive basis, to support scholars doing research in any of the following fields: humanities, social sciences, natural sciences, health sciences, engineering, or studies linking any of the disciplines within these fields.

Killam Research Fellowships provides two full years of release time from teaching and administrative duties to individual scholars who wish to pursue independent research. They are intended for established scholars who have demonstrated outstanding research ability, have published the results of their research in substantial publications in their field and are expected to continue contributing to the Canadian research community after they have completed their fellowship project. These awards are valued at \$70,000 per year. Fellowship recipients must obtain support for research and laboratory costs from other sources. Applicants who are retired are not eligible.

An information session will be hosted by the Canada Council for the Arts Special Advisor, Dr. Peter Morand at the St. George Campus on Thursday, March 10, 2011, from 10:30 am to 12 noon in the Governing Council Boardroom, Simcoe Hall (2nd Floor) 27 King's College Circle.

This session will cover the Program eligibility, application requirements, historical and statistical information. If you are planning to apply to the Killam Research Fellowship this year, do not miss this opportunity!

Please RSVP by March 8th to Jenny Korolik,
jenny.korolik@utoronto.ca

**Please note that 10 minute breakout sessions will be offered for more specific questions. If interested, please ensure you indicated this when you RSVP.

All applicants MUST submit their Applications electronically (via the Killam website by clicking on "University approval") by May 16, 2011, including a signed RIS Form. **For those who would like an editorial review of their proposal, submit your draft application by Monday, May 2, 2011.

Internal Deadline for Applications: May 9, 2011.

AUTISM SPEAKS IS SEEKING APPLICATIONS FOR POSTDOCTORAL FELLOWSHIPS IN TRANSLATIONAL AUTISM RESEARCH



Autism Speaks' mission is to improve the future for all who struggle with autism spectrum disorders (ASD). In support of that mission we provide funding along the entire research continuum -- from discovery to development to dissemination -- for innovative projects that hold considerable promise for significantly improving the lives of persons with autism.

Today, Autism Speaks is launching a Request for Applications (RFA) to support Postdoctoral Fellowships in Translational Autism Research. The Postdoctoral Fellowship in Translational Autism Research is designed to support promising, well-qualified postdoctoral scientists in their pursuit of research training in translational research. Translational research seeks to accelerate the pace at which basic scientific discoveries are translated into novel and effective ways of diagnosing, preventing, and treating conditions. We seek to encourage new investigators to enter into the field of autism spectrum disorders translational research by providing funding for



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multidisciplinary training. This fellowship will support postdoctoral training in research that seeks to move biological science “from bench to bedside” or from experiments conducted in the laboratory into preclinical or clinical trials to real world settings, including hospitals, clinics, and other community settings, with the goal of improving outcomes for individuals with ASD. Specifically, this fellowship will support research training that involves translation of *biological* discoveries toward novel and more effective methods or strategies for treating or diagnosing ASD.

A key motivation behind this fellowship is to remove barriers and develop better communication and collaboration among basic scientists, applied researchers, and clinicians. To this end, this fellowship requires a multidisciplinary setting and training plan that includes experience in both the laboratory and clinical settings. In addition to providing exceptional research training, the fellowship must include opportunities for two-way communication between basic scientists and clinicians. An example is a training plan that involves research on identifying biomarkers in the lab and observations of people with ASD in a clinical setting. Another example is clinical research involving behavioral studies of persons with ASD combined with training by bench scientists who are studying the neural or genetic basis of ASD. Such training and experiences are designed to ensure that basic science mentors provide insights into mechanisms and research tools that ultimately will be useful in clinical settings while clinicians provide insights into the clinical phenomena and needs of the people being served that might then inform basic questions. Thus, trainees are required to have a primary mentor, the faculty member with whom they directly carry out their research, as well as one or more secondary mentors, who will provide integrated training experiences in different disciplines. Together, the mentoring team should offer opportunities for the fellow to learn about both basic laboratory science and people with ASD seen in clinical practice or clinical research.

Postdoctoral Fellowships in Translational Autism Research may include but are not limited to training in research that focuses on the following:

- Discovery of biomarkers (including genes, peptides, metabolites, etc.) with clear potential for improving screening, diagnosis, or optimizing or predicting response to treatment
- Testing of treatments through novel model systems and bioassays

- Exploring novel clinical applications of small molecules, peptides, proteins, and/or antibodies that hold potential for modifying symptoms of ASD
- Use of induced pluripotent stem cells to advance understanding of biomarkers or response to novel compounds
- Identification of high risk genetic and environmental factors for ASD through evaluation of published research and replication studies, with the aim of devising counseling recommendations for at risk families
- Animal model studies exploring novel treatments
- The development of in vitro model systems for new target identification and validation
- Clinical trials that incorporate a biomarker to stratify, predict, or optimize response to treatment
- Clinical trials that combine biological and behavioral interventions
- Neuroimaging and/or electrophysiology studies to uncover basic brain mechanisms or monitor clinical status including response to treatment

Registration for Postdoctoral Fellowship in Translational Autism Research applications is now open. Letters of Intent are due on March 31, 2011. For more information, please find the RFA [here](#):

http://www.autismspeaks.org/docs/sciencedocs/grants/Translational_Postdoc_2011.pdf .

FUNDING ANNOUNCEMENTS

[Canadian Association for Neuroscience Award](#)

The **CAN Young Investigator Award** recognizes outstanding research achievements by a young neuroscientist at the early stage of his or her career. The award will consist of economy class travel to the CAN annual meeting, accommodation at the conference hotel for three nights, complimentary conference registration and a \$1000 award presented at the CAN annual meeting. Please send nominations by **March 15, 2011** to jacqueline.turmel@cruirg.ulaval.ca.

[IASP[®] COLLABORATIVE RESEARCH GRANTS](#)

IASP brings together scientists, clinicians, health care providers, and policy makers to stimulate and support the study of pain and to translate that knowledge into improved pain relief worldwide. The IASP Collaborative Research Grants (Up to US \$15,000) support international, interdisciplinary collaborations in pain research. The principal investigator in



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charge of the overall project must be a member of IASP of at least one year's standing. Please contact iaspdesk@iasp-pain.org with questions.

Deadline for Applications: March 15, 2011

Autism Speaks : Full- and Pilot-Level Basic & Clinical Grants.

Autism Speaks' mission is to improve the future for all who struggle with autism spectrum disorders (ASD). In support of that mission we provide funding along the entire research continuum -- from discovery to development to dissemination -- for innovative projects that hold considerable promise for significantly improving the lives of persons with autism. Registration is now open.

Deadline for Letters of Intent is March 15, 2011

Human Frontier Science Program (HFSP) Organization

Research Grants - Young Investigators' and Program Grants

The HFSP supports innovative basic research into fundamental biological problems with emphasis placed on novel and interdisciplinary approaches that involve scientific exchanges across national and disciplinary boundaries. Such collaborations have opened up new approaches for understanding the complex structures and regulatory networks that characterize living organisms, their evolution and interactions.

Deadline for Compulsory Pre-registration: March 22, 2011

Deadline for Letters of Intent: March 31, 2011

Royal National Institute for Deaf People (RNID) :

International Research Grants. RNID supports scientific research around the world that aims to improve the lives of people who are deaf or hard of hearing or who have tinnitus.

Deadline for Applications: April 4, 2011

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

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