

# NEUROSCIENCE NEWSLETTER

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## PROGRAM NEWS

Welcome back! We hope you had an enjoyable summer break. We are looking forward to another exceptional year in neuroscience at the University of Toronto. The most exciting change is our move to a new website:

[www.neuroscience.utoronto.ca](http://www.neuroscience.utoronto.ca).

It includes a calendar of upcoming neuroscience seminars, neuroscience-related news from around the University, a list of UTNP faculty, information for students of the Collaborative Program in Neuroscience as well as links to national and international neuroscience groups and institutions. New sections for **Used Equipment** and **Technical Advice** have been added. Please explore these two new features, which can be seen under the "Synapse" button on website.

If you would like to highlight your research, we would gladly include your images and videos on the homepage with links to your lab.

The UTNP Distinguished Lectureship Series will again present a selection of outstanding neuroscience speakers beginning with **Dr. Michael Fanselow** on Wednesday, Sept 9, 2009 12pm in Room 2173, Medical Science Building. The list of upcoming lectures can be found on the UTNP website: <http://neuroscience.utoronto.ca/events/lectureship.htm>

**CONGRATULATIONS TO LOREN MARTIN**, PhD student in

the Collaborative Program in Neuroscience, who was awarded the Graduate Student Travel Award from the Society for Neuroscience Travel. This is a highly competitive international competition as the society has 38,000 scientist and physician members. He will receive the award and present studies related to memory blockade and anesthesia in Chicago, October 2009. His work will also be displayed on the Society for Neuroscience website.

## UTNP RECEPTION AT SFN-2009

We are pleased to announce the University of Toronto Neuroscience Program will again be hosting a reception at the Annual Society for Neuroscience Meeting. All attendees (faculty, students, postdoctoral fellows, technicians, alumni) from UofT and its affiliated organizations are invited.

The reception will be held Sunday October 18, 2009 from 6:30pm – 8:30pm in the Grand Suite 3 of the Hyatt Regency Chicago.

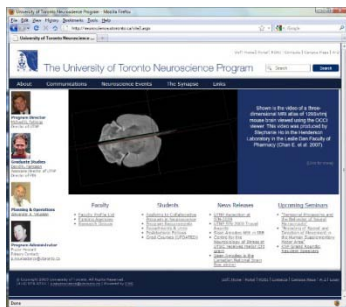
Refreshments and food will be served. We look forward to seeing you there!

For an interactive map of the location please go to: <http://neuroscience.utoronto.ca/events/receptions/sfn09.htm>

## UTNP SFN-2009 TRAVEL AWARDS

The UTNP will be able to support 10 non-faculty attendees presenting at the SFN-2009 in Chicago on October 17-22, 2009 with an amount of \$500 CDN each.

The competition is open to Master's/PhD students enrolled in the Collaborative Graduate Program in Neuroscience and Post-Doctoral Fellows.



To apply, download and complete the form (<http://neuroscience.utoronto.ca/AssetFactory.aspx?vid=802>) and email to [p.neuroscience@utoronto.ca](mailto:p.neuroscience@utoronto.ca) with subject line UTNP SfN-2009 travel award along with required documentation. Deadline for submission: **Sept 18, 2009**. Winners will be notified by Oct 2, 2009, and the official presentation of the awards will be at the UTNP Reception in Chicago on Oct 18.

## UPCOMING UTNP DISTINGUISHED LECTURES

Please check [www.neuroscience.utoronto.ca](http://www.neuroscience.utoronto.ca) for updates.

### "The Dynamic Origin of Memory Systems in the Brain: Insight from Contextual Fear Conditioning"



**MICHAEL FANSELOW**, PhD, Professor, UCLA  
Psychology Department, Brain Research Institute  
Wednesday, Sept 9, 2009 12pm  
Room 2173 Medical Science Building

### "Functional Genomic Approaches to the Study of Sleep"



**ALAN PACK**, MB, ChB, PhD, Center for Sleep and Respiratory Neurobiology, University of Pennsylvania School of Medicine  
Date: Friday Oct 2, 2009 3pm  
Location: Rm 2172, Med Sci Building, University of Toronto

### "Prions: What do we know about the structure of the infectious prion protein?"



**HOLGER WILLE**, PhD, University of California, San Francisco  
Date: Thursday Nov 12, 2009 1pm  
Location: Rm 3154, Med Sci Building, University of Toronto



**ALCINO SILVA**, PhD, UCLA  
Title: TBA  
Date: Tues December 15, 2009 1pm  
Location: Rm 3154, Med Sci Building, University of Toronto

## NEW PIN STUDENTS

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

Student Name	Deg.	Department	Supervisor
Mark Chiew	PhD	Medical Biophysics	Simon Graham
Shery Goril	MSc	Cell & Sys Biology	Colin Shapiro
Jessica Jordao	PhD	LMP	Isabelle Aubert
Yao (Sarah) Lin	MSc	IMS	Margot Taylor
Edith Ng	MSc	Rehab Science	Deirdre Dawson
Kathleen Wonch	MA	Psychology	Alison Fleming

## NOTICE TO GRADUATING STUDENTS

Please notify the CGPIN 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 CGPIN office to indicate that you have completed the program's requirements. Please let the office know the address you wish your certificate sent to and please also send us your thesis title. If you have transferred from a Master's degree to a PhD, please notify the CGPIN office.

## U OF T NEUROSCIENCE EVENTS AND SEMINARS

### "FROM FLIES TO MEMORY ENHANCERS"

Wednesday, September 9, 2009 11am  
Samuel Lunenfeld Research Institute Seminar  
**TIM TULLY**, PhD  
Professor, Cold Spring Harbor, Chief Science Officer, Dart Neuroscience LLC  
Host: Dr. John Roder  
Location: Tanz Neuroscience Building, Imperial Oil Lecture Hall (Room 6)

### KREMBIL NEUROSCIENCE CENTRE GRAND ROUNDS

Held every Thursday 7:30-8:30am  
Main Auditorium, 2 West Wing, Room 401  
Toronto Western Hospital

### ADOLESCENT BRAIN DEVELOPMENT & BEHAVIOUR

A Symposium to Celebrate the 40th Anniversaries of Youthdale Treatment Centres and the Division of Child Psychiatry at the University of Toronto  
Program flyer:  
<http://neuroscience.utoronto.ca/Assets/UTNP+Digital+Assets/abdab.pdf>

### Friday, October 2, 2009

The Grand Hotel & Suites, 225 Jarvis Street, Toronto  
Sponsored by Youthdale Treatment Centres and the Division of Child Psychiatry, Department of Psychiatry, Faculty of Medicine, University of Toronto

For Information:

Office of Continuing Education & Professional Development  
Faculty of Medicine, University of Toronto  
Phone: 416.978.2719/1.888.512.8173  
Fax: 416.946.7028  
Email: [info-psr0972@cmeteronto.ca](mailto:info-psr0972@cmeteronto.ca)  
Website: [www.cme.utoronto.ca](http://www.cme.utoronto.ca)

### EIGHTH ANNUAL CHARLES TATOR - BARBARA TURNBULL LECTURESHIP SERIES IN SPINAL CORD INJURY

The Krembil Neuroscience Centre and the University of Toronto Neuroscience Program are pleased to present the 8th Annual

Charles H. Tator - Barbara Turnbull Lectureship Series in Spinal Cord Injury. This annual presentation features leading researchers in the field of spinal cord injury. We are excited to have **DR. JAMES FAWCETT**, Chairman, Cambridge University Centre for Brain Research as the 2009 Keynote Speaker.

Date: **Friday, October 2, 2009**

Location: Colony Grande Ballroom, 2nd Floor  
89 Chestnut University Of Toronto  
89 Chestnut Street  
Toronto, ON M5G 1R1

Poster Session: 11:00 Am To 1:00 Pm

Lectureship: 1:00 Pm To 5:00 Pm

The Krembil Neuroscience Centre has established prizes for the top two (2) student posters presented at the Charles Tator - Barbara Turnbull Event. Abstracts are being accepted until September 8, 2009. Please see Call for Abstracts for details: <http://neuroscience.utoronto.ca/Assets/UTNP+Digital+Assets/announcements/ttabstracts.pdf>  
For more information, please contact Amy Lem at tel: 416-603-5085 or [amy.lem@uhnresearch.ca](mailto:amy.lem@uhnresearch.ca).

#### THE FRONTAL LOBES

Baycrest - Berkeley present The Frontal Lobes, 20th Annual Rotman Research Institute Conference

**March 22-26, 2010**

Poster submission deadline: **November 16, 2009**

Early-bird registration deadline: **December 15, 2009**

For further information go to <http://www.rotman-baycrest.on.ca/index.php?section=5>

## UPCOMING NEUROSCIENCE MEETINGS

#### EUROPEAN SOCIETY OF MAGNETIC RESONANCE IN NEUROPEDIATRICS (ESMRN)

September 3-5, 2009 in Zurich, Switzerland.

Further information: <http://kongress2.imk.ch/esmrn2009/Home>

#### JOINT MEETING OF THE CANADIAN LEAGUE AGAINST EPILEPSY AND THE CANADIAN EPILEPSY ALLIANCE

October 3-4, 2009

Registration for our 2009 Biennial Canadian Epilepsy Meeting (a joint meeting of the Canadian League Against Epilepsy and the Canadian Epilepsy Alliance) is now open.

Please go to our website to register: [www.clae.org](http://www.clae.org)

Please be careful to register for the scientific program, the gala dinner and the welcoming cocktail if you want to attend all three events.

The updated program can be found at the website.

#### SOCIETY FOR NEUROSCIENCE MEETING 2009

Mark your calendar for Neuroscience 2009, **October 17-21**. View the exciting learning opportunities, professional development, and special events that made Neuroscience 2008 a great success! Don't miss all that Neuroscience 2009 in Chicago, IL has to offer.

Further information can be found on the Neuroscience 2009 website: <http://www.sfn.org/am2009/>

#### THE PROVINCIAL ACQUIRED BRAIN INJURY CONFERENCE - HARNESSING THE POWER AFTER BRAIN INJURY

October 28 – 30, 2009

Sheraton on the Falls Hotel, Niagara Falls, ON

Keynote Speakers:

Dr. Abe Sniderman

Dr. Byran Kolb

Feature Speakers:

Val Loughheed

Greg Goldberg

More information: [www.obia.on.ca](http://www.obia.on.ca)

#### THE NEURO'S 75TH ANNIVERSARY CELEBRATIONS

Registration for The Neuro's 75th Anniversary celebrations is now available online at:

<http://apps.mni.mcgill.ca/MNI75/en/registration.php>

This includes registration for the Pathways of Discovery in Neuroscience Scientific Symposium (**Nov 2 – 3, 2009**) as well as other events and activities – check it out and hope to see you in November!

#### 6TH INTERNATIONAL CONGRESS ON VASCULAR DEMENTIA

The 6th International Congress on Vascular Dementia will be held in Barcelona, Spain from November 19-22, 2009. The Sixth International Congress will once again aim to be a showcase for the discussion of new developments in the area of dementia with special attention to cerebrovascular diseases affecting cognition. The congress will be an opportunity to deliberate on large and small vessel brain diseases and how they contribute to cognitive decline. We shall try to identify specific biological and psychological markers, if any, of vascular dementia, and also the genetic factors involved. The overlap with Alzheimer's disease will be a central issue, as will be the white matter changes frequently seen in dementia.

Further information:

<http://www2.kenes.com/Vascular/Pages/Home.aspx?ref6=db1>

#### WFN 2009 - PARKINSON'S DISEASE CONGRESS

WFN XVIII World Congress on Parkinson's Disease and Related Disorders will be held in Miami Beach, Florida, **December 13-16, 2009**.

Keynote lectures will be delivered by distinguished international faculty, while a large number of selected free communications will report new data from clinical centers and basic research laboratories around the globe.

Further information can be found on the Congress website:

<http://www.kenes.com/parkinson>

#### NETWORKS: A FRAMEWORK FOR CROSS-DISCIPLINARY APPLICATIONS"

The Institute for Biocomputation and Physics of Complex Systems (BIFI) of the University of Zaragoza, Spain, is organizing the Conference "Networks: A Framework for cross-disciplinary

applications" that will take place from February 3 to February 6, 2010. More information can be found at <http://bifi.unizar.es/events/bifi2010/>

Complex Networks have been the subject of intense research during the last decade. After the burst of activity in this field, it has been increasingly recognized that network theory has become an essential ingredient for understanding and modeling the structure and dynamics of complex systems. The application of complex networks concepts and tools has rapidly spread across disciplines as diverse as Epidemiology, Sociology, Neuroscience and Computer Science. The common methodological framework provided by network theory is thus a crossroads in which different scientific perspectives share efforts and gain knowledge to their own applications.

The aim of BIFI2010 is to bring together scientists studying complex systems in Physics, Sociology, Computer Science, Neuroscience and Biology that strongly rely on the use of complex networks for their research. The topics to be covered include, but is not limited to, the following scientific problems:

- Predictive power of Network Theory.
- Complex Networks in Technology, including communication and wireless networks.
- Structure and Dynamics of Biological Networked Systems at all organizational levels (from the genome to ecosystems).
- Social Networks.
- Evolutionary Game and Graphs Dynamics.
- Algorithms in and for Complex Networks.
- Synchronization in Complex Networks, including Brain and neural networks.
- Epidemic Spreading in Heterogeneous Populations.

The Organizing Committee promotes a call for contributions. There will be 9 invited lectures and around 15 to 20 short (25 minutes) oral contributions to be selected among those presented as a poster when they are best suited for a talk. Otherwise, they should be included in the poster session. You can use the online registration form to submit your proposal or send it by email to [bifi.networks@gmail.com](mailto:bifi.networks@gmail.com) no later than November 21, 2009.

*Important : Some grants to help covering subsistence expenses while in the Conference might be available for PhD students or young postdocs. If you are interested in applying please contact the conference's organizers with a brief summary of your research work and a justification of why you need the requested grant.*

#### **THE 10TH INTERNATIONAL CONFERENCE ON ALZHEIMER'S & PARKINSON'S DISEASES**

Barcelona, Spain, March 9-13, 2011

2346 professionals from Western and Eastern Europe, the Far East, Middle East, North and South America, and Australia attended AD/PD 2009 in Prague — the fastest growing Conference on Alzheimer's (AD) and Parkinson's diseases (PD) a premier, landmark biennial conference.

[www.ad-pd.org](http://www.ad-pd.org)

## **FUNDING ANNOUNCEMENTS**

**ALZHEIMER'S DRUG DISCOVERY FOUNDATION (ADDF)** : **Frontotemporal Dementia Drug Discovery Program.** The ADDF and the Association for Frontotemporal Dementias (AFTD) seek to accelerate and support drug discovery for frontotemporal dementia (FTD) and related dementias through this Request for Proposals (RFP). **Deadline for Applications: October 1, 2009.**

**FOUNDATION FIGHTING BLINDNESS (PDF)** : **CIHR – Institutes of Neurosciences (INMHA) and Genetics (IG) in Partnership with the Foundation Fighting Blindness.** Now is the time to start. You have almost three months to assemble a team and submit the LOI. There is a very good chance of success, offering prolonged high-level funding as well as the extra satisfaction and benefits of collaboration with members of your team. Please contact Bill Stell, Director of Scientific Programs (FFB) to discuss your questions and concerns and to help in any way. Email: [dr\\_bill@ffb.ca](mailto:dr_bill@ffb.ca) **Deadline for Letters of Intent: November 2, 2009.**

## **POSITIONS AVAILABLE**

### **UNIVERSITY OF TORONTO**

#### **ASSISTANT PROFESSOR IN NEUROSCIENCE UNIVERSITY OF TORONTO SCARBOROUGH**

The Department of Biological Sciences invites applications for a tenure stream position in Neuroscience. The position is at the rank of Assistant Professor and begins July, 2010. The successful applicant will be expected to establish a strong, externally funded research program and to supervise graduate students. Candidates with demonstrated expertise in cellular and molecular neuroscience are especially encouraged to apply. Preference will be given to candidates whose activities complement the research program of the "Centre for the Neurobiology of Stress," a multi-user facility that has recently received a major infrastructure award from the Canada Foundation for Innovation to upgrade its live-cell and *in vivo* neuro-imaging facility with state-of-the-art multiphoton, confocal endoscope, spinning disk and single-particle tracking microscopes, as well as laser tweezers/scissors micro-manipulation technology and neurophysiology rigs. Applicants should have postdoctoral experience and strong evidence of excellence in research. The successful candidate will have a strong commitment to excellence in teaching at both the undergraduate and graduate level and the ability to contribute to a planned graduate program in Neuroscience. Salary will be commensurate with qualifications and experience. Further information on the research and teaching activities of the department and CNS can be found at <http://www.utoronto.ca/~biosci/index.html>.

Applications must include a CV, statements of research and teaching interests and three representative publications. Applications must be submitted online at <http://www.jobs.utoronto.ca/faculty.htm> (Job # 0900629). Applicants should also arrange that letters of reference from three referees familiar with the candidate's research be sent directly to: Professor Greg Vanlerberghe, Chair, Department of Biological Sciences, University of Toronto Scarborough, 1265 Military Trail, Toronto, ON M1C 1A4, Canada or e-mailed to [biologygeneral@utsc.utoronto.ca](mailto:biologygeneral@utsc.utoronto.ca) All materials must be received by Oct 26<sup>th</sup>, 2009.

*The University of Toronto is strongly committed to diversity within its community and especially welcomes applications from visible minority group members, women, Aboriginal persons, persons with disabilities, members of sexual minority groups, and others who may contribute to the further diversification of ideas. The University is responsive to the needs of dual career couples. The University of Toronto offers the opportunity to conduct research, teach, and live in one of the most diverse cities in the world. All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.*

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#### **TA POSITIONS FOR GRADUATE STUDENTS, HUMAN BIOLOGY PROGRAM**

The Human Biology Program is offering a number of TA positions for Graduate students interested in including teaching as a part of their academic education. TA positions are available in a number of our undergraduate courses. The positions vary and range from 35 hours to 65 hours and the rate of payment is in accordance with the new CUPE 3902 Unit 1 collective agreement. Please see the links below for job position postings information and application form. Please post the job positions on any Graduate bulletin board and/or as an email to your graduate students. If you have any questions please feel free to contact Ron Wilson, Associate Director Human Biology Programs by phone at 416-946-7609 or by e-mail at [human.biology@utoronto.ca](mailto:human.biology@utoronto.ca).  
<http://hmb.utoronto.ca/index.php?q=node/168>

#### **INTERNATIONAL**

#### **ENDOWED PROFESSORSHIP IN NEUROPHYSICS OR BIOPHYSICS**

Department of Physics and Astronomy, Trinity University, San Antonio, TX

Trinity University invites applications for the newly-established Williams Endowed Professorship in Neurophysics or Biophysics, to begin in August 2010. This position, along with 3 recently-filled positions (2 senior and 1 junior) in Biology and Psychology, will enrich our undergraduate major in Neuroscience, which has

grown from 2 to 40 majors since its inception 4 years ago. The Neuroscience Program at Trinity was established with support from the Howard Hughes Medical Institute ([http://www.trinity.edu/org/hhmi/Curriculum\\_Development/neuroscience\\_major.html](http://www.trinity.edu/org/hhmi/Curriculum_Development/neuroscience_major.html)) and is interdepartmental with 6 faculty from Biology, Psychology and Chemistry, and with this position, will now include Physics. It is a vibrant program with research interests ranging from behavioral psychology to reproductive behavior to the neurochemistry of neurodegenerative disease. Candidates must have (1) a Ph.D. in Physics, or Neuroscience with a strong Physics component, (2) a current tenured position at the rank of Associate Professor or higher, and (3) a distinguished record of teaching and research. The successful candidate will teach both physics and interdisciplinary neuroscience courses, strongly contribute to the degree program in Neuroscience, and establish a program of forefront research that can include participation by highly motivated and capable undergraduates. Candidates in experimental, theoretical, or computational research are all encouraged to apply.

The Department of Physics and Astronomy (<http://www.trinity.edu/physics>) has 6 faculty members, and attracts outstanding undergraduates into its program. Active research areas include astrophysics/cosmology, atmospheric physics, dynamics and pattern formation in soft matter and biological systems, nanomaterials/plasmonics, and gravitational-wave detection. The department's majors are among the most talented in the university, and many attend top-ranked graduate schools.

Trinity University (<http://www.trinity.edu>) is an independent, coeducational, selective, primarily undergraduate institution with high quality science, liberal arts, and pre-professional programs. Undergraduate enrollment is about 2500, with students from all areas of the U.S. and many foreign countries. The attractive campus overlooks downtown San Antonio, a large, vibrant city with many cultural opportunities.

Applicants must submit a *curriculum vitae*, and detailed statements of experience and interests in both teaching and research (including a description of opportunities for student research participation), and may submit other materials of their choice. Applicants must also arrange to have at least three letters of reference sent to the Search Committee. In order to receive full, first-review consideration, complete application materials and letters of reference should be received at the following address by December 1, 2009.

Chair of the Search Committee  
Endowed Professorship in Neurophysics or Biophysics  
Department of Physics and Astronomy  
Trinity University, One Trinity Place  
San Antonio, TX 78212-7200



## SUBMISSION & CONTACT INFORMATION

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Fax: 416-978-8511 Attn: Frazer Howard

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"

### UTNP DISTINGUISHED LECTURESHIP SERIES SELECTION COMMITTEE MEMBERS

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D. Brossard / PHYSIOLOGY

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Taufik Valiante / INST. MED. SCIENCE

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