

NEUROSCIENCE NEWSLETTER

PROGRAM NEWS

NEW PIN STUDENTS:

We would like to welcome the following students to the Neuroscience Program:

Student's Name	Degree	Supervisor	Department
Deryk Beal	PhD	Luc De Nil	Sp.-Lang Path
Christie Burton	MA	Paul Fletcher	Psychology
Amanda Chisholm	MSc	William McIlroy	Rehab. Science
Lu Han	MSc	Michael Salter	Physiology
Gregory Hawryluk	MSc	Michael Fehlings	IMS
Hwa-Lin Hsiang	MSc	Sheena Josselyn	IMS
David Kupferschmidt	MA	Suzanne Erb	Psychology
Ronak Patel	MSc	Robin Green	Rehab. Science
James Rowland	MSc	Michael Fehlings	IMS
Melanie Sekeres	MSc	Sheena Josselyn	Physiology
Luka Srejc	MSc	William Hutchison	Physiology
Eric Tsang	PhD	Robert Chen	IMS
Hsin Wang	MSc	Paul Frankland	IMS
Anne Wheeler	MSc	Paul Frankland	IMS

GRADUATING STUDENTS:

We would like to congratulate the following PIN graduates:

Student's Name	Degree	Supervisor	Department
Rick Bagshaw	PhD	Don Mahuran	Lab. Med. Path.
<u>Thesis title:</u> "Lysosomal Membrane Proteomics: Characterizing Novel Proteins and Functions of the Lysosome"			
Diana Frasca	MSc	Robin Green	Rehab. Science
<u>Thesis title:</u> "The Effects of Mentally Effortful Processing on Cognitive Performance in Healthy Elderly People"			
Amanda Kesek	MA	Zelazo/Cunningham	Psychology
<u>Thesis title:</u> "The Development of Evaluative Processing in Children"			

Volume 23 Number 3

November 2006

Program Committee Members

J.O. Dostrovsky / PHYSIOLOGY (Dir.)	J. Peever / CELL AND SYSTEMS BIOLOGY.
W.M. Burnham / PHARMACOLOGY	S. Nag / LAB. MED. PATHOBIOL.
P. Carlen / INST. MED. SCIENCE	J. Roder / MOL. MED. GENETICS
L.F. De Nil / SPEECH LANG. PATHOL.	B.J. Sessle / DENTISTRY
Z. Jia / PHYSIOLOGY	M. Shoichet / INST. BIOMAT. & BIOMED. ENG.
N. Kabani / MEDICAL BIOPHYSICS	W. Trimble / BIOCHEMISTRY
M. Lewis / HUMAN DEVELOPMENT AND APPLIED PSYCHOLOGY	J.W. Wells / PHARMACY
W. McIlroy / REHAB. SCI.	J.S. Yeomans / PSYCHOLOGY

PIN Office: Room 102, Tanz Neuroscience Building, M5S 3H2.

Telephone: 416-978-4894 Fax: 416-978-1878

e-mail: p.neuroscience@utoronto.ca.

<http://www.utoronto.ca/neurosci>

Office Hours: Wednesdays - 1:15pm-5:00pm;

Thursdays - 8:45am-5:00pm; Fridays - 8:45am-5:00pm

Anya McLaren MSc Gregory Hare Physiology
Thesis title: "Increased Expression of Hypoxia Inducible Factor-1 α (HIF-1 α) and Neuronal Nitric Oxide Synthase (nNOS) in the Cerebral Cortex of Anemic Rats"

May Parada MA Ashley Monks Psychology
Thesis title: "Feminine Sexual Behaviour in Female Testicular Feminization Mutation (Tfm) Carrier Sprague-Dawley Rats"

Lily Riggs MA Adam Anderson Psychology
Thesis title: "A direct comparison of memory encoding and retrieval using magnetoencephalography"

Nevena Simic MA Joanne Rovet Psychology
Thesis title: "Thyroid Hormone Deficiency Due to Preterm Birth May Hinder the Development of Colour Vision"

UPCOMING PIN DISTINGUISHED LECTURES

Thursday, December 7, 2006 4pm

JEROME SIEGEL, Department of Psychiatry, University of California at Los Angeles

Title: TBA

Medical Sciences Building, Rm 3153

Wednesday, December 13, 2006 3pm

DAVID SWEATT, Department of Neuroscience, Baylor College of Medicine, Houston, Texas

Title: TBA

Mount Sinai Hospital, 18th Floor Auditorium

Monday, January 22, 2007 4pm

ANDREA VOLTERRA, Director, Département de Biologie Cellulaire et de Morphologie (DBCM), Faculté de Biologie et de Médecine, Université de Lausanne, Switzerland

"Glutamate exocytosis from astrocytes: role in synaptic functions and alterations in brain pathologies"

Pharmacy Building, 144 College St., Rm B250

Friday, March 2, 2007 3pm

GYORGY BUZSAKI, Center for Molecular and Behavioral Neuroscience, Rutgers University

Title: TBA

Pharmacy Building, 144 College St., Rm B250

Wednesday, April 4, 2007 4pm

MICHAEL YOUNG, Harvard Medical School, Boston, MA

Title: TBA

Medical Sciences Building, Rm 3154

PIN POSTER DAY 2007

Poster Day 2007 will be held on **Friday, April 20, 2007**, in the Stone Lobby of the Medical Sciences Building.

PIN FACULTY NEWS

We are pleased to announce that **Dr. Paul Fraser** of the Department of Medical Biophysics and **Dr. Matthias Niemeier** of the Department of Psychology have joined the PIN faculty.

Research in **Dr. Fraser's** laboratory is focused on the biochemistry and cell biology of Alzheimer's disease. Investigations are being conducted to determine the physical organization and the mechanisms by which the amyloid-beta (A β) protein is assembled into amyloid fibrils. This data is being correlated with functional studies to ascertain, for example, to neurotoxicity of the amyloid fibrils to provide a comprehensive analysis of the contribution of amyloid plaques to Alzheimer pathogenesis. Overall these investigations are directed towards the development of new therapeutic strategies to control amyloid deposition. We are also working on the presenilin family of proteins with research aimed at understanding their biochemistry as how this relates to the key pathological features of Alzheimer's disease, plaques and tangles. This involves the examination of amyloid processing as well as the roles of functional ligands. In addition, structural studies of key domains are being pursued to provide a complete analysis of presenilin biochemistry.

Dr. Fraser can be contacted at: Centre for Research in Neurodegenerative Diseases (CRND), Tanz Neuroscience Bldg., University of Toronto, 6 Queen's Park Crescent West, Toronto, Ontario M5S 3H2. Tel 416 978-1871; Fax 416 978-1878; e-mail address: paul.fraser@utoronto.ca

Dr. Niemeier's research concerns the cognitive and neural bases of attention, spatial perception and object recognition. How does the brain use these functions in the context of its sensory inputs and motor outputs? What are the optimization principles that underlie these functions? To answer this question, he is using functional imaging, eye and arm movement recordings and methods of experimental psychology to study normal participants and neurological patients, and testing models of the brain functions in computer simulations.

Dr. Niemeier can be contacted at: Department of Life Sciences, University of Toronto at Scarborough, 1265 Military Trail, Toronto ON, M1C 1A4, Tel: 416-287-7466; Fax: 416-287-7642; e-mail: niemeier@utsc.utoronto.ca.

NOTICE TO GRADUATING STUDENTS

Please notify the PIN 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 PIN 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 Ph.D., please notify the PIN office.

OTHER U of T NEUROSCIENCE NEWS

Tanenbaum symposium

This year's Tanenbaum symposium will focus on cognitive/mental health neuroscience.

The symposium will be held on Friday, November 10, 2006, at the Health Sciences Building, 155 College Street, Rm 610, from 1:30 to 4:00 pm, followed by a reception.

The guest speaker will be Professor Trevor Robbins of Cambridge University. The three Tanenbaum chairs in this focus will also present: Profs. Endel Tulving, Phil Seeman and Terry Picton.

This will also be an occasion to celebrate the beginning of the University of Toronto Centre for Neuroscience.

Please mark this date in your calendar.

OTHER NEUROSCIENCE NEWS

The 3rd Annual Krembil Neuroscience Symposium

"All Things Neuro: Pathways to the Future!"

November 16th & 17th, 2006
Toronto, Canada

The Chestnut Residence
(Formerly the Colony Hotel)

89 Chestnut St.
Toronto, Ontario, Canada

For information on the conference or registration, please contact
Angela Sarro 416-603-5800 ext. 5575 e-mail:
angela.sarro@uhn.on.ca

**Festival of International Conferences on Caregiving, Disability,
Aging and technology (FICCDAT): June 16-19, Toronto**

The Festival of International Conferences on Caregiving, Disability
(including intellectual and developmental disabilities), Aging, and
Technology will take place in Toronto from June 16 to June 19. The
Festival involves 5 concurrent conferences:

- Growing older with a disability
- The 2nd international conference on technology and aging
- Advances in neurorehabilitation
- Caregivers: Essential partners in care
- 30th Canadian Medical and Biological Engineering Conference:
Improving Medical Device Usability.

Check out the FICCDAT website: www.ficcdat.ca

Register early

Consider submitting an abstract to the conference of your choice
(deadline 6 November, 2006)

**IBRO World Congress of Neuroscience
12 - 17 July 2007
Melbourne, Australia**

Abstract and Early Registration Deadline: 31 January 2007
Online abstract and registration pages are now operational.
Further details:
Website: www.ibro2007.org
Email: ibro2007@sallyjayconferences.com.au

2007 Acquired Brain Injury Provincial Conference

The Brain Injury Association of Waterloo Wellington in conjunction
with the Ontario Brain Injury Association is hosting the 2007
Acquired Brain Injury Provincial Conference at the Holiday Inn,
Kitchener, Ontario, on October 25 & 26, 2007. The call for abstracts
can be found at:
www.obia.on.ca/2007conference/2007abiconfabstract.pdf

**New Dual-Degree Program in Neuroscience and Public Policy
University of Wisconsin-Madison**

The University of Wisconsin-Madison has approved the creation of a
new dual-degree program in Neuroscience and Public Policy. Students
who enroll in this program will pursue an integrated course of study
and research leading to a Ph.D. degree in neuroscience from the
Neuroscience Training Program and a Master of Public Affairs degree
from the Robert M. La Follette School of Public Affairs. Graduates
of the program will be trained to do research in neuroscience, to
communicate effectively the results of their research to the public,
and to serve as policy analysts and advisors. The application
deadline for the program is January 1, 2007.

To learn more about the program, please visit the program's website
at: <http://npp.neuroscience.wisc.edu>.

**MBL Biological Discovery in Woods Hole
Neuroscience Summer Courses 2007**

Neurobiology – June 2 – July 29, 2007
Neural Systems & Behavior – June 9 – August 5, 2007
Summer Program in Neuroscience, Ethics, and Survival – June 16-
July 14, 2007
Methods in Computational Neuroscience – July 29-August 26, 2007
Neuroinformatics – August 11 – August 26, 2007
Neural Development & Genetics of Zebrafish – August 9 – August
22, 2007

For application forms and information, contact: Carol Hamel,
Admissions Coordinator; (508) 289-7401; admissions@mbledu.org or
visit the website: <http://www.mbl.edu/education>.

POSITIONS AVAILABLE

CANADA

FACULTY POSITION

Faculty position in Neuroscience

**Department of Physiology
Faculty of medicine
Université de Montréal**

The Department of Physiology at Université de Montréal invites
applications for a faculty position in Cellular and Molecular
Neuroscience. Appointment will be considered for tenure after the
usual probationary period. Applicants must possess a Ph.D. diploma,
with post-doctoral or equivalent research experience and a strong
research potential. Successful applicants are expected to establish an
independent externally funded research program, compete for salary
awards from major funding agencies, supervise graduate students,
teach in undergraduate and graduate programs and fulfill some
administrative duties. The Université de Montréal is a French
language institution and candidates are advised that they will be
expected to participate in teaching in French within three years of
their faculty appointment. Successful candidates will join an active
department with strong research groups in neuroscience,
cardiovascular physiology, membrane proteins and biomedical
engineering. For more information on the department and its
different research groups, please consult the web site:
<http://www.physio.umontreal.ca/>.

Université de Montréal offers a competitive salary and a complete
range of fringe benefits. Applications should include curriculum
vitæ, a statement of past and future research activities, copies of
representative publications, as well as three letters of
recommendation

and should be sent, prior to December 1, 2006, to:

Allan M. Smith, Director
Department of Physiology
Université de Montréal
P.O. Box 6128, Station Centre-ville
Montréal (Québec)
CANADA
H3C 3J7
allan.smith@umontreal.ca <mailto:allan.smith@umontreal.ca>

In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. The University is committed to equal employment opportunity for women.

USA

ASSISTANT PROFESSOR POSITIONS

Neuroscientist - University of Wyoming

The Department of Zoology and Physiology in conjunction with the Graduate Neuroscience Program at the University of Wyoming invites applications for a full-time, nine-month, tenure-track faculty position at the rank of Assistant Professor, starting August 2007. We are seeking an individual who has a strong background in neuroscience with an emphasis in neural plasticity. The successful candidate must have a PhD or equivalent, evidence of research productivity, and teaching ability; a minimum of 2 years post-doctoral experience is preferred. Teaching responsibilities will include a graduate level functional neuroanatomy course. S/he will be expected to have or to develop an externally funded research program and to participate in the Graduate Neuroscience program and the NIH funded Neuroscience Center of Biomedical Research Excellence. The department has access to outstanding microscopy and macromolecular facilities. A competitive start-up package is available. Additional departmental research strengths include animal and cell physiology, ecology, and wildlife biology.

Interested applicants should send a curriculum vitae, a statement of research and teaching experience, three publications that represent their best work, and three letters of recommendation to: Neuroscience Search Committee, Department of Zoology and Physiology, Dept 3166, 1000 E University Avenue, Laramie, WY 82071. Fax 307-766-5625. Website: <http://uwadmnweb.uwyo.edu/Zoology>. Review of applications will begin in December 2006. The University is a Carnegie Foundation Research/Doctoral Extensive Institution, and is an AA/EEO employer.

University of California, Riverside

Synaptic Plasticity/Glial-Neuronal Interactions. The Department of Cell Biology & Neuroscience (<http://cbns.ucr.edu/>) at the University of California, Riverside, is strengthening its faculty in the area of synaptic plasticity/glial-neuronal interactions. Construction of a new laboratory building, the Biological Sciences Building, is now complete (as of June 2006) and will house the new faculty as well as most of

those in the current department. This search seeks applicants at the assistant professor level whose primary research interests are directed towards investigating signaling underlying synapse formation and plasticity. Applicants must hold a Ph.D., and postdoctoral experience is essential for candidates at the assistant level. It is expected that this hire would interact broadly with faculty in our Neuroscience Graduate Program as well as department faculty with interests in other areas of cell biology, and with members of the Center for Glial-Neuronal Interactions at UC Riverside. Additionally, this person could further strengthen our links with the Center for Nanoscale Science and Engineering and the stem cell focus. Opportunities for graduate student training are available through participation in several interdepartmental graduate programs, including the Neuroscience Program (<http://neuro.ucr.edu/>) and the Cellular, Molecular and Developmental Biology Program (<http://www.cell.ucr.edu/>). Other teaching responsibilities would be at the undergraduate level. Send applications, including Curriculum Vita, personal research statement and at least three letters of reference to: Chair, Plasticity Search Committee, Department of Cell Biology & Neuroscience at the University of California, Riverside, CA 92521 USA. Review of applications will begin October 15, 2006 and will continue until the position is filled. The University of California is an equal opportunity/affirmative action employer.

POSITION WANTED

My name is **Pinhui Miao**. I have just graduated from the Faculty of Pharmacy, University of Manitoba with master's degree in August 2006. My research has focused on neurophysiology. Specifically, my research project was to look for the relationship between the pathogenesis of neuropathic pain and peripheral nerve injury. In the past three years, I have been well trained with a variety of neuroscience research principles and techniques, including immunohistochemistry, RT-PCR, Real-time PCR, and clinical research principles. In addition, I used to be a QC document reviewer of Apotex prior to being a master's student. As a result, I am familiar with HPLC and GC data evaluation, as well as GLP and GCP guidelines. Please contact me at miaopinhui@hotmail.com or (416) 953-3181 for further information and resume.