

# 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
Sabrina Agnihotri	MSc	Michelle Keightley	Rehab. Sci.
Nyresa Alves	MSc	Evelyn Lambe	Physiology
Melanie Andre	MSc	Deirdre Dawson	Rehab. Sci.
Zenya Brown	PhD	Suzanne Erb	Psychology
(John) Yue Dong	MSc	James Wells	Pharm. Sci.
Mohamed Elkelini	MSc	Michael Fehlings	IMS
Sarah Figley	MSc	Michael Fehlings	IMS
Kathryn Hum	PhD	Marc Lewis	HDAP
Sarah Johnson	PhD	Suzanne Erb	Psychology
David Kupferschmidt	PhD	Suzanne Erb	Psychology
Alexander Marsolais	MSc	Sheena Josselyn	Physiology
Mutaz Musa	MSc	Ashley Monks	IMS
Jillian Roberts	MSc	Janice Robertson	Lab. Med. Path.
Shira Rosenzweig	PhD	Martin Wojtowicz	Physiology
Kim Saliba	PhD	Rosemary Tannock	HDAP
Wilson Yu	MSc	Peter Carlen	Physiology

### GRADUATING STUDENTS:

We would like to congratulate the following PIN graduates:

Student's Name	Degree	Supervisor	Department
Christie Burton	MA	Paul Fletcher	Psychology
<u>Thesis title:</u> "Methylphenidate and Cocaine Self-Administration During Adolescence Produces Behavioural Cross-Sensitization to the Locomotor Effects of Amphetamine in the Adult Rat"			
Michael Jones	MSc	Mike Tymianski	Physiology
<u>Thesis title:</u> "Association between protein nitration and neuronal death in traumatic brain injury"			

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### Program Committee Members

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

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

Office Hours: Wednesdays - 1:15pm-4:30pm;

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

David Kupferschmidt MA Suzanne Erb Psychology

Thesis title: "The Effects of Repeated Yohimbine on the Extinction and Reinstatement of Cocaine Seeking"

Peggy Law MSc Martin Wojtowicz Physiology

Thesis title: "Caspase inhibitor BAF selectively rescues new neurons in the adult rat hippocampus"

Aeni Lim MSc John MacDonald Physiology

Thesis title: "PDGF receptors target NR2B-containing NMDA receptors in the hippocampus"

Taylor Schmitz MA Anderson/De Rosa Psychology

Thesis title: "Emotional States Differentially Bias Extrastriate Correlates of the Attentional Spotlight"

### UPCOMING PIN DISTINGUISHED LECTURES – FALL 2007

Please check <http://www.utoronto.ca/neurosci> for updates.

Wednesday, December 5, 2007 3:30pm

**MATT WILSON**, Department of Brain and Cognitive Sciences,  
Massachusetts Institute of Technology  
"Memory Reactivation in the Hippocampus during Awake and Sleep states"  
McLennan Physical Labs, 255 Huron Street, Room 102

Thursday, December 6, 2007 4pm

**HERTA FLOR**, Central Institute of Mental Health, Clinical and  
Cognitive Neuroscience, Mannheim, Germany  
Title: TBA  
Medical Sciences Building, Rm 3153

## 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 NEUROSCIENCE NEWS

### Neuroeconomics: Decision Making and the Brain

January 11-13, 2008

Helen and Martin Kimmel Center for University Life, 60 Washington Square South, New York, NY 10012

This three-day conference will be a major international neuroeconomics meeting and will feature leading economists and neuroscientists like Vernon Smith and Wolfram Schultz.

Advanced Registration Required, Space is Limited  
<http://www.cns.nyu.edu/events/symposia/sympo2008.html>

## POSITIONS AVAILABLE

## UNIVERSITY OF TORONTO

### FACULTY POSITION

#### Systems Biology: Neurobiology - University of Toronto

The new Department of Cell and Systems Biology at the University of Toronto invites applications for a tenure track faculty position to be appointed at the Assistant Professor level in the field of Systems Biology - Neurobiology to begin July 1, 2008. We particularly encourage candidates to apply who have demonstrated excellence in addressing fundamental questions in neurobiology using high-

throughput approaches or gene/protein network analyses with bioinformatics, genomic, proteomic, electrophysiological, or imaging tools. Our vision is to advance Systems-wide analyses in Neurobiology which complement existing strengths in the department ([www.csb.utoronto.ca](http://www.csb.utoronto.ca)). Candidates should have at least two years of research experience beyond their doctoral degree. In addition to pursuing a vigorous, internationally recognized research program, the successful candidate will contribute to undergraduate and graduate teaching in the molecular life sciences. She or he would also be expected to network with researchers across campus to take advantage of the extensive resources in Systems Biology at the University of Toronto and its affiliated institutions. A generous start-up package will be provided. Salary commensurate with qualification and experience.

Applicants should arrange to have at least three letters of recommendation sent directly to the address below. In addition, applicants should forward their curriculum vitae, copies of significant publications, and statements of research and teaching interests to the Chair, Systems Biology Search Committee, Department of Cell and Systems Biology, University of Toronto, 25 Harbord Street, Toronto, Ontario M5S 3G5, Canada by January 31, 2008. Inquiries should be directed to Les Buck at [buckl@zoo.utoronto.ca](mailto:buckl@zoo.utoronto.ca). The University of Toronto offers the opportunity to teach, conduct research and live in one of the most diverse cities in the world, and is responsive to the needs of dual career couples. 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. All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.

## CANADA

### POSTDOCTORAL POSITIONS

#### PhD studentships and Post Doctoral Fellows in Respiratory Neuroscience Wilson Laboratory, Faculty of Medicine University of Calgary

Applications are invited for positions in a well-funded, innovative laboratory studying the neuronal control of breathing. We work with fish, frogs, rats, mice and human tissue. Our work spans from genes to systems and includes comparative and translational approaches. We are studying (a) genetic variants associated with Sudden Infant Death syndrome, (b) how respiratory chemoreceptor function and interaction might contribute to respiratory diseases and (c) the mechanism and evolution of respiratory rhythm generation. The laboratory has state-of-the-art equipment and is situated within the HBI, one of North America's leading Neuroscience Institutes, consisting of over 110 faculty members.

Calgary is Canada's fastest growing city with a population of over 1 million. At the foot of the Canadian Rockies, it offers a lively and

safe urban environment with easy access to a pristine wilderness wonderland. Applicants must have excellent communication skills, be highly motivated and have a strong desire to do respiratory neuroscience research. While funding is available, applicants should have an academic record suitable to obtain external funding. Some relocations costs will be provided. To apply, please contact: Dr. Richard J.A. Wilson (E-mail: wilsonr@ucalgary.ca; Tel: (403) 220-6765).

## USA

### FACULTY POSITION

#### **Tenure/Tenure-Track Assistant or Associate Professor The University of Minnesota Medical School – Duluth Campus**

The following position is an excellent opportunity because the successful applicant will have the opportunity to participate in the development of a new Center for Brain Barriers Research. Abundant opportunities for interdisciplinary and collaborative research exist. Access to the technologies and facilities of the entire University of Minnesota (Duluth and Twin Cities campuses) are available.

The University of Minnesota Medical School – Duluth Campus is seeking applications from outstanding physiologists and pharmacologists to fill a position at the Assistant or Associate Professor level in the Department of Physiology and Pharmacology.

The position is a regular, 12 month, tenure/tenure-track appointment to begin as early as the winter 2008. The successful candidate will be expected to establish a productive, externally funded independent research program in integrative systems-based (cardiovascular, respiratory, renal, neuro-) physiology or pharmacology. This person will also be expected to teach physiology and/or pharmacology to medical, pharmacy, graduate and undergraduate students in team-taught courses.

**Qualifications:** Candidates must have a Ph.D., M.D., DVM or equivalent doctoral degree, post-doctoral experience and a publication record supporting a nationally recognized research program or strong evidence of the potential to develop and direct such a program. Evidence of competence in teaching and communication must also be documented.

**Date Applications Accepted:** Review beginning October 2007 and continuing until the position is filled.

**About the Location:** The University of Minnesota Duluth with its 10,000+ students overlooks the western end of Lake Superior. The extraordinary high quality of life is a result of the combination of a dynamic and growing university environment, a vital city with strong support of education and the arts, the magnificent scenery of the area and numerous opportunities to enjoy summer and winter outdoor life and wilderness. (<http://www.visitduluth.com/> and <http://www.d.umn.edu/>)

About the University of Minnesota Medical School – Duluth Campus: The UMMS-Duluth provides two years of basic medical science training for approximately 100 students per year who have special interest in rural family practice careers and choose to begin their training in Duluth. In addition, faculty also participate in undergraduate, graduate and allied health student education. Many faculty are actively involved in research, successfully compete for extramural funding and publish regularly. A congenial academic environment on the Duluth campus promotes significant interdisciplinary activity. Close relationships with faculty in the UM College of Pharmacy Duluth and the UMM-Twin Cities faculty in the Academic Health Center (150 miles to the South) also provides excellent opportunities for research collaborations.

**Application:** Review of applications will continue until suitable candidates are identified. Applications are made online at: <http://employment.umn.edu> (search for Requisition Number 149693). To ensure consideration, a cover letter, curriculum vitae, and a succinct statement of a) research interests and b) teaching interests. In addition, names and complete addresses (including email) of three individuals who will provide letters of recommendation should be included. Completed applications will be evaluated starting October 1, 2007. Top candidates will be invited for a seminar/interview as a component of the selection process. Questions concerning the online application process should go to Carol Peterman (e-mail: [cpeterma@d.umn.edu](mailto:cpeterma@d.umn.edu)) or Susan Kurki (e-mail: [skurki@d.umn.edu](mailto:skurki@d.umn.edu)).

The University of Minnesota is an equal opportunity employer and encourages women and under-represented minorities to apply.

### POSTDOCTORAL POSITION

#### **Postdoctoral Position in fMRI of Emotional Memory Duke University, Durham, NC**

Postdoctoral position available in the laboratory of Roberto Cabeza ([www.cabecalab.org](http://www.cabecalab.org)) at the Center for Cognitive Neuroscience ([www.mind.duke.edu](http://www.mind.duke.edu)). fMRI scanning is conducted at the nearby Brain Imaging and Analysis Center ([www.biac.duke.edu](http://www.biac.duke.edu)).

Research will focus on the neural mechanisms of emotional memory encoding and retrieval. Within this general topic, the postdoctoral researcher will design her/his own studies. The position includes RA support and collaborations with graduate students and faculty at CCN and BIAC.

The desirable candidate will have several of the following qualifications: (1) background in memory and/or emotion research; (2) experience in fMRI methods; (3) programming experience; (4) expertise in statistics; and (5) a promising publication record.

Send a statement of research interests and a CV to [cabecalab@duke.edu](mailto:cabecalab@duke.edu). Please enter "emotional memory postdoc" as the subject of the e-mail.

# OVERSEAS

## OPEN POSITIONS

**LCNlaboratorio de circuitos neuronales  
at the INSTITUTO CAJAL  
[www.hippo-circuitlab.es](http://www.hippo-circuitlab.es)**

Both pre- and post-doctoral positions are available in the field of systems neurobiology. We are interested in how complex spatiotemporal patterns of activity are produced with a special emphasis in the cellular and synaptic rules that govern circuit dynamics. We are also interested in the role of diverse forms of hippocampal activity in the formation of episodic memory in rats and mice.

Several research lines are available using a variety of techniques:

- in vitro electrophysiology (extracellular and patch recordings)
- in vivo anesthetized electrophysiology (multichannel recordings)
- behavioral electrophysiology (EEG, unit recordings)
- imaging (calcium- and voltage-sensitive dye imaging)
- computational analysis and programming
- basic anatomical tools (single-cell morphology, immunohistochemistry)
- behavior and basic electrophysiology (LTP, LTD)

Our research is supported by several grants from national and local funding agencies, the European Commission under FP6 and FP7 and the CSIC.

More information can be found at: [www.hippo-circuitlab.es](http://www.hippo-circuitlab.es). We look for highly motivated candidates, with excellent CVs, strong experimental and/or computational skills. Competencies in critical thinking, reading capacity and team-working are highly valuable.

Selected recent publications:

- Neuron 55: 930-941 (2007)
- Neuron 49:131-142 (2006)
- Journal of Neuroscience 24:5525-5536 (2004)
- Journal of Physiology 549: 219-230 (2003)

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