

Graduate Collaborative Program in Neuroscience

Annual Report 2005-2006

July 1, 2005 to June 30, 2006

This was the 19th year of the Program in Neuroscience. During this period the program continued to grow in size. Dr. Jonathan Dostrovsky remained as director.

There were no changes to the Program Committee this year. The current members of the committee are listed in **Appendix 1**.

During the past academic year 55 new graduate students were accepted into the program and 43 students graduated. This brought the total of students registered in the program to 151 at the end of the year. Further details regarding the students in the program (gender, breakdown by degree and department, and list of students who graduated) are provided in Appendix 2. During this year an additional 8 faculty joined the program bringing the total to 182. A listing of the current faculty members by primary graduate department is provided in Appendix 3. Additional details are available on the program website at: www.utoronto.ca/neurosci.

Distinguished Lecture Series

The program organized 10 lectures in the Program in Neuroscience distinguished lecture series this year and these are listed in **Appendix 4**. Many of these were co-sponsored with member departments and institutes. One of the lectures was funded by the endowed Raymond and Beverly Sackler Distinguished Visiting Neuroscientist fund. All students in the program are required to attend at least 75% of these lectures (attendance is monitored).

PIN/SONA Poster Day 2006

The combined Program in Neuroscience/Southern Ontario Neuroscience Association Poster Day 2006 took place on Friday, May 12, 2006 in the Stone Lobby and Alumni Lounge of the Medical Sciences Building. This was the largest Poster Day yet with 137 posters presented and 285 registrants. Two excellent talks were delivered to a large audience by Drs. Paul Frankland and Min Zhuo.

Forty-five judges (PIN faculty members) participated in the judging of the posters. The 5 winners were: Kristen Fortney, Moran Weinberger, Michele Askew, Evan Propst and Maha Adamo.

Support of the Undergraduate Neuroscience Program.

PIN continued to support the undergraduate neuroscience program as well as the Neuroscience Association of Undergraduate Students (NAUS) by 1) including their web pages and links on our website up to October 2005 when they began their own website, 2) hosting and funding the undergraduate students' posters at our annual poster day, 3) providing modest funding support for the NAUS meeting.

Brain Bee and Brain Awareness Week

Brain Bee 2006

The Collaborative Program in Neuroscience (PIN) hosted the 8th annual neuroscience competition for High School students on Friday afternoon, February 24, 2006. Twenty-three students from 6 different Toronto schools took part in this oral competition modeled after a "spelling bee". After the longest final round in the history of the U of T Brain Bee at a total of 53 rounds of questions, the first place winner was **Jong Park** from the University of Toronto Schools. A close second went to **Tiffany Lee**, also from the University of Toronto Schools, and in third place was **Dmitri Cherniak** from Northern Secondary School.

The winner of our local contest, Jong Park, also won the 8th International Brain Bee (IBB) competition organized by the University of Maryland in Baltimore on March 17 and 18. Jong receives \$3000, an all expense-paid trip for two to Atlanta to attend the 2006 Society for Neuroscience Convention, an individual trophy, a traveling trophy for his high school, and an opportunity to work in the lab of a famous neuroscientist during the summer. In the 8 year history of the IBB, three U of T brain bee winners also won first place in the IBB.

The U of T competition is organized by Professor Jonathan Dostrovsky, Director of PIN, with the help of PIN members Drs. Karen Davis, Eve DeRosa and Mary Pat McAndrews assisted by PIN graduate students and the program administrator. The PIN student presentations organized by Dr. McAndrews were the highlight of the day. The presentations provided the high school students with an excellent overview of the many types of research being done by PIN graduate students. This year, Dr. Michael Wiley gave the students a tour of the Anatomy Museum. We are grateful to the Institute of Neurosciences, Mental Health and Addiction (INMHA / CIHR) for their financial support.

University of Toronto Brain Day 2006

Brain Awareness Week is a worldwide neuroscience outreach program launched in 1996 by the Society for Neuroscience with the goal of elevating students' interest in the human brain and nervous system. This year, Brain Awareness Week (BAW) was proclaimed by the Toronto City Council to occur in the week of March 6-10. During BAW, 53 Neuroscience students from the University of Toronto collaborated with ThinkFirst Canada and brought the message of the importance in brain and spinal cord injury prevention to 30 schools and 1400 kids from grades 4-6 across the GTA through Brain Day 2006.

Brain Day was an event originally hosted by Dr P.A. Stewart from the neuroanatomy department at U of T and planned by students from the Neuroscience Association for Undergraduate Students (NAUS), where a class of elementary school students travels to

the University to learn about neuroscience. Two years ago, with the vision of bringing Brain Day to more kids in the school system, ThinkFirst Canada, lead by Dr. Charles Tator, partnered with NAUS to facilitate more University student involvement and to develop a fun, interactive and educational program suitable for classroom delivery. In preparation for this year's Brain Day, Neuroscience students at U of T assembled a user-friendly instruction booklet and an improved colourful student activity guide. The program consisted of five half-hour interactive modules, including neuroanatomy, smell and taste, vision, hearing and touch, with an injury prevention component for each. During BAW, two University students traveled to each school to deliver the half-day program. ThinkFirst volunteers then delivered an injury prevention presentation to the entire school the week following Brain Day. The program received plenty of media coverage and rave reviews from both the kids and the classroom teachers. Everyone involved is excited about the future of Brain Day and is currently beginning the process of expanding the Brain Day program to more schools and kids in the GTA and across Canada.

Program Funding

The Program was supported during this past year by contributions from the member departments as well as some of the Faculties and University and Hospital based research centres and units listed below. In addition, the annual Raymond and Beverly Sackler Distinguished Visiting Neuroscientist at the University of Toronto lecture was funded by an endowment from Beverly and Raymond Sackler, and the Brain Awareness Week activities sponsored by PIN were supported in part by funds from the Institute of Neurosciences, Mental Health and Addiction (INMHA / CIHR)

University of Toronto Faculties:

Arts and Science
Dentistry
Pharmacy

University Research Centres

Centre for Addiction and Mental Health
University of Toronto Centre for the Study of Pain

Hospital based research units:

Brain and Behaviour Program at the Hospital for Sick Children
Samuel Lunenfeld Research Institute at Mount Sinai Hospital
Wasser Pain Clinic at Mount Sinai Hospital
Toronto Western Research Institute
Krembil Neuroscience Program at Toronto Western Hospital

PIN member Departments

Biochemistry
Dentistry
Human Development and Applied Psychology
Institute of Biomaterials and Biomedical Engineering

Institute of Medical Science
 Laboratory Medicine and Pathobiology
 Medical Biophysics
 Molecular and Medical Genetics
 Pharmaceutical Sciences
 Pharmacology
 Physiology
 Psychology
 Rehabilitation Science
 Speech-Language Pathology
 Zoology

Summary of other services and activities provided by PIN

1. Prepare and distribute monthly calendar of neuroscience seminars at U of T.
2. Prepare and distribute monthly newsletter.
3. Maintain website.
4. Maintain a list of all neuroscience courses and courses with neuroscience content at UofT.
5. Maintain membership in the Association of Neuroscience Departments and Programs.
6. Respond to phone, email and written requests for information about neuroscience at U of T.
7. Provide certificates of completion for graduating students.
8. Advertise jobs and requests for jobs.

Appendix 1: List of committee members

J.O. Dostrovsky, PHYSIOLOGY (Dir.)
 W.M. Burnham, PHARMACOLOGY
 P. Carlen, INST. MED. SCIENCE
 L.F.De Nil, SPEECH LANG. PATHOL.
 M. Fehlings, KREMBIL NEURO. CENTRE, UHN
 Z. Jia, PHYSIOLOGY
 N. Kabani, MED. BIOPHYSICS
 M. Lewis, HUM. DEV. & APP. PSY.
 W. McIlroy, REHAB. SCI.
 S. Nag, LAB. MED. PATHOBIOL.
 J. Peever, ZOOLOGY
 J. Roder, MOL. MED. GENETICS
 B.J. Sessle, DENTISTRY
 M. Shoichet, INST. BIOMAT. & BIOMED. ENG.
 E. Stanley, CELL. & MOL. BIO. DIV., TWRI
 W. Trimble, BIOCHEMISTRY

J.W. Wells, PHARMACY
J.S. Yeomans, PSYCHOLOGY

Appendix 2: Students enrolled in the Program in Neuroscience

1a) Enrolment:

	Applicants	Acceptances	New Enrolment
Master's	28	28	28
Ph.D.	27	27	27
Total	55	55	55

b) Total Enrolment (as of June 30, 2006):

	Part-time	Full-time	Female	Male
Master's	0	57	38	19
Ph.D.	0	94	50	44
Total	0	151	88	63

c) Number of students from each participating department or faculty:

Department or Faculty	Master's	Ph.D.	Total
Biochemistry	0	1	1
Dentistry	1	4	5
Human Development and Applied Psychology	0	2	2
Institute of Biomaterials and Biomedical Engineering	0	1	1
Institute of Medical Science	14	28	42
Laboratory Medicine and Pathobiology	1	7	8
Medical Biophysics	0	0	0
Molecular and Medical Genetics	0	2	2
Pharmaceutical Sciences	1	4	5
Pharmacology	0	9	9
Physiology	26	10	36
Psychology	8	20	28
Rehabilitation Science	4	2	6
Speech-Language Pathology	0	2	2
Zoology	2	2	4

2a) Number of students graduating in 2005-2006:

Master's	Ph.D.	Total
33	10	43

b) Median time to completion (in months):

Master's	Ph.D.
24	64

c) List of Master's and Doctoral Theses of students graduating in 2005-2006:**Master's theses:****Dentistry:**

Student: Yotam Blech-Hermoni
 Supervisor: Ze'ev Seltzer
 Thesis Title: "Studies on a Conserved Genetic Locus For Chronic Pain"

IMS:

Student: Cynthia Aoki
 Supervisor: Richard Horner
 Thesis Title: "Activation of the cAMP-PKA Pathway Modulates Genioglossus Activity and Responses to Excitatory Inputs"

Student: Sivan Bega
 Supervisor: Carol Westall
 Thesis Title: "Is Seizure Onset Related To Visual Deficits Seen In Pediatric Epilepsy Patients Exposed To Vigabatrin And Can A Visual Evoked Potential Be Used To Follow Vigabatrin Therapy In This Group?"

Student: Victor Cheng
 Supervisor: Beverly Orser
 Thesis Title: "Alpha5 subunit-containing GABAA receptors: molecular substrates for anesthetic-induced amnesia"

Student: Rudi Hwang
 Supervisor: James Kennedy
 Thesis Title: "Pharmacogenetic analysis of dopamine receptor gene polymorphisms and clinical response to clozapine in patients with schizophrenia"

Student: Evan Propst
Supervisor: Robert Harrison
Thesis Title: "Auditory Responses in Paediatric Cochlear Implant Users With and Without GJB2 Deafness"

Student: Ruth Sapir-Pichhadze
Supervisor: Carol Westall
Thesis Title: "Motion Visual Evoked Potentials and Vergence in Infantile Esotropia"

Student: Gamal Seif
Supervisor: Charles Tator
Thesis Title: "Quantification of Retrograde Axonal Degeneration ("Dieback") in the Rat Corticospinal Tract after Axotomy: A Confocal Microscopy Study using DiI"

Student: Laili Soleimani
Supervisor: John Roder
Thesis Title: "Behavioural characterization of mannoside acetylglucosaminyltransferase 5 (Mgat5) deficient mice"

Student: Yu (Simon) Tian
Supervisor: Trevor Young
Thesis Title: "Decreased Hippocampal Gap-43 Immunoreactivity in Bipolar Disorder and Schizophrenia"

Student: Yudi Wan
Supervisor: Weiyang Lu
Thesis Title: "Role of Versican in the Regulation of Glutamatergic Synaptic Transmission"

Lab. Med. Path.:

Student: Athena Ypsilanti
Supervisor: Isabelle Aubert
Thesis Title: "The Septohippocampal Cholinergic System in Aging"

Pharm. Sci.:

Student: Megan Mahabir
Supervisor: Usoa Busto

Thesis Title: "The Neural Correlates of Acute and Chronic Nicotine Effects and Craving"

Pharmacology:

Student: Angela Harrison

Supervisor: Jerry Warsh

Thesis Title: "Characterization of the Transient Receptor Potential Channels Mediating Lysophosphatidic Acid-Stimulated Calcium Mobilization in B Lymphoblasts"

Student: Shehnaz Moosa

Supervisor: Usoa Busto

Thesis Title: "Dysfunction of the Brain Reward System in Apathy Associated with Alzheimer's Disease"

Student: Tatiana Perova

Supervisor: Jerry Warsh

Physiology:

Student: Lakshmanan Arunachalam

Supervisor: Shuzo Sugita

Thesis Title: "The functional importance of Munc18-1 and its interaction with Syntaxin1 in PC12 cells"

Student: Gordon Chin

Supervisor: William Hutchison

Thesis Title: "Mechanisms Of Deep Brain Stimulation: Injection And Microstimulation In The Pallidum Of The Rat"

Student: Mary Chiu

Supervisor: Beverly Orser

Thesis Title: "The Biochemical Characteristics of Extrasynaptic GABAA Receptors in the Hippocampus"

Student: Allison Guy

Supervisor: Dianne Broussard

Thesis Title: "Methods for Physiological Investigations of Vestibular Neurons in Mouse Brainstem Slices"

Student: Marijana Kanisek

Supervisor: John Roder

Thesis Title: "Role of Neto proteins in hippocampus dependent learning and memory"

Student: Evan Newell

Supervisor: Lyanne Schlichter

Thesis Title: "Endogenous ionic currents and their contribution to the electrical properties of microglia"

Student: Elaine Setiawan

Supervisor: Matthews MacDonald

Thesis Title: "Effects of prenatal betamethasone exposure on hippocampal long-term potentiation in juvenile guinea pigs"

Student: Joyce Tang

Supervisor: Jonathan Dostrovsky

Thesis Title: "Pallidal Activity in Patients with Different Movement Disorders"

Student: Orit Zamir

Supervisor: Milton P. Charlton

Thesis Title: "The Effect of Cholesterol Modulation on Synaptic Transmission"

Psychology:

Student: Maha Adamo

Supervisor: Susanne Ferber

Thesis Title: "Affordances of tools and their action counterparts enhance attentional dynamics as measured by the attentional blink"

Student: Leigh Botly

Supervisor: Eve DeRosa

Thesis Title: "Cholinergic influences on the encoding, but not retrieval, of crossmodal sensory feature binding in rats (*Rattus norvegicus*)"

Student: Norman Farb

Supervisor: A. Anderson W. Cunningham

Thesis Title: "Fearing the Worst and Expecting the Best: Regulatory Focus and the Physiological Response to Emotional Challenge"

Student: Mackenzie Glaholt

Supervisor: A.R. McIntosh R.E. Reingold

Thesis Title: "Duration judgement and familiarity in event perception"

Student: Noam Miller
 Supervisor: Sara Shettleworth
 Thesis Title: "What is Geometry?"

Student: Josh Susskind
 Supervisor: Adam Anderson
 Thesis Title: "Evidence for Structural Similarity and Antithesis in Facial Expressions"

Rehabilitation Science:

Student: Rosalynn Miller
 Supervisor: Molly Verrier
 Thesis Title: "Neuromuscular Restorative Therapy: A Therapeutic Application of Functional Electrical Stimulation in Individuals with Spinal Cord Injury"

Student: Le-Anh Ngo
 Supervisor: Green, R. Stuss, D.
 Thesis Title: "Enhancement of Cognitive Processing Capacity in Healthy Young Adults Through Brief and Intensive Cognitive Stimulation: Implications for Neurorehabilitation"

Ph.D. Theses:

IMS:

Student: Lori-Ann Christie
 Supervisor: N. William Milgram
 Thesis Title: "Mapping Canine Learning and Memory Systems: Functions of the Rhinal and Dorsolateral Prefrontal Cortices in Object and Visuospatial Learning and Memory"

Student: Chun L. Kwan
 Supervisor: Karen Davis
 Thesis Title: "A combined physiological, psychophysical, and functional neuroimaging study of rectal function in patients with irritable bowel syndrome"

Student: Gregory Molnar
 Supervisor: Robert Chen
 Thesis Title: "Mechanisms of Thalamic Deep Brain Stimulation"

Pharmaceutical Sciences:

Student: Donghui Kuang

Supervisor: David Hampson
 Thesis Title: "Amino acid-activated Family C G-protein coupled receptors"

Student: Erica Rosemond
 Supervisor: David Hampson
 Thesis Title: "Molecular pharmacology of the metabotropic glutamate receptors"

Psychology:

Student: Franca Placenza
 Supervisor: Franco Vaccarino
 Thesis Title: "The Role of Substance P and Brain Neurokinin-1 Receptors in Relapse to Drug-Seeking Behaviour, Drug-Induced Locomotor Activity and Drug Self-Administration"

Student: Stephanie Rees
 Supervisor: Alison Fleming
 Thesis Title: "Effects of Corticosterone on Maternal Behaviour: Roles of Parity, Gonadal Hormones, and Early Experience"

Student: Dale Stevens
 Supervisor: Cheryl Grady
 Thesis Title: "Investigation of the Neurocognitive Specialization of Episodic Memory Processes Within the Frontal Lobes and Beyond"

Speech-Language Pathology:

Student: Jayanthi Sasisekaran
 Supervisor: Luc De Nil
 Thesis Title: "Phonological Encoding Skills in Persons Who Stutter"

Student: Sarah Smits-Bandstra
 Supervisor: Luc DeNil
 Thesis Title: "Sequence skill learning and the transition to increasing automaticity in adults who stutter"

Appendix 3 Program in Neuroscience Faculty

There are currently 182 PIN faculty. Eight new faculty joined the Program in Neuroscience in 2005-2006. The faculty are listed below according to their department of primary appointment. Some faculty have cross appointments with one or more other graduate departments.

Biochemistry:

Callahan, John W.
Gurd, James W.
Lingwood, Clifford
MacLennan, David H.
Moscarello, Mario A.
Reed, Jutta K.
Trimble, William S.

**Biomaterials and
Biomedical Engineering:**

Bardakjian, Berj
Chau, Tom
Popovic, Milos
Shoichet, Molly
Wong, Willy

Dentistry:

Hu, James W.
Seltzer, Ze'ev
Sessle, Barry J.
Yu, Xian-Min

**Human Development
and Applied Psychology:**

Lewis, Marc

IMS:

Abel, Sharon M.
Black, Sandra E.
Broussard, Dianne M.
Brown, Gregory M.
Carlen, Peter L.
Chen, Robert
Christensen, Bruce
Davis, Karen D.
Dennis, Maureen
deVeber, Gabrielle
Diamant, Nicholas E.
Dubrowski, Adam
Eubanks, James
Fehlings, Michael G.

Harrison, Robert V.
Hwang, Paul A.
Kennedy, Sidney H.
Kennedy, James
Lozano, Andres M.
Lu, Wei-Yang
Maki, Brian E.
Mikulis, David
Moldofsky, Harvey
Morshead, Cindi M.
Mount, Howard
Perez Velazquez, Jose
Luis
Picton, Terence W.
Rovet, Joanne
Sandor, Paul
Sharpe, James A.
Steinbach, Martin
Tannock, Rosemary
Tator, Charles, H.
Taylor, Margot
Tymianski, Michael
Van Der Kooy, Derek
Westall, Carol
Young, L. Trevor

**Laboratory Medicine
and Pathobiology:**

Aubert, Isabelle
Bergeron, Catherine
Boggs, Joan M.
Bremner, Rod
Johnston, Miles
Mahuran, Don J.
McLaurin, JoAnne
Nag, Sukriti
Robertson, Janice
Schmitt-Ulms, Gerold
Westaway, David
Yucel, Yeni

Medical Biophysics:

Graham, Simon

Henkelman, R. Mark
Kabani, Noor
Wong, Shun

**Molecular and
Medical Genetics:**

Cordes, Sabine P.
Culotti, Joseph G.
Kaplan, David R.
Miller, Freda D.
Roder, John
Zhen, Mei

Pharmacology:

Burnham, W. McIntyre
George, Susan R.
Grupp, Larry A.
Hampson, David R.
Mitchell, Jane
Nobrega, Jose
Pace-Asciak, Cecil R.
Sellers, Edward M.
Snead, O. Carter
Warsh, Jerry J.

Pharmacy:

Busto, Usoa E.
Henderson, Jeffrey
O'Brien, Peter J.
Pennefather, Peter S.
Wells, James W.
Wells, Peter G.

Physiology:

Belsham, Denise
Charlton, Milton P.
De Boni, Umberto
Dostrovsky, Jonathan O.
Duffin, James
Feng, Zhong-Ping
Frankland, Paul

Hare, Gregory
 Horner, Richard
 Hutchison, William D.
 Jia, Zhengping
 Josselyn, Sheena
 Kwan, Hon C.
 Lambe, Evelyn K.
 MacDonald, John F.
 MacKay, William A.
 Matthews, Stephen G.
 Mills, Linda R.
 Monnier, Philippe Patrick
 Norwich, Kenneth H.
 Orser, Beverley
 Percy, Maire
 Salter, Michael W.
 Schlichter, Lyanne C.
 Skinner, Frances K.
 Stanley, Elise
 Sugita, Shuzo
 Tweed, Douglas
 Wan, Qi
 Wang, Lu-Yang
 Winslow, James L.
 Wojtowicz, J. Martin
 Zhuo, Min

Psychiatry:
 Shapiro, Colin

Psychology:
 Anderson, Adam K.

Anderson, Nicole
 Cunningham, William A.
 De Rosa, Eve
 Ferber, Susanne
 Fleming, Alison S.
 Fletcher, Paul J.
 Gerlai, Robert
 Grady, Cheryl L.
 Ivy, Gwendolyn O.
 Kennedy, John M.
 Levine, Brian
 McAndrews, Mary P.
 McIntosh, Anthony
 Randal
 Milgram, N. William
 Monks, Douglas Ashley
 Moscovitch, Morris
 O'Craven, Kathleen
 Petit, Ted L.
 Ralph, Martin R.
 Regan, David
 Saint-Cyr, Jean A.
 Shettleworth, Sara J.
 Smith, Mary Lou
 Stuss, Donald
 Tulving, Endel
 Vaccarino, Franco J.
 Yeomans, John S.
 Zelazo, Philip

Rehabilitation Science:
 Dawson, Deirdre

Green, Robin
 McIlroy, William
 Polatajko, Helene J.
 Verrier, Molly

Speech-Language Pathology:

Bressmann, Tim
 De Nil, Luc F.
 Johnson, Carla J.
 Rochon, Elizabeth
 van Lieshout, Pascal

Zoology:

Boulianne, Gabrielle L.
 Brown, Theodore J.
 Brown, Ian R.
 Buck, Les
 Chang, Belinda S.W.
 Fullard, James H.
 Lange, Angela B.
 Lovejoy, David A.
 Mrosovsky, Nicholas
 Orchard, Ian
 Peever, John
 Roots, Betty I.
 Stephenson, Richard
 Stewart, Bryan
 Tropepe, Vince
 Woodin, Melanie A.

Appendix 4: Distinguished Lecture Series 2005-2006:

1) Wednesday, September 14, 2005 3:30pm

SATOSHI KIDA, Laboratory of Molecular Biology, Tokyo University of Agriculture
 "Molecular mechanisms of consolidation, re-consolidation and extinction of fear memory"
 Medical Sciences Building, Rm 3153

2) Tuesday, November 8, 2005 4pm

The Fifth Raymond and Beverly Sackler Distinguished Visiting Neuroscientist
DR. GIULIO TONONI, Department of Psychiatry, University of Wisconsin, Madison
 "Sleep and synaptic homeostasis"
 Medical Sciences Building, Rm 3153

- 3) Thursday, December 1, 2005 4pm
DR. TED ABEL, Department of Biology, University of Pennsylvania
"Molecular Mechanisms of Long-Term Memory Storage"
Medical Sciences Building, Rm 3153
- 4) Wednesday, January 18, 2006 12pm
DR. CRISTINA ALBERINI, Department of Neuroscience, Mount Sinai School of Medicine, New York, New York
"Mechanisms of memory stabilization and destabilization"
Mount Sinai Hospital, 18th Floor Auditorium
- 5) Friday, January 27, 2006 3pm
DR. MORGAN SHENG, Menicon Professor of Neuroscience, The Picower Institute for Learning and Memory, Investigator, Howard Hughes Medical Institute, Massachusetts Institute of Technology (MIT)
"Molecular studies of synaptic plasticity"
Medical Sciences Building, Room 3153
- 6) Wednesday, February 8, 2006 12pm
DR. DAVID PORTEOUS, Ph.D., Medical Genetics Section, University of Edinburgh
"DISC1: shedding light upon the genetics and biology of schizophrenia, bipolar affective disorder and cognition"
Mount Sinai Hospital, 18th Floor Auditorium
- 7) Wednesday, March 1, 2006 3:30pm
HOWARD EICHENBAUM, Center for Memory and Brain, Boston University
"Three Kinds of Memory Binding Supported by the Hippocampus"
Sidney Smith Hall, 100 St. George St., Rm 2102
- 8) Friday, April 7, 2006 12pm
KEN LUKOWIAK PhD, Professor, Department of Physiology and Biophysics, University of Calgary
"How to upgrade memory in a snail!"
Medical Sciences Building, Rm 3153
- 9) Thursday, May 11, 2006 12pm
JOHN GUZOWSKI, Department of Neurobiology/Behavior, University of California, Irvine
"FISHing for Memories"
Medical Sciences Building, Rm 2172
- 10) Wednesday, May 24, 2006 4pm
ROBERTO MALINOW, Cold Spring Harbor Laboratory, New York
"Receptor trafficking in synaptic function and dysfunction"
Mount Sinai Hospital, 18th Floor Auditorium