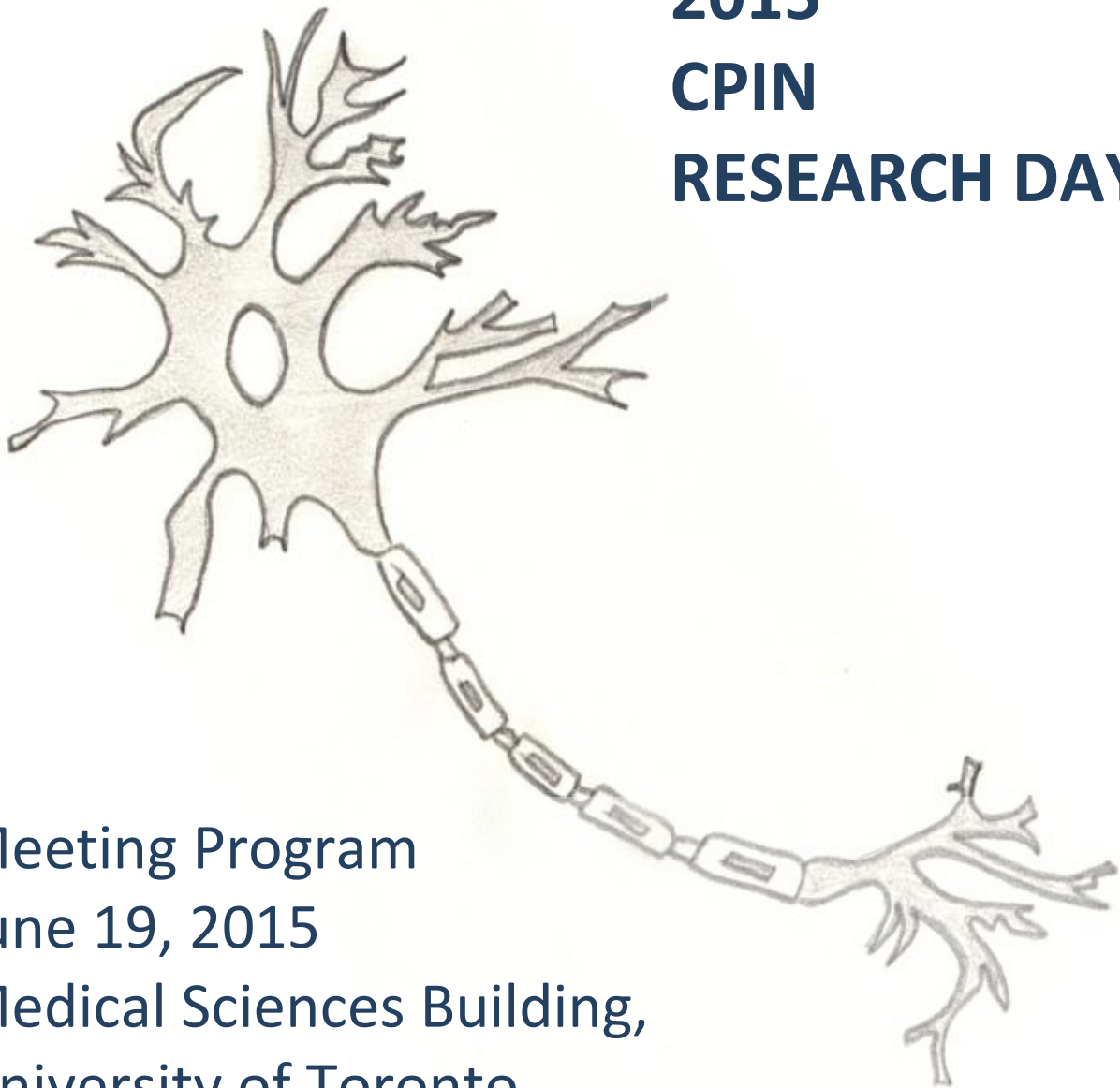




UNIVERSITY OF
TORONTO

Collaborative Program In Neuroscience

**2015
CPIN
RESEARCH DAY**



Meeting Program
June 19, 2015
Medical Sciences Building,
University of Toronto

http://www.neuroscience.utoronto.ca/events/CPIN_Research_Day.htm

**2015 CPIN Research Day
June 19, 2015
University of Toronto**

**Medical Sciences Building (MSB)
1 King's College Circle
Toronto, Ontario**

Schedule

- 8:30 a.m. **Registration and Poster Set-up**
(MSB Stone Lobby)
- 9:00 a.m. **Careers Workshop** (MSB 2172)
Panelists:
Dr. **Julie Lefebvre**, Assistant Professor, University of Toronto
Dr. **Bogdan Neagu**, Clinical Science Specialist, Octapharma
Dr. **Luca Pisterzi**, Informatics & Analytics, Ontario Brain Institute; Institute for Clinical
Evaluative Sciences, University of Toronto
- 10:15 a.m. **CPIN Trainee Oral Presentations**
Cellular Mechanisms and Plasticity (MSB 2173)
Circuits and Structural Connectivity (MSB 4171)
Development and Neurodegeneration (MSB 4279)
- 11:30 a.m. **Lunch/Poster Presentations** (MSB Stone Lobby)
Poster evaluation begins at 12:30 pm.
The top ranked presenters from each group will advance to the Second
Round (ePoster presentation)
- 2:15 p.m. **Second Round ePoster Presentations** (MSB 3154)
- 3:20 p.m. **Welcome remarks** (MSB 3154)
Raymond and Beverley Sackler Distinguished Visiting Neuroscientist Lecture Series
- 3:30 p.m. **2015 Sackler Distinguished Visiting Neuroscientist Keynote Lecture** (MSB 3154)
Dr. Jeffrey Charles Magee
Janelia Farm Research Campus, Howard Hughes Medical Institute
"A fundamental low-level cortical microcircuit computation"
- 4:30 p.m. **Awards Presentation and Closing Remarks** (MSB 3154)
- 5:30 p.m. **Social Event for CPIN members and guests at O'Grady's Tap and Grill**
(171 College Street, Toronto, ON)

Event Organizers

CPIN Research Day Organizing Committee

Vladislav Sekulic (Co-Chair)
Ekaterina Turlova (Co-Chair)
Alexandre Guet-McCreight
Ayda Ghahremani
Denis Osipov
Ellen van der Plas
Shraddha Pai
Zhong-Ping Feng (CPIN Director)
Suhail Asrar (CPIN Office)

CPIN Graduate Student Executives

Andrew Barszczyk
Tina Behdian
Ayda Ghahremani
Alexandre Guet-McCreight
Kasey Hemington
Vivek Mahadevan
Denis Osipov
Vladislav Sekulic
Ekaterina Turlova

Event Program Design

Uzma Awan
Suhail Asrar

Administration

Suhail Asrar

CPIN Academic/Executive Committees; Board of Directors

Applied Psychology and Human Development | Kang Lee; J. Roy Gillis
Biochemistry | Angus McQuibban/Oliver Ernst; Justin Nodwell
Institute of Biomaterials and Biomedical Engineering | Julie Audet/Ofer Levi; Christopher Yip
Cell And Systems Biology | Melanie Woodin/John Peever; Les Buck
Computer Science | Richard Zemel; Sven Dickinson
Dentistry | Barry J. Sessle; Morris Manolson
Laboratory Medicine and Pathobiology | Janice Robertson/Lili-Naz Hazrati; Harry Elsholtz
Institute of Medical Science | Cindi Morshead/Albert Wong; Mingyao Liu
Medical Biophysics | Bojana Stefanovic; Peter Burns
Music | Lee Bartel
Pharmaceutical Sciences | Jeffrey Henderson/David R. Hampson (Honorary member); Heather Boon
Pharmacology | Amy J. Ramsey; Ruth Ross
Physiology | Martin Wojtowicz/Lu-Yang Wang/Jonathan Dostrovsky (Honorary member); Steffen-Sebastian Bolz
Physiology | Zhong-Ping Feng (Committee Chair)
Psychology | John S. Yeomans; Morris Moscovitch
Rehabilitation Science | Karl Zabjek; Katherine Berg
St. Michael Hospital | Tom A. Schweizer

Presentation Judges

Marie-Andree Coulombe
Jeffrey Dason
Oliver Ernst
Zhong-Ping Feng
Robert Gerlai
Jeff Henderson
William Hutchison
William Ju
Kang Lee
Kei Masani
Christina Merkley
Kathrin MÜsch
Mary Nagai
Mohan Pabba
Shraddha Pai
Stephen Perry
Amy Ramsey
Janice Robertson
Frank Rudzicz
Ali Salahpour
Iman Sarvestani
Hong-Shuo Sun
Frances Skinner
Shuzo Sugita
Kaori Takehara
Douglas Tweed
John Yeomans

Presentation Details

ORAL PRESENTATIONS (10:15 - 11:15 am)

MSB 2173

Group 1: CELLULAR MECHANISMS AND PLASTICITY

10:15-10:30am

Vivek Mahadevan; Cell and Systems Biology

Supervisor: Melanie Woodin

REGULATION OF NATIVE-KCC2 BY COMPONENTS OF EXCITATORY NEUROTRANSMISSION - NOVEL MECHANISMS OF INHIBITORY SYNAPTIC PLASTICITY?

Mahadevan V, 1; Pressey, JC 1; Chevrier J, 1; Ivakine EA, 2; McInnes, RR 2, 3; Woodin MA, 1

1 Department of Cell & Systems Biology, University of Toronto, Toronto; 2 Program in Developmental and Stem Cell Biology, Hospital for Sick Children Research Institute, Toronto, Ontario, Canada; 3 Departments of Human Genetics and Biochemistry, McGill University, and Lady Davis Institute, Jewish General Hospital, Montreal, QC, Canada

10:30-10:45am

Enoch Ng; Institute Of Medical Science

Graduate Student

Supervisors: Albert Wong / John Roder

NEURONAL CALCIUM SENSOR-1 DELETION DECREASES MOTIVATION AND DOPAMINE RELEASE IN THE NUCLEUS ACCUMBENS

Ng E 1,2; Varaschin RK 3; Hermainski JG 4; Le Foll B 5,6; Pongs O 4; Trudeau LE 3; Roder JC 1,7; Wong AH 5,6

1 Lunenfeld-Tanenbaum Research Institute, Mount Sinai Hospital, Toronto; 2 Institute of Medical Science, University of Toronto; 3 Departments of Pharmacology and Neurosciences, Université de Montréal, Montréal, Canada; 4 Center for Molecular Neurobiology Hamburg, University Medical Center Hamburg-Eppendorf, Hamburg, Germany; 5 Campbell Family Research Institute, Centre for Addiction and Mental Health, Toronto; 6 Department of Pharmacology and Toxicology, University of Toronto; 7 Department of Molecular Genetics, University of Toronto, Toronto, Canada

10:45-11:00am

Erika Harding; Physiology

Supervisor: Michael Salter

CALCIUM RESPONSES TO SINGLE ACTION POTENTIALS IN SPINAL CORD LAMINA I NEURONS ARE MEDIATED BY T-TYPE VGCCS

Harding EK, 1,2; Salter MW 1,2

1 Department of Physiology, Faculty of Medicine, University of Toronto; 2 Program in Neurosciences and Mental Health, Hospital for Sick Children, Toronto

11:00-11:15am

Nancy Dong; Physiology

Supervisor: Zhong-Ping Feng

ROLE OF INTRINSIC PLASTICITY IN AVERSIVE LONG-TERM MEMORY FORMATION IN LYMNAEA STAGNALIS

Dong N; Feng ZP

Department of Physiology, University of Toronto

11:15-11:30am

Ner Mu Nar Saw; Physiology

Supervisor: Zhengping Jia

THE ROLE OF DISRUPTED-IN-SCHIZOPHRENIA 1 (DISC1) IN SYNAPTIC PLASTICITY

Saw NMN, 1,2; Zhang SP, 2; Meng Y, 2; Gao X, 1; Jia ZP 1,2

1 Department of Physiology, University of Toronto; 2 Department of Neurosciences and Mental Health, The Hospital for Sick Children

ORAL PRESENTATIONS (10:15 - 11:15 am)

MSB 4171

CIRCUITS AND STRUCTURAL CONNECTIVITY

10:15-10:30am

Leon French; Rotman Research Institute

Supervisor: Tomas Paus

METHYLATION STATUS OF GROWTH-FACTOR GENES PREDICTS HANDEDNESS ASSOCIATED CORTICAL ASYMMETRY

Leon F, 1; Doretta C, 2; Erin WD, 1; Gabriel L, 3; Michel P, 4; G. Bruce P, 5; Louis R, 6; Suzanne V, 4; Pingzhao H, 7; Eva R, 8; Melanie W, 8; Sonja Z, 8; Tom G, 2; Wendy M, 2; Susan R, 2; Geoff W, 2; John CE, 9; George D, 2; Caroline R, 10; Zdenka P, 11; Tomáš P, 1

1 Rotman Research Institute, University of Toronto, Canada; 2 MRC Integrative Epidemiology Unit, School of Social and Community Medicine, University of Bristol, United Kingdom; 3 Montreal Neurological Institute, McGill University, Montreal, Canada; 4 CEGEP Jonquiere, Jonquiere, Canada; 5 Departments of Radiology & Clinical Neuroscience, University of Calgary, Canada; 6 Department of Psychology, University of Quebec in Chicoutimi, Canada; 7 Department of Biochemistry and Medical Genetics, University of Manitoba, Winnipeg, Canada; 8 Research Unit of Molecular Epidemiology and Institute of Epidemiology II, Helmholtz Zentrum Munchen, Munich, Germany; 9 School of Psychology, Cardiff University, United Kingdom; 10 Institute of Genetic Medicine, Newcastle University, United Kingdom; 11 The Hospital for Sick Children, University of Toronto, Canada

10:30-10:45am

Michael Chang; Institute of Medical Science

Supervisor: Taufik A. Valiante

GABAA RECEPTOR ACTIVATION TRIGGERS ICTAL EVENTS (ELECTROGRAPHIC SEIZURES) IN MULTIPLE IN VITRO AND IN VIVO SEIZURE MODELS

Chang M, 1; Dian JA, 1; Dufour S, 1; Wang L, 1; Womelsdorf T, 3; Valiante, TA, 1,2

1 Division of Fundamental Neurobiology, Toronto Western Research Institute, Toronto; 2 Division of Neurosurgery, Department of Surgery, University of Toronto, Toronto; 3 Department of Biology, Centre for Vision Research, York University, Toronto, ON

10:45-11:00am

Vladislav Sekulic; Physiology

Supervisor: Frances Skinner

USING MULTI-COMPARTMENT MODELS TO INVESTIGATE THE EFFECTS OF DENDRITIC DISTRIBUTIONS OF H-CURRENT IN SYNAPTIC INTEGRATION OF ORIENTED-LACUNOSUM/MOLECULAR (O-LM) HIPPOCAMPAL INTERNEURONS

Sekulić V 1,2; Skinner FK 1,3,2

1 Toronto Western Research Institute; 2 University Health Network, Toronto; 3 Department of Physiology, University of Toronto; 4 Department of Medicine (Neurology), University of Toronto, Toronto, Ontario, Canada

11:00-11:15am

Yohan Yee; Medical Biophysics

Supervisor: Jason Lerch

COVARIANCE OF BRAIN REGION VOLUMES IN MICE CORRELATES WITH STRUCTURAL CONNECTIVITY

Yee Y, 1,2; Ellegood J, 2; Lerch JP, 1,2

1 Medical Biophysics, University of Toronto; 2 Mouse Imaging Centre, The Hospital for Sick Children

11:15-11:30am

Eva Ta; Institute of Medical Science

Supervisor: Anne-Marie Guerguerian

CLASSIFYING PEDIATRIC TRAUMATIC BRAIN INJURY BASED ON CEREBRAL EDEMA DETECTION USING AN AUTOMATED DIGITAL MEASUREMENT ALGORITHM

Ta E 2,6; Laughlin S 4; Kulkarni A 1,5; Parshuram CS 1,3; Hutchison J 2,3; Van Huyse J 2; Frndova H 2; Guerguerian AM 2,3,6

1 Child Health Evaluative Science Program; 2 Neuroscience and Mental Health Research; 3 Department of Critical Care Medicine; 4 Radiology; 5 Division of Neurosurgery, The Hospital for Sick Children Toronto; 6 Institute of Medical Science, University of Toronto

ORAL PRESENTATIONS (10:15 - 11:15 am)

MSB 4279

DEVELOPMENT AND NEURODEGENERATION

10:15-10:30am

Alan Poon; Institute of Medical Science

Supervisor: Carol Westall

RETINAL THICKNESS IRREGULARITIES IN PRECLINICAL DIABETIC RETINOPATHY

Poon A, 1,2; Wright T, 2; Dupuis A, 3,4; Hu Z, 5; Sadda S, 5,6; Westall C, 2,7

1 Institute of Medical Science, University of Toronto; 2 Department of Ophthalmology and Vision Sciences, The Hospital for Sick Children, Toronto; 3 Dalla Lana School of Public Health, University of Toronto; 4 Clinical Research Services, The Hospital for Sick Children, Toronto; 5 Doheny Eye Institute, Los Angeles; 6 University of California, Los Angeles, Los Angeles, CA, United States; 7 Department of Ophthalmology and Vision Sciences, University of Toronto, Toronto, ON, Canada

10:30-10:45am

Nikolaos Mitrousis; Institute of Biomaterials and Biomedical Engineering

Supervisor: Molly Shoichet

CULTURE OF ISOLATED PHOTORECEPTORS IN HYALURONIC ACID-BASED HYDROGELS ENABLES THEIR SURVIVAL AND MATURATION IN VITRO

Mitrousis N, 1; Tam RY, 1,2; van der Kooy D, 3,4; Shoichet MS, 1,2,3,5

1 Institute of Biomaterials and Biomedical Engineering (IBBME); 2 Department of Chemical Engineering and Applied Chemistry; 3 Institute of Medical Science; 4 Department of Molecular Genetics; 5 Department of Chemistry, University of Toronto, Toronto, Canada

10:45-11:00am

Samantha Mahabir; Cell and Systems Biology

Supervisor: Robert Gerlai

THE EFFECT OF EMBRYONIC ALCOHOL EXPOSURE ON SOCIAL BEHAVIOUR AND UNDERLYING BIOLOGICAL MECHANISMS IN ZEBRAFISH

Mahabir S,1; Chatterjee D, 2; Gerlai R, 1,2

1 Cell and Systems Biology, University of Toronto; 2 Department of Psychology, University of Toronto

11:00-11:15am

Windsor Kwan-Chun Ting; Institute of Medical Science

Supervisor: Michael Cusimano

A PILOT STUDY EXPLORING PUPIL RESPONSE MEASUREMENT IN MILD TRAUMATIC BRAIN INJURY

Ting WK, 1,2; Topolovec-Vranic J, 2; McGowan M, 2; Cusimano MD, 1,2

1 Institute of Medical Science, University of Toronto; 2 St. Michael's Hospital, Toronto

11:15-11:30am

Ayda Ghahremani; Institute of Medical Science; Toronto Western Research Institute

Supervisor: Robert Chen

EXPLORING INHIBITION OF IMPULSIVE ACTIONS INVOLVING THE BASAL GANGLIA OF PARKINSON'S DISEASE PATIENTS

Ghahremani AG,1,2; Neagu BN,1; Udupa KU,1;Saha US,1; Lozano AL,1,3; Najafi SN,5; Hodaie MH,1,2,3; Kalia SK,1,3; Chen RC,1,2,4

1 Toronto Western Research Institute, Toronto, ON, Canada; 2 Institute of Medical Science, University of Toronto, Toronto, ON, Canada; 3 Division of Surgery, Department of Medicine, University of Toronto; 4 Division of Neurology, Department of Medicine, University of Toronto; 5University of Toronto, Toronto, ON, Canada

POSTER PRESENTATIONS (11:30 am - 2:15 pm)

MSB STONE LOBBY

1.
Ahmed Abussaud; Surgery
Supervisor: Hong-Shuo Sun
EFFECTIVENESS OF VOLUME-REGULATED ANION CHANNEL SELECTIVE BLOCKER DCPIB IN NEONATAL HYPOXIC-ISCHEMIC BRAIN INJURY
Abussaud A 1; Yan K 2; Huang S 1,2; Chen W 1,2; Kim J-S 2; Sun H-S 1,2,3,4
1 Departments of Surgery; 2 Physiology; 3 Pharmacology; 4 Institute of Medical Science, Faculty of Medicine, University of Toronto
2.
Kenda Alhadid; Institute of Medical Science
Supervisor: Taufik Valiante
CEREBROVASCULAR REACTIVITY IN MESIAL TEMPORAL LOBE EPILEPSY
Alhadid K 1,2; Poublanc J 3; Venkat Raghavan 4; Sobczyk O1; Crawley A 3; Fisher JA, 1,4; Mikulis DJ 1,3,5; and Valiante TA 1,5,6,7,8.
1Institute of Medical Science, University of Toronto; 2 Division of Neurology at Dept. of Pediatrics, University of Toronto; 3 Joint Department of Medical Imaging, University Health Network; 4 Department of Anesthesia and Pain Management University Health Network; 5 Toronto Western Research Institute; 6 Division of Neurosurgery, University of Toronto; 7 Division of Fundamental Neurobiology, Toronto Western Research Institute; 8 Institute of Biomaterials and Biomedical Engineering, University of Toronto
3.
Rylan Allemang-Grand; Medical Biophysics
Graduate Student
Supervisor: Jason Lerch
NEUROANATOMICAL AND MICROSTRUCTURAL DIFFERENCES IN THE BRAIN OF A MECP2 MOUSE MODEL OF RETT SYNDROME
Allemang-Grand R, 1,2; Ellegood J, 1; Lerch JP, 1,2;
1 Mouse Imaging Centre, Hospital for Sick Children; 2 Department of Medical Biophysics, University of Toronto
4.
Sarah Atwi; Medical Biophysics
Supervisor: Bradley MacIntosh
ATTENTION RELATED ACTIVATION NETWORKS IN YOUNG AND OLDER ADULTS: AN FMRI STUDY
Atwi S 1,2; Metcalfe AWS 1,3; Robertson AD 1; MacIntosh BJ 1,2
1 Heart and Stroke Foundation Canadian Partnership for Stroke Recovery, Sunnybrook Research Institute; 2 Department of Medical Biophysics; 3 Centre for Youth Bipolar Disorder, Sunnybrook Research Institute; University of Toronto,
5.
Samantha Audrain; Psychology
Supervisor: Mary Pat McAndrews
DIFFERENTIAL FORGETTING OF ITEM AND ASSOCIATIVE INFORMATION IN LONG-TERM MEMORY: THE ROLES OF HIPPOCAMPAL BINDING, SEMANTIC RELATEDNESS, AND SLEEP
Audrain SP, 1,2; McAndrews MP, 1,2
1 Krembil Neuroscience Centre & Toronto Western Research Institute, University Health Network; 2 Department of Psychology, University of Toronto
6.
Eliane Barras; Biochemistry
Supervisor: G. Angus McQuibban
DEFINING THE ROLE OF USP35 IN MITOPHAGY AND THE ETIOLOGY OF PARKINSON'S DISEASE
Barras E, 1,2; Kim PK, 1,2; McQuibban GA, 1
1 Department of Biochemistry, University of Toronto; 2 Program in Cell Biology, The Hospital for Sick Children
7.
Andrew Barszczyk; Physiology
Supervisor: Zhong-Ping Feng
DIFFERENTIAL ROLES OF THE MEVALONATE PATHWAY IN THE DEVELOPMENT AND SURVIVAL OF MOUSE PURKINJE CELLS IN CULTURE
Barszczyk, A, 1; Sun, H-S, 2; Quan, Y, 1; Zheng, W, 3; Charlton, MP, 1; Feng, Z-P, 1
1 Department of Physiology, University of Toronto; 2 Department of Surgery, University of Toronto; 3 State Key Laboratory of Ophthalmology, Zhongshan Ophthalmic Center, Sun Yat-sen University, Guangzhou, China
8.
Diellor Basha; Physiology
Supervisor: William D Hutchison
THE MODULATION OF SUBCORTICAL BETA OSCILLATIONS DURING MOTOR LEARNING IN PARKINSON'S DISEASE
Basha D 1,2; Ellis S 1,2; Kalia S 3,4, Hodaie M 3,4, Lozano AM 3,4, Hutchison WD 1,2,4;
1 Brain, Imaging and Behaviour, Toronto Western Res. Inst., Toronto; 2 Physiol., 3 Dept. of Surgery, Univ. of Toronto; 4 Div. of Neurosurg., Toronto Western Hosp., Toronto, ON, Canada
9.
Pieter Beerepoot; Pharmacology & Toxicology
Supervisor: Ali Salahpour
PHARMACOLOGICAL CHAPERONES FOR DOPAMINE TRANSPORTER DEFICIENCY SYNDROM
Beerepoot, P; Bermejo K; Salahpour A;
University of Toronto, Pharmacology & Toxicology, Toronto, Canada
10.
Tina Behdinan; Institute of Medical Science
Supervisor: Aristotle Voineskos
NEUROIMAGING PREDICTORS OF FUNCTIONAL OUTCOMES IN SCHIZOPHRENIA AT BASELINE AND 6 MONTH FOLLOW-UP
Behdinan, T, 1,2; Fousias, G, 1,2,3; Wheeler, AL, 2; Stefanik, L, 2; Felsky, D, 1,2; Remington, G, 1,2,3; Rajji, TK, 1,2,3; Chakravarty, MM, 4,5; Voineskos, AN, 1,2,3

1 Institute of Medical Science, University of Toronto; 2, Centre for Addiction and Mental Health; 3 Department of Psychiatry, University of Toronto; 4 Department of Psychiatry, McGill University; 5 Douglas Mental Health University Institute

11.

Marie Kristel Bermejo; Pharmacology & Toxicology
Supervisor: Ali Salahpour
SELECTIVE RESCUE OF NMDA RECEPTORS IN DOPAMINE NEURONS OF NR1 INDUCIBLE-RESCUE KNOCKDOWN MICE
Bermejo MK, 1; Mielnik CA, 1; Ramsey AJ, 1; Salahpour A
1 Pharmacology and Toxicology, University of Toronto

12.

Thenille Braun Janzen; Music
Supervisor: Lee Bartel
CAN WE IMPROVE PATIENT'S QUALITY OF LIFE USING SOUNDS? EXPLORING THE EFFECTIVENESS OF RHYTHMIC SENSORY STIMULATION ON THE TREATMENT OF FIBROMYALGIA AND MAJOR DEPRESSIVE DISORDER
Braun Janzen T, 1; Bartel L, 1
1 Music and Health Research Collaboratory, University of Toronto

13.

Vanessa Breton; Physiology
Supervisor: Peter Carlen
AN OPTOGENETIC APPROACH REVEALS PRESYNAPTIC MECHANISM FOR SEIZURE TERMINATION
Breton VL,1,3; Dufour D,3; Peter L. Carlen,1,2,3
1 Department of Physiology, University of Toronto; 2 Division of Neurology, Department of Medicine, University of Toronto; 3 Division of Fundamental Neurobiology, Toronto Western Research Institute, Toronto, ON, Canada

14.

Iva Brunec; Psychology
Supervisors: Morgan Barense, Morris Moscovitch
ROLE OF TEMPORAL INFORMATION IN EPISODIC MEMORY
Brunec IK, 1,2; Ozubko JD, 2; Barense MD, 1,2; Moscovitch M, 1,2
1 Department of Psychology, University of Toronto; 2 Rotman Research Institute

15.

Monique Budani; Laboratory Medicine and Pathobiology
Supervisor: Clifford Lingwood
IDENTIFICATION OF GLUCOSYL CERAMIDE FLIPPASE IN GLYCOSPHINGOLIPID BIOSYNTHESIS
Budani M, 1,2; Mylvaganam M, 2; Binnington B, 2; Lingwood C, 1,2,3
1 Department of Laboratory Medicine and Pathobiology; 2 Division of Molecular Structure and Function, Research Institute, Hospital for Sick Children; 3 Department of Biochemistry, University of Toronto

16.

Alexandra Chatzikalymniou; Physiology

Supervisor: Frances Skinner
MODELLING OF LOCAL FIELD POTENTIALS IN THE HIPPOCAMPUS
Chatzikalymniou A 1,2; Ferguson K 1,2; Skinner F 1,2
1 Departments of Physiology, University of Toronto; 2 Toronto Western Research Institute, University Health Network, 60 Leonard Avenue, Toronto, Ontario, Canada

17.

Wenliang Chen; Physiology
Supervisor: Hong-Shuo Sun
INHIBITION OF TRPM7 BY CARVACROL SUPPRESSES GLIOBLASTOMA CELL PROLIFERATION, MIGRATION AND INVASION
Chen WL1,2, Barszczyk A2, Turlova E1,2, Deurloo M2, Liu B1,2, Yang BB3, Rutka JT1, Feng ZP2, Sun HS1,2,4,5
1 Department of Surgery, University of Toronto, Toronto, Canada; 2 Department of Physiology, University of Toronto, Toronto, Canada; 3 Laboratory Medicine and Pathobiology, University of Toronto, Toronto, Canada; 4 Department of Pharmacology, University of Toronto, Toronto, Canada; 5 Institute of Medical Science, Faculty of Medicine, University of Toronto, Toronto, Canada

18.

Yuxiao (Sonny) Chen; Pharmacology & Toxicology
Supervisor: Amy J. Ramsey
RESTORED WAVE1 LEVELS IN A MODEL OF NMDA RECEPTOR HYPOFUNCTION ATTENUATES WORKING MEMORY DEFICITS
Chen Y, 1; Milenkovic M, 1; Soderling SH, 2; Ramsey AJ, 1
1 Department of Pharmacology and Toxicology, University of Toronto; 2 Department of Cell Biology, Duke University Medical Center

19.

Andrea Constantino; Physiology
Supervisor: Stephen Matthews
MULTIGENERATIONAL PROGRAMMING OF ANXIETY RELATED GENE EXPRESSION IN THE PREFRONTAL CORTEX AFTER ANTENATAL GLUCOCORTICOID: PATERNAL TRANSMISSION
Constantino A, 1; Moisiadis VG, 1; Kostaki A, 1; Matthews SG, 123.
1 Physiology, 2 OBGYN, 3 Medicine, University of Toronto, Toronto

20.

Marielle Deurloo; Physiology
Supervisor: Zhong-Ping Feng
GTF2I COPY NUMBER ALTERS SEVERITY OF HYPOXIC ISCHEMIC BRAIN INJURY IN NEONATAL STROKE IN 7Q11.23 DISORDER MODELS
Deurloo MHS, 1; Xiao A, 1; Xu B, 1,4; Chen W, 1; Zhu X, 1; Li Q,1; Osborne LR, 2,3; Sun HS, 1,4; Feng Z-P, 1;
Departments of 1 Physiology, 2 Medicine, 3 Molecular Genetics, 4 Surgery, University of Toronto

21.

Ayan Dey; Institute of Medical Science
Supervisor: Brian Levine

FUNCTIONAL NEUROIMAGING OF CEREBRAL SMALL VESSEL DISEASE, BEHAVIOUR AND NEUROREHABILITATION FOLLOWING GOAL MANAGEMENT TRAINING: PILOT

Dey AK 1,2,7; Stamenova V 2,7; Bacopulos A, 2; Jeyakumar N, 2; Turner G 5,7,8; Black SE 1,2,4,6,7; Levine B 2,3,4,7

1 Institute of Medical Science, Faculty of Medicine, University of Toronto; 2 Rotman Research Institute, Baycrest Centre; 3 Department of Psychology, University of Toronto; 4 Department of Medicine (Neurology), University of Toronto; 5 Department of Rehabilitation Sciences, University of Toronto; 6 LC Campbell Cognitive Neurology Research Unit, Sunnybrook Health Sciences Centre; 7 Heart and Stroke Foundation Canadian Partnership in Stroke Recovery; 8 Department of Psychology, Faculty of Health, York University

22.

Xiao Pan Ding; Institute of Child Study, OISE

Supervisor: Kang Lee

NEURAL DEVELOPMENT OF CHILDREN'S SPONTANEOUS DECEPTION: A FUNCTIONAL NEAR-INFRARED SPECTROSCOPY STUDY

Xiao Pan Ding, 1; Genyue Fu, 2; Kang Lee

1 University of Toronto; 2. Zhejiang Normal University

23.

Samantha D'Souza; Rehabilitation Sciences

Supervisor: Darcy Fehlings

INVESTIGATING SENSORY PLASTICITY IN HEMIPLEGIC CEREBRAL PALSY FOLLOWING MODIFIED CONSTRAINT- INDUCED MOVEMENT THERAPY (mCIMT)

D'Souza S 1,2,4; Jobst C, 2; Master S, 2; Switzer L, 1; Cheyne D 2,3; Fehlings D 1,4

1 Bloorview Research Institute; 2 SickKids Research Institute; 3 Institute of Biomaterials and Biomedical Engineering; 4 Rehabilitation Sciences Institute

24.

Zahra Emami; Institute of Biomaterials and Biomedical Engineering

Supervisor: Tom Chau

QUANTIFYING AND OVERCOMING THE EFFECT OF DISTRACTIONS ON COGNITIVE LOAD IN BRAIN-COMPUTER INTERFACES

Emami Z, 1; Tom C., 1,2

1 Institute of Biomaterials and Biomedical Engineering, University of Toronto; 2 Bloorview Research Institute

25.

Alex Francois-Nienaber; Computer Science, Rotman Research Institute

Supervisor: Frank Rudzicz

LATERALIZATION IN EMOTIONAL SPEECH PERCEPTION FOLLOWING TRANSCRANIAL DIRECT CURRENT STIMULATION

Francois-Nienaber A, 1,2; Meltzer JA 2; Rudzicz F 1,3

1 Department of Computer Science, University of Toronto; 2 Rotman Research Institute, Baycrest; 3 Toronto Rehabilitation Institute, UHN

26.

Niveen Fulcher; Psychology

Supervisor: Robert Gerlai

DEVELOPMENT OF AN UNPREDICTABLE CHRONIC MILD STRESS (CMS) PROCEDURE: ZEBRAFISH AS A MODEL FOR DEPRESSION DISORDERS

Fulcher N, 1; Shams S, 2; Gerlai R 1,2

1 Department of Psychology, University of Toronto Mississauga; 2 Cell & Systems Biology, University of Toronto Mississauga

27.

Martha Gabriela Garcia Garcia

Institute of Biomaterials and Biomedical Engineering

Supervisor: Milos R. Popovic

CELL-TYPE PERFORMANCE IN A CORTICALLY-CONTROLLED BRAIN-MACHINE INTERFACE

Garcia Garcia MG, 1,2,3; Nagai MK, 2,3; Popovic MR, 1,2,3

1 Institute of Biomaterials and Biomedical Engineering, University of Toronto; 2 Toronto Rehabilitation Institute, University Health Network; 3 Collaborative Program in Neuroscience, University of Toronto

28.

Susan Gillingham; Psychology

Supervisor: Claude Alain

NEUROPHYSIOLOGICAL RESPONSES TO INCREASING ATTENTIONAL COMPLEXITY

Gillingham SM, 1,2; Alain C, 1,2

1 Rotman Research Institute at Baycrest; 2 Department of Psychology, University of Toronto

29.

Joshua Gnanasegaram; Institute of Medical Science

Supervisor: Karen A. Gordon

ELECTRICAL CURRENT FROM A COCHLEAR IMPLANT CAN STIMULATE THE VESTIBULAR SYSTEM

Gnanasegaram JJ 1,2; Parkes WJ 1,3; Cushing SL 1,3; Papsin BC 1,2,3; Gordon KA 1,2

1 Archie's Cochlear Implant Laboratory, The Hospital for Sick Children; 2 The Institute of Medical Science, University of Toronto; 3 Dept of Otolaryngology Head and Neck Surgery, The Hospital for Sick Children, University of Toronto

30.

Peter Hawrysh; Cell & Systems Biology

Supervisor: Les Buck

ANOXIC REGULATION OF MITOCHONDRIAL MEMBRANE POTENTIAL AND ROS PRODUCTION LEADS TO ELECTRICAL SUPPRESSION IN TURTLE CEREBRAL CORTEX

Hawrysh PJ, 1; Hogg DW, 1; Buck LT, 1

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31.

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Supervisor: Christopher Honey

THEORETICAL MECHANISMS OF CORTICAL SPATIOTEMPORAL SEQUENCE LEARNING

Hemberger KD, 1; Honey CJ, 1

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32.
Sammen Huang; Physiology
Supervisor: Hong-Shuo Sun
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Huang S,1,2; Abussaud A,1; Chen W,1; Kim JS,2; Yan K,2; Turlova E,1,2; Feng Z-P,2; Sun H-S,1, 2, 3, 4
1 Departments of Surgery; 2 Physiology; 3 Pharmacology; 4 Institute of Medical Science, Faculty of Medicine, University of Toronto, 1 King's College Circle, Toronto, Ontario, Canada
33.
Gaayathiri Jegatheeswaran; Institute of Medical Science
Supervisor: Robert Chen
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1 Institute of Medical Science, University of Toronto; 2 Toronto Western Research Institute, UHN
34.
David Jiang; Pharmacology & Toxicology
Supervisor: David Hampson
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Jiang DL, 1; Hampson DR 1,2
1 Dept. of Pharmacology & Toxicology, Faculty of Medicine, University of Toronto; 2 Dept. of Pharmaceutical Sciences, Leslie Dan Faculty of Pharmacy, University of Toronto
35.
Michael Joseph; Physiology
Supervisor: Lyanne Schlichter
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1 Department of Physiology, University of Toronto; 2 Toronto Western Research Institute, University Health Network
36.
Arunima Kapoor; Institute of Medical Science
Supervisor: Richard Swartz
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37.
Ji-Sun Kim; Physiology
Supervisor: Zhong-Ping Feng
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38.
Doris Lam; Physiology; Toronto Western Hospital Research Institute
Supervisor: Lyanne Schlichter
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Lam D 1,2; Schlichter LC 1,2
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39.
Susy Lam; Institute of Medical Science
Supervisor: Robert Chen
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40.
Vincent Lam; Pharmacology & Toxicology
Supervisor: Ali Salahpour
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Lam VM 1; Rodriguez D 2; Zhang T 1; Koh EJ 1; Carlsson J 2; and Salahpour A 1
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Christina Lee; Psychology
Supervisor: William A. Cunningham
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Lee CH, 1; Kerestecioglu D, 1; Jahn AA, 2; Cunningham WA, 1,3
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42.
Celeste Leung; Physiology
Supervisor: Zhengping Jia
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Leung C, 1,2; Cao F, 1,2; Jia ZP, 1,2
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43.
Navdeep Lidhar; Psychology
Supervisor: Kaori Takehara
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1 Dept. of Psychology; 2 Cell & Systems Biology, University of Toronto; 3 Dept. Biol. Sciences, University of Toronto Scarborough
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Chelsea Lowther; Institute of Medical Science
Supervisor: Anne Bassett
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Patricia Marshall; Psychology
Supervisors: Nicole Anderson; Morgan Barense
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1 Rotman Research Institute; 2 Psychology, University of Toronto
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Catharine Mielnik; Pharmacology & Toxicology
Supervisor: Amy Ramsey
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Amy Miles; Institute of Medical Science
Supervisor: Allan Kaplan
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48.
Natalia Moskal; Biochemistry
Supervisor: Angus McQuibban
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1 Department of Biochemistry, University of Toronto
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Sarah Mossad; Psychology
Supervisor: Margot Taylor
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1 Diagnostic Imaging; 2 Neuroscience and Mental Health, Research Institute, Hospital for Sick Children; 3 Psychology, University of Toronto; 4 Neurology, Hospital for Sick Children; 5 Psychology, Hospital for Sick Children
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Labeeba Nusrat; Rehabilitation Sciences
Supervisor: Cindi Morshead
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1 Department of Surgery, Donnelly Centre for Cellular and Biomolecular Research, University of Toronto; 2 Department of Cellular & Molecular Medicine, Canadian Partnership for Stroke Recovery, Roger Guindon Hall, University of Ottawa
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Temitope Olanbiwonnu; Pharmacology
Supervisor: Laurie Zawertailo
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1 University of Toronto; 2 Centre for Addiction and Mental Health
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Adeoye Oyefiade; Psychology, Sickkids
Supervisor: Donald Mabbott
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1 Psychology, The Hospital for Sick Children, Toronto; 2 Neurosciences and Mental Health, The Hospital for Sick Children, Toronto, ON
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Melissa Paniccia; Rehabilitation Science
Supervisor: Michelle Keightley
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54.

Melissa Polonenko; Institute of Medical Sciences

Supervisor: Karen Gordon

PROTECTING AUDITORY CORTICAL DEVELOPMENT IN CHILDREN WITH ASYMMETRIC HEARING LOSS THROUGH BIMODAL HEARING

Polonenko MJ,1,2; Papsin BC, 1,3; Gordon KA, 1,2,3

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55.

Lily Qiu; Institute of Medical Science

Supervisor: Jason Lerch

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56.

Joe Steinman; Medical Biophysics

Supervisor: John G. Sled

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57.

Alexander Terpstra; Rehabilitation Sciences

Supervisor: Robin Green

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Sathesan Thavabalasingam; Psychology

Supervisor: Andy Lee

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Thavabalasingam S, 1; O'Neil EB, 1; Zeng Z, 1; Lee ACH 1,2

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59.

Steven Tran; Cell and Systems Biology

Supervisor: Robert Gerlai

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Tran S, 1; Nowicki M, 2; Muraleetharan A, 2; Chatterjee D, 2; Gerlai R, 1,2

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60.

Michael Tso; Institute of Medical Science

Supervisor: R. Loch Macdonald

VALPROIC ACID IN EXPERIMENTAL AND CLINICAL SUBARACHNOID HEMORRHAGE: NEUROPROTECTIVE?

Tso MK, 1,2; Ai J, 1; Macdonald RL, 1

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Ekaterina Turlova; Physiology

Supervisor: Hong-Shuo Sun

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62.

Lyn Van Kampen; Psychology

Supervisor: Paul Frankland

HIPPOCAMPAL NEUROGENESIS LEADS TO THE ERASURE OF A COCAINE CONDITIONED PLACE PREFERENCE

Van Kampen, L. A, 1,2; Frankland, P.W. 1,2

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63.

Lee Verweel; Rehabilitation Sciences

Supervisor: Michelle Keightley

HEART RATE VARIABILITY AND CONCUSSION IN YOUTH ATHLETES: APPROACHES TO ASSESSMENT AND MANAGEMENT

Verweel L, 1,2; Panicia M, 1,2; Taha T, 2,3; Reed N, 1,2,4; Keightley M, 1,2,4.

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64.
Kristin Vesely; Institute of Medical Science
Supervisor: Tom Schweizer
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65.
Paul Wannas; Pharmacology & Toxicology
Supervisors: Laurie Zawertailo; Peter Selby
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66.
Danielle Weber-Adrian; Laboratory Medicine and Pathobiology
Supervisor: Isabelle Aubert
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Marta Wnuczko; Psychology
Supervisor: John M Kennedy
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1 Psychology, University of Toronto
68.
Angelita Wong; Psychology
Supervisor: Tomas Paus
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69.
Frances Xia; Physiology
Supervisor: Paul Frankland
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70.
Naiqi Xiao; Applied Psychology and Human Development
Supervisor: Kang Lee
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1 Applied Psychology and Human Development, University of Toronto; 2 Department of Psychology, Zhejiang Normal University
71.
Timothy Zeyl; Institute of Biomaterials and Biomedical Engineering
Supervisor: Tom Chau
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