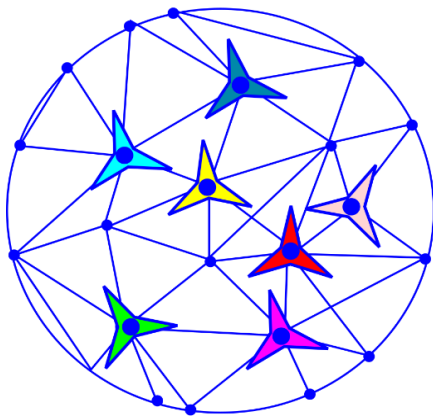




UNIVERSITY OF
TORONTO

Collaborative Program In Neuroscience (CPIN)

Research Goes Virtual



**CPIN
Research
Day
2020**

Advances in Neuroscience

**Meeting Program
December 18, 2020**

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

Collaborative Program in Neuroscience (CPIN) 2020 Virtual Research Day

Friday, December 18, 2020

Program Schedule

- 9:00 a.m. - 9:30 a.m.** [Main Conference Room](#)
Welcome and opening remarks
Dr. Zhong-Ping Feng, Director, Collaborative Program In Neuroscience (CPIN); Professor, Department of Physiology & IMS, University of Toronto

Dr. Reinhart Reithmeier, Interim Vice-Dean Research and Innovation, Temerty Faculty of Medicine; Professor, Department of Biochemistry, University of Toronto

Sex & Gender Differences Competitive Fellowship & Sex and Gender Research in Brain Health
Dr. Gillian Einstein, Professor of Psychology; Wilfred and Joyce Posluns Chair in Women's Brain Health and Aging; Adjunct Scientist, Rotman Research Institute, University of Toronto; Guest Professor of Gender & Health, Linköping University, Sweden
- 9:30 a.m. –11:05 a.m.** **CPIN Trainee Presentations – Breakout Rooms & Theme of the Presentations**
[Breakout Room 1: Cellular & Molecular Neuroscience](#)
[Breakout Room 2: Synaptic Plasticity, Learning & Memory, & Cognitive Neuroscience](#)
[Breakout Room 3: Neural Circuitry, Networks, & Computational Neuroscience](#)
[Breakout Room 4: Developmental Neuroscience & Neurodevelopmental Disease](#)
[Breakout Room 5: Aging, Dementias, & Neurodegenerative Disorders](#)
[Breakout Room 6: Neuropharmacology & Drug Development](#)
[Breakout Room 7: Stress, Depression, & Mental Health](#)
[Breakout Room 8: Brain Injury, Trauma, & Regenerative Biology](#)
[Breakout Room 9: Brain Health & Other Neurological Disorders](#)
- 11:05 – 11:50 a.m.** [Main Conference Room](#)
CPIN Faculty Lectures - “Advances in Neuroscience”

“Open syntaxin overcomes exocytosis defects of diverse mutants in *C. elegans*”
Dr. Shuzo Sugita Senior Scientist, Krembil Research Institute; Professor, Department of Physiology, University of Toronto

“Cooperative Mechanisms of Programmed Cell Death in Adult Stroke”
Dr. Jeffrey Henderson Associate Professor, Leslie Dan Faculty of Pharmacy, University of Toronto
- 11:50–12:00 p.m.** **Awards Ceremony**

Jonathan Dostrovsky Awards in Neuroscience
Presentation awards

Closing

Student Presenters, Breakout Rooms & Index of Trainee Presentations

Cellular & Molecular Neuroscience (Breakout Room 1)	Synaptic Plasticity, Learning & Memory, & Cognitive Neuroscience (Breakout Room 2)	Neural Circuitry, Networks, & Computational Neuroscience (Breakout Room 3)
10. Azin Ebrahim Amini	7. Arely Cruz-Sanchez	18. Sarah Gregor
11. Aeen Ebrahim Amini	17. Ali Golbabaei	24. Hope Jervis Rademeyer
14. Andreea Furdui	28. Kai Ian Leung	25. Naotsugu Kaneko
21. Sarah Hui	30. Jordan Mak	43. Mohsen Poorganji
39. Ana-Maria Oproescu	33. Mina Mirjalili	47. Leanne Rokos
54. Ai Tian	36. Simar Moussaoui	55. Stephanie Tran
58. Lakshmy Vasani	40. Adetunji Oremakinde	57. Gaqi Tu
63. Chengye Yang	60. RuoDing Wang	

Developmental Neuroscience & Neurodevelopmental Disease (Breakout Room 4)	Aging, Dementias, & Neurodegenerative Disorders (Breakout Room 5)	Neuropharmacology & Drug Development (Breakout Room 6)
6. Teddy Cheung	4. Kriteleen Bawa	1. Mark Aquilino
13. Rania Faidi	20. Amir Hamzeh	2. Roshanak Asgariroozbehani
16. Avidah Gharehgzlou	29. Lilian Lin	23. Yasaman Javadzadeh
19. Nancy Hamdy	42. Susan Ping	27. Jiwon Lee
26. Kyurim Kang	50. Marc Shenouda	35. Daniel Mori-Fegan
34. Kelly Mo	52. Rosa Sommer	37. Roseanne Nguyen
41. Lee Phan	62. Rebecca Wu	48. Afifa Saleem
		65. Shenhab Zaig

Stress, Depression, & Mental Health (Breakout Room 7)	Brain Injury, Trauma, & Regenerative Biology (Breakout Room 8)	Brain Health & Other Neurological Disorders (Breakout Room 9)
3. Paria Baharikhooob	5. Lauren Belfiore	8. Luke David
12. Gavin Elias	9. Danielle DuPlessis	15. Kimia Ghannad-Zadeh
32. Frank Mazza	38. Eman Nishat	22. Ahmad Ribal Israwi
53. Nicolette Stogios	45. Tian Renton	31. Michael Martin
61. Shijing Wang	46. Cricia Rinchon	44. Sandra Poulson
64. Heng Kang Yao	51. Josh Shore	49. Julie Sato
66. Xinyang Zhou	56. Pascale Tsai	59. Anna Vasilevskaya

Jonathan Dostrovsky Award in Neuroscience



Established in 2016 by the generosity of Dr. Jonathan Dostrovsky, this annual award recognizes and supports excellence amongst graduate students enrolled in the Collaborative Program in Neuroscience and will be selected based on academic merit.

There are two Jonathan Dostrovsky Awards in Neuroscience for outstanding achievement in graduate neuroscience research towards a Ph.D. degree.

- 1 Junior Award: Outstanding achievement in initial graduate neuroscience research (<2 years in Ph.D. program)
- 1 Senior Award: Outstanding achievement in graduate neuroscience research towards a Ph.D. degree (< 4 years in Ph.D. program)

Dr. Jonathan Dostrovsky completed his undergraduate studies in physics and mathematics at the Israel Institute of Technology in 1969 and then proceeded to graduate studies in the Department of Physiology at University College London where he obtained his M.Sc. degree in 1971 under the supervision of John O'Keefe. His master's research project with O'Keefe led to the important discovery of 'place cells' in the hippocampus, and their seminal paper describing their findings has become a cornerstone in the field of spatial navigation and hippocampal function. Dr. Dostrovsky moved to Toronto where he obtained his PhD degree in the Zoology Dept. in 1974 for studies on pain processing in the spinal cord. Following 3-years of postdoctoral research in London on the somatosensory system with special emphasis on plasticity, with Pat Wall, he returned to the University of Toronto to take up a position in the Department of Physiology. He was promoted full professor in 1989 and is currently a Professor Emeritus in the Department of Physiology and Faculty of Dentistry.

Throughout his career Dr. Dostrovsky has made significant advances in our understanding of the neurophysiological basis of pain perception, somatosensory information processing, brain plasticity and basal-ganglia related movement disorders. A hallmark of these studies is the elegant combination of experiments executed in various animal models and in humans. For example, data from the Dostrovsky lab shed light on how thermal and noxious information is processed at the level of the thalamus in humans and in a rat model of allodynia. In a publication in *Nature*, Dr. Dostrovsky demonstrated how thalamic networks could contribute to phantom sensations in amputees. He also studied this question in animal models, where the plasticity of the sensory map in thalamic networks was demonstrated in rats after the removal of the hind-limb input. In a series of elegant studies he has unveiled the relationship between movement disorders and altered basal ganglia oscillatory activity. These studies have significantly contributed to our current understanding of central physiological mechanisms in the somatosensory and motor networks which underlie our perception of tactile, thermal and painful stimuli and the pathophysiological alterations that occur following certain traumatic or disease-induced injuries to the nervous system.

Dr. Dostrovsky was also very actively involved in neuroscience education at the University at the undergraduate, graduate and postdoctoral levels, and has served on many committees at all levels. In particular he served as Director of CPIN from 1993 to 2008, and as the President /Vice President of the Canadian Association for Neuroscience from 2003 to 2007.

Selection Criteria: The recipients of the awards will be selected by a committee appointed by the Collaborative Program in Neuroscience for this purpose. The committee will make their decision based on, but not limited to, the following criteria: intellect, originality and judgement, research skills, independent research potential, motivation, and progress in research towards their graduate degrees.

Results: All applicants will be notified of the results of the competition at the 2020 CPIN Research Day.

Event Organizers

Organizing Committee

Oliver Ernst
Zhong-Ping Feng (Chair, CPIN Director)
Jeffrey Henderson
Kang Lee
Iulia Park (CPIN Administrator)
Joe Steinman (Trainee Organizer)
Kaori Takehara-Nishiuchi
Madison Walker (Trainee Organizer)

Trainee Volunteers

Julia Bandura
Calaina Brooke
Teddy Cheung
Dipa Chatterjee
Jonathon Chio
Maame Darkwa
Sarah Eide
Annelies Hoorn
Taylor Irvine
Gerard Kim
Grace Li
Joe Steinman
Madison Walker

Trainee Presentations

Faculty Judges/Chair

Martin Beaulieu
Anne-Claude Bedard
Etay Hay
Jeffrey Henderson
Loren Martin
Kei Masani
Michael Reber
Douglas Tweed
Julien Muffat
Hong-Shuo Sun

Moderators/Co-Chair

Julia Bandura
Calaina Brooke
Dipa Chatterjee
Jonathon Chio
Sarah Eide
Annelies Hoorn
Taylor Irvine
Gerard Kim
Joe Steinman
Madison Walker

Invited Faculty Speakers

Gillian Einstein
Jeffrey Henderson
Shuzo Sugita

Special Acknowledgement

Reinhart Reithmeier
Jonathan Dostrovsky

Award Committee

Oliver Ernst
Zhong-Ping Feng
Jeffrey Henderson
Kang Lee
Hong-Shuo Sun
Douglas Tweed
Kaori Takehara-Nishiuchi

Program Design/Production

Calaina Brooke
Dipa Chatterjee
Zhong-Ping Feng
Iulia Park
Joe Steinman
Madison Walker

CPIN Participating Units | Academic/Executive Committees; Board of Directors

Applied Psychology and Human Development | Kang Lee; Earl Woodruff
Biochemistry | Angus McQuibban/Oliver Ernst; Justin Nodwell
Institute of Biomaterials & Biomedical Engineering | Warren Chan
Cell and Systems Biology | Les Buck/John Peever; Vincent Tropepe
Computer Science | Richard Zemel; Ravin Balakrishnan
Dalla Lana School of Public Health | Geoff Anderson; Adalsteinn Brown
Dentistry | Ze'ev Seltzer; 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; Thomas Kislinger
Music | Michael Thaut
Pharmaceutical Sciences | Jeffrey Henderson
Pharmacology | Amy Ramsey; Ruth Ross
Physiology | Doug Tweet; Scott Heximer
Physiology | Zhong-Ping Feng (CPN Director; Chair of Committees)
Psychology | Kaori Takehara-Nishiuchi; Morris Moscovitch
Rehabilitation Science Institute | Karl Zabjek; Angela Colantonio

TRAINEE PRESENTATIONS

1.

Mark Aquilino; Institute of Biomedical Engineering

Supervisor: Dr. Peter Carlen

Breakout Room: Neuropharmacology & Drug Development

PANX-1 POSSESSES PRO-CONVULSANT ACTION, MEDIATED THROUGH P2X7 AND P2Y1

Aquilino MS, 1,2; Ebrahim-Amini A, 1,2; Bardakjian BL, 2; Carlen PL, 1,2,3

1 Krembil Discovery, University Health Network; 2 Institute of Biomedical Engineering, University of Toronto; 3 Dept Medicine and Physiology, University of Toronto

2.

Roshanak Asgariroozbehani; Institute of Medical Science

Supervisor: Dr. Margaret Hahn

Breakout Room: Neuropharmacology & Drug Development

RESPIRATORY EXCHANGE RATIO IS REDUCED FOLLOWING TREATMENT WITH OLANZAPINE AND

INTRACEREBROVENTRICULAR INFUSION OF LEPTIN IN RATS

Asgariroozbehani R, 1,2; Singh, R 1; Caceres Valdiviezo M, 4; Pereira S, 1; Wu, S 1,2; Hahn MK, 1,2,3

1 Centre for Addiction and Mental Health; 2 Institute of Medical Science, University of Toronto; 3 Banting and Best Diabetes Centre; 4 University of Toronto

3.

Paria Baharikhoo; Institute of Medical Science

Supervisor: Dr. Nathan J Kolla

Breakout Room: Stress, Depression, & Mental Health

INVESTIGATING TRANSLOCATOR PROTEIN BINDING IN BORDERLINE PERSONALITY DISORDER WITH SERIOUS SELF-HARM BEHAVIOR: An [18F]-FEPPA POSITRON EMISSION TOMOGRAPHY STUDY

Baharikhoo P, 1,2; Mizrahi R, 1,2,3; Rusjan P, 1,2,3; Meyer JH, 1,2,3; Karas K, 2; Kolla NJ, 1,2,3

1 Institute of Medical Science, University of Toronto; 2 Centre for Addiction & Mental Health; 3 Department of Psychiatry, University of Toronto

4.

Kritleen Bawa; Department of Pharmacology and Toxicology

Supervisor: Dr. Krista Lanctot

Breakout Room: Aging, Dementias, & Neurodegenerative Disorders

NEUTROPHIL ACTIVATION IN ALZHEIMER'S DISEASE AND MILD COGNITIVE IMPAIRMENT: A SYSTEMATIC REVIEW AND META-ANALYSIS OF PROTEIN MARKERS IN BLOOD AND CEREBROSPINAL FLUID

Bawa KK 1,2; Wu CY 1,2; Ouk M 1,2; Leung N 1; Yu D 1,2; Lanctot KL 1,2,3,4,5; Herrmann N 2,3; Pakosh M 4; Swardfager W 1,2,4,5

1 Department of Pharmacology & Toxicology, University of Toronto; 2 Hurvitz Brain Sciences Program, Sunnybrook Research Institute; 3 Department of Psychiatry, Faculty of Medicine, University of Toronto; 4 KITE UHN Toronto Rehabilitation Institute; 5 Heart and Stroke Foundation Canadian Partnership for Stroke Recovery, Sunnybrook Research Institute

5.

Lauren Belfiore; Department of Laboratory Medicine and Pathobiology

Supervisor: Dr. Carol Schuurmans

Breakout Room: Brain Injury, Trauma, & Regenerative Neurobiology

A LINEAGE CONVERSION STRATEGY TO GENERATE 'REPAIR' SCHWANN CELLS FOR PERIPHERAL NERVE REPAIR

Belfiore L C*, 1,2; Balakrishnan A*, 1,3; Zinyk D, 1; Biernaskie J, 4; Schuurmans C, 1,2,3

1 Sunnybrook Research Institute, Biological Sciences, Toronto, Canada, 2 University of Toronto, Laboratory Medicine and Pathobiology, Toronto, Canada, 3 University of Toronto, Biochemistry, Toronto, Canada, 4 University of Calgary, Comparative Biology and Experimental Medicine, Calgary, Canada

6.

Teddy Cheung; Department of Psychology

Supervisor: Dr. Matthias Niemeier

Breakout Room: Developmental Neuroscience & Neurodevelopmental Disorders

RE-EXAMINING THE PSYCHOMETRIC PROPERTIES OF THE AUTISM SPECTRUM QUOTIENT SHORT FORM (AQ-10) TO SCREEN AUTISTIC TRAITS IN ADULTS

Cheung, TCK 1; Pereira, CF 1; Reza, TB 1; Niemeier, M 1,2

1 Department of Psychology, University of Toronto Scarborough; 2 Centre for Vision Research, York University

7.

Arely Cruz-Sanchez; Cell & Systems Biology/UTSC

Supervisor: Dr. Maithe Arruda-Carvalho

Breakout Room: Synaptic Plasticity, Learning & Memory, and Cognitive Neuroscience

DEVELOPMENTAL ONSET DISTINGUISHES THREE TYPES OF SPONTANEOUS RECOGNITION MEMORY IN MICE

Cruz-Sanchez A, 1,2; Dematagoda S, 1; Ahmed R, 1; Mohanathaas S, 1; Odenwald N, 1; Arruda-Carvalho M, 1,2

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

8.

Luke David; Department of Laboratory Medicine and Pathobiology

Supervisor: Dr. Carol Schuurmans

Breakout Room: Brain Health & Other Neurological Disorders

PTEN PREVENTS A G0-GALERT TRANSITION IN ADULT MULLER GLIA IN THE MURINE RETINA

David LA, 1,2; Touahri Y, 1; Hanna J, 1,2; Schuurmans C, 1,2

1 Biological Sciences Platform, Sunnybrook Research Institute, Toronto, Canada; 2 Department of Laboratory Medicine and Pathobiology, University of Toronto, Toronto, Canada

9.

Danielle DuPlessis; Rehabilitation Sciences Institute

Supervisor: Drs. Shannon Scratch and Elaine Biddiss

Breakout Room: Brain Injury, Trauma, & Regenerative Neurobiology

SIMULTANEOUS MULTI-DOMAIN ASSESSMENT OF CONCUSSION: A SCOPING REVIEW

DuPlessis D, 1,2; Lam E, 1,2,3; Xie L, 2; Reed N, 1; Wright V, 1,2; Biddiss E, 1,2,3; Scratch S, 1,2

1 Rehabilitation Sciences Institute, University of Toronto; 2 Bloorview Research Institute, Holland Bloorview Kids Rehabilitation Hospital; 3 Institute for Biomaterials and Biomedical Engineering, University of Toronto

10.
Azin Ebrahim Amini; Institute of Biomedical Engineering
Supervisor: Dr. Peter Carlen
Breakout Room: Cellular & Molecular Neuroscience
NEOCORTICAL IN VIVO FOCAL AND SPREADING POTASSIUM RESPONSES AND THE INFLUENCE OF ASTROCYTIC GAP JUNCTIONAL COUPLING
EbrahimAmini A, 1,2; Bazzigaluppi P, 1,3; Aquilino MS, 1,2; Stefanovic B, 3; Carlen PL, 1,2,4

11.
Aeen Ebrahim Amini; Department of Physiology
Supervisor: Dr. Graham Collingridge
Breakout Room: Cellular & Molecular Neuroscience
THE ROLE OF ENDOGENOUS CELLULAR PRION PROTEIN IN BRAIN SYNAPTIC FUNCTION
Ebrahim Amini A, 1,3; Georgiou J, 1; Taghibiglou C 2; Collingridge GL 1,3
1 Lunenfeld-Tanenbaum Research Institute, Mt. Sinai Hospital; 2 Department of Pharmacology, University of Saskatchewan; 3 Department of Physiology, University of Toronto

12.
Gavin Elias; Institute of Medical Science
Supervisor: Dr. Andres Lozano
Breakout Room: Stress, Depression, & Mental Health
ACUTE FUNCTIONAL BRAIN CHANGES ACCOMPANY SUBCALLOSAL CINGULATE DBS FOR DEPRESSION
Elias GJB, 1,2; Germann J, 1,2; Boutet A, 1,2,3; Loh A, 1,2; Lozano AM, 1,2
1 Division of Neurosurgery, Department of Surgery, University Health Network and University of Toronto, Toronto; 2 Krembil Research Institute, University of Toronto, Toronto; 3 Joint Department of Medical Imaging, University of Toronto, Toronto

13.
Rania Faidi; Institute of Medical Science
Supervisor: Dr. Aylin Reid
Breakout Room: Developmental Neuroscience & Neurodevelopmental Disorders
THE EFFECTS OF EARLY-LIFE INFLAMMATION ON SEIZURE DEVELOPMENT AND SPATIAL MEMORY IN NEUROFIBROMATOSIS TYPE 1
Faidi R,1,2; Wu C,2; Liu J, 2; Yang MD,2; Reid AY,1,2
1 Institute of Medical Science, University of Toronto; 2 Krembil Research Institute, University Health Network

14.
Andreea Furdui; Institute of Medical Science
Supervisor: Dr. Gaspard Montandon
Breakout Room: Cellular & Molecular Neuroscience
NEURAL CIRCUITS MEDIATING OPIOID-INDUCED RESPIRATORY DEPRESSION
Furdui A, 1; Scarpellini C, 2; Montandon G, 3

1 Institute of Medical Science, University of Toronto; 2 Keenan Research Centre for Biomedical Science, St. Michael's Hospital; 3 Division of Respiriology, Department of Medicine, University of Toronto

15.
Kimia Ghannad-Zadeh; Institute of Medical Science
Supervisor: Dr. Sunit Das
Breakout Room: Brain Health & Other Neurological Disorders
ID1 AS A MEDIATOR OF ONE-CARBON MEDIATED PURINE SYNTHESIS IN GLIOBLASTOMA
Ghannad-Zadeh K, 1,2; Wu M, 1; Wilson T, 1,2; Flick R, 3; Das S, 1,2,4.
1 The Arthur and Sonia Labatt Brain Tumor Research Center, Hospital for Sick Children, Toronto; 2 Institute of Medical Science, University of Toronto, Toronto; 3 Department of Chemical Engineering and Applied Chemistry, University of Toronto, Toronto; 4 Division of Neurosurgery, University of Toronto, Toronto.

16.
Avideh Gharehgzlou; Institute of Medical Science
Supervisor: Dr. Evdokia Anagnostou
Breakout Room: Developmental Neuroscience & Neurodevelopmental Disorders
CORTICAL GYRIFICATION MORPHOLOGY IN INDIVIDUALS WITH ASD AND ADHD ACROSS THE LIFESPAN: A SYSTEMATIC REVIEW AND META-ANALYSIS
Gharehgzlou A, 1,2; Freitas C, 1,2; Ameis SH, 6,7,8; Taylor MJ, 2,4,5,6; Lerch JP, 6,9,10; Radua J, 11,12,13; Anagnostou E, 1,2,3,6
1 Bloorview Research Institute, Holland Bloorview Kids Rehabilitation Hospital; 2 Institute of Medical Science, Faculty of Medicine, University of Toronto; 3 Department of Pediatrics, University of Toronto; 4 Diagnostic Imaging, The Hospital for Sick Children; 5 Department of Medical Imaging, University of Toronto; 6 Neuroscience & Mental Health Program, Hospital for Sick Children Research Institute; 7 The Margaret and Wallace McCain Centre for Child, Youth, & Family Mental Health, Campbell Family Mental Health Research Institute, The Centre for Addiction and Mental Health; 8 Department of Psychiatry, University of Toronto; 9 Department of Medical Biophysics, University of Toronto; 10 Wellcome Centre for Integrative Neuroimaging, FMRIB, Nuffield Department of Clinical Neuroscience, University of Oxford; 11 Imaging Mood- and Anxiety-Related Disorders (IMARD) group, Institut d'Investigacions Biomèdiques August Pi i Sunyer (IDIBAPS), Mental Health Research Networking Center (CIBERSAM); 12 Centre for Psychiatric Research and Education, Department of Clinical Neuroscience, Karolinska Institute; 13 Early Psychosis: Interventions and Clinical-detection (EPIC) lab, Department of Psychosis Studies, Institute of Psychiatry, Psychology and Neuroscience, King's College London

17.
Ali Golbabaee; Institute of Medical Science
Supervisor: Dr. Paul Frankland
Breakout Room: Synaptic Plasticity, Learning & Memory, and Cognitive Neuroscience
THE ROLE OF MPFC PROJECTING SUB-POPULATIONS IN RECENT AND REMOTE EXPRESSION OF MEMORIES
Golbabaee A, 1,2; Josselyn SA, 1; Frankland PW, 1
1 Hospital for Sick Children, Toronto, Canada; 2 University of Toronto, Toronto, Canada

18.

Sarah Gregor; Rehabilitation Sciences Institute
Supervisor: Dr. Kara Patterson
Breakout Room: Neural Circuitry, Networks, & Computational Neuroscience
STUDY PARADIGMS AND PRINCIPLES INVESTIGATED IN MOTOR LEARNING RESEARCH AFTER STROKE: A SCOPING REVIEW
Gregor S, 1,2; Saumur TM, 1,2; Crosby LD, 1,2; Powers J, 1,2; Patterson KK, 1,2,3
1 KITE-Toronto Rehabilitation Institute - University Health Network, Toronto, Canada; 2 Rehabilitation Sciences Institute - University of Toronto, Toronto, Canada; 3 Department of Physical Therapy - University of Toronto, Toronto, Canada

19.
Nancy Hamdy; Department of Physiology
Supervisor: Dr. Zhong-Ping Feng
Breakout Room: Developmental Neuroscience & Neurodevelopmental Disorders
ANIMAL MODELS FOR NEONATAL BRAIN INJURY INDUCED BY HYPOXIC ISCHEMIC CONDITIONS IN RODENTS
Hamdy,N, 1; Eide S, 1; Sun HS, 1, 2; Feng ZP, 1
1 Department of Physiology, Faculty of Medicine, University of Toronto; 2 Department of Surgery, Faculty of Medicine, University of Toronto

20.
Amir Hamzeh; Institute of Medical Science
Supervisor: Dr. Anurag Tandon
Breakout Room: Aging, Dementias, & Neurodegenerative Disorders
THE ROLE OF EXOSOMES IN SPREADING SYNUCLEINOPATHIES
Hamzeh A, 1; Armstrong S, 1; Menon S, 1; Tandon A, 1,2
1 Tanz Centre for Research in Neurodegenerative Diseases, Toronto, Ontario, Canada; 2 Department of Medicine, University of Toronto, Toronto, Ontario, Canada

21.
Sarah Hui; Department of Laboratory Medicine and Pathobiology; Krembil Research Institute
Supervisor: Dr. Suneil Kalia
Breakout Room: Cellular & Molecular Neuroscience
INVESTIGATION THE ROLE OF CHIP PHOSPHORYLATION BY GSK3- β IN MODELS OF MITOCHONDRIAL DYSFUNCTION
Hui S
LMP, University of Toronto; Krembil, UHN

22.
Ahmad Ribal Israwi; Cell Systems & Biology
Supervisor: Dr. Joanne E Nash
Breakout Room: Brain Health & Other Neurological Disorders
UNDERSTANDING THE ROLE OF TRPV4 IN THE BRAIN IN HEALTH AND DISEASE
Israwi AR 1,2; Trinh D 1,2; Nash JE 1,2
1 Department of Cell and Systems Biology, University of Toronto, Toronto, Canada; 2 Department of Biological Sciences, University of Toronto Scarborough, Toronto, Canada

23.
Yasaman Javadzadeh; Institute of Biomedical Engineering
Supervisor: Dr. Peter Carlen
Breakout Room: Neuropharmacology & Drug Development

ELECTROPHYSIOLOGICAL STUDIES OF THE EFFECT OF MEDICAL CANNABINOIDS ON EPILEPTIFORM ACTIVITY
Javadzadeh YJ, 1,2; Mylvaganam SM, 1,2; Grant JG, 3; Ali AA, 3; Carlen PL, 1,2
1 Institute of Biomedical Engineering, University of Toronto; 2 Krembil Research Institute, University Health Network, Toronto; 3 Avicanna, Toronto

24.
Hope Jervis Rademeyer; Rehabilitation Sciences Institute
Supervisor: Dr. Kristin E. Musselman
Breakout Room: Neural Circuitry, Networks, & Computational Neuroscience
AN OVERVIEW OF EPIDURAL STIMULATION AND CURRENT EVIDENCE IN SPINAL CORD REHABILITATION
Jervis Rademeyer H, 1,2; Gauthier C, 2; Masani K, 2,3; Pakosh M, 2; Musselman KE, 1,2,4
1 Rehabilitation Sciences Institute, University of Toronto; 2 KITE Research Institute-Toronto Rehab-University Health Network; 3 Institute of Biomaterials and Biomedical Engineering, University of Toronto; 4 Department of Physical Therapy, University of Toronto

25.
Naotsugu Kaneko; Institute of Biomedical Engineering, University of Toronto
Supervisor: Dr. Kei Masani
Breakout Room: Neural Circuitry, Networks, & Computational Neuroscience
CHARACTERISTICS OF THE RESPONSE INDUCED BY MOTOR POINT STIMULATION
Kaneko N, 1,2,3,4; Fok KL, 1,2; Nakazawa K, 3; Masani K, 1,2
1 Institute of Biomedical Engineering, University of Toronto; 2 KITE, Toronto Rehabilitation Institute – University Health Network; 3 Department of Life Sciences, Graduate School of Arts and Sciences, The University of Tokyo; 4 Japan Society for the Promotion of Science

26.
Kyurim Kang; Faculty of Music
Supervisor: Dr. Michael Thaut
Breakout Room: Developmental Neuroscience & Neurodevelopmental Disorders
SIMULTANEOUS EEG MEASUREMENTS IN CHILD WITH DISABILITIES, THEIR PARENT, AND NEUROLOGICAL MUSIC THERAPIST
Kang K, 1,2; Orlandi S, 2; Lorenzen N, 3; Chau T, 2,4; Thaut M.H, 1
1 Music and Health Science Research Collaboratory (MaHRC), Faculty of Music, University of Toronto; 2 Holland Kid Rehabilitation Hospital; 3 School of Engineering, University of Guelph; 4 Institute of Biomedical Engineering, University of Toronto

27.
Jiwon Lee; Institute of Medical Science
Supervisor: Dr. Margaret Hahn
Breakout Room: Neuropharmacology & Drug Development
TOPIRAMATE IN TREATMENT REFRACTORY PSYCHOTIC ILLNESS: EFFECTS ON WEIGHT GAIN AND PSYCHOPATHOLOGY
Lee J 1,2; Agarwal SM 1,2,3; Remington G 1,2,3; Graff A 1,2,3; Cohn T 1,3,4; Leung G 2,5,6; Hahn MK 1,2,3
1 Centre for Addiction and Mental Health; 2 Institute of Medical Science, University of Toronto; 3 Department of Psychiatry, University of Toronto; 4 Department of Nutritional Sciences, University of Toronto;

5 St. Michael's Hospital; 6 Department of Medical Imaging, University of Toronto

28.
Kai Ian Leung; Rehabilitation Sciences Institute
Supervisor: Dr. Monika Molnar
Breakout Room: Synaptic Plasticity, Learning & Memory, and Cognitive Neuroscience
EFFECT OF BILINGUAL EXPOSURE ON LANGUAGE AND COGNITIVE RECOVERY IN CHILDREN POST-STROKE
Leung KI, 1,2; Dlamini N, 3; Westmacott R, 4; Molnar M, 1,2
1 Department of Speech-Language Pathology, University of Toronto; 2 Rehabilitation Sciences Institute, Faculty of Medicine, University of Toronto; 3 Division of Neurology, The Hospital for Sick Children, Toronto, Canada; 4 Department of Psychology, The Hospital for Sick Children, Toronto, Canada

29.
Lilian Lin; Laboratory Medicine and Pathobiology
Supervisor: Dr. Janice Robertson
Breakout Room: Aging, Dementias, & Neurodegenerative Disorders
EFFECTS OF C9ORF72 HAPLOINSUFFICIENCY ON TDP-43 PATHOLOGY IN ALS
Lin, LTW, 1,2; McGoldrick, P, 1,2; Shenouda, M, 1,2; Lau, A, 1,2; Robertson J, 1, 2
1 Department of Laboratory Medicine and Pathobiology, University of Toronto; 2 Tanz Centre for Research in Neurodegenerative Diseases

30.
Jordan Mak; Physiology
Supervisor: Dr. Anne Wheeler
Breakout Room: Synaptic Plasticity, Learning & Memory, and Cognitive Neuroscience
THE IMPACT OF COGNITIVE & PHYSICAL ENRICHMENT ON CONTEXTUAL FEAR MEMORY RETENTION
Mak J, 1,2; Gazdzinski LM, 1; Wheeler AL, 1,2
1 Neuroscience & Mental Health, Hospital for Sick Children Research Institute; 2 Department of Physiology, University of Toronto

31.
Michael Martin; Cell & Systems Biology
Supervisor: Dr. Tod Thiele
Breakout Room: Brain Health & Other Neurological Disorders
INVESTIGATION OF PERIAQUEDUCTAL GRAY CIRCUITRY IN LARVAL ZEBRAFISH
Martin M, 1,2; Guerguiev J, 1,2; Krishna S. V, 2; Thiele T, 1,2
1 Biological Sciences, University of Toronto Scarborough; 2 Cell & Systems Biology, University of Toronto

32.
Frank Mazza; Physiology
Supervisor: Dr. Etay Hay
Breakout Room: Stress, Depression, & Mental Health
IDENTIFYING EEG BIOMARKERS OF REDUCED SST INHIBITION IN CORTICAL MICROCIRCUITS OF DEPRESSION
Mazza F 1,2; Griffiths G 1,3; Hay E 1,2
1 Krembil Centre for Neuroinformatics, 2 Department of Physiology, 3 Institute of Medical Sciences

33.
Mina Mirjalili; Institute of Medical Science
Supervisor: Dr. Tarek Rajji
Breakout Room: Synaptic Plasticity, Learning & Memory, and Cognitive Neuroscience
ANTICIPATORY PARIETAL ALPHA DESYNCHRONIZATION AND WORKING MEMORY PERFORMANCE AND CAPACITY
Mirjalili M 1,3; Zomorodi R 1; Daskalakis ZJ 2; Hill S 1,3,4; Rajji TK 1,3,4
1 Centre for Addiction and Mental Health; 2 Department of Psychiatry, School of Medicine, University of California San Diego Health; 3 Institute of Medical Science, University of Toronto; 4 Department of Psychiatry, University of Toronto

34.
Kelly Mo; Institute of Medical Science
Supervisor: Drs. Meng-Chuan Lai and Mark Palmert
Breakout Room: Developmental Neuroscience & Neurodevelopmental Disorders
GENDER VARIANCE IN NEURODIVERGENT CHILDREN
Mo K 1,2,3; Palmert M 1,2; Lai M-C 1,2,3
1 University of Toronto; 2 The Hospital for Sick Children; 3 Centre for Addiction & Mental Health

35.
Daniel Mori-Fegan; Department of Pharmacology and Biomedical Toxicology
Supervisor: Dr. Ruth Ross
Breakout Room: Neuropharmacology & Drug Development
THE GPR55 RECEPTOR: PROFILE OF A MOLECULAR TARGET FOR PHYTOCANNABINOIDS IN THE CANNABINOID SYSTEM
Mori-Fegan, DK, 1; Sugamori, KS, 1; Mielnik, CA, 1; Ross, RA, 1,2.
1 Pharmacology and Biomedical Toxicology, University of Toronto; 2 Campbell Family Mental Health Research Institute, Centre for Addiction and Mental Health, Toronto, Ontario, Canada

36.
Simar Moussaoui; Psychology
Supervisor: Dr. Matthias Niemeier
Breakout Room: Synaptic Plasticity, Learning & Memory, and Cognitive Neuroscience
VISUAL FIELD EFFECTS IN WORKING MEMORY IN ACTION: NEGLECT-LIKE DEFICIT IN MEMORY ACROSS SACCADES
Moussaoui S 1; Pereria CF 1; Niemeier M 1,2
1 University of Toronto Scarborough; 2 Center for Vision Research, York University

37.
Roseanne Nguyen; Molecular Genetics
Supervisor: Dr. Julien Muffat
Breakout Room: Neuropharmacology & Drug Development
MODELLING THE NEUROINFLAMMATORY CASCADE IN CEREBRAL ADRENOLEUKODYSTROPHY USING PATIENT-DERIVED CO-CULTURES
Nguyen R, 1,2; Tlan A, 1,2; Stout E, 1,2; Millar D, 1,2; Sun F, 1,2; Torres-Perez M, 1,2; Li Y, 1,3; Muffat J, 1,2
1 Program in Neurosciences and Mental Health, The Hospital for Sick Children; 2 Department of Molecular Genetics, University of Toronto; 3 Program in Developmental and Stem Cell Biology, The Hospital for Sick Children

38.
Eman Nishat; Department of Physiology
Supervisor: Dr. Anne Wheeler
Breakout Room: Brain Injury, Trauma, & Regenerative Neurobiology
MYELIN SENSITIVE MAGNETIC RESONANCE IMAGING IN MILD TRAUMATIC BRAIN INJURIES
Nishat E 1,2; Wheeler AL 1,2; Ameis SH 2,3,4
1 Department of Physiology, Faculty of Medicine, University of Toronto; 2 Neuroscience and Mental Health, The Hospital for Sick Children; 3 Department of Psychiatry, Faculty of Medicine, University of Toronto; 4 Cundill Centre for Child and Youth Depression, Margaret and Wallace McCain Centre for Child, Youth and Family Mental Health, Centre for Addiction and Mental Health

39.
Ana-Maria Oproescu
Supervisor: Dr. Carol Schuurmans
Breakout Room: Cellular & Molecular Neuroscience
EXPLORING THE COMBINATORIAL FUNCTIONS OF PRONEURAL GENES NEUROG1 AND NEUROG2 IN NEOCORTICAL STEM CELL MAINTENANCE
Oproescu AM, 1,2; Han S, 1,3; Zinyk D, 1; Schuurmans C, 1,2,3
1 Sunnybrook Research Institute; 2 Department of Laboratory Medicine and Pathobiology, University of Toronto; 3 Department of Biochemistry, University of Toronto

40.
Adetunji Oremakinde; Institute of Medical Science
Supervisor: Dr. Tarek Rajji
Breakout Room: Synaptic Plasticity, Learning & Memory, and Cognitive Neuroscience
WORKING MEMORY MEDIATES THE ASSOCIATION BETWEEN DORSOLATERAL PREFRONTAL CORTEX PLASTICITY AND GLOBAL COGNITION IN ALZHEIMER'S DEMENTIA AND HEALTHY COMPARISON INDIVIDUALS
Oremakinde AA, 1; Kumar S, 1,2; Desarkar P, 1, 2; Zomorodi P,1; Goodman MS, 1; Blumberger DB,1, 2; Fischer CE,2, 3; Daskalakis, ZJ, 1, 2; Pollock BG,1, 2; Mulsant BH, 1, 2; Rajji TK,1, 2
1 Centre for Addiction and Mental Health and, Campbell Family Research Institute, Toronto, ON, Canada; 2 Department of Psychiatry, University of Toronto, Toronto, ON, Canada; 3 Keenan Research Centre for Biomedical Research, the Li Ka Shing Knowledge Institute, St. Michael's Hospital, Toronto, ON, Canada

41.
Lee Phan; Medical Science
Supervisor: Dr. Elizabeth Pang
Breakout Room: Developmental Neuroscience & Neurodevelopmental Disorders
SEMANTIC PROCESSING IMPAIRMENTS IN CHILDREN WITH ASD: ABNORMALITIES OF THE N400 NEURAL STRENGTH AND TIMING
Phan L 1,2; Pang E 1,2
1 Medical Science University of Toronto; 2 Neuroscience and Mental Health, SickKids Research Institute / Hospital for Sick Children

42.
Susan Ping; Department of Laboratory Medicine and Pathobiology
Supervisor: Dr. Suneil Kalia

Breakout Room: Aging, Dementias, & Neurodegenerative Disorders
CHARACTERIZATION OF SEX DIFFERENCES IN AAV-A53T ALPHA-SYNUCLEIN RAT MODEL OF PARKINSON'S DISEASE
Ping S, 1,2; Kapadia M, 1; Kalia L, 1,2; Kalia S, 1,2
1 Krembil Research Institute, Toronto Western Hospital, University Health Network; 2 Department of Laboratory Medicine and Pathobiology, University of Toronto

43.
Mohsen Poorganji; Institute of Medical Science
Supervisor: Drs. Daniel Blumberger and Jeff Daskalakis
Breakout Room: Neural Circuitry, Networks, & Computational Neuroscience
DISTINGUISHING NEUROPHYSIOLOGICAL RESPONSES OF ACTIVE AND SHAM TMS VIA SINGLE PULSE AND PAIRED PULSE PROTOCOLS
Poorganji M, 1,2; Zomorodi R, 1; Hawco C, 1,2,3; Hill AT, 1,4; Hadas I, 7; Rajji TK, 1,2,3; Chen R, 2,5,6; Voineskos D, 1,2,3; Daskalakis AA, 1; Blumberger DM, 1,2,3; Daskalakis ZJ, 1,2,3,7
1 Centre for Addiction and Mental Health; 2 Institute of Medical Science, University of Toronto; 3 Department of Psychiatry, University of Toronto; 4 Cognitive Neuroscience Unit, School of Psychology, Deakin University; 5 Krembil Neuroscience Centre, University Health Network; 6 Division of Neurology, Department of Medicine, Department of Medicine; 7 Department of Psychiatry, Faculty of Health, University of California San Diego

44.
Sandra Poulson; Psychology
Supervisor: Dr. Loren Martin
Breakout Room: Brain Health & Other Neurological Disorders
PREFRONTAL ACTIVITY DURING PAIN EXPERIENCE AND OBSERVING SOCIAL PARTNER PAIN EXPRESSIONS IN MICE
Poulson SJ, 1; Arain, IA, 1; Motlana, K, 1; Martin, LJ, 1,2
1 Behavioral Neuroscience, Psychology Department, University of Toronto Mississauga; 2 Cell & Systems Biology, University of Toronto

45.
Tian Renton; Rehabilitation Sciences Institute
Supervisor: Dr. Sidney Kennedy
Breakout Room: Brain Injury, Trauma, & Regenerative Neurobiology
CAN YOU COPE? EXPLORING YOUNG ATHLETES' COGNITIVE COPING RESPONSE TO A HYPOTHETICAL CONCUSSION.
Renton T, 1
1 Rehabilitation Sciences Institute, University of Toronto

46.
Cricia Rinchon; Institute of Medical Science
Supervisor: Dr. Robert Chen
Breakout Room: Brain Injury, Trauma, & Regenerative Neurobiology
INVESTIGATING DEPOTENTIATION IN FOCAL HAND DYSTONIA
Rinchon C 1,2; Gunraj C 2; Phielipp N 3; Udupa K 4; Drummond NM 2; Chen R 1,2
1 Institute of Medical Science, University of Toronto, Ontario, Canada; 2 Krembil Research Institute, University Health Network, Ontario, Canada; 3 Department of Neurology, University of California, Irvine, California, USA; 4 Department of Neurophysiology, National Institute of Mental Health and Neurosciences, Bangalore, India

47.
Leanne Rokos; Institute of Medical Science
Supervisor: Dr. Randy McIntosh
Breakout Room: Neural Circuitry, Networks, & Computational Neuroscience
MODELING BRAIN NETWORK DYNAMICS IN EARLY DEVELOPMENT WITH THE VIRTUAL BRAIN
Rokos L, 1,2; Wang Z, 2; Shen K, 2; McIntosh AR, 1,2,3
1 Institute of Medical Science, University of Toronto; 2 Rotman Research Institute, Baycrest Hospital; 3 Department of Psychology, University of Toronto

48.
Afifa Saleem; Institute of Biomedical Engineering
Supervisor: Dr. Peter Carlen
Breakout Room: Neuropharmacology & Drug Development
EPILEPSY IN A DISH: INVESTIGATION OF HUMAN CEREBRAL ORGANOIDS AS AN ENHANCED PLATFORM FOR EPILEPSY MODELLING AND DRUG DISCOVERY
A. Saleem 1,2; M. Aquilino 1,2; A. Santos 1,2; D. Steinberg 3; R. Hilborn 1; S. Mylvaganam 2; S. Repudi 3; J. Hanna 4; R. Aqeilan 3,4,5; L. Attisano 1; P. Carlen 1,2,6
1 Institute of Biomedical Engineering, University of Toronto; 2 Krembil Research Institute, University Health Network; 3 Faculty of Medicine, The Lautenberg Center for Immunology and Cancer Research, Institute for Medical Research, Israel-Canada (IMRIC); 4 Department of Molecular Genetics, Rehovot Weizmann Institute of Science; 5 Department of Cancer Biology & Genetics, Ohio State University Wexner Medical Center; 6 Department of Medicine and Physiology, University of Toronto

49.
Julie Sato; Psychology
Supervisor: Dr. Margot J. Taylor
Breakout Room: Brain Health & Other Neurological Disorders
ALTERED FUNCTIONAL CONNECTIVITY DURING EMOTIONAL FACE PROCESSING IN CHILDREN BORN VERY LOW BIRTH WEIGHT
Sato J, 1,2,3; Safar K, 1,3; Vandewouw MM, 1,3,4,5; Bando N, 6; O'Connor DLO, 6,7,9; Unger SL, 7,8,9,10; Taylor MJ, 1,2,3,8,11
1 Diagnostic Imaging, SickKids Hospital; 2 Psychology, University of Toronto; 3 Neurosciences & Mental Health, SickKids Hospital; 4 Autism Research Centre, Holland Bloorview Kids Rehabilitation Hospital; 5 Institute of Biomedical Engineering, University of Toronto; 6 Translational Medicine, SickKids Hospital; 7 Nutritional Sciences, University of Toronto; 8 Paediatrics, University of Toronto; 10 Division of Neonatology, SickKids Hospital; 11 Medical Imaging, University of Toronto

50.
Marc Shenouda; Department of Laboratory Medicine and Pathobiology
Supervisor: Dr. Janice Robertson
Breakout Room: Aging, Dementias, & Neurodegenerative Disorders
IDENTIFICATION AND VALIDATION OF SMALL MOLECULES PREVENTING TDP-43 AGGREGATION AS THERAPEUTICS FOR AMYOTROPHIC LATERAL SCLEROSIS
Shenouda M, 1,2; Mancini RS, 3; Hadley KC, 4; Reed M, 5; Barden C, 5; Chakrabarty A, 4,6,7; Weaver DF, 3,8,9; Robertson J, 1

1 Tanz Centre for Research in Neurodegenerative Diseases, UofT; 2 Department of Laboratory Medicine and Pathobiology, UofT; 3 Department of Fundamental Neurobiology, Krembil Research Institute, UHN; 4 Princess Margaret Cancer Centre, UHN; 5 Treventis Corporation, Toronto, ON, Canada; 6 Department of Medical Biophysics, Princess Margaret Cancer Centre, UofT; 7 Department of Biochemistry, UofT; 8 Department of Chemistry, UofT; 9 Department of Medicine, UofT

51.
Josh Shore; Rehabilitation Sciences Institute
Supervisor: Dr. Nick Reed
Breakout Room: Brain Injury, Trauma, & Regenerative Neurobiology
REMODELING DELIVERED ACTIVE REHABILITATION IN YOUTH WITH CONCUSSION: A PROTOCOL
Shore, J, 1; Wilson, K, 2; Nalder, E, 1, 3; Hutchison, M, 4; Reed, N, 1, 2, 3; Hunt, A, 1, 2, 3
1 Rehabilitation Sciences Institute, University of Toronto; 2 Bloorview Research Institute, Holland Bloorview Kids Rehabilitation Hospital; 3 Department of Occupational Science & Occupational Therapy, University of Toronto; 4 Faculty of Kinesiology & Physical Education, University of Toronto

52.
Rosa Sommer; Institute of Medical Science
Supervisor: Drs. Andrew Lim & Sandra Black
Breakout Room: Aging, Dementias, & Neurodegenerative Disorders
DISRUPTED REST-ACTIVITY RHYTHMS AND CEREBRAL SMALL VESSEL DISEASE PATHOLOGY IN OLDER ADULTS
Sommer R, 1; Yu L, 2; Schneider JA 2,3; Bennett DA, 2; Buchman AS, 2; Lim ASP, 1
1 Division of Neurology, Department of Medicine, Sunnybrook Health Sciences Centre, University of Toronto, Ontario, Canada.; 2 Rush Alzheimer Disease Center, Rush University, Chicago, Illinois; 3 Department of Pathology, Rush University, Chicago, Illinois

53.
Nicolette Stogios; Institute of Medical Science
Supervisor: Drs. Margaret Hahn & Mahavir Agarwal
Breakout Room: Stress, Depression, & Mental Health
TOPIRAMATE IN TREATMENT REFRACTORY PSYCHOTIC ILLNESS: EFFECTS ON COGNITION AND STRUCTURAL BRAIN CHANGES
Stogios N 1, Agarwal SM 1, Hahn M 1
1 Centre for Addiction and Mental Health, University of Toronto

54.
Ai Tian; Neuroscience and Mental Health
Supervisor: Dr. Julian Muffat
Breakout Room: Cellular & Molecular Neuroscience
NOVEL ENGINEERED MULTI-LINEAGE ASSEMBLOIDS TO INVESTIGATE THE RECIPROCAL EFFECTS OF MICROGLIA BRAIN INTEGRATION ON HUMAN MICROGLIAL AND BRAIN DEVELOPMENT
Tian A, 1,2; Bhattacharya A, 1,2,3; Stout E, 1,2; Millar D, 1,2; Sun F, 1,2; Torres-Perez M, 1,2; Nguyen R, 1,2; Toma J, 1,2; Choi W, 1,3; Li Y, 1,3; Muffat J, 1,2
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55.

Stephanie Tran; Krembil Research Institute

Supervisor: Dr. Robert Chen

Breakout Room: Neural Circuitry, Networks, & Computational Neuroscience

EFFECTS OF INTERMITTENT THETA BURST STIMULATION OF THE PRIMARY SOMATOSENSORY CORTEX ON MOTOR EXCITABILITY AND CORTICAL CIRCUITS

Tran S, 1,2; Gunraj CA, 1; Nankoo JF, 1; Drummond N, 1; Rinchon C, 1,2; Chen R, 1

1 Krembil Research Institute, University Health Network; 2 Institute of Medical Science, University of Toronto

56.

Pascale Tsai; Krembil Research Institute

Supervisor: Dr. Mojgan Hodaie

Breakout Room: Brain Injury, Trauma, & Regenerative Neurobiology

STRUCTURAL AND CONNECTIVITY ANALYSIS IN ACOUSTIC NEUROMA PATIENTS

Tsai PM, 1,2; Hodaie M, 1,2,3

1 Division of Brain, Imaging and Behaviour, Systems Neuroscience, Krembil Brain Institute, University Health Network, Toronto, ON, Canada; 2 Department of Surgery, Institute of Medical Science, University of Toronto, Toronto, ON, Canada; 3 Division of Neurosurgery, Department of Surgery, Toronto Western Hospital, University Health Network, University of Toronto, Toronto, ON, Canada

57.

Gaqi Tu; Psychology

Supervisor: Dr. Kaori Takehara

Breakout Room: Neural Circuitry, Networks, & Computational Neuroscience

PHASIC CHOLINERGIC SIGNALING CONSTRAINS PREFRONTAL ENCODING OF AMBIGUOUS STIMULUS ASSOCIATIONS

Tu G 1,2; Halawa A 3; Gillman S 1,3; Yu XT 4; Takehara K 1,2,4

1 Department of Psychology, University of Toronto; 2 Collaborative program in Neuroscience, University of Toronto; 3 Human Biology Program, University of Toronto; 4 Department of Cell and Systems Biology, University of Toronto

58.

Lakshmy Vasan; Laboratory Medicine & Pathobiology

Supervisor: Dr. Carol Schuurmans

Breakout Room: Cellular & Molecular Neuroscience

INVESTIGATING THE ROLE OF ASCL1 MRNA STABILIZATION IN NEURAL STEM CELL FATE DECISIONS

Vasan L 1,2; Han S 1,3; Kageyama R 4; Schuurmans C 1,2,3

1 Sunnybrook Research Institute, Biological Sciences Platform, Toronto, Ontario, Canada; 2 Department of Laboratory Medicine and Pathobiology, University of Toronto, Toronto, ON, Canada; 3 Department of Biochemistry, University of Toronto, Toronto, Ontario, Canada; 4 Institute for Frontier Life and Medical Sciences, Kyoto University

59.

Anna Vasilevskaya; Institute of Medical Science

Supervisor: Dr. Carmela Tartaglia

Breakout Room: Brain Health & Other Neurological Disorders

PET TAU IMAGING AND MOTOR IMPAIRMENTS DIFFER BETWEEN CORTICOBASAL SYNDROME AND PROGRESSIVE SUPRANUCLEAR PALSY WITH AND WITHOUT ALZHEIMER'S DISEASE BIOMARKERS

Vasilevskaya A 1,2; Taghdiri F 2; Multani N 2,3; Anor C 2,3; Misquitta K 2,3; Houle S 4; Burke C 5; Tang-Wai D 3; Lang AE 6; Fox S 6; Slow E 6; Rusjan P 4; Tartaglia MC 2,3

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60.

RuoDing Wang; Pharmacology & Toxicology

Supervisor: Dr. Krista Lanctôt

Breakout Room: Synaptic Plasticity, Learning & Memory, and Cognitive Neuroscience

RELATIONSHIP BETWEEN HOMOCYSTEINE, COGNITION, AND OXIDATIVE STRESS IN MILD COGNITIVE IMPAIRMENT

Wang R 1, 2; Herrmann N 2,3; Gallagher D 2,3; Black SE 2; Ramirez J 2; Graham SJ 2,4; Wei P 4; Oh PI 5; Andreatza AC 1,3; Kiss A 2,6; Swardfager W 1,2; Lanctôt KL 1,2,3

1 Department of Pharmacology & Toxicology, University of Toronto; 2 Evaluative Clinical Sciences, Hurvitz Brain Sciences Program; 3 Department of Psychiatry, University of Toronto; 4 Physical Sciences, Sunnybrook Research Institute; 5 Toronto Rehabilitation Institute, University Health Network; 6 Clinical Epidemiology, Sunnybrook Health Sciences Centre

61.

Shijing Wang; Institute of Medical Science

Supervisor: Dr. Sakina Rizvi

Breakout Room: Stress, Depression, & Mental Health

IDENTIFYING THE RESTING STATE NEURAL PREDICTORS OF SUICIDE RISK – A FOCUS ON PAIN PROCESSING

Wang S, 1,2; Rizvi SJ, 1,2,3

1 Arthur Sommer Rotenberg Suicide and Depression Studies Program, St. Michael's Hospital; 2 Institute of Medical Science, University of Toronto; 3 Department of Psychiatry, University of Toronto

62.

Rebecca Wu; Institute of Medical Science

Supervisor: Dr. Andrew Lim

Breakout Room: Aging, Dementias, & Neurodegenerative Disorders

IMPACT OF SEASON ON DISABILITY AND RELATED MEASURES IN OLDER ADULTS: A CROSS-SECTIONAL OBSERVATIONAL STUDY

Wu R 1; Sohail S 1; Dawe R 2,3; Yu L 2,3; Bennett DA 2,3; Buchman AS 2,3; Lim ASP 1

1 Department of Medicine, Hurvitz Brain Sciences Program, Sunnybrook Health Sciences Centre, University of Toronto; 2 Rush Alzheimer Disease Center, Rush University Medical Center; 3 Department of Neurological Sciences, Rush University

63.

Chengye Yang; Physiology

Supervisor: Dr. Lu-Yang Wang

Breakout Room: Cellular & Molecular Neuroscience

INVESTIGATING THE CENTRAL NERVOUS SYSTEM
EXPRESSION OF THE CARDIAC VOLTAGE-GATED SODIUM
CHANNEL SCN5A

Chengye Yang 1,2; Jason Arsenault 2; Asim Rashid 2; Jason Maynes
3,4; Sheena Josselyn 1,2; Lu-Yang Wang 1,2

*1 Department of Physiology, University of Toronto; 2 Neuroscience &
Mental Health, SickKids Research Institute; 3 Department of
Biochemistry, University of Toronto; 4 Molecular Medicine, SickKids
Research Institute*

64.

Heng Kang Yao; Physiology

Supervisor: Dr. Etay Hay

Breakout Room: Stress, Depression, & Mental Health

IMPLICATIONS OF REDUCED SOMATOSTATIN INTERNEURON
INHIBITION IN DEPRESSION ON HUMAN CORTICAL
MICROCIRCUIT ACTIVITY

Heng Kang Yao 1,2; Alexandre Guet-McCreight 1; Etay Hay 1,2,3

*1 Krembil Centre for Neuroinformatics, Centre for Addiction and
Mental Health; 2 Department of Physiology, University of Toronto; 3
Department of Psychiatry, University of Toronto*

65.

Shenhab Zaig; Institute of Medical Science

Supervisor: Dr. Gaspard Montandon

Breakout Room: Neuropharmacology & Drug Development

NOVEL TARGETS TO PREVENT OPIOID-INDUCED RESPIRATORY
DEPRESSION WHILE PRESERVING ANALGESIA USING LARVAL
ZEBRAFISH

Zaig S, 1; Scarpellini C, 1; Montandon G, 1,2

*1 Keenan Research Centre for Biomedical Science, St. Michael's
Hospital; 2 Division of Respiriology, Department of Medicine, University
of Toronto.*

66.

Xinyang Zhou; Pharmacology & Toxicology

Supervisor: Dr. Ana Andreazza

Breakout Room: Stress, Depression, & Mental Health

MITOCHONDRIAL DYNAMICS AND EXPRESSION IN
ADOLESCENT BIPOLAR DISORDER AND DEPRESSION

Zhou XY, 1; Cullen KR, 2; Klimes-Dougan B, 3; Andreazza AC, 1,4

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Minneapolis, MN, USA; 3 Department of Psychology, University of
Minnesota, Minneapolis, MN, USA; 4 Centre for Addiction and Mental
Health, Toronto, ON, Canada*

CPIN Participating Units



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UNIVERSITY OF TORONTO



Computer Science
UNIVERSITY OF TORONTO



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DALLA LANA SCHOOL OF PUBLIC HEALTH



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UNIVERSITY OF TORONTO



Department of Psychology
UNIVERSITY OF TORONTO



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Dentistry



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