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Date	Title	Authors	Author Affiliations
Thu May 22	P1-A-01 - CA3 inputs to CA1 drive the emergence of inhibitory signaling and memory specificity	**Cory Mckenzie [1], Adam Ramsaran [2], Matteo Saderi [2], Evelina Aghayan [1], Stephanie Cardillo [1], Sheena Josselyn [2], Margaret Schlichting [1], Paul Frankland [2]**	[1] University of Toronto, [2] The Hospital for Sick Children
Thu May 22	P1-A-02 - Early-life bisphenol A exposure triggers anxiety-like behaviors and pyroptotic death of nerve cells in juvenile and adult male rats via the NF-κB/IL-1β/NLRP3/Caspase-1 pathway	**Ahmed Al-Shami [1], Heba-Tallah Abd Elkader [1], Nermine Moussa [2], Amina Essawy [1], Medhat Haroun [2]**	[1] Alexandria University, [2] Department of Biotechnology, Institute of Graduate Studies and Research, Alexandria University
Thu May 22	P1-A-03 - Role of Glypican 6 on the development of the embryonic mouse neocortex	**Ho In Shin [1], Lei Xing [1]**	[1] University of Manitoba
Thu May 22	P1-A-04 - How adolescent neurodevelopment is affected by different patterns of cannabis use	**Jessica Scheufen [1], Savannah Lightfoot [1], Samantha Baglot [1], Catherine Hume [1], Cayden Murray [1], Matthew Hill [2]**	[1] University of Calgary, [2] Hotchkiss Brain Institute
Thu May 22	P1-A-05 - Delays in infant neurodevelopment: Examining the interaction between genetic risk and environmental stressors	**Zahra Wakif [1], Mary Desrocher [1], Patricia Silveira [2], Charles Nelson [3], Pat Levitt [4], Lara Pierce [1]**	[1] York University, [2] McGill University, [3] Boston Children's Hospital; Harvard Medical School, [4] University of Southern California; Children's Hospital Los Angeles
Thu May 22	P1-A-06 - Astrocyte-mediated regulation of inhibitory interneuron development in the somatosensory cortex: Implications for autism spectrum disorder	**Tara Deemyad [1]**	[1] Johns Hopkins University
Thu May 22	P1-A-07 - Maternal high-fat diet impairs offspring's cognition and alters synaptic plasticity and transmission	**Camila Cerna [1], Nicole Vidal [1], Juan Ahumada [1], Guillermo Rodríguez [1], Samanta Thomas [1], Marco Fuenzalida [1]**	[1] Universidad de Valparaíso
Thu May 22	P1-A-08 - Decoding neuronal differentiation: the emerging role of splicing order in alternative splicing regulation	**Salomé Sabatié [1], Benoit Laurent [2], Karine Choquet [2]**	[1] University of Sherbrooke, [2] Université de Sherbrooke
Thu May 22	P1-A-09 - Sexually dimorphic long-term effects of acute high-dose edible cannabis consumption in adolescence	**Richard Quansah Amissah [1], Hakan Kayir [1], Jude Frie [1], Abdalla Albeely [1], Selim Karahan [1], Ahmad Hassan [2], Jibran Khokhar [3]**	[1] University of Western Ontario, [2] University of Guelph, [3] Western University
Thu May 22	P1-A-10 - miR-216/217 cluster affects neuronal differentiation from human pluripotent stem cells	**Maria Soledad Rodriguez Varela [1], Mercedes Vautier [1], Sofia Mucci [1], Diego Chialva [1], Gustavo Emilio Sevlever [1], Maria Elida Scassa [1], Leonardo Romorini [1]**	[1] INEU-FLENI-CONICET

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Thu May 22	P1-A-11 - Regulation of neural progenitor cell proliferation by Dachshund family transcription factor 1 in the developing mouse neocortex	**Erica Wong** [1], **Lei Xing** [1]	[1] University of Manitoba
Thu May 22	P1-A-12 - Brain myeloid cells regulate oligodendrogenesis and myelination in the developing central nervous system	**Alana Hoffmann** [1], **Rebecca Holloway** [1], **Jamie Rose** [2], **Georgina Craig** [1], **Justyna Cholewa-Waclaw** [2], **Anna Raper** [2], **Veronique Miron** [1]	[1] Unity Health Toronto, [2] University of Edinburgh
Thu May 22	P1-A-13 - Investigation of cerebrovascular deficits in animal and cellular models of SYNGAP1 deficiency	**Leya Aubert-Tandon** [1], **Moises Freitas-Andrade** [2], **Julie Ouellette** [2], **Baptiste Lacoste** [2]	[1] University of Ottawa, [2] Ottawa Hospital Research Institute
Thu May 22	P1-A-14 - Sex-dependent modulation of the lateral hypothalamus-dorsal raphe nucleus pathway following acute stress	**Nahid Rouhi** [1], **Derya Sargin** [1], **Shi Chen Xu** [1]	[1] University of Calgary
Thu May 22	P1-A-15 - Disruption in serotonin modulation of the cerebellum in a mouse model of autism spectrum disorder	**Hoda Ranjbar** [1], **Shi Chen Xu** [1], **Derya Sargin** [1]	[1] University of Calgary
Thu May 22	P1-A-16 - Evaluating the risk of air pollution nanoparticles in developing human brain using human cortical organoids	**Shiva Ghadiri** [1], **Masakazu Umezawa** [2], **Yoshiaki Tanaka** [3]	[1] University of Montreal, [2] Tokyo University, [3] Maisonneuve-Rosemont Hospital Research Centre; University of Montreal
Thu May 22	P1-A-17 - Impact of a paternal diet high in fat and sugar on offspring brain structure volumes	**Emma Mcknight** [1], **Cheryl Chong** [2], **Gail Lee** [3], **Tie Yuan Zhang** [4], **Jane Foster** [5], **Jason Lerch** [6], **Brian Nieman** [3], **Mark Palmert** [3]	[1] University of Toronto, [2] University of Waterloo, [3] The Hospital for Sick Children, [4] McGill University, [5] University of Texas Southwestern Medical Center, [6] University of Oxford
Thu May 22	P1-A-18 - The developmental trajectory of a unique and sparse cell type in the cortex	**Shalini Iyer** [1], **Mark Cembrowski** [1]	[1] University of British Columbia
Thu May 22	P1-A-19 - Constitutive targeting to the autophagosome may limit netrin-3 secretion	**Melissa Pestemalciyan** [1], **Timothy Kennedy** [2], **Philippe Campeau** [3]	[1] McGill University, [2] Montréal Neurological Institute, [3] CHU Sainte-Justine, University of Montréal
Thu May 22	P1-A-20 - Investigating how Netrin-1 regulates hippocampal dendritic spine morphology in the developing and aging brain	**Jiaqi Xu** [1], **Ian Beamish** [1], **Jeanne Madranges** [2], **Daryan Chitsaz** [2], **Fiorella Guido** [1], **Anne Mckinney** [1], **Edward Ruthazer** [1], **Stephen Glasgow** [3], **Timothy Kennedy** [2]	[1] McGill University, [2] Montréal Neurological Institute, [3] Brock University
Thu May 22	P1-A-21 - Is cerebral white matter development linked to somatic height growth?	**Jordan Chad** [1], **Catherine Lebel** [2]	[1] Universities of Calgary & Toronto, [2] University of Calgary

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Thu May 22	P1-A-22 - Identifying molecular alterations in astrocytes from a 16p11.2 deletion mouse model of autism	**Nicole Blakeley** [1], **Baptiste Lacoste** [2], **Shama Naz** [3], **Qing Lan Liu** [4], **Sonia Leclerc** [4], **Youlian Pan** [5], **Ziying Liu** [5]	[1] University of Ottawa, [2] Ottawa Hospital Research Institute, [3] University of Ottawa Metabolomics Core Facility, [4] National Research Council of Canada, Human Health and Therapeutics, [5] National Research Council of Canada
Thu May 22	P1-A-23 - Regulation of gene expression by growth differentiation factor 15 in the developing neocortex	**Ruby Mohamad** [1], **Lei Xing** [1]	[1] University of Manitoba
Thu May 22	P1-A-24 - Disentangling fat and sugar in the Western diet: Parental consumption of high fat alters offspring brain development	**Gail Lee** [1], **Karina Wilk** [2], **Taylor Deyoung** [1], **Cheryl Chong** [3], **Emma Mcknight** [4], **Tiffany Ayoub** [1], **Lloyd Fan** [5], **Jane Foster** [6], **Tie-Yuan Zhang** [7], **Jason Lerch** [8], **Mark Palmert** [1], **Brian Nieman** [1]	[1] The Hospital for Sick Children, [2] Neuroscience and Mental Health, The Hospital for Sick Children, [3] University of Waterloo, [4] University of Toronto, [5] McMaster University, [6] UT Southwestern Medical Center, [7] McGill University, [8] University of Oxford
Thu May 22	P1-A-25 - Characterizing the subventricular zone in a 16p11.2df/+ mouse model of autism	**Taj Matthews** [1], **Baptiste Lacoste** [2]	[1] University of Ottawa, [2] Ottawa Hospital Research Institute
Thu May 22	P1-A-26 - Reliable multimodal brain signatures predict mental health trajectories in children	**Catherine Lebel** [1], **Alberto Llera** [2]	[1] University of Calgary, [2] Radboud University
Thu May 22	P1-A-27 - The maternal microbiome shapes development of the hypothalamic suprachiasmatic nucleus, leading to lasting deficits in circadian behaviors in adulthood	**Jing Zheng** [1], **Marcela Davoli Ferreira** [1], **Nicole Rosin** [1], **Melinda Wang** [1], **Michael Antle** [1], **Jeff Biernaskie** [1], **Kathy Mccoy** [1], **Deborah Kurrasch** [1]	[1] University of Calgary
Thu May 22	P1-B-28 - Neuronal cholesterol turnover influences synapse maturation and function	**Stanley Ibeh** [1], **Barbara Karten** [1]	[1] Dalhousie University
Thu May 22	P1-B-29 - Melatonin regulates diurnal dopamine release in the striatum through nicotinic receptors	**Siham Boumhaouad** [1], **Emily A Makowicz** [2], **Sejoon Choi** [2], **Nezha Bouhaddou** [3], **Jihane Balla** [3], **Khalid Taghzouti** [4], **David Sulzer** [2], **Eugene V Mosharov** [2]	[1] Columbia University; Mohammed V University, [2] Columbia University, [3] Mohammed V University, [4] Mohammed V University in Rabat
Thu May 22	P1-B-30 - Cannabinoid type 1 receptors regulate neuroinflammation-impaired lactate metabolism in astrocytes	**Hind Ibork** [1], **Oualid Abboussi** [2], **Khalid Taghzouti** [1], **Ignacio Fernandez Moncada** [3], **Giovanni Marsicano** [4]	[1] Mohammed V University in Rabat, [2] Mohammed V University, [3] Universite de Bordeaux, (INSERM), [4] INSERM
Thu May 22	P1-B-31 - Enhancement of astrocytic Glu/GABA exchange by multiple mechanisms is effective against convulsive and non-convulsive seizures	**Saif Salman** [1], **Zsolt Kovács** [2], **László Héja** [3]	[1] TTK Research Centre for Natural Sciences, [2] Eötvös Loránd University; Savaria University Centre, [3] Research Centre for Natural Sciences, Budapest
Thu May 22	P1-B-32 - Food deprivation leads to compulsive-like grooming and hyperactivity in female mice	**Alice Cadoret** [1], **Jose Solano Lopez** [1], **Luisa Bandeira Binder** [1], **Manon Lebel** [2], **Caroline Ménard** [1]	[1] Université Laval, [2] CERVO

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Thu May 22	P1-B-33 - Investigating the role of cortical microglia in viral infection-induced epilepsy	**Lakshmini Balachandar** [1], **Lauren Buxton** [2], **Ireland Kearns** [2], **Matthew Stefanic** [2], **Ana Beatriz Depaula-Silva** [2], **Karen Wilcox** [2]	[1] Krembil Research Institute; University of Utah, [2] University of Utah
Thu May 22	P1-B-34 - Linking age changes in human neuronal microcircuits to impaired brain function and EEG biomarkers	**Shreejoy Tripathy** [1], **Etienne Sibille** [2], **Etay Hay** [3]	[1] Centre for Addiction & Mental Health, [2] Campbell Family Mental Health Research Institute of CAMH, [3] Krembil Centre for Neuroinformatics; CAMH
Thu May 22	P1-B-35 - Investigating cellular and circuit deficits in fragile X syndrome using human cortical and thalamic organoids as models	**Nadeem Murtaza** [1], **Lingdi Nie** [1], **Karun Singh** [1]	[1] University Health Network
Thu May 22	P1-B-36 - Comparative analysis of intrinsic electrophysiological and morphological properties of fast-spiking and pyramidal neurons in the dorsolateral prefrontal cortex and primary visual cortex of non-human primates	**Michelle Jimenez-Sosa** [1], **Michael Feyerabend** [1], **Julia Sunstrum** [2], **Sam Mestern** [2], **Sara Matovic** [3], **Meagan Wiederman** [1], **Benjamin Corrigan** [4], **Pavel Truschow** [5], **Stefan Treue** [6], **Jochen Staiger** [5], **Guillermo Gonzalez-Burgos** [7], **Stefan Everling** [8], **Wataru Inoue** [8], **Julio Martinez-Trujillo** [1]	[1] Western University, [2] Schulich School of Medicine and Dentistry, University of Western Ontario, [3] Robarts Research Institute, [4] York University, [5] University Medical Center Göttingen, [6] Leibniz-Institut fur Primatenforschung, [7] University of Pittsburgh Kenneth P. Dietrich School of Arts and Sciences, [8] University of Western Ontario
Thu May 22	P1-B-37 - Sex differences and estrogen's role in modulating microglial response to cerebral microbleeds in a mouse model	**Dhwani Sura** [1], **Craig Brown** [1]	[1] University of Victoria
Thu May 22	P1-B-38 - Assessing sex-specific nanoscopic synaptic changes in response to chronic stress	**Kamylle Thériault** [1], **Quentin Leboulleux** [1], **Chenqi Zhao** [1], **Marco D'angelo** [1], **Benoit Labonte** [1], **Flavie Lavoie-Cardinal** [1]	[1] Université Laval
Thu May 22	P1-B-39 - Investigating a role for netrin-1/DCC signaling in excitatory homeostatic synaptic upscaling	**Kira Feighan** [1], **Timothy Kennedy** [2]	[1] McGill University, [2] Montréal Neurological Institute
Thu May 22	P1-B-40 - The role of oligodendrocyte precursor cells (OPCs) in memory consolidation	**Sakthivel Srinivasan** [1], **Sheena Josselyn** [1], **Paul Frankland** [1]	[1] The Hospital for Sick Children
Thu May 22	P1-B-41 - Investigating sex differences in astrocyte-neuronal lactate shuttling in the anterior cingulate cortex in a murine chronic neuropathic pain model	**Jaime Tuling** [1], **Ana Leticia Simal** [1], **Danielle Halasz** [1], **Giannina Descalzi** [1]	[1] University of Guelph
Thu May 22	P1-B-42 - Homeostatic gain modulation drives changes in heterogeneity expressed by neural populations	**Daniel Trotter** [1], **Taufik Valiante** [2], **Jeremie Lefebvre** [1]	[1] University of Ottawa, [2] University of Toronto

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Thu May 22	P1-B-43 - Progressive overfilling of readily releasable pool underlies short-term facilitation at recurrent excitatory synapses in layer 2/3 of the rat prefrontal cortex	**Jiwoo Shin** [1], **Suk-Ho Lee** [1]	[1] Seoul National University
Thu May 22	P1-B-44 - Systemic nimodipine affects pericyte calcium signaling, resting hemodynamics and neurovascular coupling in healthy mouse brain	**Jessica Meza Resillas** [1], **Jillian Stobart** [1], **Meher Kantroo** [1], **Finnegan O'hara** [1], **Syed Kaushik** [1], **Noushin Ahmadpour** [1], **Jhon Del Rosario** [1], **Dmytro Koval** [1], **Megan Rodriguez** [1], **Chaim Glück** [2], **Bruno Weber** [2], **Michael Stobart** [1]	[1] University of Manitoba, [2] University of Zurich
Thu May 22	P1-B-45 - Galanin receptor 1 mediates the inhibitory effects of galanin on wake-active histaminergic neurons	**Axelle Khouma** [1], **Albane Chabot-Chartier** [2], **Julie Plamondon** [3], **Alexandre Caron** [2], **Natalie Michael** [4]	[1] Université Laval, IUCPQ, [2] Université Laval, [3] IUCPQ, [4] Laval University
Thu May 22	P1-B-46 - Molecular mechanisms underlying local inhibitory control over cortico-accumbal and tegmental pathways in stressed male and female mice	**Arturo Marroquin Rivera** [1], **Marco D'Angelo** [2], **Karina Huot** [1], **Luca Pancotti** [1], **Chenqi Zhao** [1], **André Moreira Pessoni** [1], **Quentin Leboulleux** [1], **Christophe Proulx** [1], **Benoit Labonte** [1]	[1] Université Laval, [2] CERVO Brain Research Center
Thu May 22	P1-B-47 - Neuronal excitation and synaptic plasticity require TRPV4 activation in primary hippocampal cultured neurons	**Ahmad Israwi** [1], **Sydney Macleod-Asadullah** [1], **Nada Shaath** [1], **Lina Al Halabi** [2], **Liam Ralph** [1], **Graham Collingridge** [3], **Joanne Nash** [1]	[1] University of Toronto, [2] University of Toronto, Hospital for Sick Children, [3] University of Toronto, Tanz CRND, Lunenfeld-Tanenbaum Research Institute,
Thu May 22	P1-B-48 - Running exercise sustains pattern separation despite transient changes in hippocampal neurogenesis	**Lazaro Pérez Orihuela** [1]	[1] Center for Research and Advanced Studies of the National Polytechnic Institute
Thu May 22	P1-B-49 - Impact of perinatal insults on cerebellar cortex microarchitecture and Purkinje cell neuronal inputs	**Mamadou Diagne** [1], **Marianne Mengus** [2], **Roqaya Imane** [1], **Sophie Tremblay** [3]	[1] Centre de recherche du CHU Sainte Justine, [2] Centre de recherche Azrieli du CHU Sainte Justine, [3] CHU Ste-Justine Research Centre
Thu May 22	P1-B-50 - Regulation of axonal transport in neurons by S-Acylation of the dynein activator p150glued	**Amelia Doerksen** [1], **Arshia Leekha** [1], **Shaun Sanders** [1]	[1] University of Guelph
Thu May 22	P1-B-51 - Impact of α-Synuclein aggregation on blood-brain barrier integrity in Parkinson's Disease	**Laura Bevilacqua** [1], **Luisa Bandeira Binder** [1], **Alice Cadoret** [1], **Manon Lebel** [2], **Véronique Rioux** [1], **Joel Watts** [3], **Martin Lévesque** [1], **Caroline Ménard** [1]	[1] Université Laval, [2] CERVO, [3] University of Toronto
Thu May 22	P1-B-52 - Deriving connectivity from spiking activity in large-scale biophysical cortical microcircuits	**Faraz Moghbel** [1], **Muhammad Taaha Hassan** [2], **Alexandre Guet-Mccreight** [3], **Heng Kang Yao** [1], **Etay Hay** [2]	[1] Krembil Centre for Neuroinformatics; University of Toronto, [2] Krembil Centre for Neuroinformatics; CAMH, [3] Centre for Addiction & Mental Health

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Thu May 22	P1-B-53 - GATOR1-dependant mitochondrial regulation impacts the metabolic adaptability of astrocytes	**Imane Hadj-Aissa** [1], **Maéline Muller** [1], **Jorge Soliz** [1], **Chantelle Sephton** [1], **Paul Dutchak** [1]	[1] Université Laval
Thu May 22	P1-B-54 - Exploring the impact of MDGA2 haploinsufficiency on synaptic spine density & maturation in a mouse model of autism spectrum disorder	**Rani Shouk** [1], **Katherine Andrec** [1], **Steven Connor** [1]	[1] York University
Thu May 22	P1-B-55 - GATOR1-dependent mTORC1 hyperactivity drives the development of neuronal communication	**Maéline Muller** [1], **Imane Hadj-Aissa** [1], **Martin Lévesque** [1], **Chantelle Sephton** [1], **Paul Dutchak** [1]	[1] Université Laval
Thu May 22	P1-B-56 - Cortico-accumbal pathway characterization and sexual differences in stress-induced synaptic plasticity	**Éloïse Dumas** [1], **Christophe Proulx** [2], **Benoit Labonte** [2]	[1] Laval University, [2] Université Laval
Thu May 22	P1-B-57 - SNARE protein SNAP25 regulates the chloride-transporter KCC2 in neurons	**Vineeth A Raveendran** [1], **Melissa Serranilla** [1], **Azam Asgarihafshejani** [1], **Miranda De Saint-Rome** [1], **Mariia Cherednychenko** [2], **Shanelle Mullany** [2], **Jennifer Mitchell** [1], **Jessica Pressey** [1], **Melanie Woodin** [1]	[1] University of Toronto, [2] Centre for Research and Advanced Studies (Cinvestav)
Thu May 22	P1-B-58 - Phosphatidylserine regulates synaptic development and plasticity at the Drosophila melanogaster neuromuscular junction	**Adam Sghaier** [1], **Jeffrey Dason** [1]	[1] University of Windsor
Thu May 22	P1-B-59 - In vivo voltage imaging of non-spatial behavioral time-scale synaptic plasticity in the hippocampus.	**Jacob Duda** [1], **Tianwei Liu** [1], **Gabriel Ma** [2], **Mark Gerlai** [2], **Maya Veigas** [2], **Jiannis Taxidis** [1]	[1] University of Toronto, [2] The Hospital for Sick Children
Thu May 22	P1-B-60 - CD47's regulation of memory processes	**Jiaoyang Wo** [1], **Yunlong Liu** [2], **Xiaoyu Chen** [1], **Sheena Josselyn** [2], **Paul Frankland** [2]	[1] University of Toronto, [2] The Hospital for Sick Children
Thu May 22	P1-B-61 - Identifying and mapping L6b neuronal diversity in the mouse brain	**Margarita Kapustina** [1], **Brianna Bristow** [1], **Mark Cembrowski** [1]	[1] University of British Columbia
Thu May 22	P1-B-62 - Membrane progesterone receptors mediate the facilitation of synaptic responses by progesterone and allopregnanolone in the rat infralimbic cortex	**Nima Rahaei** [1], **Yasamin Movasseghi** [2], **Lukas Kires** [2], **Lauren Buynack** [2], **Andrew Chapman** [2]	[1] Center for Studies in Behavioral Neurobiology, Concordia University, [2] Concordia University

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Thu May 22	P1-B-63 - Differential regional vulnerabilities to age-related myelin pathology in human brain	**Jessica Thapar** [1], **Georgina Craig** [2], **Veronique Miron** [2], **Jamie Rose** [3], **Blanca Diaz-Castro** [3], **Simon Cox** [4]	[1] University of Toronto, Unity Health Toronto, [2] Unity Health Toronto, [3] UK Dementia Research Institute, [4] Edinburgh University
Thu May 22	P1-B-64 - Axonal transport of netrin-1 in iPSC-derived human neurons	**Tsz Yan Leung** [1], **Jhunam Sidhu** [1], **Yolanda Ma** [1], **Michael Silverman** [1]	[1] Simon Fraser University
Thu May 22	P1-B-65 - Oligodendrocyte dysfunction drives human cognitive decline	**Georgina Craig** [1]	[1] Unity Health Toronto
Thu May 22	P1-B-66 - Mild traumatic brain injury induces circadian phase shifts	**Anzala Murtaz** [1], **Charles Bourque** [1], **Julie O'reilly** [1], **Joshua Wyrosdic** [1]	[1] McGill University
Thu May 22	P1-B-67 - Metaplastic effects of long-term potentiation on the expression of synaptic depotentiation in the rodent hippocampus	**Quinn Pauli** [1], **Juliet Arsenault** [1], **Samuel Fung** [1], **Robert Bonin** [1]	[1] University of Toronto
Thu May 22	P1-B-68 - UNC5B-mediated cell junctions at paranodes involve scaffold proteins DLG1 and Septins	**Jean-David Gothié** [1], **Samuel Clémot-Dupont** [2], **Omar De Faria Jr** [1], **Yi Jiang** [2], **Timothy Kennedy** [1]	[1] Montréal Neurological Institute, [2] McGill University
Thu May 22	P1-B-69 - Role of astrocytes in regulating CRH neurons and the HPA axis	**Clara Ireland** [1], **Ciaran Murphy-Royal** [1]	[1] Université de Montréal
Thu May 22	P1-B-70 - The role of Panx1a in neurodevelopment: Pathway-specific interventions for metabolic crisis	**Georg Zoidl** [1], **Nickie Safarian** [2], **Christiane Zoidl** [1], **Steven Connor** [1], **Georg Zoidl** [1]	[1] York University, [2] Centre for Addiction and Mental Health
Thu May 22	P1-B-71 - Investigating the role of adaptor protein ShcD in the oligodendrocyte lineage	**Cassandra Clausen** [1], **Begum Alural** [1], **Nina Jones** [1]	[1] University of Guelph
Thu May 22	P1-C-72 - Embelin alleviates Amyloid-β-induced neurodegeneration and cognitive impairment: A promising therapeutic avenue for Alzheimer's disease	**Rimpi Arora** [1]	[1] MRSPTU INDIA
Thu May 22	P1-C-73 - Unlocking the secret of tradition: Neuroprotective potential of Semecarpus Anacardium (SA) through cellular and genetic pathways	**Rukhsana Nawaz** [1]	[1] United Arab Emirates University
Thu May 22	P1-C-74 - Impact of oral glyphosate exposure on the population of cocaine- and amphetamine-regulated transcript (CART)-expressing enteric nervous system	**Katarzyna Palus** [1]	[1] University of Warmia and Mazury in Olsztyn

	neurons in the porcine small intestinal wall		
Thu May 22	P1-C-75 - Rotenone, a mitochondrial neurotoxin accelerates endogenous α-synuclein spreading and enhances dopaminergic neurodegeneration in an intra-striatal preformed fibril (pff) synuclein injected mouse	**Emdadul Haque** [1]	[1] CMHS, UAEU
Thu May 22	P1-C-76 - MIP2 alleviates the severity of intracerebral hemorrhage by inhibiting TLR4 epxression	**Suliman Khan** [1], **Rabeea Siddique** [2]	[1] The Second Affiliated Hospital of Zhengzhou University, [2] Zhengzhou University
Thu May 22	P1-C-77 - Brain printing biometrics in crosstalk with rod-shaped microglia and trem2 signaling for early Alzheimer's disease detection	**Mai Anwar** [1]	[1] Egyptian Drug Authority (EDA)/ National Organization for Drug Control and Research (NODCAR)
Thu May 22	P1-C-78 - Nerugluin-1 treatment promotes brain neurogenesis and cognition recovery in progressive demyelinating lesions of Multiple Sclerosis	**Shiva Nemati** [1], **Seyed Mojtaba Hosseini** [2], **Astrid Bravo Jiménez** [1], **Soheila Karimi** [1]	[1] University of Manitoba, [2] University of Manitoba, Rady Faculty of Health Science
Thu May 22	P1-C-79 - Defective ocular glymphatic system in the retina of Alzheimer's donor eyes: Degeneration of Macroglia and Aquaporin-4 water channels	**Amir Hosseini** [1], **Printha Wijesinghe** [2], **Ian Mackenzie** [3], **Veronica Hirsch-Reinshagen** [3], **Robin Hsiung** [4], **Wellington Pham** [5], **Joanne Matsubara** [2]	[1] University of British Columbia, [2] University of British Columbia, Department of Ophthalmology & Visual Sciences, [3] University of British Columbia, Department of Pathology & Laboratory Medicine, [4] University of British Columbia, Faculty of Medicine, Division of Neurology, [5] Vanderbilt University Medical Center
Thu May 22	P1-C-80 - Neurodevelopmental effects in genetic frontotemporal dementia: intracranial volume and education differences	**Chung Yan Isis So** [1], **Genetic Frontotemporal Dementia Initiative (Genfi)** [2], **Allftd Consortium** [3], **Elizabeth Finger** [1]	[1] University of Western Ontario, [2] University College London, [3] Mayo Clinic
Thu May 22	P1-C-81 - Tat-Interactive Protein 60 mediates Stress-induced hypertension via glutamate release from the dorsomedial prefrontal cortex to the ventral CA1 region	**Bin Wang** [1], **Yin Wang** [2], **Tianyu Wang** [1], **Min Xia** [3], **Jincheng Lu** [1]	[1] Dalian Medical University, [2] The Second Affiliated Hospital of Dalian Medical University, [3] General Hospital of The Yang Tze River Shipping, Wuhan Brain Hospital
Thu May 22	P1-C-82 - Effects of phytocannabinoids on postictal hypoxia	**Stephanie Rha** [1], **Renaud Gom** [2], **Leah Fick** [1], **Airen Imoukhuede** [2], **Savannah Lightfoot** [2], **Matthew Hill** [3], **Cam Teskey** [2]	[1] Hotchkiss Brain Institute, University of Calgary, [2] University of Calgary, [3] Hotchkiss Brain Institute
Thu May 22	P1-C-83 - Machine learning-based analysis reveals loss of healthy striatal, cortical and thalamic	**Maria Helene Tomberg** [1], **Zhanel Khazhmuratova** [1], **Hanna Merilyn Aaviksoo** [1], **Mahvish Faisal** [1], **Ave Minajeva** [1], **Miriam Hickey** [2]	[1] University of Tartu, [2] Institute of Biomedicine and Translational Medicine, University of Tartu

	neurons in the 5xFAD mouse model of Alzheimer's disease		
Thu May 22	P1-C-84 - The immediate effects of repetitive mild traumatic brain injuries (rmtbis) on electroencephalographic activity in a mouse model of Alzheimer's disease	**Victoria Carriquiriborde Guerrero [1], Jefferey Yue [1], Emad Shams [1], Taha Yildirim [1], Wai Hang Cheng [2], Sean Tok [1], David Vocadlo [1], Cheryl Wellington [2], Brianne Kent [1]**	[1] Simon Fraser University, [2] University of British Columbia
Thu May 22	P1-C-85 - The mutant LRRK2-G2019S modifies the activity of voltage-gated CaV1.3 channels through Cavβ3 phosphorylation	**Alejandro Sandoval [1], Maria Corzo Lopez [1], Paz Duran [2], Diana Tovar-Soto [1], Bryan Vargas-Caballero [3], Valeria Galicia-Saldaña [1], Ricardo González-Ramírez [4], Ricardo Felix [3]**	[1] School of Medicine FES Iztacala, National Autonomous University of Mexico (UNAM), [2] College of Dentistry, New York University, [3] Centre for Research and Advanced Studies (Cinvestav), [4] "Dr. Manuel Gea González" General Hospital
Thu May 22	P1-C-86 - Absence of microglial homeostatic TGFβ production induces myelin dynamics that mimic multiple sclerosis	**Jonathan Monteiro [1], Nicolas Hugues [2], Niamh Mcnamara [3], David Munro [4], Jamie Rose [4], Alana Hoffmann [5], Georgina Craig [5], Rebecca Holloway [5], Claire Pridans [4], Josef Priller [4], Yu Luo [2], Veronique Miron [5]**	[1] University of Toronto, [2] University of Cincinnati, [3] Netherlands Institute for Neuroscience, [4] University of Edinburgh, [5] Unity Health Toronto
Thu May 22	P1-C-87 - Reduced EEG complexity in Alzheimer's disease and frontotemporal Dementia with differences in rostrocaudal activity	**Kassra Ghassemkhani [1], Blake Dotta [1]**	[1] Laurentian University
Thu May 22	P1-C-88 - Spikes and sprouts: Supramammillary nucleus of the hypothalamus contributes to hippocampal dentate gyrus and ca2 epileptiform activity in a mouse model of temporal lobe epilepsy	**Sarah Shaban [1], Alina Trofimova [1], Mckenna Bolger [1], Dara Kwochka [1], Royce Hermanson [1], Zachary Berardi [1], Angela Wang [2], Justin Botterill [1]**	[1] University of Saskatchewan, [2] Bedford Road Collegiate High School
Thu May 22	P1-C-89 - Single cell approaches define forebrain neural stem cell niches and identify microglial ligands that enhance precursor-mediated remyelination	**Ashleigh Willis [1], Danielle Jeong [2], Yunlong Liu [3], Marissa Lithopoulos [1], Scott Yuzwa [2], Paul Frankland [3], David Kaplan [3], Freda Miller [1]**	[1] University of British Columbia, [2] University of Toronto, [3] The Hospital for Sick Children
Thu May 22	P1-C-90 - Evaluation of social preference, anxiety, cortisol, and locomotion in a mecp2 null-mutant zebrafish model of Rett Syndrome	**Soaleha Shams [1], Pierre Cronell [2], Jenny Landin [2], Thomas Pietri [3], Adrian Gimdal [2], Petronella Kettunen [2], Lars Westberg [2]**	[1] Mayo Clinic, [2] University of Gothenburg, Sweden, [3] Elsevier, The Netherlands
Thu May 22	P1-C-91 - Nucleosome remodeling restricts axon growth in vitro: New insights towards neural repair	**Isa Samad [1], Timo Friedman [1], Juliana Su [1], Anne Haegert [2], Yen-Yi Lin [2], Stéphane Lebihan [2], Colin Collins [2], Brett Hilton [1]**	[1] University of British Columbia, [2] Vancouver Prostate Centre
Thu May 22	P1-C-92 - Tandem repeats in genes associated with synaptic functions are frequently expanded in	**Jimmy Nguyen [1], Aleksandra Mitina [1], Yue Yin [1], Worrawat Engchuan [1], Bushra Haque [1], Gregory Costain [1], Ryan Yuen [1]**	[1] The Hospital for Sick Children

	individuals with suspected genetic epilepsies		
Thu May 22	P1-C-93 - Mutations in ubiquilin-2 gene lead to protein accumulation and impair cellular stress defenses in patient-derived neural cells	**Micaela Nievas** [1], **Barbara Weil** [1], **Mercedes Vautier** [1], **Analía Czerniczyniec** [1], **Nahuel Magrath-Guimet** [2], **Ricardo Allegri** [2], **Tatiana Itzcovich** [3], **Leonardo Romorini** [1], **María Elida Scassa** [1], **Gustavo Sevlever** [4], **Ezequiel Surace** [5], **Mariela Marazita** [1]	[1] Laboratorio de Investigación Aplicada en Neurociencias, [2] Department of Cognitive Neurology, Neuropsychiatry and Neuropsychology (Fleni), [3] Laboratory of Neurodegenerative Diseases- Institute of Neurosciences, [4] Instituto de Neurociencias (INEU-FLENI-CONICET), [5] Laboratoryof Neurodegenerative Diseases- Institute of Neurosciences (INEU-Fleni- CONICET)
Thu May 22	P1-C-94 - Effects of positive and negative allosteric modulators of cannabinoid receptor type 1 (CB1R) on epileptiform activity in an animal model of temporal lobe epilepsy	**Alina Trofimova** [1], **Robert B. Laprairie** [1], **Justin Botterill** [1]	[1] University of Saskatchewan
Thu May 22	P1-C-95 - Examining the link between dark microglia and glioblastoma multiforme in human neurosurgery samples	**Micah Allen** [1], **Marie-Eve Tremblay** [2], **Mohammadparsa Khakpour** [2], **Martin Parent** [3]	[1] Division of Medical Sciences, [2] University of Victoria, [3] Université Laval
Thu May 22	P1-C-96 - Distinctive features of microglia's states in aging and Alzheimer's disease pathology: a quantitative ultrastructure analysis in human post-mortem brain samples	**Mohammadparsa Khakpour** [1], **Marie-Eve Tremblay** [1], **Martin Parent** [2]	[1] University of Victoria, [2] Université Laval
Thu May 22	P1-C-97 - Investigating the role of oxidized phosphatidylcholine in neurodegeneration in the context of Multiple Sclerosis	**Ruoqi Yu** [1], **Kenny Ta** [1], **Jian Park** [1], **Rachel Dignean** [1], **Jeff Dong** [1]	[1] University of Saskatchewan
Thu May 22	P1-C-98 - Assessing factors impacting the wellbeing of men living with MS: A scoping review	**Tatiana Mackeigan** [1], **Paul Yoo** [2], **Bozena Szulc** [3], **Jessie Cunningham** [4], **Julie Petrin** [5]	[1] University of British Columbia, [2] The Hospital for Sick Children, [3] University of Alberta, [4] Health Sciences Library, The Hospital for Sick Children (SickKids), [5] MS Canada, President's Office
Thu May 22	P1-C-99 - Impact of chronic stress on blood-brain barrier and stress responses in adolescence	**Béatrice Daigle** [1], **José L. Solano** [1], **Adeline Collignon** [1], **Ellie Curan** [2], **Manon Lebel** [3], **Caroline Ménard** [1]	[1] Université Laval, [2] Trinity College Dublin, [3] CERVO
Thu May 22	P1-C-100 - Impact of stress-induced inflammation on blood-brain barrier permeability and transcytosis mechanisms	**Adeline Collignon** [1], **Fernanda Neutzling Kaufmann** [2], **Alice Cadoret** [1], **Laurence Dion-Albert** [1], **Jose Solano Lopez** [1], **Manon Lebel** [3], **Caroline Ménard** [1]	[1] Université Laval, [2] Laval University, [3] CERVO
Thu May 22	P1-C-101 - Investigating choroid plexus inflammation during brain aging	**Antxon Etchebest** [1], **Jessica Avila Lopez** [1], **Angie Dion** [1], **Javier Rocha** [1], **Mariano Avino** [1], **Stéphanie Miard** [2], **Frederic Picard** [3], **Melanie Plourde** [1], **Fabien Pifferi** [4], **Benoit Laurent** [1]	[1] Université de Sherbrooke, [2] Institut Universitaire de Cardiologie et de Pneumologie de Québec, [3] Institut Universitaire de Cardiologie et de Pneumologie de Québec; Université de Laval, [4] French National Centre for Scientific Research ; CNRS

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Thu May 22	P1-C-102 - Remote ischemic conditioning in traumatic brain injury	**Aly Muhammad Salim** [1], **Tom Carr** [1], **Andy Cho** [1], **Nick Batty** [1], **Carlos Camara Lemarroy** [1], **Alexander Lohman** [1]	[1] University of Calgary
Thu May 22	P1-C-103 - The role of sensory dysregulation in brain development and behavior in a mouse model of KBG syndrome	**Yana Kibalnyk** [1], **Caylin Chadwick** [1], **Zoë Dworsky-Fried** [1], **Anna Taylor** [1], **Qiumin Tan** [1], **Anastassia Voronova** [1]	[1] University of Alberta
Thu May 22	P1-C-104 - Characterizing human tau propagation using a chronic injection model in a mouse hippocampus	**Daniel Lamontagne-Kam** [1], **Arsalan Rahimabadi** [2], **Aseel El Fermawi** [1], **Laurie Bonenfant** [1], **Habib Benali** [2], **Jonathan Brouillette** [1]	[1] Université de Montréal, [2] Concordia University
Thu May 22	P1-C-105 - Circuit re-construction after spinal cord injury by stem cell and pharmacological approaches	**Seyed Mojtaba Hosseini** [1], **Katinka Stecina** [1], **Shiva Nemati** [2], **Rachel Wang** [1], **Jiasi Vicky Zhang** [1], **Soheila Karimi** [1]	[1] University of Manitoba, [2] university of manitoba
Thu May 22	P1-C-106 - Elevated risk of schizophrenia in individuals with 22q11.2 microdeletion conveyed by genome-wide tandem repeat expansions	**Muyang Cheng** [1], **Anita Yin** [2], **Worrawat Engchuan** [2], **Tracy Heung** [3], **International 22Q11.2 Brain Behaviour Consortium** [4], **Anne Bassett** [3], **Ryan Yuen** [5]	[1] University of Toronto, [2] The Hospital for Sick Children, [3] Toronto General Hospital, [4] International 22q11.2 Brain Behaviour Consortium, [5] Hospital for Sick Children
Thu May 22	P1-C-107 - Transcriptional profiling of the cortico-accumbal pathway reveals sex-specific alterations underlying stress susceptibility	**André Moreira Pessoni** [1], **Laila Arabe** [1], **Luca Pancotti** [1], **Samaneh Mansouri** [2], **Marco D'Angelo** [3], **Karina Huot** [1], **Arturo Marroquin Rivera** [1], **Modesto R. Peralta Iii** [4], **Chenqi Zhao** [1], **Quentin Leboulleux** [1], **Martin Lévesque** [1], **Christophe Proulx** [1], **Benoit Labonte** [1]	[1] Université Laval, [2] Laval University, [3] CERVO Brain Research Center, [4] CERVO Brain Research Centre
Thu May 22	P1-C-108 - Effects of genotype, sex and age in seizure-like activity in transgenic mice	**Ana Faustova** [1], **Salma Ismail** [1], **Wyatt Ortibus** [1], **Richard Brown** [1], **Mohammed Ali Ahmed** [1]	[1] Dalhousie University
Thu May 22	P1-C-109 - Insights into habenular functional connectivity in individuals with autism spectrum disorder across the lifespan	**Uyi Omere** [1], **Flavia Venetucci Gouveia** [2], **Sarah Iskin** [1], **Gavin Elias** [3], **Jürgen Germann** [4]	[1] University Health Network, [2] The Hospital for Sick Children, [3] Krembil Brain Institute; University of Toronto, [4] Krembil Brain Institute, Joint Department of Medical Imaging
Thu May 22	P1-C-110 - Targeting lipid dysregulation and fatty acid β-oxidation defects in als-fus ameliorates lipid droplet accumulation in neurons and astrocytes	**Mari Carmen Pelaez Pelaez** [1], **Laetitia Marcadet** [1], **Antoine Demeules** [1], **Jamiee Kennedy** [2], **Jorge Soliz** [1], **Claire Troakes** [2], **Caroline Vance** [2], **Paul Dutchak** [1], **Chantelle Sephton** [1]	[1] Université Laval, [2] King's College London
Thu May 22	P1-C-111 - Gut microbiota transfer from the unpredictable chronic mild stress model: Both donor and recipient sex impacts depression and anxiety-like behavioural outcomes	**Meagan Hinks** [1], **Theodore Brown** [1], **Shrabontee Deepanwita** [1], **Hannah Stapleton** [1], **T. Nadine Burry** [1], **Alexandre Maekawa** [1], **Francis Bambico** [1], **Ashlyn Swift-Gallant** [1]	[1] Memorial University of Newfoundland

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Thu May 22	P1-C-112 - Starving the seizures: proteomic effects of the ketogenic diet on the hippocampus in a model of infantile spasms	**Jaclyn Campbell** [1], **Chunlong Mu** [1], **Daniel Young** [1], **Antoine Dufour** [1], **Morris Scantlebury** [1], **Jane Shearer** [1]	[1] University of Calgary
Thu May 22	P1-C-113 - Rigid functional connectivity among hippocampal CA1 neurons in TgCRND8 mice undermines the encoding of novel experience	**Yixiong Sun** [1], **Sergey Chekhov** [1], **Silvia Margarian** [1], **Paul Bogle** [1], **Cathlin Han** [1], **Paul Fraser** [1], **Kaori Takehara-Nishiuchi** [1]	[1] University of Toronto
Thu May 22	P1-C-114 - Neurodevelopmental deficits in early postnatal down syndrome mice	**Behzad Nasseri** [1], **Marie-Claude Guyot** [2], **Jannic Boehm** [3]	[1] University the Montreal, [2] CHU Sainte-Justine Research Center, [3] Université de Montréal
Thu May 22	P1-C-115 - 16p11.2 microdeletion compromises blood-brain barrier integrity in mice	**Pavel Kotchetkov** [1], **Baptiste Lacoste** [2], **Joanna Raman-Nair** [1]	[1] University of Ottawa, [2] Ottawa Hospital Research Institute
Thu May 22	P1-C-116 - Poly-glutamine extension in Huntingtin impairs transport of secretory vesicles to the plasma membrane through a GTPase Rab11a-dependent mechanism	**María Canal** [1], **Fernando Marengo** [2], **Luciana Gallo** [3]	[1] Instituto de Fisiología, Biología Molecular y Neurociencias (IFIBYNE), [2] Instituto de Fisiología, Biología Celular y Neurociencias (IFIBYNE, CONICET-UBA), [3] Instituto de Fisiología, Biología Molecular y Neurociencias (IFIBYNE, CONICET-UBA)
Thu May 22	P1-C-117 - The impact of elevated anandamide on symptom severity in patients with PSTD	**Gavin Petrie** [1], **Yidan Xu** [1], **Ryann Tansey** [1], **Katrin Haeverans** [2], **Matthew Hill** [3], **Markus Heilig** [4], **Leah Mayo** [3]	[1] University of Calgary, [2] Janssen Pharmaceuticals, [3] Hotchkiss Brain Institute, [4] Linköping University
Thu May 22	P1-C-118 - Monocytes reduce the efficiency of central nervous system remyelination	**Bianca Hill** [1], **Rebecca Holloway** [2], **Lindsey Millar** [3], **Claire Davies** [3], **Jonathan Monteiro** [1], **Christina Brown** [3], **Jamie Rose** [3], **Neva Fudge** [4], **Pamela Plant** [1], **Ayisha Mahmood** [3], **Rosalia Brand Arzamendi** [1], **Sarah Kent** [3], **Irene Gonzalez** [3], **Stefka Gyoneva** [5], **Richard Ransohoff** [6], **Brian Wipke** [7], **Josef Priller** [3], **Raphael Schneider** [8], **Craig Moore** [4], **Veronique Miron** [2]	[1] University of Toronto, [2] Unity Health Toronto, [3] University of Edinburgh, [4] Memorial University of Newfoundland, [5] Biogen, [6] Third Rock Ventures, [7] Moderna, [8] St. Michaels Hospital
Thu May 22	P1-C-119 - Subretinal drusenoid-like deposits in prom1-null frogs mimic markers of human age-related macular degeneration and contain potential melanophages	**Mahnoor Shoukat** [1], **Brittany Carr** [1], **Linnea Kriese** [2]	[1] University of Alberta, [2] University Of Alberta
Thu May 22	P1-C-120 - Small molecule targeting of {ip protein} prevents and reverses TDP-43 aggregation	**Marc Shenouda** [1], **Janice Robertson** [1]	[1] University of Toronto
Thu May 22	P1-C-121 - Molecular and cellular landscape of the epileptic human hippocampus via single-cell spatial transcriptomics	**Larissa Kraus** [1], **Aditya Swaro** [1], **Mathias Delhaye** [1], **Brianna Bristow** [1], **Tara Stach** [1], **John Maguire** [2], **Mostafa Fatehi** [2], **Gary Redekop** [2], **Mark Cembrowski** [1]	[1] University of British Columbia, [2] Vancouver General Hospital

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Thu May 22	P1-C-122 - ZDHHC9 as a regulator of axonal remyelination	**Andrew Thompson** [1], **Rocio White** [1], **Timothy O'Leary** [1], **Angela Wild** [1], **Toktam Movassagh** [1], **Shernaz Bamji** [1]	[1] University of British Columbia
Thu May 22	P1-C-123 - Ablation of Neuregulin-1 elicits brain demyelination and cognitive decline in adult mice: Implications for progressive multiple sclerosis	**Elisabet Jakova** [1], **Shiva Nemati** [1], **Seyyed Mohyeddin Ziaee** [1], **Soheila Karimi** [1]	[1] University of Manitoba
Thu May 22	P1-C-124 - Psilocin, the psychoactive metabolite of psilocybin, modulates specific neuroimmune functions of microglia in a 5-HT2 receptor-dependent manner	**Kennedy Wiens** [1], **Noah Brooks** [1], **Ishvin Riar** [1], **Bridget Greuel** [1], **Ivan Lindhout** [1], **Andis Klegeris** [1]	[1] University of British Columbia, Okanagan
Thu May 22	P1-C-125 - Characterizing sex differences in functional connectivity during chronic stress-induced negative cognitive bias	**Kanak Gupta** [1], **Amanda Namchuk** [2], **Annie Zhang** [2], **Romina Garcia De Leon** [1], **Tallinn Splinter** [3], **Travis Hodges** [4], **Liisa Galea** [5]	[1] University of Toronto, CAMH, [2] Centre for Addiction & Mental Health, [3] University of Toronto, [4] Mt. Holyoke College, [5] Centre for Addiction and Mental Health, University of Toronto
Thu May 22	P1-D-126 - Therapeutic potential of TRPV4 channel antagonist in managing nociception and neuroinflammation in a preclinical model of complex regional pain syndrome	**Caren Antoniazzi** [1], **Náthaly Ruviaro** [1], **Patrícia Rodrigues** [1], **Diulle Spat Peres** [1], **Julia Frare** [1], **Helen Alves Brito** [1], **Gabriela Trevisan** [1]	[1] Federal University of Santa Maria
Thu May 22	P1-D-127 - Decoding the ventrolateral periaqueductal gray (vlPAG) to locus coeruleus (LC) circuit in pain and anxiety regulation	**Jessie Wing Lam Yu** [1], **Zizhen Zhang** [1], **Gerald Zamponi** [1]	[1] University of Calgary
Thu May 22	P1-D-128 - Peripheral electrical stimulation for reversing locomotor deficits after spinal cord injury: proof of concept in a large animal model	**Anne-Catherine Chouinard** [1], **Ali Gharbienne** [1], **Hugo Delivet-Mongrain** [1], **Marina Martinez** [1]	[1] Université de Montréal
Thu May 22	P1-D-129 - Exploring perception and EEG dynamics during peripheral nervous system alternating magnetic stimulations	**Eléonore Fresnel** [1], **Nicolas Bouisset** [2], **Francois Deschamps** [3], **Bruno Salvi** [3], **Martine Souques** [4], **Isabelle Magne** [4], **Pierre-André Cabanes** [4], **Genevieve Ostiguy** [5], **Valérie Jodoin** [5], **Michel Plante** [5], **Alexandre Legros** [1]	[1] University Of Western Ontario, [2] University of Western Ontario, [3] Réseau de Transport d'Electricité (RTE), [4] Service des Études Médicales Électricité de France (EDF), [5] Hydro-Québec
Thu May 22	P1-D-130 - EEG correlates of representational plasticity	**Devon Gallagher** [1], **Philip Servos** [1]	[1] Wilfrid Laurier University
Thu May 22	P1-D-131 - Ventrolateral Prefrontal Cortex LFPs encode visual context-dependent preparatory activity during memory-guided reaches	**Jennifer Lin** [1], **Veronica Nacher Carda** [1], **Hongying Wang** [1], **Saihong Sun** [1], **Xiaogang Yan** [1], **Julio Martinez-Trujillo** [2], **J Douglas Crawford** [1]	[1] York University, [2] Western University

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Thu May 22	P1-D-132 - Age-related changes in motor behaviour in mouse models of autism	**Salma Ismail** [1]	[1] Dalhousie University
Thu May 22	P1-D-133 - Rhomboid-3 expression in cerebellar Purkinje cells contributes to motor coordination impairment in aging	**Dalia Kozak** [1], **Eviatar Fields** [1], **Alanna Watt** [1]	[1] McGill University
Thu May 22	P1-D-134 - Congruency affects intensity of multisensory stimuli	**Gözde Filiz** [1], **Johannes Frasnelli** [2]	[1] University of Quebec at Trois Rivieres, [2] Université du Québec à Trois-Rivières
Thu May 22	P1-D-135 - The distinct roles of dorsal root ganglia in nerve regeneration	**Léa Ferreira** [1], **Stéphane Belin** [2], **Homaira Nawabi** [2], **Benoit Laurent** [1]	[1] Université de Sherbrooke, [2] Université Grenoble Alpes
Thu May 22	P1-D-136 - Naturalistic multisensory decision-making in the larval zebrafish	**Anqi Zhang** [1], **Florian Engert** [1]	[1] Harvard University
Thu May 22	P1-D-137 - Anatomical and genetic markers of TMS-induced plasticity in primary motor and visual cortices	**Remy Cohan** [1], **Matthew Mazza** [1], **Jennifer K. E. Steeves** [1]	[1] York University
Thu May 22	P1-D-138 - Branching of first-order tactile neurons in the marmoset hand	**Vaishnavi Sukumar** [1], **Rhonda Kersten** [1], **Michael Feyerabend** [1], **Nidhi Mehta** [1], **Wataru Inoue** [1], **Ravi Menon** [1], **Stefan Everling** [1], **Julio Martinez-Trujillo** [2], **J. Andrew Pruszynski** [2]	[1] University of Western Ontario, [2] Western University
Thu May 22	P1-D-139 - Involvement of norepinephrine release in movement refinement during directional reaching	**Camille Balazuc** [1], **Vincent Breton-Provencher** [1]	[1] Université Laval
Thu May 22	P1-D-140 - The female-specific contributions of T cells and leptin in neuropathic pain	**Sierra Stokes-Heck** [1], **Churmy Y. Fan** [1], **Brendan B. Mcallister** [1], **Erika Harding** [1], **Aliny Pereira De Vasconcelos** [1], **Zizhen Zhang** [1], **Gerald Zamponi** [1], **Shalina Ousman** [1], **Tuan Trang** [1]	[1] University of Calgary
Thu May 22	P1-D-141 - Behavioural and neural responses to cognitive distractibility in high sensory sensitivity children and adolescents: An ERP study	**Lauren Stepien** [1], **Zihang Bu** [1], **Pratik Nath** [1], **Veronica Panchyshyn** [1], **Alicia Miller** [1], **Holly Lockhart** [1], **Tyler Collins** [1], **Sid Segalowitz** [2], **Erin Panda** [1], **Ayda Tekok-Kilic** [1]	[1] Brock University, [2] Centre for Neuroscience, Brock University
Thu May 22	P1-D-142 - Establishing a rodent model of postoperative pain: Investigating potential sex differences and spinal receptor expression	**Elaine Marshall** [1], **Krystal Walker** [1], **Santina Temi** [1], **Annemarie Dedek** [2], **Michael Hildebrand** [1]	[1] Carleton University, [2] University of Waterloo
Thu May 22	P1-D-143 - Meg neural dynamics of reward prediction error signals in human decision-making under sensory conflict	**Niloofar Gharesi** [1], **John Kalaska** [2], **Sylvain Baillet** [1]	[1] McGill University, [2] Université de Montréal

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Thu May 22	P1-E-144 - Sex-dependent effects of relative hyperglycemia on neurovascular coupling magnitude in healthy adults	**Santina Duarte** [1], **Zahrah Ali** [1], **Jack Leacy** [1], **Jan Elaine Soriano** [1], **Jason Chan** [1], **Eric Chalmers** [1], **Sarah Hewitt** [1], **Ken O'halloran** [2], **Trevor Day** [1]	[1] Mount Royal University, [2] University College Cork
Thu May 22	P1-E-145 - Rapid effects of locally-synthesized estrogens on social recognition within the bed nucleus of the stria terminalis (bnst) of male mice	**Anjana Varatharajah** [1], **Dario Aspesi** [2], **Zoë Brown** [1], **Logan Stimson** [1], **Elena Choleris** [1]	[1] University of Guelph, [2] Neuroscience Institute Center for Behavioral Neuroscience, Georgia State University
Thu May 22	P1-E-146 - Lipid droplets in the brain regulate glycerolipid metabolism and energy homeostasis	**Danie Majeur** [1], **Romane Manceau** [2], **Josephine Robb** [2], **Demetra Rodaros** [2], **Frederick Boisjoly** [2], **Khalil Bouyakdan** [3], **Lewis Depaauw-Holt** [2], **Ciaran Murphy-Royal** [2], **Stephanie Fulton** [2], **Thierry Alquier** [2]	[1] Centre de Recherche du CHUM, [2] Université de Montréal, [3] CRCHUM
Thu May 22	P1-E-147 - Exploring microglial ATGL: It's influence on glucose homeostasis and neuroinflammation under high-fat diet conditions	**Frederick Boisjoly** [1], **Josephine Robb** [1], **Danie Majeur** [2], **Romane Manceau** [1], **Demetra Rodaros** [1], **Khalil Bouyakdan** [3], **Stephanie Fulton** [1], **Thierry Alquier** [1]	[1] Université de Montréal, [2] Centre de Recherche du CHUM, [3] CRCHUM
Thu May 22	P1-E-148 - S-acylation of glycolytic enzymes is required for their association with vesicles in neurons	**Nisandi Herath** [1], **Jordan Kogut** [1], **Shaun Sanders** [1]	[1] University of Guelph
Thu May 22	P1-E-149 - Impact of different social stress experiences on follicular count in adult female rats	**Rutaaba Fasih** [1], **Marilou Poitras** [1], **Helene Plamondon** [1], **Zoé M. I. Gracovetsky** [1]	[1] University of Ottawa
Thu May 22	P1-E-150 - Characterising 'the munchies' in humans and rodents: Effects of delta-9-tetrahydrocannabinol vapour inhalation on energy intake and macronutrient selection	**Catherine Hume** [1], **Carrie Cuttler** [2], **Samantha Baglot** [1], **Lucia Javorcikova** [1], **Ryan Mclaughlin** [2], **Matthew Hill** [3]	[1] University of Calgary, [2] Washington State University, [3] Hotchkiss Brain Institute
Thu May 22	P1-E-151 - Topiramate enhances GABAergic tone to orexigenic neuropeptide Y (NPY) neurons	**Moein Minbashi Moeini** [1], **Olivier Lavoie** [2], **Alexandre Caron** [1], **Kevin W. Williams** [1], **Natalie J. Michael** [1]	[1] Université Laval, [2] Centre de recherche de l'Institut universitaire de cardiologie et de pneumologie de Québec (IUCPQ)
Thu May 22	P1-E-152 - Lateral hypothalamic neuronal dynamics command behavioral transitions and coordinate different stages of feeding	**Mahsa Altafi** [1], **Changwan Chen** [2], **Mihaela-Anca Corbu** [2], **Aleksandra Trenk** [3], **Hanna Van Den Munkhof** [2], **Kristin Weineck** [4], **Franziska Bender** [4], **Marta Carus-Cadavieco** [3], **Alisa Bakhareva** [2], **Tatiana Korotkova** [2], **Alexey Ponomarenko** [5]	[1] Institute of Physiology and Pathophysiology, University of Erlangen-Nuremberg (FAU), [2] Institute for Systems Physiology, Faculty of Medicine, University/Clinic Cologne, [3] Max Planck Institute for Metabolism Research, [4] Behavioural Neurodynamics Group, Leibniz Institute for Molecular Pharmacology (FMP), [5] Institute of Physiology and Pathophysiology, University of Erlangen-Nuremberg
Thu May 22	P1-E-153 - A neural basis for dehydration-induced anorexia	**Charles Bourque** [1], **Athina Sitou** [2], **Mary Lapierre** [1]	[1] McGill University, [2] Centre for Research in Neuroscience, McGill University

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Thu May 22	P1-F-154 - Effect of glutamatergic modulators on sleep in depressive disorders: A systematic review	**William Cheung** [1], **Bianca Shen** [2]	[1] University of Toronto, [2] Queen's University
Thu May 22	P1-F-155 - Memory bias in depressed children and adolescents: A systematic review and meta-analysis	**Anett Schumacher** [1], **Kimberley Tsujimoto** [1], **Carly Albaum** [2], **Susan Campisi** [1], **Eden Kinzel** [3], **Tricia Williams** [1], **Daphne Korczak** [1]	[1] The Hospital for Sick Children, [2] Centre for Addiction & Mental Health, [3] University of Toronto
Thu May 22	P1-F-156 - Role of hypocretin/orexin neurons in social behaviour and isolation	**Matthew Dawson** [1], **Dylan Terstege** [1], **Naila F Jamani** [1], **Van Anh Lee** [1], **Kartikeya Murari** [1], **Jonathan Epp** [1], **Derya Sargin** [1]	[1] University of Calgary
Thu May 22	P1-F-157 - Brain mechanisms of proactive and reactive cognitive control: An activation likelihood estimation meta-analysis of FMRi studies	**Mavis Kusi** [1], **Vina Goghari** [1]	[1] University of Toronto
Thu May 22	P1-F-158 - Changes in corticolimbic circuits after alcohol and stress exposure and their associations to persistent fear and reward seeking behaviours	**David Lyvers** [1], **Izabela Caliman** [1], **Jennifer Mangrum** [1], **Zeinab Ahmed** [1], **Susan Sangha** [1]	[1] Indiana University School of Medicine
Thu May 22	P1-F-159 - Extracellular vesicles derived from obese animals cause cognitive impairment in healthy animals	**Anna Conceicao** [1], **Julia Angelo** [1], **Tayna Rody** [1], **Helen Melo** [1], **Bruno Costa** [1], **Fernanda De Felice** [2]	[1] Federal University of Rio de Janeiro, [2] Queen's University
Thu May 22	P1-F-160 - Low working memory in patients with chronic back pain experiencing trauma is associated with disruptions in pain modulation circuitry	**Jennika Veinot** [1], **Javeria Hashmi** [2]	[1] Dalhousie University, Nova Scotia Health, [2] Dalhousie University
Thu May 22	P1-F-161 - Exploring the potential of music to modulate the reward circuitry and mitigate gambling disorder behaviors: a preclinical approach	**Africa Flores** [1], **Montse Flores-García** [1], **Xavier Madrid** [2], **Paloma Otero-López** [1], **Ester Aso** [1], **Jordi Bonaventura** [1], **Víctor Fernández-Dueñas** [1]	[1] Universitat de Barcelona, [2] Pharmacology Unit, Dept of Pathology & Experimental Therapeutics
Thu May 22	P1-F-162 - Stress-enhanced fear learning is influenced by nature of stressor	**Robert Aukema** [1], **Lauren Seabrook** [1], **Olga Ponomareva** [1], **Bettina Ventura** [1], **Paloma Martinez Gonzalez** [1], **Zoe Beatty** [1], **Claudia Klengel** [1], **Jakob Hartmaan** [1], **Bill Carlezon** [1], **Kerry Ressler** [1]	[1] McLean Hospital
Thu May 22	P1-F-163 - The role of post-encoding activation of the prefrontal cortex in the differential organization of recent and remote memories	**Mitra Tayaranian Marvian** [1], **Ali Golbabaei** [2], **Sheena Josselyn** [3], **Paul Frankland** [3]	[1] Sick Kids Hospital, [2] Institute of Medical Sciences, [3] The Hospital for Sick Children

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Thu May 22	P1-F-164 - The impact of parameter choice on the association between hearing loss and cognitive decline: Data from the Canadian longitudinal study on aging	**Yi Ran Wang** [1], **François Champoux** [1], **Hugo Théoret** [1]	[1] University of Montreal
Thu May 22	P1-F-165 - Chemogenetic inhibition of the ventral ca1-infralimbic cortex circuit suppresses avoidance under motivational conflict	**Nisma Khan** [1], **Charissa Cheuk** [2], **Rutsuko Ito** [1]	[1] University of Toronto, [2] University of Toronto, Scarborough
Thu May 22	P1-F-166 - Reversal learning performance in mice across biological sex following an acute stressor	**Anna Crites** [1], **Amanda Shafer** [1], **Lee Gilman** [1]	[1] Kent State University
Thu May 22	P1-F-167 - Viral tools to alter BBB gene expression and decipher its role in memory and cognition	**Alice Cadoret** [1], **Laurence Dion-Albert** [1], **Adeline Collignon** [1], **Audrey Turmel** [1], **Luisa Bandeira Binder** [1], **Laura Bevilacqua** [1], **Manon Lebel** [2], **Jessica Deslauriers** [1], **Caroline Ménard** [1]	[1] Université Laval, [2] CERVO
Thu May 22	P1-F-168 - A behavioural assay for investigating cued conflict between allocentric and egocentric spatial memory with instinctive escape in mice	**Kendall Mar** [1], **Chanbee So** [1], **Jun Chul Kim** [1]	[1] University of Toronto
Thu May 22	P1-F-169 - Reduced cerebellar scaling in the semi-aquatic bush dog (speothos venaticus)	**Demi Oddes** [1], **Paul Manger** [1], **Muhammad Spocter** [2]	[1] University of the Witwatersrand, [2] Des Moines University
Thu May 22	P1-F-170 - Increases in prediction errors shifts the brain adaptively to higher integration states	**Javeria Hashmi** [1]	[1] Dalhousie University
Thu May 22	P1-F-171 - Molecular mechanisms mediating engram ensemble retrievability state in mice	**Sungmo Park** [1], **Jung Hoon Jung** [1], **Alexander Jacob** [2], **Paul Frankland** [1], **Sheena Josselyn** [1]	[1] The Hospital for Sick Children, [2] University of Toronto
Thu May 22	P1-F-172 - Sex-dependent deficits in long-term spatial memory in GluN2A knockdown rats	**Fernanda Silva** [1], **María Florencia Acutain** [1], **Luisina Catellari** [1], **Verónica Baez** [1]	[1] Instituto de Biología Celular y Neurociencias "Profesor Eduardo De Robertis"
Thu May 22	P1-F-173 - The effect of electroconvulsive shocks on engram reactivation in ECS-induced retrograde amnesia and the potential role of adult neurogenesis	**Peiying Wen** [1], **Jason Snyder** [1], **Fidel Vila-Rodriguez** [1]	[1] University of British Columbia
Thu May 22	P1-F-174 - Activation of astrocyte Gq-signaling in the dorsal hippocampus is sufficient to facilitate social	**Paul Sheppard** [1], **Alana Babbage-Melbourne** [1], **Marco Prado** [2], **Vania Prado** [2], **Timothy Bussey** [2], **Lisa Saksida** [2]	[1] Western University, [2] University of Western Ontario

	memory absent of changes in sociability in female and male mice		
Thu May 22	P1-F-175 - The Neuromodulatory role of Orbitofrontal Noradrenaline in the control of action-outcome updating	**Hadrien Plat** [1], **Alessandro Piccin** [1], **Etienne Coutureau** [2]	[1] University of Bordeaux, [2] Universite de Bordeaux
Thu May 22	P1-F-176 - Orbitofrontal noradrenaline acts as an early gate for reversal learning	**Alessandro Piccin** [1], **Hadrien Plat** [1], **Etienne Coutureau** [2]	[1] University of Bordeaux, [2] Universite de Bordeaux
Thu May 22	P1-F-177 - VIP interneuronal dynamics in memory-encoding hippocampal spiking sequences	**Tianwei Liu** [1], **Jiannis Taxidis** [1]	[1] University of Toronto
Thu May 22	P1-F-178 - High chronic pain severity is linked with anomalies in pain modulation and periaqueductal gray connectivity	**Alireza Aleali** [1], **Javeria Hashmi** [2]	[1] Dalhousie University, Medical Neuroscience Program, [2] Dalhousie University
Thu May 22	P1-F-179 - Camkii-expressing neurons in orbitofrontal cortex are required for higher load short-term incidental memory for odours in rats	**Aiden Glass** [1], **Ilne Barnard** [1], **Kaylen Young** [1], **Justin Botterill** [1], **John Howland** [1]	[1] University of Saskatchewan
Thu May 22	P1-F-180 - Extraction of average sound level from visual scene ensembles is reliant on high spatial frequencies	**Vignash Tharmaratnam** [1], **Jonathan S. Cant** [1], **Dirk B. Walther** [2]	[1] University of Toronto, Scarborough, [2] University of Toronto
Thu May 22	P1-F-181 - Examining neuronal ensembles in the mature and developing hippocampus	**Adam Ramsaran** [1], **Alexander Jacob** [1], **Sheena Josselyn** [1], **Jiannis Taxidis** [2], **Paul Frankland** [1]	[1] The Hospital for Sick Children, [2] University of Toronto
Thu May 22	P1-F-182 - Humans actively reconfigure neural task states	**Harrison Ritz** [1], **Aditi Jha** [2], **Nathaniel Daw** [1], **Jonathan Cohen** [1]	[1] Princeton University, [2] Stanford University
Thu May 22	P1-F-183 - Multi-timescale reinforcement learning in the brain	**Paul Masset** [1], **Pablo Tano** [2], **Hyunggoo Kim** [3], **Athar Malik** [4], **Alexandre Pouget** [2], **Naoshige Uchida** [5]	[1] McGill University, [2] University of Geneva, [3] Sungkyunkwan University, [4] Brown University, [5] Harvard University
Thu May 22	P1-F-184 - Basolateral amygdala astrocytes encode anxiety states	**Ossama Ghenissa** [1], **Mathias Guayasamin Alfaro** [1], **Manon Duquenne** [1], **Sarah Peyrard** [1], **Ciaran Murphy-Royal** [1]	[1] Université de Montréal
Thu May 22	P1-F-185 - Targeting the affective/motivational component of pain by activating the delta opioid receptor	**Tarek Benchaar** [1], **Charline Belmas** [2], **Louis Gendron** [2]	[1] University of Sherbrooke, [2] Université de Sherbrooke
Thu May 22	P1-F-186 - Humans forage for reward in reinforcement learning tasks	**Meriam Zid** [1], **Veldon-James Laurie** [1], **Jorge Ramírez-Ruiz** [1], **Alix Lavigne-Champagne** [1], **Akram Shourkeshti** [2], **Dameon Harrell** [3], **Alexander B. Herman** [3], **Becket Ebitz** [1]	[1] Université de Montréal, [2] University of Montreal, [3] University of Minnesota
Thu May 22	P1-F-187 - Monkeys forgo reward for the chance to lapse	**Meriam Zid** [1], **Hiba Kellil** [2], **Veldon-James Laurie** [1], **Jorge Ramírez-Ruiz** [1], **Devin Kehoe** [1], **Becket Ebitz** [1]	[1] Université de Montréal, [2] Concordia University, Université de Montréal

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Thu May 22	P1-F-188 - A tale of two targets: Insights from PCC- and amygdala-targeted fMRI neurofeedback pilot studies and progress from a sham-controlled trial in PTSD	**Jonathan Lieberman** [1], **Ruth Lanius** [2], **Jean Theberge** [2], **Benicio Frey** [1], **Andrew Nicholson** [3]	[1] McMaster University, [2] Western University, [3] University of Ottawa; Atlas Institute of Veterans and Families
Thu May 22	P1-F-189 - Unpacking sensory processing subtypes: Insights into attention, social skills, and executive functioning abilities in children	**Natalia Van Esch** [1], **Adrianna Molenaar** [1], **Nichole Scheerer** [1]	[1] Wilfrid Laurier University
Thu May 22	P1-F-190 - Dynamics of catecholamine release in the medial pre-frontal cortex of adult mice during associative learning	**Mariama Aboudou** [1], **Joël Boutin** [2], **Sarah-Julie Bouchard** [1], **Vincent Breton-Provencher** [1]	[1] Université Laval, [2] CERVO Brain Research Center
Thu May 22	P1-F-191 - Examining the role gender differences in chronic pain experiences: Moving beyond binary sex classifications	**Rafiah Mir** [1], **Javeria Hashmi** [1]	[1] Dalhousie University
Thu May 22	P1-F-192 - Microglial TNF regulates morphine-induced behaviours in mice	**Megan Cott** [1], **Dorian Arnouil** [2], **Simone Valade** [1], **David Stellwagen** [1]	[1] McGill University, [2] Research Institute of the McGill University Heath Centre
Thu May 22	P1-G-193 - Gene immunotherapy regulated by astrocytic reactivity in a mouse model of amyloidosis	**Chinaza Dibia** [1], **Nathalie Vacaresse** [2], **Rikke Kofoed** [2], **Brandy Laurette** [2], **Luis Fernando Rubio Atonal** [2], **Dildare Yurtsever** [2], **Isabelle Aubert** [2]	[1] University of Toronto, [2] Sunnybrook Research Institute
Thu May 22	P1-G-194 - Single cell sequencing and spatial transcriptomic approaches define the murine leptomeninges:cortical brain interface	**Sarah Ebert** [1], **Christine Eisner** [1], **Konstantina Karamboulas** [2], **Louis-Philippe Bernier** [1], **David Kaplan** [2], **Brian Macvicar** [1], **Freda Miller** [1]	[1] University of British Columbia, [2] The Hospital for Sick Children
Thu May 22	P1-G-195 - A unified computational framework for implementing impact of deep brain stimulation in neural circuits	**David Crompton** [1], **Milad Lankarany** [2]	[1] University of Toronto, [2] Krembil Brain Institute, University Health Network
Thu May 22	P1-G-196 - Engineering a genetically encoded fluorescent GPCR biosensor for Relaxin-3	**Airton Sinott Carvalho** [1], **Rochelin Dalangin** [2], **Marie-Ève Paquet** [1]	[1] Université Laval, [2] CERVO Brain Research Centre
Thu May 22	P1-G-197 - Modulation of neuronal intrinsic properties to enhance network resilience using targeted electrical stimulation	**Vijithan Mangaleswaran** [1], **Taufik Valiante** [1], **Homeira Moradi** [2], **Mandana Movahed** [2], **Mustafa Kanchwala** [1], **Roman Genov** [1], **Xilin Liu** [1]	[1] University of Toronto, [2] Krembil Brain Institute, University Health Network

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Thu May 22	P1-G-198 - Automated detection of Alzheimer's disease from resting-state EEG	**Leif Simmatis** [1]	[1] Cove Neurosciences
Thu May 22	P1-G-199 - Metformin promotes expansion of human neural stem cells and reduces injury-induced damage in human cerebral organoids	**Humna Noman** [1], **Rehnuma Islam** [1], **Vorapin Chinchalongporn** [2], **Carol Schuurmans** [2], **Cindi Morshead** [1]	[1] University of Toronto, [2] Sunnybrook Research Institute
Thu May 22	P1-G-200 - A computational framework for capturing the real-world continuum of cognition and behavior	**Anthony Gagnon** [1], **Virginie Gillet** [2], **Anne-Sandrine Desautels** [1], **Jean-François Lepage** [1], **Andrea Baccarelli** [3], **Jonathan Posner** [4], **Maxime Descoteaux** [1], **Marie Brunet** [1], **Larissa Takser** [1]	[1] Université de Sherbrooke, [2] University of Sherbrooke, [3] Harvard T. H. Chan School of Public Health, [4] Duke University
Thu May 22	P1-G-201 - Efficiently plot and analyze electrophysiology data using patchclampplotteR	**Christelinda Laureijs** [1], **Karen Crosby** [1]	[1] Mount Allison University
Thu May 22	P1-G-202 - Refined buccal swab techniques for assessing mitochondrial bioenergetics	**Tina Ram** [1], **Chunlong Mu** [1], **Jaclyn Campbell** [1], **Sarah Maceachern** [1], **Jane Shearer** [1]	[1] University of Calgary
Thu May 22	P1-G-203 - Exploring brain–behavior temporal dynamics: A novel framework using white noise optogenetics and bayesian inference	**Amira Fadl** [1], **Faye Arellano** [1], **Kiana Kazeminejad** [1], **Jackson Cone** [1]	[1] University of Calgary
Thu May 22	P1-G-204 - iphage: An M13 bacteriophage-based platform for targeted gene delivery to reprogram astrocytes into neurons for neurodegenerative disease therapy	**Anna Ivanova** [1]	[1] University of Waterloo
Thu May 22	P1-G-205 - The development of a non-invasive brain computer-brain stimulation interface to enhance motor rehabilitation	**Ameer Hamoodi** [1], **Stevie Foglia** [1], **Aimee Nelson** [1]	[1] McMaster University
Thu May 22	P1-G-206 - Modeling diffusion MRI from histological tumor images: data pre-processing and theoretical framework	**Laura Beltran** [1], **Aurélie Beaudoin** [1], **Andrew Forester** [1], **Michèle Desjardins** [1], **Maxime Descôteaux** [2], **Louis Gagnon** [1]	[1] Université Laval, [2] Université de Sherbrooke
Thu May 22	P1-H-207 - The relationship between cognition and inflammation in estradiol deprivation	**Sophia Zhao** [1], **Shreeyaa Ramana** [1], **Gillian Einstein** [1]	[1] University of Toronto
Thu May 22	P1-H-208 - The neurotechnology microcredential program: An innovative and interdisciplinary pedagogical approach to prepare	**Jonathan Coutinho** [1], **Pauline Gaprielian** [1], **Susan Boehnke** [1]	[1] Queen's University

	learners for responsible innovation in the emerging field of neurotechnology		
Fri May 23	P2-A-01 - To be or not to be: Understand how neurons choose their identity and what disrupts it in autism	**Farzaneh Nobakht** [1]	[1] University of Calgary
Fri May 23	P2-A-02 - P2 purinergic receptor activation rectifies autism-associated brain endothelial dysfunction	**Julie Ouellette** [1], **Sareen Warsi** [2], **Purva Khare** [3], **Shama Naz** [4], **Leya Aubert-Tandon** [5], **Chantal Pileggi** [5], **Sozerko Yandiev** [2], **Moises Freitas-Andrade** [1], **Cesar H. Comin** [6], **Mary-Ellen Harper** [5], **Devika S. Manickam** [3], **Armen Saghatelyan** [5], **Baptiste Lacoste** [1]	[1] Ottawa Hospital Research Institute, [2] The Ottawa Hospital Research Institute, [3] Duquesne University, [4] University of Ottawa Metabolomics Core Facility, [5] University of Ottawa, [6] Federal University of São Carlos
Fri May 23	P2-A-03 - Mechanisms regulating axon diameter and their impact on neuronal function in health and disease	**Jenea Bin** [1], **Daumante Suminaite** [1], **Silvia Benito-Kwiecinski** [1], **Jason Early** [1], **Matthew Livesey** [1], **David Lyons** [1]	[1] University of Edinburgh
Fri May 23	P2-A-04 - Comparison of the projection density to the lateral entorhinal cortex among prefrontal cortical subregions in mice	**Alessia Alicandro** [1], **Silvia Margarian** [1], **Tiffany Hui** [1], **Kaori Takehara-Nishiuchi** [1]	[1] University of Toronto
Fri May 23	P2-A-05 - From cloud nine to cognitive decline: Sex- and concentration-dependent cognitive and neural effects of adolescent nicotine e-cigarette exposure in rats	**Miray Youssef** [1], **Matthew J. Jones** [1], **Enzo Pérez-Valenzuela** [1], **Mohammed Sarikahya** [1], **Marieka Devuono** [1], **Madeline Machado** [1], **Taygun C. Uzuneser** [1], **Marwa Idrissi** [1], **Leandro Val Sayson** [1], **Jibran Khokhar** [1], **Walter Rushlow** [1], **Steven Laviolette** [1]	[1] Western University
Fri May 23	P2-A-06 - Region-dependent inputs differentially mediate early life stress induced changes in prefrontal glutamate release in pre-adolescent male rats	**Jiamin Song** [1], **Muzamill Younus** [1], **Hong Long** [2], **Tak Pan Wong** [3], **Claire-Dominique Walker** [4]	[1] McGill University, [2] Douglas Institute Research Center, [3] Douglas Mental Health University Institute, [4] Douglas Institute Research Center; McGill University
Fri May 23	P2-A-07 - Establishing primary fibroblast cell cultures from Ursus maritimus to model neural development in vitro	**Nicolas Leclerc** [1], **Evan Richardson** [2], **Colin Garroway** [1], **David Yurkowski** [3], **Stephen Petersen** [4], **Meaghan Jones** [1], **Mohammed Mostajo-Radji** [5], **Sabine Mai** [1], **Yale Michaels** [1], **Lei Xing** [1], **Robert Beattie** [4]	[1] University of Manitoba, [2] Environment and Climate Change Canada, [3] Fisheries and Oceans Canada, [4] University Of Manitoba, [5] University of California, Santa Cruz
Fri May 23	P2-A-08 - Astroglial VEGF regulates postnatal cerebrovascular development in mice	**Peter Van Dyken** [1], **Baptiste Lacoste** [2]	[1] University of Ottawa, [2] Ottawa Hospital Research Institute
Fri May 23	P2-A-09 - Ehmt2-dependent gene regulation during zebrafish neurodevelopment	**Tara Mcdonnell** [1], **Francesca Meda** [1], **Vince Tropepe** [1]	[1] University of Toronto
Fri May 23	P2-A-10 - Standardization of the limited bedding and nesting materials model for early life stress	**Olivia O'neill** [1], **Dylan J Terstege** [1], **Amisha Gill** [1], **Moriah Edge-Partington** [1], **Jonathan Epp** [1], **Derya Sargin** [1]	[1] University of Calgary

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Fri May 23	P2-A-11 - Development and neural stem cell dynamics of the zebrafish rostral migratory stream	**Aurélien Caron** [1], **Benjamin Lindsey** [1]	[1] University of Manitoba
Fri May 23	P2-A-12 - Store-operated calcium entry triggers the activation of cAMP response element binding protein through the calcium/calmodulin-dependent protein kinase pathway in neural progenitor cells	**Natalina Becke** [1], **Tristen Hewitt** [1], **Steven Sheridan** [2], **Roy Perlis** [2], **Julie Brind'amour** [3], **Jasmin Lalonde** [1]	[1] University of Guelph, [2] Harvard Medical School, [3] Université de Montréal
Fri May 23	P2-A-13 - Impact of cannabis smoke exposure in utero on the development of enteric glia	**Sierra D'amico** [1], **Maria Sunil** [1], **Jasjeet Chhoker** [2], **Tina Podinic** [1], **Joanna Kasinska** [1], **Jeremy Hirota** [1], **Sandeep Raha** [1], **Elyanne Ratcliffe** [1]	[1] McMaster University, [2] University of Toronto
Fri May 23	P2-A-14 - Investigating the role of Baf53b in mouse neuronal gene expression and autism behaviours	**Megan Rowland** [1], **Fortune Rantuana** [1], **Kenza Zobaidi** [1], **Jia Gandhi** [1], **Annie Ciernia** [1]	[1] University of British Columbia
Fri May 23	P2-A-15 - Characterization of transcriptional blood-brain barrier postnatal development	**Jose Solano Lopez** [1], **Béatrice Daigle** [1], **Manon Lebel** [2], **Caroline Ménard** [1]	[1] Université Laval, [2] CERVO
Fri May 23	P2-A-16 - Maternal high fat diet and neonatal lipopolysaccharide exposure alters ultrasonic vocalization patterns in neonatal rats	**Mansi Purohit** [1], **Ingrid Woo** [2], **Mouly Rahman** [1], **Sameera Abuaish** [3], **Patrick McGowan** [2]	[1] University of Toronto, [2] University of Toronto, Scarborough, [3] Princess Nourah bint Abdulrahman University
Fri May 23	P2-A-17 - Maternal vitamin d deficiency impacts body development, locomotor activity, and ultrasonic vocalizations in female and male Wistar rat offspring	**Andrew Roebuck** [1], **Satyam Singh** [2], **Quinn Smith** [2], **Cassandra Snider** [2], **M. Afzal Javed** [2], **Wendie Marks** [2]	[1] Yukon University, [2] University of Saskatchewan
Fri May 23	P2-A-18 - Msi1a and msi1b function redundantly to regulate Müller glial cell reprogramming during retinal regeneration	**Jeffrey Stulberg** [1], **Paul Chrystal** [1], **Vamanadev Hiralall** [1], **Vince Tropepe** [1]	[1] University of Toronto
Fri May 23	P2-A-19 - Investigating the effects of hypoxia on transposable element expression during development of brain organoid models	**Ananya Aneja** [1], **Begum Alural** [1], **Natalina Becke** [1], **Steven Sheridan** [2], **Roy Perlis** [2], **Jasmin Lalonde** [1], **Jonathan Lamarre** [1]	[1] University of Guelph, [2] Harvard Medical School
Fri May 23	P2-A-20 - Developmental recruitment of medial prefrontal cortex to amygdala pathway by fear learning	**Hanista Premachandran** [1], **Anna Canella** [2], **Melina Matthiesen** [1], **Maithe Arruda Carvalho** [2]	[1] University of Toronto, [2] University of Toronto, Scarborough
Fri May 23	P2-A-21 - Synaptopodin: A novel therapeutic target for treatment of ASD	**Loc Dang** [1], **Peiyou Wu** [1], **Ilse Gantois** [1], **Nahum Sonenberg** [1], **Anne Mckinney** [1]	[1] McGill University

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Fri May 23	P2-A-22 - Assessment of the role of adaptor protein SHcD in murine adult neurogenesis	**Hyeyun Yang** [1], **Cassandra Clausen** [1], **Begum Alural** [1], **Nina Jones** [1]	[1] University of Guelph
Fri May 23	P2-A-23 - Adult hippocampal neurogenesis in response to early-life stressors: Potential benefits of environmental enrichment	**Priscilla Welter** [1], **Matheus Nascimento** [1], **Ian Hübner** [1], **Claudia Bianco** [1], **Eloisa Pavesi** [1], **Patricia Brocardo** [1]	[1] Federal University of Santa Catarina
Fri May 23	P2-A-24 - Npat regulates nucleosome composition and retinal progenitor cell behaviour in the postembryonic ciliary marginal zone	**Michael Mattocks** [1], **Maria Sartori** [1], **Audrey Chong** [1], **Jason Willer** [2], **Ronald Gregg** [2], **Vince Tropepe** [1], **Monica Dixon** [1]	[1] University of Toronto, [2] University of Louisville
Fri May 23	P2-A-25 - Modeling group 4 medulloblastomas (G4MBS) with mouse cerebellar organoids	**Marco Kai Yuen Ho** [1], **Daniel Goldowitz** [1], **Andrew Wilk** [2], **Joanna Yeung** [1], **Maryam Rahimi-Balaei** [1], **Lisa Postelt** [3], **Catalina Holguin-Rico** [4], **Kia Rashidi** [1], **Braxton Chan** [1]	[1] University of British Columbia, [2] University of South California, [3] BTU institute of Biotechnology, [4] Universidad de los Andes
Fri May 23	P2-A-26 - The impact of chronic late adolescent stress on adult sociability in male and female mice	**Caden Whitfield** [1], **Pouria Valipour Karimi** [1], **Tamara Franklin** [1]	[1] Dalhousie University
Fri May 23	P2-A-27 - Long-term neuronal and molecular maladaptation in the mesocorticolimbic system produced by adolescent edible delta-9-tetrahydrocannabinol consumption	**Marieka Devuono** [1], **Samantha Anderson** [1], **Amanda Alcaide** [1], **Mathusha Pusparajah** [1], **Juan-Pablo Galindo Lazo** [1], **Mohammed Sarikahya** [1], **Matthew J. Jones** [1], **Leandro Val Sayson** [1], **Marta De Felice** [1], **Hanna Szkudlarek** [2], **Ken K-C Yeung** [1], **Walter Rushlow** [1], **Steven Laviolette** [1]	[1] Western University, [2] University of Western Ontario
Fri May 23	P2-A-28 - Intestinal microbiome-modulation of microglia in the developing brain	**Shreya Gandhi** [1], **Jordan Hamden** [1], **Claire Sie** [1], **Carolina Tropini** [1], **Annie Ciernia** [1]	[1] University of British Columbia
Fri May 23	P2-B-29 - Investigating how TREM2 regulate the response of macrophages and microglia to oxidized phosphatidylcholine in multiple sclerosis	**Jian Park** [1], **Ruoqi Yu** [1], **Kenny Ta** [1], **Jeff Dong** [1]	[1] University of Saskatchewan
Fri May 23	P2-B-30 - Elucidating the unexpected memory suppression role of a vesicle trafficking protein, sec22	**Akhila Eswaran** [1], **Anna Phan** [1]	[1] University of Alberta
Fri May 23	P2-B-31 - Alternative splicing of NMDA receptor subunit GluN1 controls the kinetics of blockade by ketamine	**Wenbo Zhang** [1], **Alina He** [2], **Doyeon Kim** [3], **Yongqian Wang** [3], **Michael Salter** [1]	[1] The Hospital for Sick Children, [2] University of Toronto, [3] Hospital for Sick Children
Fri May 23	P2-B-32 - Characterizing Mef2 transcription factors in healthy adult microglia	**William Saxon** [1], **David Gosselin** [1], **Stéphanie Fiola** [1], **Nesrine Belhamiti** [1]	[1] Centre de recherche du CHU Québec - Université Laval, Axe Neurosciences

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Fri May 23	P2-B-33 - Investigating glia dysfunction in the 15q13.3 microdeletion syndrome	**Jennifer Boateng** [1], **Karun Singh** [2]	[1] University of Toronto, [2] University Health Network
Fri May 23	P2-B-34 - Astrocytes drive sexually dimorphic effects of stress on orexin neurons and behavior	**Lewis Depaauw-Holt** [1], **Sarah Hamane** [1], **Clara Ireland** [1], **Sarah Peyrard** [2], **Benjamin Rogers** [1], **Anthony Bosson** [2], **Stephanie Fulton** [1], **Ciaran Murphy-Royal** [1]	[1] Université de Montréal, [2] CRCHUM
Fri May 23	P2-B-35 - Optogenetic stimulation of astroglia prevents dopamine neuron degeneration	**Jessica Mcneill** [1], **Ivan Trujillo-Pisanty** [2], **Stephanie Simard** [1], **Chris Rudyk** [1], **Chase Groulx** [1], **Kyle Farmer** [1], **Shawn Hayley** [1], **Gianfilippo Coppola** [3], **Natalina Salmaso** [1]	[1] Carleton University, [2] Concordia University, [3] Yale University
Fri May 23	P2-B-36 - PVN astrocytes regulate corticosterone secretion and stress responses	**Manon Duquenne** [1], **Clara Ireland** [1], **Mathias Guayasamin Alfaro** [1], **Romane Manceau** [1], **Sarah Peyrard** [2], **Thierry Alquier** [1], **Ciaran Murphy-Royal** [1]	[1] Université de Montréal, [2] CRCHUM
Fri May 23	P2-B-37 - Astrocyte calcium activity tunes fear memory specificity	**Mathias Guayasamin Alfaro** [1], **Lewis Depaauw-Holt** [1], **Ifeoluwa Adedipe** [1], **Ossama Ghenissa** [1], **Juliette Vaugeois** [1], **Manon Duquenne** [1], **Benjamin Rogers** [1], **Jade Latraverse-Arquilla** [1], **Sarah Peyrard** [2], **Anthony Bosson** [2], **Ciaran Murphy-Royal** [1]	[1] Université de Montréal, [2] CRCHUM
Fri May 23	P2-B-38 - Mpfc-VTA synaptic transmission drives cognitive performance and is disrupted by chronic stress: Transcriptional and synaptic deficits	**Luca Pancotti** [1], **Samaneh Mansouri** [2], **André Moreira Pessoni** [1], **Karina Huot** [1], **Éloïse Dumas** [2], **Marco D'Angelo** [3], **Quentin Leboulleux** [1], **Christophe Proulx** [1], **Benoit Labonte** [1]	[1] Université Laval, [2] Laval University, [3] CERVO Brain Research Center
Fri May 23	P2-B-39 - C9orf72-knockout mice show heightened susceptibility to excitotoxicity via dysregulated glutamate receptor	**Belay Gebregergis** [1], **Liam Ralph** [1], **Graham Collingridge** [1], **Janice Robertson** [1]	[1] University of Toronto
Fri May 23	P2-B-40 - Disruption of TrkC-PTPσ complex formation impairs synapse maturation and alters glutamate release in CA1 pyramidal neurons	**Zahra Ghasemi** [1], **Kyle Patel** [1], **Husam Khaled** [2], **Hideto Takahashi** [2], **Steven Connor** [1]	[1] York University, [2] Université de Montréal
Fri May 23	P2-B-41 - Pannexin1 channels modulate excitation-inhibition balance and neural network dynamics in larval zebrafish	**Fatema Nakhuda** [1], **Georg Zoidl** [1], **Christiane Zoidl** [1], **Armin Bahl** [2], **Georg Zoidl** [1]	[1] York University, [2] University of Konstanz
Fri May 23	P2-B-42 - Sex differences in a stress induced depressive phenotype: a time course of behavioural and central effects	**Maja Ramljak** [1], **Sydney Simard** [1], **Stephanie Simard** [1], **Alex Abou-Falah** [1], **Matthew Bacic** [1], **Chase Groulx** [1], **Argel Aguilar Valles** [1], **Gianfilippo Coppola** [2], **Natalina Salmaso** [1]	[1] Carleton University, [2] Yale University
Fri May 23	P2-B-43 - The HCN channel modulates muscarinic acetylcholine receptor function in the juvenile mouse entorhinal cortex	**Ashley Geremia** [1], **Craig Bailey** [1]	[1] University of Guelph

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Fri May 23	P2-B-44 - Success in transitive inference is associated with the activation of the medial prefrontal cortex in mice	**Silvia Margarian [1], Yihan Chen [1], Yupeng Yao [1], Tiffany Hui [1], Alessia Alicandro [1], Kaori Takehara-Nishiuchi [1]**	[1] University of Toronto
Fri May 23	P2-B-45 - Comparative optomapping of V1 and M1 reveals layer-specific microcircuit structure	**Shawniya Alageswaran [1], Haley Renault [1], Linn Dragsted [1], Christina Chou [1], Aparna Suvrathan [1], Per Jesper Sjostrom [1]**	[1] McGill University
Fri May 23	P2-B-46 - Reduction of MDGA2 in Mus musculus impairs synaptic long-term depression during the synaptic pruning critical period	**Katherine Andrec [1], Steven Connor [1]**	[1] York University
Fri May 23	P2-B-47 - TRACR: a molecular tool to investigate the retinal connectivity	**Mostafa Ibrahimi [1], Madison Gray [2], Akshay Gurdita [1], Victor Pham Truong [1], Sara Dabiri [1], Paula Pietraszkiewicz [3], Arturo Ortin-Martinez [1], Chris Liu [1], Parnian Dolati-Ardejani [1], Lacrimioara Cre Comanita [1], Julie Lefebvre [4], Valerie A. Wallace [5]**	[1] Donald K Johnson Eye Institute, Krembil Research Institute, [2] Hospital for Sick Children, [3] University of Toronto, [4] The Hospital for Sick Children, [5] University Health Network
Fri May 23	P2-B-48 - Targeting SRSF3 modulates microglia immune response and improves cognitive function in Alzheimer's Disease model	**Victor Coelho [1], Hejer Boutej [2], Sonia Djebbar [3], Jasna Kriz [3]**	[1] Université Laval, [2] CRIUSM, [3] Universtité Laval
Fri May 23	P2-B-49 - Enhancement of synaptic transmission onto somatostatin interneurons under acidic conditions is mediated by mGLUR7	**Tevye Stachniak [1]**	[1] Memorial University of Newfoundland
Fri May 23	P2-B-50 - The role of cadherin-13 in cortical interneurons and cognitive function	**Zahra Abbasnejad [1], Pegah Chehrazi [1], Graziella Di Cristo [2], Karen Lee [1], Derek Robertson [3], Graciella Pineyro [2], Klaus-Peter Lesch [4], Bidisha Chattopadhyaya [3]**	[1] Université de Montréal, [2] CHU Sainte-Justine Research Center, Université de Montréal, [3] CHU Sainte-Justine Research Center, [4] Maastricht University
Fri May 23	P2-B-51 - Level of circulating estradiol impacts the cholinergic modulation of excitatory synaptic transmission in the entorhinal cortex	**Kiera Tordon [1], Ariel Batallan Burrowes [1], Andrew Chapman [1]**	[1] Concordia University
Fri May 23	P2-B-52 - Neurosteroid modulation of muscarinic acetylcholine responses in the mouse medial prefrontal cortex	**Donia Zeng [1], Craig Bailey [1]**	[1] University of Guelph
Fri May 23	P2-B-53 - Elucidating the role of distinct neural stem cell lineages in stroke	**Natija Aldib [1], Yingben Xue [2], Diane Lagace [2], Armen Saghatelyan [2], Ayman Elali [3]**	[1] Laval University, [2] University of Ottawa, [3] Université Laval
Fri May 23	P2-B-54 - Deciphering the dynamics of adult neural stem cells activation and their regenerative potential in freely behaving mice	**Raquel Rodriguez Aller [1], Sarah Malvaut [2], Alina Marymonchyk [3], Sareen Warsi [4], Armen Saghatelyan [5]**	[1] Laval University; University of Ottawa, [2] CERVO Brain Research Centre, [3] Université Laval, [4] The Ottawa Hospital Research Institute, [5] University of Ottawa

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Fri May 23	P2-B-55 - Microglial dynamics in response to recurring stimulus in vivo	**Craig Brown** [1], **Frances Armas** [1]	[1] University of Victoria
Fri May 23	P2-B-56 - Noradrenaline recruits hypothalamic PVN astrocytes to regulate CRH-PVN neuron activity during fear learning	**Govind Peringod** [1], **Patrick Grovue** [1], **Mijail Rojas-Carvajal** [1], **Jaideep Bains** [2], **Grant Gordon** [1]	[1] University of Calgary, [2] University Health Network
Fri May 23	P2-B-57 - Optogenetic silencing of medial septum glutamatergic neurons distorts grid cell spatial firing and alters velocity coding in the medial entorhinal cortex	**Jennifer Robinson** [1], **James Carmichael** [2], **Michael Hasselmo** [3], **Mark Brandon** [2]	[1] Boston University, McGill University, [2] McGill University, [3] Boston University
Fri May 23	P2-B-58 - Single-nucleus transcriptomic and chromatin accessibility analysis of rat hippocampal cells following amyloid-beta oligomers injections	**Tra-My Vu** [1], **Klarissa Leduc** [1], **Jonathan Brouillette** [1], **Newton Martin** [1]	[1] Université de Montréal
Fri May 23	P2-B-59 - Uncovering the role of primary cilia in astrocyte reactivity following adolescent mild traumatic brain injury	**Mehr Malhotra** [1], **Lizheng Wang** [1], **Tom Carr** [1], **Alexander Lohman** [1], **Jiami Guo** [1]	[1] University of Calgary
Fri May 23	P2-B-60 - CREB-induced PDE10A expression is disrupted in humans by LINC00473	**Shelby Squires** [1], **Brandon Smith** [1], **Emma Campbell** [1], **Venkata Sai Sruthi Bandi** [1], **Brandon Macdonald** [1], **Adam Johnston** [2], **J. Patrick Murphy** [1], **P Joel Ross** [1]	[1] University of Prince Edward Island, [2] Dalhousie University
Fri May 23	P2-B-61 - G-protein mediated regulation of glial activation and TNF production	**Zahra Abbasi** [1], **David Stellwagen** [1]	[1] McGill University
Fri May 23	P2-B-62 - Sex differences in the effect of acute cannabis exposure on microglia in the prelimbic cortex in adult mice	**Haley Vecchiarelli** [1], **Hayley Thorpe** [2], **Sophia Loewen** [1], **Colin Murray** [1], **Colby Sandberg** [1], **Luke Rainier-Pope** [1], **Hakan Kayir** [3], **Jibran Khokhar** [4], **Marie-Eve Tremblay** [1]	[1] University of Victoria, [2] University of Guelph, [3] University of Western Ontario, [4] Western University
Fri May 23	P2-B-63 - The Role of Endogenous Retroviruses in Regulating Microglial Activation in the Hippocampus	**Jatin Choudhary** [1], **Tatiana Lau** [1], **Maria Tokuyama** [1], **Annie Ciernia** [1]	[1] University of British Columbia
Fri May 23	P2-B-64 - Primary cilia signaling shapes excitatory synaptic connectivity	**Lizheng Wang** [1]	[1] University of Calgary
Fri May 23	P2-B-65 - Sensory cortex-specific differences in parvalbumin interneurons intrinsic and morphological properties	**Ruggiero Francavilla** [1], **Benjamin Campbell** [2], **Bidisha Chattopadhyaya** [3], **Graziella Di Cristo** [4]	[1] Centre de recherche du CHU Sainte-Justine, Université de Montréal, [2] University of Montreal, [3] CHU Sainte-Justine Research Center, [4] CHU Sainte-Justine Research Center, Université de Montréal

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Fri May 23	P2-B-66 - Estrous cycle regulation of cortical inhibitory neurons and stimulus perception in the adult mouse auditory cortex	**Benjamin Campbell** [1], **Ruggiero Francavilla** [2], **Pegah Chehrazi** [3], **Maria Isabel Carreno Munoz** [4], **Graziella Di Cristo** [5]	[1] University of Montreal, [2] Centre de recherche du CHU Sainte-Justine, Université de Montréal, [3] Université de Montréal, [4] CHU Sainte Justine/University of Montreal, [5] CHU Sainte-Justine Research Center, Université de Montréal
Fri May 23	P2-B-67 - Suppressive mechanisms of amyloid beta on NMDAR-induced excitotoxicity	**Noam Steinberg** [1], **Laura Ansell** [2], **Roger Thompson** [2]	[1] University of Calgary, [2] Hotchkiss Brain Institute
Fri May 23	P2-B-68 - Poly-unsaturated lipids enhance membrane associated condensates to rescue morpho-functional deficits of cerebellar Pinceau terminals in a mouse model of autism	**Jason Arsenault** [1], **Tian Kong** [2], **Rayan Saghian** [3], **Octavia Weng** [3], **Salil Saurav Pathak** [4], **Chengye Yang** [3], **Owen Y. Chao** [4], **Gaddy Rakhaminov** [5], **Julie D. Forman-Kay** [5], **Jonathon Ditlev** [3], **Yimei Yang** [4], **Lu-Yang Wang** [1]	[1] Sick Kids Hospital, [2] University of Toronto, [3] The Hospital for Sick Children, [4] University of Minnesota, [5] Hospital for Sick Children
Fri May 23	P2-B-69 - Exploring immune-mediated modulation of striatal dopamine release in a genetic mouse model of Parkinson's disease	**Camila Tiefensee-Ribeiro** [1], **Anusha Kamesh** [2], **Christina Gentle** [1], **Austen Milnerwood** [1]	[1] McGill University, [2] University Health Network
Fri May 23	P2-B-70 - Characterization of α7 and α4β2 nicotinic cholinergic responses in layer 1 medial prefrontal cortical neurons	**Mohammadfoad Abazari** [1], **Kerry Delaney** [1], **Raad Nashmi** [1]	[1] University of Victoria
Fri May 23	P2-B-71 - The extent of Ca2+ influx limits the role of handling mechanisms in controlling Ca2+ channel Ca2+-dependent inactivation in Aplysia bag cell neurons	**Ariane Hadziomerovic** [1], **Neil Magoski** [1]	[1] Queen's University
Fri May 23	P2-B-72 - Molecular and cellular mechanisms of the long-lasting effects of psychedelics and their non-hallucinogenic derivatives	**Vern Lewis** [1], **Gianfilippo Coppola** [2], **Argel Aguilar Valles** [1]	[1] Carleton University, [2] Yale University
Fri May 23	P2-B-73 - Use-dependent facilitation of postsynaptic electrotonic potentials by uniform vs random ~1 Hz stimulation in electrically coupled bag cell neurons	**Hayley Albert** [1], **Neil Magoski** [1]	[1] Queen's University
Fri May 23	P2-C-74 - Striatal dopamine dynamics and motor learning in the YAC128 model of Huntington disease	**Judy Cheng** [1], **Timothy O'leary** [1], **Tony Fong** [1], **Lynn Raymond** [1]	[1] University of British Columbia
Fri May 23	P2-C-75 - Multi-parameter screening assay for TDP-43 patient derived	**Elena Pasho** [1], **Manon Marchais** [2], **Edor Kabashi** [2], **Sorana Ciura** [3]	[1] INSERM UMR 1163, Universite Paris Cite, [2] Institut Imagine, INSERM UMR 1163, [3] Institut Imagine, INSERM, Université Paris

	motor neurons for ALS therapeutic development		
Fri May 23	P2-C-76 - Effects of genotype and age on olfactory discrimination and reversal learning performance in neurexin1 +/- transgenic mice	**Simone Shaw-Litzgus** [1], **Mohammed Ali Ahmed** [1], **Wyatt Ortibus** [1], **Richard Brown** [1]	[1] Dalhousie University
Fri May 23	P2-C-77 - Characterizing potassium-chloride co-transporter 2 (KCC2) protein interactions in Huntington's disease	**Lilliana Pavicic** [1], **Vineeth A Raveendran** [1], **Jessica Pressey** [1], **Melanie Woodin** [1]	[1] University of Toronto
Fri May 23	P2-C-78 - Investigating early alterations in brain ensheathing pericytes and cerebral blood flow in 5xFAD mice	**Catherine Bland** [1], **Jessica Meza Resillas** [1], **John Rosario** [1], **Dmytro Koval** [1], **Jillian Stobart** [1]	[1] University of Manitoba
Fri May 23	P2-C-79 - Hippocampal Interneuron dysfunction in sensory encoding and working memory in a mouse model of schizophrenia	**Mark Gerlai** [1], **Jacob Duda** [2], **Tianwei Liu** [2], **Maya Viegas** [3], **Gabriel Ma** [2]	[1] The Hospital for Sick Children, [2] University of Toronto, [3] University of Toronto / Hospital for Sick Children
Fri May 23	P2-C-80 - Application of an αSyn-binding aptamer to reduce protein aggregation in a cell model of Parkinson's disease	**Kate Harris** [1], **Matthew Holahan** [1]	[1] Carleton University
Fri May 23	P2-C-81 - The impact of a murine coronavirus (mhv-jhm) upon alpha-synuclein and inflammatory factors in primary wild-type and lrrk2 g2019s mutant microglia and midbrain neuronal cultures	**Stephanie Hobbs** [1], **Shawn Hayley** [1]	[1] Carleton University
Fri May 23	P2-C-82 - Differential responses to punishment: exploring individual variability in oral morphine consumption and foot shock sensitivity in rats	**Rita El Azali** [1], **Ava Noon** [1], **Adiia Stone** [1], **Siobhan Latremouille** [1], **Alexandria Mcginn** [1], **Erin Rock** [1], **Scott Barrett** [2], **Jennifer Murray** [1]	[1] University of Guelph, [2] Department of Psychology, University of Nebraska, Lincoln, Nebraska, USA
Fri May 23	P2-C-83 - Investigating cell types and pathways responsible for increased seizure generation in a model of neurofibromatosis type 1	**Avery Cameron** [1], **Marawan Sadek** [2], **Victoria Lin** [1], **Fatima Hussami** [2], **Mingdong Yang** [2], **Aylin Reid** [3]	[1] University of Toronto, [2] Krembil Research Institute; University Health Network, [3] University Health Network/University of Toronto
Fri May 23	P2-C-84 - Microglial gene signatures and therapeutic targets in a murine model of perinatal cerebellar injury	**Marianne Mengus** [1], **Benjamin Boucher** [2], **Roqaya Imane** [3], **Sophie Tremblay** [4]	[1] Centre de recherche Azrieli du CHU Sainte Justine, [2] Research Center at CHU Sainte-Justine, [3] Centre de recherche du CHU Sainte Justine, [4] CHU Ste-Justine Research Centre

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Fri May 23	P2-C-85 - Dysregulated mRNA translation and schizophrenia-relevant behaviours in mice	**Brandon Rodrigue [1], Edna Matta-Camacho [1], Vern Lewis [1], Argel Aguilar Valles [1]**	[1] Carleton University
Fri May 23	P2-C-86 - Accelerated intermittent theta burst stimulation targeted to M1 combined with balance training improves balance in an individual with corticobasal syndrome	**Karishma Ramdeo [1], Stevie Foglia [2], Malaikah Ahmad [2], Nafia Al-Mutawaly [2], Justin Lee [2], Robert Chen [3], Aimee Nelson [2]**	[1] McMaster Univeristy, [2] McMaster University, [3] Krembil Brain Institute, University Health Network
Fri May 23	P2-C-87 - Proteomic, metabolomic, and physiological profiling uncovers widespread dysfunction of energetic pathways in medial prefrontal cortex synapses during protracted abstinence from heroin intake	**Yun Young [1], Romain Durand De-Cuttoli [1], Tamara Markovic [1], Angelica Minier-Toribio [2], Arthur Godino [3], Freddyson Martinez-Rivera [4], Rita Futamura [1], Joseph Landry [1], Annie Ly [5], James Callens [1], Yasmin Hurd [1], Eric Nestler [1], Caleb Browne [6]**	[1] Icahn School of Medicine at Mount Sinai, [2] Yale School of Medicine, [3] INSERM, [4] University of Florida, [5] University of Colorado, Boulder, [6] Centre for Addiction & Mental Health
Fri May 23	P2-C-88 - Repeated sub-concussive impact exposure compromises white matter integrity in collegiate football players	**Sebastian D'amario [1], Blaire Magee [2], Allen Champagne [3], Nicole Coverdale [1], Dj Cook [1]**	[1] Queen's University, [2] Dalhousie University, [3] Duke University
Fri May 23	P2-C-89 - Morphological and functional dysfunctions of mitochondria in the cerebellum of the Christianson syndrome mouse model	**Atchaya Kanagasabai [1], Tsz Chui Sophia Leung [1], Alanna Watt [1], Anne Mckinney [1]**	[1] McGill University
Fri May 23	P2-C-90 - Opioidergic neurons in the anterior cingulate cortex are required for placebo analgesia in mice with chronic neuropathic pain	**Damien Boorman [1], Simran Rehal [1], Seyed Asaad Karimi [1], Loren Martin [1]**	[1] University of Toronto, Mississauga
Fri May 23	P2-C-91 - Emergence of spatiotemporal engrams in stem cell-derived neuronal networks: Effects of SHANK2 mutations	**Marjan Mahmoudi [1], James Ellis [2], Julio Martinez-Trujillo [1]**	[1] Robarts Research Institute, [2] University of Toronto
Fri May 23	P2-C-92 - Role of p66shc in hippocampal neurogenesis and modulating NRf2 activity in an Alzheimer's disease mouse model	**Reza Khazaee [1], Robert Cumming [1]**	[1] Western University
Fri May 23	P2-C-93 - Progression of olfactory function and alpha-synucleinopathy in Parkinson's disease fibril model	**Ruth Tran [1], Juliet Arsenault [1], Zihe Chen [1], Jun Chul Kim [1]**	[1] University of Toronto
Fri May 23	P2-C-94 - Reserve or repair? Using a repeated injury model to challenge the regenerative capacity of radial glial cells in the zebrafish forebrain	**Sanjana Grover [1], Benjamin Lindsey [1]**	[1] University of Manitoba

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Fri May 23	P2-C-95 - Chloride regulation and GABAergic transmission during the developmental GABA switch in the striatum of Huntington's disease	**Gajeni Prabaharan** [1], **Melissa Serranilla** [1], **Jessica Pressey** [1], **Melanie Woodin** [1]	[1] University of Toronto
Fri May 23	P2-C-96 - Effect of L-Theanine on Cerebellar Granule Cell Migration related to cognitive disorders	**Mai Hosameldin Mohamed Kamal Ibrahim** [1], **Masahiro Nishio** [2], **Kuriya Kenji** [3], **Hayato Umekawa** [3]	[1] PhD student, [2] Mie University, Nutritional Chemistry lab, [3] Mie University
Fri May 23	P2-C-97 - Stearoyl-CoA desaturase inhibition leads to fatty acids normalization and improved dendritic spine density in the hippocampus of the 5xFAD mouse model	**Marta Turri** [1], **Myriam Aubin** [1], **Laura Hamilton** [2], **Anne Aumont** [1], **Annick Vachon** [1], **Mélanie Plourde** [1], **Karl Fernandes** [1]	[1] Université de Sherbrooke, [2] Université de Montréal
Fri May 23	P2-C-98 - A novel intravenous antisense oligonucleotide therapy approach in a mouse model of Dravet syndrome	**Lakshmini Balachandar** [1], **Delphine Ji** [2], **Shanthini Mylvaganam** [3], **Subha Dahal** [4], **Mahsa Taherzadeh** [4], **Chunsheng He** [4], **Caifan Tang** [2], **Azhar Z Abbasi** [4], **Mohammad Ali Amini** [4], **Peter L. Carlen** [5]	[1] Krembil Research Institute; University of Utah, [2] University of Toronto, [3] Krembil Research Institute, [4] QurCan Therapeutics Inc., [5] Krembil Research Institute; University of Toronto
Fri May 23	P2-C-99 - Non-invasive delivery of AAV9.SIRT3-myc via MR-guided-focused ultrasound as a disease-modifying therapy in a rat model of Parkinson's disease	**Dennison Trinh** [1], **Madeline Mensher** [1], **Elfin Akteke** [1], **Ahmad Israwi** [1], **Ivy Pham** [1], **Lina Al Halabi** [2], **Kate Noseworthy** [3], **Sheng-Kai Wu** [3], **Rikke Kofoed** [3], **Isabelle Aubert** [3], **Kullervo Hynynen** [3], **Joanne Nash** [1]	[1] University of Toronto, [2] University of Toronto, Hospital for Sick Children, [3] Sunnybrook Research Institute
Fri May 23	P2-C-100 - Decoding alternative polyadenylation mechanisms in ALS and FTLD through a single-nucleus transcriptome atlas of the orbitofrontal cortex	**Paul Mckeever** [1]	[1] University of Toronto
Fri May 23	P2-C-101 - The role of docosahexaenoic acid, an omega-3 fatty acid, as an acute post-stroke treatment	**Mccrae Best** [1], **Jacqueline Vanderluit** [1]	[1] Memorial University of Newfoundland
Fri May 23	P2-C-102 - Long-term neuronal network disruptions in the retrosplenial cortex-hippocampus circuit underlie neonatal hypoxic-ischemic brain injury	**Meng Yang** [1], **Lida Du** [2], **Zhong-Ping Feng** [1]	[1] University of Toronto, [2] Johns Hopkins University
Fri May 23	P2-C-103 - High 2-AG potentiates amphetamine-induced dopamine levels; Prolonging dopamine time-course and increasing peak levels	**Catharine Mielnik** [1], **Brandon Oliver** [2], **Stefan Vislavski** [1], **Andrew Villa** [2], **Natalie Zlebnik** [3], **Ruth Ross** [1]	[1] University of Toronto, [2] University of California Riverside, [3] University of California, Riverside School of Medicine

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Fri May 23	P2-C-104 - Purinergic dysregulation in the Fmr1-knockout mouse hippocampus	**Matthew Napier** [1], **Nimrah Imtiaz** [2], **Angela Scott** [2], **Alivia Moneypenny** [2]	[1] McMaster University, [2] University of Guelph
Fri May 23	P2-C-105 - Cytokine expression changes in the striatum of the AAV-aSyn rat model of Parkinson's Disease	**Anna Oliinyk** [1], **Patrick Howson** [1], **Jonathan Brotchie** [1]	[1] Atuka Inc.
Fri May 23	P2-C-106 - Treatment with a pH modulator partially rescues glutamate-aspartate transporter (GLAST) mistrafficking in a Christianson syndrome mouse model	**Julia Tourbina-Kolomiets** [1], **Atchaya Kanagasabai** [1], **Louis-Charles Masson** [1], **Anne Mckinney** [1]	[1] McGill University
Fri May 23	P2-C-107 - The impact of blood-brain barrier modulation by focused ultrasound on oligodendrogenesis for Alzheimer's disease	**Kate Noseworthy** [1], **Joseph Silburt** [1], **Laura Vecchio** [1], **Alessia Apa** [1], **Sheng-Kai Wu** [1], **Kristina Mikloska** [1], **Luis Fernando Rubio-Atonal** [1], **Brandy Laurette** [1], **Kullervo Hynynen** [1], **Isabelle Aubert** [1]	[1] Sunnybrook Research Institute
Fri May 23	P2-C-108 - Targeting anaplastic lymphoma kinase (ALK) ameliorates synaptic dysfunction linked to C9orf72 haploinsufficiency	**Bryan Kartono** [1], **Liliana Attisano** [1], **Janice Robertson** [1]	[1] University of Toronto
Fri May 23	P2-C-109 - Temporal characterization of alpha-synuclein pathology in a bilateral model of Parkinson's disease	**Donya Aref** [1], **Patrick Howson** [1], **Jonathan Brotchie** [1]	[1] Atuka Inc.
Fri May 23	P2-C-110 - Acute effects of functional electrical stimulation during visual feedback balance training on corticospinal and spinal excitability in individuals with incomplete spinal cord injury: a case-control study	**Shirin Tajalli** [1], **Kai Lon Fok** [2], **William Pei** [3], **Derrick Lim** [3], **Jae W. Lee** [3], **Kristin Musselman** [4], **Kei Masani** [4]	[1] University Health Network, [2] University of Toronto, [3] Institute of Biomedical Engineering, University of Toronto, [4] Toronto Rehabilitation Institute – University Health Network
Fri May 23	P2-C-111 - The role of beta-parvin in the regulation of blood flow dynamics in Ischemic stroke	**Tanaka Maravanyika** [1], **Craig Brown** [2]	[1] University Of Victoria, [2] University of Victoria
Fri May 23	P2-C-112 - Habenula-targeted DBS as a therapy for emotional and sensory dysfunctions in fragile X-ASD mice	**Flavia Venetucci Gouveia** [1]	[1] The Hospital for Sick Children
Fri May 23	P2-C-113 - Characterizing the effects on resting-state MRI, cognitive flexibility, and daily activity of preformed fibrils (PFF) injection in marmosets' striatum	**Jiayue Yang** [1], **Tyler Cook** [1], **Constance Dollet** [1], **Maeva Gacoin** [1], **Justine Clery** [1]	[1] McGill University

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Fri May 23	P2-C-114 - Discovery of a novel chronic schizophrenia subtype and its association with vascular brain pathology on autopsy	**Naomi Futhey [1], Elizabeth Gregory [1], Belen Arranz [2], Josep Maria Haro [2], Fidel Vila-Rodriguez [1], Mark Cembrowski [1], Veronica Hirsch-Reinshagen [1]**	[1] University of British Columbia, [2] Sant Joan de Déu, Serveis de Salut Mental
Fri May 23	P2-C-115 - Unlocking the impact of THC on sleep and breathing: A new frontier in sleep therapy	**Ismail Babale [1], Mitchell Prostebby [1], Silvia Pagliardini [2], Clayton Dickson [2]**	[1] Neuroscience and Mental Health Institute, University of Alberta, [2] University of Alberta
Fri May 23	P2-C-116 - Anxiodepressive-like behaviour changes and dendritic structural plasticity in the ACC of mice with chronic neuropathic pain	**Danielle Halasz [1], Jaime Tuling [1], Ana Leticia Simal [1], Giannina Descalzi [1]**	[1] University of Guelph
Fri May 23	P2-C-117 - Somatostatin receptor 1 promotes neuritogenesis and stabilizes Microtubule-associated proteins in Alzheimer's disease models	**Sneha Singh [1], Sarah Ng [1], Jaysheen Badohal [1], Ashish Sarkar [1], Ujendra Kumar [1]**	[1] University of British Columbia
Fri May 23	P2-C-118 - Role of Dickkopf-1 in thrombo-inflammation associated with cerebrovascular diseases	**Evaëlle Ferton [1], Romain Menet [1], Anne Sophie Allain [2], Ayman Elali [2]**	[1] Laval University, [2] Université Laval
Fri May 23	P2-C-119 - A multimodal approach to studying STXBP1 disorders in zebrafish	**Scott C. Baraban [1], Anjelica Vance [2], Eoghan Treanor [3]**	[1] University of California, [2] University of California, Berkeley, [3] University of California San Francisco
Fri May 23	P2-C-120 - Prophylactic effect of physical exercise and/or agmatine against lipopolysaccharide-induced depressive-like behavior and inflammatory-related parameters in male mice	**Pedro Borges De Souza [1], Gabrieli Muller Duarte [2], Louise Castro De Jesus [2], Laura De Araujo Borba [2], Melania Santer [2], Eloíse Clemes Alves [2], Marina Souza Zarske De Mello [2], Sofia Alves Rodrigues [2], Ana Paula Valverde [2], Yasmin Camile De Souza [2], Bruna Reque Kouba [2], Ana Lúcia Severo Rodrigues [2]**	[1] Federal University of Santa Catarina, [2] Federal University of Santa Catarina, Florianópolis
Fri May 23	P2-C-121 - Characterization of a novel subpopulation of PDGFRβ-derived perivascular glial cells in the adult brain	**Margaux Rivière [1], Anne Sophie Allain [1], Daniel Manrique Castano [2], Ayman Elali [1]**	[1] Université Laval, [2] University Laval
Fri May 23	P2-C-122 - Behavioural and proteomic effects of nicotine versus tobacco exposure in male and female rats	**Anita Sikic [1], Davin Peart [1], Mckenna Williams [1], Avery Cameron [1], Jessica Karlovcec [1], Brandon Florek [1], Jude Frie [1], Benjamin Muselius [1], Jibran Khokhar [2], Rick Bevins [3], Jason Mcalister [1], Jennifer Geddes-Mcalister [1], Jennifer Murray [1]**	[1] University of Guelph, [2] Western University, [3] University of Nebraska, Lincoln
Fri May 23	P2-C-123 - Neuroprotection by skimmianine in lipopolysaccharide-activated BV-2 microglia	**Folashade Ogunrinade [1], Victoria Iwuanyanwu [2], Satyajit D Sarker [3], Olumayokun Olajide [2]**	[1] University of Huddersfield, UK, [2] University of Huddersfield, [3] Centre for Natural Products Discovery, School of Pharmacy and Biomolecular Sciences, Liverpool John

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Fri May 23	P2-C-124 - Alterations in cerebrospinal fluid biomarkers in COVID-19 patients presenting neurological symptoms	**Fernanda G. Q. Barros-Aragao [1], Thaís Pinheiro [2], Talita Pinto [3], Bart Vanderborght [2], Nathane Rezende [2], Guilherme De Freitas [1], Gabriel De Freitas [2], Fernando Bozza [2], Erika Rodrigues [2], Andrea Souza [2], Carlos Brandão [4], Paulo Mattos [2], Felipe Sudo [2], Fernanda Tovar-Moll [3], Fernanda De Felice [1]**	[1] Queen's University, [2] D'Or Institute for Research and Education (IDOR); Rio de Janeiro, Brazil., [3] D'Or Institute for Research and Education (IDOR), [4] Neurolife Laboratories
Fri May 23	P2-C-125 - A follow-up investigation: In vitro effects of kefir-derived biomolecules on β- amyloid aggregation	**Serena Malta [1], Lucas Matos Martins Bernardes [1], Matheus Silva [1], Ana Carolina Santos [2], Letícia Batista [3], Tamiris Rodrigues [2], Renata Zanon [2], Fernanda Mascarenhas [2], Foued Espindola [2], Ana Paula Mendes-Silva [1], Carlos Ueira-Vieira [2]**	[1] University of Saskatchewan, [2] Federal University of Uberlândia, [3] Johannes Gutenberg University Mainz
Fri May 23	P2-C-126 - Anti amyloid-beta aggregation activity of kefir-derived peptides	**Lucas Matos Martins Bernardes [1], Serena Malta [1], Matheus Silva [1], Ana Carolina Santos [2], Tamiris Rodrigues [2], Fernanda Mascarenhas [2], Ana Paula Mendes-Silva [1], Carlos Ueira-Vieira [2]**	[1] University of Saskatchewan, [2] Federal University of Uberlândia
Fri May 23	P2-D-127 - Estradiol control of neural firing and auditory perception in mice and humans	**Maria Isabel Carreno Munoz [1], Alessandra Ciancone [2], Inga Knoth [3], Pegah Chehrazi [4], Samia Antonia Fernandes Do Nascimento [5], Benjamin Campbell [6], Sarah Lippé [6], Graziella Di Cristo [7]**	[1] CHU Sainte Justine/University of Montreal, [2] University of Montreal; CHU Sainte Justine Research Center, [3] CHU Sainte-Justine University Hospital Center, [4] Université de Montréal, [5] CHU Sainte Justine Research Center, [6] University of Montreal, [7] CHU Sainte-Justine Research Center, Université de Montréal
Fri May 23	P2-D-128 - Axon-keratinocyte skin interactions and protocadherin γ	**Matt Larouche [1], Douglas Zochodne [2]**	[1] Neuroscience and Mental Health Institute, University of Alberta, [2] University of Alberta
Fri May 23	P2-D-129 - Modeling long-term plasticity for optimizing functional electrical stimulation-therapy	**Michael Howard [1], Kei Masani [2], Milad Lankarany [3]**	[1] University of Toronto, [2] KITE Research Institute; University Health Network, [3] Krembil Brain Institute, University Health Network
Fri May 23	P2-D-130 - Structure of spontaneous activity in mouse visual cortex	**Ali Haydaroglu [1], Valentin Schmutz [1], Michael Krumin [1], Charu Reddy [1], Lanxin Xu [1], Samuel Dodgson [1], David Meyer [2], Jingkun Guo [2], Maxwell Shinn [1], Sophie Skriabine [1], Alipasha Vaziri [2], Kenneth Harris [1], Matteo Carandini [1]**	[1] University College London, [2] Rockefeller University
Fri May 23	P2-D-131 - The role of Pannexin-2 in vision and adaptive behavior: Insights from a zebrafish model	**Riya Shanbhag [1], Georg Zoidl [1], Fatema Nakhuda [1], Heike Naumann [2], Christiane Zoidl [1], Armin Bahl [2], Georg Zoidl [1]**	[1] York University, [2] University of Konstanz
Fri May 23	P2-D-132 - Visual Cortex and the Superior Colliculus make concurrent contributions to visual contrast perception in mice	**Georgia Green [1], Callie Dawes [2], Jackson Cone [3]**	[1] University of Chicago Department of Neurobiology, [2] University of Calgary Undergraduate Program in Neuroscience, [3] University of Calgary
Fri May 23	P2-D-133 - Distinct temporal dynamics of anterior olfactory nucleus activity in odor-context memory	**Andrew Cheon [1], Joseph Banning [1], Yion Chow [1], June-Kyo Kim [1], Catherine Zhang [1], Jun Chul Kim [1]**	[1] University of Toronto
Fri May 23	P2-D-134 - Plasticity of short-term and persistent somatosensory adaptation in wild-type and Rett syndrome model mice	**Vasil Kecheliev [1], Kerry Delaney [1], Taylor Johnson [1], Farnoosh Farhoomand [1]**	[1] University of Victoria

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Fri May 23	P2-D-135 - Investigating the role of the vestibular system in updating spatial auditory attention using galvanic vestibular stimulation	**Grace Otto** [1]	[1] Western University
Fri May 23	P2-D-136 - Parsing the electrophysiological signatures of spatially selective versus distributed attention in neuronal population data	**Supriya Ghosh** [1], **Jackson Cone** [2]	[1] University of Chicago, [2] University of Calgary
Fri May 23	P2-D-137 - Functional architecture of areas V1, V6 and the dorsolateral prefrontal cortex in the common marmoset	**Juan Pimiento Caicedo** [1], **Jarrod Dowdall** [1], **Mohamad Abbass** [1], **Julio Martinez-Trujillo** [1]	[1] Western University
Fri May 23	P2-D-138 - The role of G9a in regulating the expression of a cyclic GMP-dependent protein kinase and injury-induced nociceptive sensitivity	**Dunya Assaf** [1], **Jeffrey Dason** [1]	[1] University of Windsor
Fri May 23	P2-D-139 - Molecular and functional profiling of photosensation in the pond snail lymnaea stagnalis	**Alicia Harracksingh** [1], **Julia Bandura** [2], **Takefumi Morizumi** [2], **Philippe Monnier** [3], **Jeffrey Henderson** [1], **Zhong-Ping Feng** [1]	[1] University of Toronto, [2] Temerty Faculty of Medicine, University of Toronto, [3] University Health Network
Fri May 23	P2-D-140 - Attention gates feature dimensions during value-based decision-making	**Devin Kehoe** [1], **Catherina Medeiros** [2], **Mackenzie Bourgon** [1], **Becket Ebitz** [1]	[1] Université de Montréal, [2] Concordia University, Université de Montréal
Fri May 23	P2-D-141 - Frequenin1 and Frequenin2 regulate nociception and Taxol-induced nociceptive hypersensitivity	**Alexandria St. Louis** [1], **Jessie Wing Lam Yu** [2], **Jeffrey Dason** [1]	[1] University of Windsor, [2] University of Calgary
Fri May 23	P2-D-142 - Individual differences in the evolution of strategies in spatial problem solving	**Jade Moussa** [1], **Diano Marrone** [1]	[1] Wilfrid Laurier University
Fri May 23	P2-D-143 - Serotonergic neurons in the dorsal raphe regulate visual attention	**Jonas Lehnert** [1], **Kuwook Cha** [1], **Kerry Yang** [1], **Julia Forestell** [1], **Xinyue Ma** [1], **Jonathan Britt** [1], **Anmar Khadra** [1], **Erik P. Cook** [1], **Arjun Krishnaswamy** [1]	[1] McGill University
Fri May 23	P2-D-144 - Segregated localization of target-SNARE proteins within presynaptic terminals of Munc18-1 deficient photoreceptors	**Mengjia Huang** [1], **Shuzo Sugita** [2]	[1] University of Toronto, [2] University Health Network/University of Toronto
Fri May 23	P2-D-145 - Mapping visual search errors to covert operations with frontal eye field neurophysiology and double factorial design	**Wanyi Lyu** [1], **Jeffrey Schall** [1]	[1] York University

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Fri May 23	P2-E-146 - Mechanisms underlying estrogen's rapid facilitative effects on social recognition in the medial amygdala of female mice	**Charlotte La Rochelle-Compton [1], Elena Choleris [1]**	[1] University of Guelph
Fri May 23	P2-E-147 - Intranasal administration of 17β-estradiol using a novel vehicle for brain-targeted delivery in rats	**Brittany Jensen [1], Nandini Desaigoudar [1], Asmita Poudel [1], Andrew Lofts [2], Todd Hoare [2], Kiran Soma [1]**	[1] University of British Columbia, [2] McMaster University
Fri May 23	P2-E-148 - Friend or Foe: Role of CRH-PVN neurons in social threat detection	**Ibukun Akinrinade [1], Meenakshi Pardasani [2], Tamás Füzesi [3], Toni-Lee Sterley [1], Jaideep Bains [4]**	[1] University of Calgary, [2] University of Colorado, Boulder, [3] Hotchkiss Brain Institute, [4] University Health Network
Fri May 23	P2-E-149 - Effects of early life stress and concurrent maternal dietary changes on circadian expression of metabolic and mitochondrial genes in the rat offspring	**Erin Cassidy [1], Hong Long [2], Claire-Dominique Walker [3]**	[1] McGill University, [2] Douglas Institute Research Center, [3] Douglas Institute Research Center; McGill University
Fri May 23	P2-E-150 - Hypothalamic neurons expressing CRABP1: The missing link to understanding the regulation of energy homeostasis?	**Olivier Lavoie [1], Audrey Turmel [2], Paige Mattoon [1], William J Desrosiers [1], Julie Plamondon [1], Natalie Michael [3], Alexandre Caron [2]**	[1] Centre de recherche de l'Institut universitaire de cardiologie et de pneumologie de Québec (IUCPQ), [2] Université Laval, [3] Laval University
Fri May 23	P2-E-151 - Brain expression and integrated physiological responses mediated by the endocannabinoid system and the metabolic ghrelin/ghsr axis	**Camila Saenz [1], Gimena Fernandez [2], Ramiro Llovera [2], María J. Tolosa [2], Sonia Cantel [3], Kenneth Mackie [4], Lorenzo Leggio [5], Jeffrey Zigman [6], Pablo N. Francesco [2], Mario Perelló [2], Stephanie Borgland [1]**	[1] Hotchkiss Brain Institute, [2] Laboratory of Neurophysiology of the Multidisciplinary Institute of Cell Biology, [3] Institut des Biomolécules Max Mousseron, University Montpellier, CNRS, ENSCM, [4] Indiana University, [5] National Institute on Drug Abuse; National Institutes of Health, [6] University of Texas Southwestern Medical Center
Fri May 23	P2-E-152 - Effects of repeated injections of CB1 agonist on neuropeptide Y expression in the arcuate nucleus	**Paniz Akbari [1], Emmanuelle Person [1], Sable Basran [1], Helene Plamondon [1]**	[1] University of Ottawa
Fri May 23	P2-E-153 - Effects of repeated CB1 stimulation in the lateral hypothalamus on orexinergic neurons in the adolescent rat brain	**Emmanuelle Person [1], Adèle Labonté [1], Mai Buckle [1], Amira Boukhelif [1], Helene Plamondon [1]**	[1] University of Ottawa
Fri May 23	P2-E-154 - Neurometabolic remodelling in hypothalamic appetite neurons in obesity	**Daemon Cline [1], Kathleen Dunne [1], Kaitlin Sullivan [1], Mark Cembrowski [1]**	[1] University of British Columbia
Fri May 23	P2-E-155 - Mapping cellular and molecular plasticity in the maternal and postpartum brain	**Shahrzad Ghazisaeidi [1], Keon Arbabi [1], Bharti Kukreja [2], Hugo Hudson [3], Wuxinhao Cao [2], Brian Kalish [2], Shreejoy Tripathy [1]**	[1] Centre for Addiction & Mental Health, [2] The Hospital for Sick Children, [3] Centre for Addiction and Mental Health, Krembil Centre for Neuroinformatics (KCNI)
Fri May 23	P2-F-156 - The role of retrosplenial cortex parvalbumin interneurons in regulating memory encoding	**Yi Ren [1], Dylan Terstege [1], Jonathan Epp [1]**	[1] University of Calgary

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Fri May 23	P2-F-157 - The impacts of non-aversive handling methods on background stress in mouse withdrawal behavioural experiments	**Margaret Medina [1], Aliny Pereira De Vasconcelos [2], Alexis Passmore [3], Sierra Stokes-Heck [1], Tuan Trang [1]**	[1] University of Calgary, [2] Department of Physiology and Pharmacology, Hotchkiss Brain Institute, University of Calgary,, [3] University of Calgary, Hotchkiss Brain Institute, Department of Physiology and Pharmacology
Fri May 23	P2-F-158 - Microglia regulate memory formation by modulating engram-neuron activity and their synaptic connection	**Xiaoyu Chen [1], Sakthivel Srinivasan [2], Jiaoyang Wo [1], Yunlong Liu [2], Sheena Josselyn [2], Paul Frankland [2]**	[1] University of Toronto, [2] The Hospital for Sick Children
Fri May 23	P2-F-159 - Investigating the impact of animal source and conditioned stimulus variations on morphine positive-feature occasion setting in rats	**Ella Claridge [1], Adiia Stone [1], Davin Peart [1], Jennifer Murray [1]**	[1] University of Guelph
Fri May 23	P2-F-160 - Exploring the impacts of adolescent nicotine vaping exposure on mood and risk-taking pathophysiology in the amygdala-striatal network	**Madeline Machado [1], Marieka Devuono [1], Mohammed Sarikahya [1], Miray Youssef [2], Kuralay Zhaksylyk [1], Marwa Idrissi [1], Nicholas Hamati [1], Leandro Val Sayson [1], Enzo Pérez-Valenzuela [1], Marta De Felice [1], Jibran Khokhar [1], Steven Laviolette [1], Walter Rushlow [1]**	[1] Western University, [2] University of Western Ontario
Fri May 23	P2-F-161 - The role of the marmoset dorsolateral prefrontal cortex in memory-guided navigation	**Susheel Vijayraghavan [1], Julio Martinez-Trujillo [1], Ehsan Aboutorabi [2]**	[1] Robarts Research Institute, [2] Western University
Fri May 23	P2-F-162 - Investigating hippocampal representations of spatial and abstract variables using a dynamic cue-directed t-maze task	**Afsoon Gharib Mombeini [1], Adam Lester [1], Rick Kornelsen [1], Manu Madhav [1]**	[1] University of British Columbia
Fri May 23	P2-F-163 - Investigating the bidirectional impact of ulcerative colitis and chronic stress on blood-brain barrier and gut barrier permeability	**Flora Thomassen [1], Laura Bevilacqua [1], Luisa Bandeira Binder [1], Jose Luis Solano Lopez [1], Adeline Collignon [1], Manon Lebel [2], Benjamin Jensen [3], Caroline Ménard [1]**	[1] Université Laval, [2] CERVO, [3] University of Copenhagen
Fri May 23	P2-F-164 - Dopaminergic activity in basolateral amygdala mediated by conditioning and optogenetic stimulation	**Hadi Semizeh [1], Tamás Füzesi [1], Aida Mohammadkhani [1], Min Qiao [1], Stephanie Borgland [1]**	[1] Hotchkiss Brain Institute
Fri May 23	P2-F-165 - Examining the generalization of the stimulus effects of morphine to other opioids in rats trained on opposing learning contingencies	**Jessica Karlovcec [1], Ella Claridge [1], Jiayu Zheng [1], Davin Peart [1], Adiia Stone [1], Jennifer Murray [1]**	[1] University of Guelph
Fri May 23	P2-F-166 - Impulsivity and delay discounting in gambling: Sex-specific	**Melanie Lysenko-Martin [1], Kyler Pressman-Cyna [1], Nahanni Musiani [1], Elena Greenall [1], Craig Hutton [2], Catharine Winstanley [1]**	[1] University of British Columbia, [2] Government of British Columbia

	cognitive strategies and the impact of atomoxetine		
Fri May 23	P2-F-167 - Investigating the role of a cadm2 recursive splice site in ADHD-related behaviours: Insights from rodent neuroimaging and behaviour	**Amanda Lee** [1], **Mahmoud Hanafy** [1], **Esther Choi** [2], **Hakan Kayir** [2], **Abdalla Albeely** [2], **Jibran Khokhar** [1]	[1] Western University, [2] University of Western Ontario
Fri May 23	P2-F-168 - Human time cells during working memory maintenance	**Xiaoxuan Xiao** [1], **Taufik Valiante** [1], **Jiannis Taxidis** [1]	[1] University of Toronto
Fri May 23	P2-F-169 - Effort discounting and exploration deficits drive apathy via distinct brain alterations after traumatic brain injury	**Jeremy Hogeveen** [1]	[1] University of New Mexico
Fri May 23	P2-F-170 - Sex-dependent impact of rat tau ko on cognitive flexibility and spatial discrimination	**Kaylen Young** [1], **Aiden Glass** [1], **Dan Mcelroy** [1], **Ilne Barnard** [1], **Liam Ralph** [2], **John Georgiou** [3], **Graham Collingridge** [2], **John Howland** [1]	[1] University of Saskatchewan, [2] University of Toronto, [3] Lunenfeld-Tanenbaum Research Institute
Fri May 23	P2-F-171 - Contributions of the medial amygdala to social memory	**Sofiya Zbaranska** [1], **Paul Frankland** [2], **Sheena Josselyn** [2]	[1] University of Toronto; The Hospital for Sick Children, [2] The Hospital for Sick Children
Fri May 23	P2-F-172 - Cortical networks for egocentric vs. landmark-centered coding of remembered reach	**Lina Musa** [1], **Amirhossein Ghaderi** [1], **Ying Chen** [2], **J Douglas Crawford** [1]	[1] York University, [2] Queen's University
Fri May 23	P2-F-173 - Examining neuronal allocation to an engram supporting an auditory threat memory throughout the brain	**Joseph Lee** [1], **Matteo Saderi** [2], **Paul Frankland** [2], **Sheena Josselyn** [2]	[1] University of Toronto, [2] The Hospital for Sick Children
Fri May 23	P2-F-174 - The effects of parental experience on spatial memory and anxiety-like behaviour in female and male degus	**Anton Dinh** [1], **Gurprince Attlas** [2], **Julia Mazur** [2], **Madeleine Maheu** [2], **Dimitri Skandalis** [2], **Paula Duarte-Guterman** [2]	[1] Poster presenter, [2] Brock University
Fri May 23	P2-F-175 - The role of CB1 receptors on lateral amygdala parvalbumin interneurons during stress and fear extinction learning	**Meeraal Zaheer** [1], **Jaideep Bains** [2], **Paul Frankland** [3], **Sheena Josselyn** [3]	[1] University of Toronto, Hospital for SickKids, [2] University Health Network, [3] The Hospital for Sick Children
Fri May 23	P2-F-176 - The effects of early-life adversity on cognitive bias in mice	**Navvab Afrashteh** [1], **Sheena Josselyn** [1], **Paul Frankland** [1]	[1] The Hospital for Sick Children
Fri May 23	P2-F-177 - Symptomatic efficacy of α5-GABAA positive allosteric modulation	**Jingxin Chen** [1], **Carla Elena Mezo Gonzalez** [1], **Michael Marcotte** [2], **Dishary Sharmin** [3], **Prithu Mondal** [3], **James Cook** [3], **Etienne Sibille** [2], **Thomas Prevot** [2]	[1] Centre for Addiction & Mental Health, [2] Campbell Family Mental Health Research Institute of CAMH, [3] University of Wisconsin, Milwaukee
Fri May 23	P2-F-178 - Age-related declines in brain network segregation and its heightened impact on cognitive performance in older adults	**Javeria Hashmi** [1]	[1] Dalhousie University

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Fri May 23	P2-F-179 - Expectation-driven modulation of pain: Neural and behavioral divergences between static and dynamic stimuli	**Adam Sunavsky,** [1], **Manaal Hashmi** [2], **Javeria Hashmi** [3]	[1] University of British Columbia, [2] Student, [3] Dalhousie University
Fri May 23	P2-F-180 - Childhood cognitive profile as a predictor of academic performance in the adolescent brain cognitive development study	**Anett Schumacher** [1], **Eric Tu** [1], **Daphne Korczak** [1]	[1] The Hospital for Sick Children
Fri May 23	P2-F-181 - Microrna regulation of grp78 in somatostatin-positive GABAergic interneurons: Unveiling molecular mechanisms of age-related cognitive decline	**Yutong Wang** [1], **Xiaolin Zhou** [1], **Michael Marcotte** [2], **Akiko Sumitomo** [2], **Shreejoy Tripathy** [3], **Toshifumi Tomoda** [2], **Etienne Sibille** [2], **Thomas Prevot** [2]	[1] University of Toronto, [2] Campbell Family Mental Health Research Institute of CAMH, [3] Centre for Addiction & Mental Health
Fri May 23	P2-F-182 - The effect of different concentrations of trimethylthiazoline on defensive behaviours	**Zahra Siddiqi** [1], **Damien Boorman** [2], **Loren Martin** [2]	[1] University of Toronto, [2] University of Toronto, Mississauga
Fri May 23	P2-F-183 - Fear extinction requires PKMζ in the infralimbic cortex and AMPA receptor endocytosis in the prelimbic cortex	**Lucas Marcondes** [1], **Aline Kautzmann** [1], **Pedro Paganelli** [1], **Lucas Alvares** [1]	[1] Federal University of Rio Grande do Sul
Fri May 23	P2-F-184 - Context fear discrimination learning modulates dopamine signaling in the medial prefrontal cortex	**Liv Engel** [1], **Shaghayegh Shahinfar** [1], **Harine Thayanantharajah** [2], **Robert Rozeske** [2]	[1] University of Toronto, [2] University of Toronto, Scarborough
Fri May 23	P2-F-185 - Long-term fear memory formation in juvenile zebrafish	**Habibe Ucpunar** [1], **Qian Lin** [1]	[1] University of Toronto
Fri May 23	P2-F-186 - Defensive behaviour and periaqueductal correlates following contexual fear conditioning	**Megan Lozzi** [1], **Robert Rozeske** [2]	[1] University of Toronto, [2] University of Toronto, Scarborough
Fri May 23	P2-F-187 - Brain network integration increases from rest to task and decreases with task load during n-back task: A fMRI study in healthy participants	**Jennika Veinot** [1], **Javeria Hashmi** [2]	[1] Dalhousie University, Nova Scotia Health, [2] Dalhousie University
Fri May 23	P2-G-188 - Developing a radiotracer to image the dopamine D1 receptor	**Megan Verma** [1], **Geneviève Laroche** [2], **Patrick Giguère** [2], **Mario Tiberi** [3], **Lauri Tuominen** [4], **Benjamin Rotstein** [1]	[1] University of Ottawa Heart Institute, [2] University of Ottawa, [3] Ottawa Hospital Research Institute, [4] University of Ottawa Institute of Mental Health Research
Fri May 23	P2-G-189 - Simulating stress, depression, and schizophrenia in AI: A deep reinforcement learning approach	**Santina Duarte** [1], **Xena Al-Hejji** [1], **Lorena Schleicher** [2], **Ariel Ventura** [2], **Eric Chalmers** [1]	[1] Mount Royal University, [2] Osnabrück University

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Fri May 23	P2-G-190 - Precisiontrack: Reliable tracking of large groups of animals interacting in complex environments over extended periods	**Vincent Coulombe** [1], **Benoit Labonte** [2], **Benoit Gosselin** [1]	[1] Laval University, [2] Université Laval
Fri May 23	P2-G-191 - Guidelines for non-human primate chemogenetics	**Sébastien Tremblay** [1], **Lucas Dumargne** [2], **Mark Eldridge** [3], **Adriana Galvan** [4], **Takafumi Minamimoto** [5]	[1] CERVO Brain Research Centre, Université Laval, [2] ENS de Lyon, [3] Newcastle University, [4] Emory University, [5] QST Japan
Fri May 23	P2-G-192 - Dendritic polyglycerol amine (dPGA) substrate coating enhances mixed glial culture viability	**Nonthué Uccelli** [1], **Daryan Chitsaz** [2], **Jean-David Gothié** [2], **Divya Kakkar** [2], **Rainer Haag** [3], **Timothy Kennedy** [2]	[1] McGill University, [2] Montréal Neurological Institute, [3] Institute of Chemistry and Biochemistry, Freie Universität Berlin
Fri May 23	P2-G-193 - Decoding neuronal diversity from extracellular recordings: A novel approach integrating neuropixels, optogenetics and intracellular recordings	**Michael Feyerabend** [1], **Jarrod Dowdall** [1], **Michelle Jimenez-Sosa** [1], **Julia Sunstrum** [1], **Sam Mestern** [2], **Wataru Inoue** [3], **Julio Martinez-Trujillo** [1], **Jochen Staiger** [4], **Stefan Pommer** [5], **Jennifer Rachel** [5], **Felix Preuss** [5], **Andreas Neef** [6], **Juan Pimiento Caicedo** [1]	[1] Western University, [2] University Of Western Ontario, [3] University of Western Ontario, [4] University Medical Center Göttingen, [5] University Medical Center Göttingen, Georg-August University, [6] Göttingen Campus Institute for Dynamics of Biological Networks, Göttingen, Germany
Fri May 23	P2-G-194 - Capturing brain response patterns to subcallosal cingulate deep brain stimulation using fMRI	**Sarah Iskin** [1], **Gavin Elias** [2], **Asma Naheed** [3], **Jessica Pinto** [3], **Uyi Omere** [1], **Sidney Kennedy** [4], **Alexandre Boutet** [5], **Andres Lozano** [6], **Jürgen Germann** [7]	[1] University Health Network, [2] Krembil Brain Institute; University of Toronto, [3] Joint Department of Medical Imaging, University of Toronto, [4] Krembil Brain Institute; University Health Network; University of Toronto, [5] University of Toronto & University Hospital Network, [6] University Health Network; University of Toronto, [7] Krembil Brain Institute, Joint Department of Medical Imaging
Fri May 23	P2-G-195 - Insights into neural network firing patterns from chemical and optical interventions	**Yasaman Heydari** [1], **Ilya Auslender** [1], **Yuri Bozzi** [2], **Lorenzo Pavesi** [1]	[1] University of Trento, [2] Center for Mind/Brain Sciences (CIMeC),University of Trento
Fri May 23	P2-G-196 - Next-generation electrophysiology for functional characterization of human neural organoids and assembloids	**Karin Morandell** [1], **Elvira Guella** [1], **Simon Sennhauser** [1], **Zhuoliang Li** [1], **Laura D'Ignazio** [1], **Praveena Manogaran** [1], **Marie Engelene Obien** [1]	[1] MaxWell Biosystems
Fri May 23	P2-G-197 - A novel machine-learning and bioinformatics pipeline for multiplex imaging in malformations of cortical development	**Reyes Castano Martin** [1], **Mark Zaidi** [1], **Alice Metais** [2], **Naziha Bakouh** [1], **Edor Kabashi** [1], **Pascale Varlet** [3], **Thomas Blauwblomme** [1], **Sorana Ciura** [4]	[1] Institut Imagine, INSERM UMR 1163, [2] Pôle Neuro-Sainte-Anne, Service de Neuropathologie, [3] GHU Paris, Psychiatrie & Neurosciences, Pôle Neuro-Sainte-Anne, Service de Neuropathologie, [4] Institut Imagine, INSERM, Université Paris
Fri May 23	P2-G-198 - Improving cross-species validity in attention studies by modifying a touchscreen continuous performance test	**Cadence Opoka** [1], **Ryan Wang** [2], **Filip Kosel** [3], **Ryan Salewski** [2], **Daniel Palmer** [1], **Adrian Owen** [1], **Lisa Saksida** [2], **Timothy Bussey** [2]	[1] Western University, [2] University of Western Ontario, [3] Dalhousie University
Fri May 23	P2-G-199 - NC4 touch: An open-source platform for rodent behavioral training	**Gelareh Modara** [1], **Adam Lester** [1], **Isaac Schwein** [1], **Leticia Cid** [1], **Jason Snyder** [1], **Manu Madhav** [1]	[1] University of British Columbia
Fri May 23	P2-G-200 - Evoked activity from deep brain stimulation as biomarker of inhibitory effects	**Zoe Paraskevopoulos** [1], **Yupeng Tian** [1], **Milad Lankarany** [2]	[1] University of Toronto, [2] Krembil Brain Institute, University Health Network

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Fri May 23	P2-G-201 - Liquid biopsy of cell-specific extracellular vesicles to identify molecular signatures of Alzheimer's disease	**Matheus Uba Chupel** [1], **Christopher Pople** [1], **Ying Meng** [1], **Nir Lipsman** [1], **Isabelle Aubert** [1]	[1] Sunnybrook Research Institute
Fri May 23	P2-G-202 - A novel mrna-lipid nanoparticle platform to rapidly generate functional forebrain neurons from human pluripotent stem cells using ngn2	**Minoo Karimi** [1], **Savitha Deshmukh** [1], **Gary Braun** [1], **Charlotte Ellis** [1], **Erin Knock** [1], **Allen C. Eaves** [2], **Sharon A. Louis** [1], **Arwen L. Hunter** [1], **Robert Judson** [1]	[1] STEMCELL Technologies Inc., [2] STEMCELL Technologies Inc., Vancouver, BC, Canada , Terry Fox Laboratory, BC Cancer, Vancouver, BC,
Fri May 23	P2-G-203 - Monitoring orofacial kinematics using an MEG-compatible tracking system during word and non-word repetition tasks: A pilot study	**Narges Moein** [1], **Ioanna Anastasopoulou** [1], **Cecilia Jobst** [2], **Gloria Lai** [3], **Douglas Cheyne** [4]	[1] Hospital for Sick Children Research Institute, [2] Hospital for Sick Children, [3] Hospital for Sick Children, Toronto, [4] Hospital for Sick Children Research Institute, Toronto, Ontario, Canada and University of Toronto
Fri May 23	P2-G-204 - Exploration of the robustness of neural decoding architectures for brain-computer interfaces	**Vincent Savard** [1], **Patrick Desrosiers** [2], **Christian Ethier** [2]	[1] CERVO, [2] Université Laval
Fri May 23	P2-G-205 - Investigating the association between P2Y12 receptor, SV2A, and tau expression in postmortem AD and control brains using in vitro autoradiography	**Chao Zheng** [1], **Hannah Le** [2], **Neil Vasdev** [2]	[1] Centre for Addiction and Mental Health, University of Toronto, [2] Centre for Addiction & Mental Health
Fri May 23	P2-G-206 - Neurovascular coupling during periods of neuronal and vascular co-fluctuations and arousal in awake mice	**Jordan Charest** [1], **Alexandre Cléroux Cuillerier** [1], **Michèle Desjardins** [1], **Patrick Desrosiers** [1]	[1] Université Laval
Fri May 23	P2-G-207 - Accelerating our understanding of childhood brain development from infancy to adolescence: The Canadian pediatric imaging platform (c-pip) neuroimaging protocol	**Mervynderjeet Singh** [1], **Shireen Parimoo** [2], **Filomeno Cortese** [1], **Vicente Enguix** [3], **Helen Carlson** [1], **Lara Leijser** [1], **Christine L. Tardif** [4], **Ilana Leppert** [4], **Emile Kadalie** [5], **Jamie Near** [5], **Bruce Pike** [1], **Tomas Paus** [6], **Gregory Lodygensky** [3], **Darren Kadis** [2], **Sarah Lippé** [7], **Ashley Harris** [1], **Catherine Lebel** [1], **Anne Wheeler** [2], **Patricia Conrod** [3], **Signe Bray** [1]	[1] University of Calgary, [2] The Hospital for Sick Children, [3] CHU Ste-Justine, Université de Montreal, [4] McGill University, [5] University of Toronto, Sunnybrook Research Institute, [6] Université de Montréal, [7] University of Montreal
Fri May 23	P2-G-208 - A multimodal micro-optrode enabling single-cell electrophysiology and optogenetics to establish spike inference algorithms from calcium measurements in vivo across cell types	**Philippe Léonard-Dufour** [1], **Feng Wang** [1], **Marie-Ève Paquet** [1], **Yves De Koninck** [1]	[1] Université Laval
Fri May 23	P2-G-209 - cAMP-dependent CA1 neuronal population activity	**Jayant Rai** [1], **Hang Li** [1], **Jagrit Rai** [2], **Mei Zhen** [1], **Kenichi Okamoto** [3]	[1] Lunenfeld-Tanenbaum Research Institute, [2] Queen's University, [3] Lunenfeld Tanenbaum Research Institute

	underlies murine hippocampus-dependent learning & memory		
Fri May 23	P2-G-210 - BIDS-FLUX: a flexible data management workflow for continuous production of high-quality FAIR neuroimaging data within the Canadian Pediatric Imaging Platform	**Sean Spinney** [1], **Basile Pinsard** [2], **Milton Camacho** [3], **Shireen Parimoo** [4], **Michael Li** [4], **Kevin Mo** [4], **Patricia Conrod** [5], **Anne L. Wheeler** [4], **Signe Bray** [3], **Lune Bellec** [6]	[1] Université de Montréal, [2] Centre de Recherche de l'Institut Universitaire de Gériatrie de Montréal, [3] University of Calgary, [4] The Hospital for Sick Children, [5] University of Montreal; CHU Sainte-Justine Hospital, [6] CRIUGM, University of Montreal
Fri May 23	P2-G-211 - Peripheral optogenetic stimulation for muscle activation in rats	**Frederic Dagenais** [1], **Christian Ethier** [1]	[1] Université Laval
Fri May 23	P2-G-213 - Accuracy of the qBOLD model to quantify oxygen extraction fraction: a Monte Carlo study in mice angiograms	**Aurélie Beaudoin** [1], **Laura Beltran** [1], **Andrew Forester** [1], **Jordan Charest** [1], **Élie Genois** [2], **Michèle Desjardins** [1], **Louis Gagnon** [1]	[1] Université Laval, [2] Google
Sat May 24	P3-A-01 - Unveiling the role of PTEN in Müller glial development	**Alissa Pak** [1], **Yacine Touahri** [2], **Yaroslav Ilnytskyy** [3], **Luke Ajay David** [4], **Igor Kovalchuk** [3], **Robert Screaton** [5], **Carol Schuurmans** [2]	[1] University of Toronto, [2] Sunnybrook Research Institute, [3] University of Lethbridge, [4] McGill University, [5] University of Toronto, Sunnybrook Research Institute
Sat May 24	P3-A-02 - Movement-generated neural activity facilitates neurogenesis in postembryonic Danio rerio	**Shelby Sherlock** [1], **Anna Phan** [1], **Zachary Hall** [2]	[1] University of Alberta, [2] University of Toronto
Sat May 24	P3-A-03 - Maturation of intrinsic and synaptic properties of the mouse dorsal peduncular cortex	**Anna Canella** [1], **Abdessattar Khlaifia** [2], **Francesca Violi** [1], **Justin Botterill** [3], **Maithe Arruda Carvalho** [2]	[1] University of Toronto, [2] University of Toronto, Scarborough, [3] University of Saskatchewan
Sat May 24	P3-A-04 - Phenotypic characterization from infancy to adolescence: Canadian pediatric imaging platform phenotyping protocol	**Samantha Lynch** [1], **Melissa Figueiredo** [2], **Keith Yeates** [3], **Daniel C. Kopala Sibley** [4], **Charles-Olivier Martin** [2], **Sarah Lippé** [1], **Miriam Beauchamp** [1], **Donald Mabbott** [5], **Fil Cortese** [6], **Darren Kadis** [5], **Catherine Lebel** [7], **Anne Wheeler** [5], **Signe Bray** [7], **Patricia Conrod** [8]	[1] University of Montreal, [2] Azrieli Research Center of the CHU Ste Justine Mother-Child University Hospital, [3] University of Calgary, Departments of Pediatrics and Clinical Neurosciences, [4] University of Calgary, Cumming School of Medicine, Department of Psychiatry, [5] The Hospital for Sick Children, [6] University of Calgary, Cumming School of Medicine, Department of Radiology, [7] University of Calgary, [8] CHU Ste-Justine, Université de Montreal
Sat May 24	P3-A-05 - Regulation of inhibitory interneuron survival by the clustered Protocadherins and PTEN/PI3K signaling	**Mercedesz Praszner** [1], **Julia Qiao** [2], **Julie Lefebvre** [1]	[1] University of Toronto, [2] Peter Gilgan Center for Research and Learning, SickKids
Sat May 24	P3-A-06 - Tracking morphological and functional changes in the developing Xenopus retinotectal system	**Vanessa Li** [1], **Anne Schohl** [1], **Edward Ruthazer** [1]	[1] McGill University
Sat May 24	P3-A-07 - Distinct receptor tyrosine kinase phosphorylation profiles of	**Kartar Singh** [1], **Morgan Robinson** [1], **James Livingstone** [1], **Zoya Leonenko** [1], **Michael Beazely** [1]	[1] University of Waterloo

	neural stem cell derived neurons and astrocytes		
Sat May 24	P3-A-08 - Combinatorial expression of the proneural genes Ascl1 and Neurog2 restricts retinal progenitor cell fate	**Alissa Pak [1], Matthew Brooks [2], Hedy Liu [1], Alexandra Moffat [1], Laura Campello [2], Sisu Han [1], Satoshi Okawa [3], Antonio Delsol [4], Anand Swaroop [2], Carol Schuurmans [5], Yacine Touahri [5]**	[1] Sunnybrook Research Institute, University of Toronto, [2] Neurobiology-Neurodegeneration & Repair Laboratory, National Eye Institute, NIH, [3] University of Pittsburgh, [4] U of Luxembourg, CIC bioGUNE, Bizkaia Technology Park, IKERBASQUE, [5] Sunnybrook Research Institute
Sat May 24	P3-A-09 - Shared vertebrate photoreceptor developmental network is positively selected in snakes and lizards	**Emily Dong [1], Belinda Chang [1], Vince Tropepe [1]**	[1] University of Toronto
Sat May 24	P3-A-10 - Experience dependent modulation of adult hippocampal neurogenesis in female mice	**Jacqueline Boon [1], Linda Le [1], Michael Chrusch [1], Simon Spanswick [1], Jo Anne Stratton [2], Prajay Shah [1], Haley Vecchiarelli [3], Payal Patel [1], Jeff Biernaskie [1], Matthew Hill [4], Richard Dyck [1]**	[1] University of Calgary, [2] Montréal Neurological Institute, [3] University of Victoria, [4] Hotchkiss Brain Institute
Sat May 24	P3-A-11 - Teneurin-3 and Latrophilin-2 are required for somatotopic map formation in the dorsal horn	**Kevin Sangster [1], Daniel Del Toro [2], Xinying Zhang [1], Christina Sarantopoulos [1], Ashley Marie Moses [3], Shreya Mahasenan [1], Daniel Tyler Pederick [3], Robert Brian Roome [4], Elena Seiradake [5], Liqun Luo [3], Artur Kania [4]**	[1] McGill University, [2] University of Barcelona, [3] Stanford University, [4] Institut de Recherches Cliniques de Montréal, [5] Oxford University
Sat May 24	P3-A-12 - Within-litter variation is greater than between-litter variation in maternal provisioning, offspring anxiety-like behaviour, and offspring neurophysiology	**Quintin Whitman [1], Patrick McGowan [2], Samantha Lauby [1], Julia Schneider Krimberg [1], Amirreza Mirzaei [3], Fatima Habib [2], Alison Fleming [4]**	[1] University of Toronto, [2] University of Toronto, Scarborough, [3] Department of Biological Sciences, University of Toronto Scarborough, [4] Department of Psychology, University of Toronto Mississauga
Sat May 24	P3-A-13 - Prenatal oxidative DNA damage causes sex-dependent and promoter region-specific postnatal epigenetic dysregulation of Gabra2 in the brains of DNA repair-deficient Brca1 knockout progeny exposed in utero to saline or ethanol	**Sophia Richards [1]**	[1] University of Toronto
Sat May 24	P3-A-14 - Investigating the developmental impact of hypothalamic tanycytes	**Harmony Fong [1], Jessica Rosin [2], Jing Zheng [1], Nicole Rosin [1], Jeff Biernaskie [1], Deborah Kurrasch [1]**	[1] University of Calgary, [2] University of British Columbia
Sat May 24	P3-A-15 - Risk for emotional dysregulation following prenatal alcohol exposure was associated with altered gut microbiota and immune function	**Kingston Wong [1], Dustin Cordeiro [1], Landon Daschuk [1], Matthew Epp [1], Kanishka Wijesundara [1], Sunny Qureshi [1], Victoria Vella [1], Carolina Luft [1], Roopan Dhaliwal [1], Tamara Bodnar [2], Parker Holman [1], Charlis Raineki [1]**	[1] Brock University, [2] University of Calgary
Sat May 24	P3-A-16 - Proteomic insights into synaptic alterations in MDGA2 heterozygous knockout mice	**Kyle Patel [1], Steven Connor [1]**	[1] York University

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Sat May 24	P3-A-17 - P2Y2 regulates neurogenesis following spinal cord injury in adult zebrafish	**Isaac Sullivan** [1], **Eva Stefanova** [1], **Mavis Chinn** [1], **Angela Scott** [1]	[1] University of Guelph
Sat May 24	P3-A-18 - Arcuate nucleus neurons mediate ventral subventricular zone neural stem cell differentiation through endocannabinoid signaling	**Edward Sun** [1]	[1] Ottawa Hospital Research Institute
Sat May 24	P3-A-19 - Examining the impact of early adversity on stress susceptibility in a two-hit model of depression-like behaviour	**Megan Babcock** [1], **Janet Menard** [1], **Kate Zucconi** [1], **Brando Sheldrick** [2], **Irelande Farrell** [1]	[1] Queen's University, [2] York University
Sat May 24	P3-A-20 - Kirrel3 modulates dendrite morphogenesis in the developing olfactory system	**Mary-Elizabeth Allen** [1], **Fannia Xu** [1], **Neelima Vaddadi** [1], **Sydney Fearnley** [1], **Jean-François Cloutier** [1]	[1] McGill University
Sat May 24	P3-A-21 - Epigenetic regulation of neurogenic plasticity in the postembryonic forebrain	**Alexa Izvorean** [1], **Francesca Meda** [1], **Alexandra Sergueeva** [1], **Vince Tropepe** [1]	[1] University of Toronto
Sat May 24	P3-A-22 - Growth and characterization of iPSC-derived human cerebellar organoids	**Shraddha Pai** [1], **Maria Mangos** [2], **Nishka Kishore** [1], **Liliana Attisano** [2]	[1] Ontario Institute for Cancer Research, [2] University of Toronto
Sat May 24	P3-A-23 - BRCA1 expression is enriched in human neural stem cells and controls proliferation of human neural progenitors and Group 3 and 4 medulloblastoma	**Nishka Kishore** [1], **Hana Hajari** [2], **Ellen Mak** [2], **Andrea Ribeiro** [1], **Ander Díaz-Navarro** [1], **Ian Cheong** [1], **Nadia Zafar** [3], **Jaskirat Singh Sandhu** [1], **Leo Lau** [4], **Xinghan Sun** [3], **Liliana Attisano** [3], **Lincoln Stein** [1], **Shraddha Pai** [1]	[1] Ontario Institute for Cancer Research, [2] McMaster University, [3] University of Toronto, [4] University of Waterloo
Sat May 24	P3-A-24 - Revisiting the unipolar brush cell during cerebellar embryonic development through in-silico perturbation	**Karen Ip** [1], **Michael Ke** [1], **Joanna Yeung** [1], **Marco Ho** [1], **Maryam Rahimi-Balaei** [1], **Daniel Goldowitz** [1]	[1] University of British Columbia
Sat May 24	P3-A-25 - Uncovering novel protein-coding isoforms in human iPSC-derived cortical neurons and their relevance to ASD	**Nuo Xu** [1], **Katherine Rynard** [2], **Maahil Arshad** [2], **Elizabeth Radley** [2], **Hua Luo** [2], **Harry Smith** [2], **Ellie Hogan** [1], **Maria Eleni Fafouti** [2], **Melanie Davie** [1], **Ai Tian** [3], **Chaoying Long** [2], **Brett Trost** [3], **Julien Muffat** [3], **John Calarco** [2], **Hyun Lee** [2], **Craig Smibert** [2], **Howard Lipshitz** [2], **Shreejoy Tripathy** [1]	[1] Centre for Addiction & Mental Health, [2] University of Toronto, [3] The Hospital for Sick Children
Sat May 24	P3-A-26 - Role of DSCAM in the development of the spinal locomotor circuit	**Lïa Mayet** [1], **Marie Roussel** [2], **Béatrice Frenette** [1], **Frédéric Bretzner** [1]	[1] CRCHU de Québec-UL, [2] Université Laval
Sat May 24	P3-A-27 - Septotemporal differences in hippocampal-prefrontal cortex circuit maturation inform a sensitive period for cognitive flexibility	**Arely Cruz-Sanchez** [1], **Anusha Abdusalom** [2], **Kathleen Ladouceur** [1], **Helen Chasiotis** [1], **Radu Gugustea** [2], **Unza Mumtaz** [1], **Maryam Hasantash** [3], **Christoph Anacker** [3], **Maithe Arruda Carvalho** [1]	[1] University of Toronto, Scarborough, [2] Univeristy of Toronto, Scarborough, [3] Columbia University

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Sat May 24	P3-A-28 - From formation to pruning: Investigating transient axonal swellings in the developing cerebellum	**Bruna de Souza** [1], **Alanna Watt** [1]	[1] McGill University
Sat May 24	P3-B-29 - SNAP-23 mediated vesicular trafficking in oligodendrocytes is necessary to maintain adult myelin integrity	**Chun Hin Chow** [1], **Aryan Regmi** [2], **Olga Rojas** [2], **Shuzo Sugita** [3]	[1] University of Toronto, [2] Krembil Research Institute; University Health Network, [3] University Health Network/University of Toronto
Sat May 24	P3-B-30 - Investigating the role of secreted systemic proteins in synapse formation	**Olivia Hawco** [1], **Ethan Hawco** [1], **Juliane Bautista** [1], **Kathlyn Gan** [1]	[1] University of Toronto
Sat May 24	P3-B-31 - A role for phosphotyrosine in gating of a nonselective cation channel in Aplysia neuroendocrine cells	**Emily Robichaud** [1], **Neil Magoski** [1]	[1] Queen's University
Sat May 24	P3-B-32 - PI3K/AKT and PKA signaling cascades mediate THBS4 and SPARCL1-induced synapse formation in primary cortical neurons	**Maxim An** [1], **Mani Masoumi** [1], **Kathlyn Gan** [2]	[1] University of Toronto, Scarborough, [2] University of Toronto
Sat May 24	P3-B-33 - Diversity decline accompanies hypo- and hyper-excitable state of the brain	**Madeleine Falby** [1], **Mandana Movahed** [1], **Homeira Moradi** [1], **Yvonne Yang** [2], **Jeremie Lefebvre** [3], **Chaitra Sarathy** [4], **Taufik Valiante** [5]	[1] Krembil Brain Institute, University Health Network, [2] Institute of Biomedical Engineering, [3] University of Ottawa, [4] Krembil Research Institute, [5] University of Toronto
Sat May 24	P3-B-34 - Exercise counters stress effects on CRH-PVN neurons and anxiety without affecting fear recall	**Mijail Rojas-Carvajal** [1], **Tamás Füzesi** [2], **Dinara Baimoukhametova** [1], **Nuria Daviu** [3], **Sarah Cook** [2], **Matthew Hill** [2], **Jaideep Bains** [4]	[1] University of Calgary, [2] Hotchkiss Brain Institute, [3] University of Guelph, [4] University Health Network
Sat May 24	P3-B-35 - Alternative splicing of GluN1 exon 5 gates NMDA receptor blockade and antidepressant activity of ketamine	**Alina He** [1], **Wenbo Zhang** [2], **Yushan Tu** [2], **Dongju Lee** [2], **Zhengping Jia** [2], **Michael Salter** [2]	[1] University of Toronto, [2] The Hospital for Sick Children
Sat May 24	P3-B-36 - Developmental defects in nanoscale reorganization of AMPARs and quantal transmission in a mouse model of fragile X syndrome	**Maria Gurma** [1], **Ankur Bodalia** [2], **Adam Fekete** [3], **Lu-Yang Wang** [4]	[1] University of Toronto, [2] Hospital for Sick Children, University of Toronto, [3] The Hospital for Sick Children, [4] Sick Kids Hospital
Sat May 24	P3-B-37 - The rescue of neurodevelopmental disorders (NDDs) with novel potassium channel modulators	**Tian Kong** [1], **Jason Arsenault** [2], **Tian Du** [1], **Dongju Lee** [1], **Octavia Weng** [3], **Lu-Yang Wang** [2]	[1] University of Toronto, [2] Sick Kids Hospital, [3] The Hospital for Sick Children
Sat May 24	P3-B-38 - Dysregulation of astrocyte-mediated purinergic signaling in fragile x syndrome	**Kashaf Gilani** [1], **Angela Scott** [1], **Matthew Napier** [2]	[1] University of Guelph, [2] McMaster University

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Sat May 24	P3-B-39 - Implications of astrocyte purinergic dysregulation in a human model of fragile x syndrome	**Alexandra Law** [1], **Anna Dunaevsky** [2], **Melanie Alpaugh** [1], **Angela Scott** [1]	[1] University of Guelph, [2] University of Nebraska
Sat May 24	P3-B-40 - Do Voltage-Gated Calcium Channel-associated bacterial chemotactic domians play a key role in astrocyte signaling mechanisms triggered by glutamate?	**Harleen Bhullar** [1], **Mitra Tabatabaee** [1]	[1] University of the Fraser Valley
Sat May 24	P3-B-41 - Leak potassium channels underpin input-specific excitability of fast-spiking inhibitory neurons	**Raphael Chan** [1], **Lu-Yang Wang** [2]	[1] University of Toronto, [2] Sick Kids Hospital
Sat May 24	P3-B-42 - General anesthesia and surgery dysregulate inhibitory synaptic signaling in CA1 pyramidal neurons	**Howell Fang** [1], **Dian-Shi Wang** [1], **Beverley Orser** [1]	[1] University of Toronto
Sat May 24	P3-B-43 - Investigating non-canonical roles of clustered protocadherins in the regulation of Purkinje cell firing	**James Li** [1], **Julie Marocha** [2], **Lu-Yang Wang** [3], **Julie Lefebvre** [4]	[1] Hospital for Sick Children; University of Toronto, [2] Hospital for Sick Children, [3] Sick Kids Hospital, [4] The Hospital for Sick Children
Sat May 24	P3-B-44 - Sevoflurane persistently increases cell-surface α5GABAA receptor expression and drives synaptic clustering via gephyrin	**MeiFeng Yu** [1], **Dian-Shi Wang** [1], **Beverley Orser** [1]	[1] University of Toronto
Sat May 24	P3-B-45 - Aging with fragile x syndrome: Examination of astrocyte senescence and purinergic signaling in wildtype and Fmr1 knockout mice	**Mavis Chinn** [1], **Angela Scott** [1]	[1] University of Guelph
Sat May 24	P3-B-46 - Dynamic maturation of astrocyte calcium signals in the developing telencephalon	**Gareth Rurak** [1], **Miko Dai** [1], **Yifan Wu** [1], **Michael Vasek** [1], **Joseph Dougherty** [1], **Thomas Papouin** [2]	[1] Washington University School of Medicine, St. Louis, [2] Washington University School of Medicine, St Louis
Sat May 24	P3-B-47 - Defining the impact of interneuron-specific ablation of the receptor Neogenin on synaptic function and behaviour	**Edan Shpigel** [1], **Sabrina Quilez** [1], **Stephen Glasgow** [2], **Emilie Dumontier** [1], **Timothy E. Kennedy** [3], **Jean-François Cloutier** [1]	[1] McGill University, [2] Brock University, [3] Montréal Neurological Institute
Sat May 24	P3-B-48 - Common and distinct roles of gsk-3α and gsk-3β in synaptic plasticity, subcellular localization, and tau regulation	**Shinwon Kang** [1], **Patrick Tidball** [2], **Liam Ralph** [1], **Fuzi Jin** [3], **James Woodgett** [2], **John Georgiou** [2], **Graham Collingridge** [4]	[1] University of Toronto, [2] Lunenfeld-Tanenbaum Research Institute, [3] Lunenfeld Tanenbaum Research Institute, [4] University of Toronto, Tanz CRND, Lunenfeld-Tanenbaum Research Institute,
Sat May 24	P3-B-49 - Spontaneous and miniature inhibitory postsynaptic currents in medium spiny neurons of	**Mahgol Darvishmolla** [1], **Konrad Schöttner** [1], **Richard Courtemanche** [1], **Shimon Amir** [1], **Andrew Chapman** [1]	[1] Concordia University

	dorsomedial striatum from Bmal1 knock-out mice		
Sat May 24	P3-B-50 - New insights into Cholinergic transmission in the interpeduncular nucleus	**Claire Richter Gorey** [1], **Evelyn Lambe** [1]	[1] University of Toronto
Sat May 24	P3-B-51 - Alternatively spliced N1 cassette in NMDA GluN1 receptor subunit evolved in early vertebrates	**Chengcheng Li** [1]	[1] Sick Kids Hospital
Sat May 24	P3-B-52 - The wiring and synapse specificity of cerebellar mossy fibers to inhibitory targets is regulated by atypical cadherins	**Benjamin-Israel Moke** [1], **Madison Gray** [2], **Eleanore Lin** [1], **Ziwei Ouyang** [1], **Tri Nguyen** [3], **Wei-Chung Allen Lee** [3], **Julie Lefebvre** [4]	[1] University of Toronto, [2] Hospital for Sick Children, [3] Harvard Medical School, [4] The Hospital for Sick Children
Sat May 24	P3-B-53 - selective inhibition of TrkC-PTPσ interaction impairs synaptic plasticity in the mouse hippocampus	**Daniel Mohammadiasl** [1], **Yash Shrestha** [1], **Hideto Takahashi** [2], **Steven Connor** [1]	[1] York University, [2] Institut de Recherches Cliniques de Montréal
Sat May 24	P3-B-54 - Nep1 metallopeptidase appears to suppress learning by limiting synaptic vesicle numbers	**Illia Pimenov** [1], **Anna Phan** [1]	[1] University of Alberta
Sat May 24	P3-B-55 - Tracking synaptic density loss using [18F]SynVesT-1 in a mouse model of Multiple Sclerosis	**Pou Hong Justin Chia** [1], **Junchao Tong** [1], **Roger Raymond** [1], **Hannah Le** [1], **Amanda J. Boyle** [1], **Mohammad Alijaniaram** [1], **Neil Vasdev** [1], **Chao Zheng** [1]	[1] Centre for Addiction & Mental Health
Sat May 24	P3-B-56 - Cholinergic persistent firing activity in parasubicular neurons in mice	**Emily Kacur** [1], **Gabryelle F. M. Corriveau** [1], **Stephen Glasgow** [1]	[1] Brock University
Sat May 24	P3-B-57 - Effects of amyloid beta protein on the density and morphology of dendritic spines in the lateral entorhinal cortex	**Marcus Suvanto** [1], **Julian Gambino** [1], **Olayemi Joseph Olajide** [2], **Andrew Chapman** [1]	[1] Concordia University, [2] Memorial University of Newfoundland
Sat May 24	P3-B-58 - Preclinical evaluation of cell-specific GLT-1 overexpression in a mouse model of Alzheimer's disease	**Meghan Greenland** [1], **Kyle Brymer** [1], **Matthew Parsons** [1]	[1] Memorial University of Newfoundland
Sat May 24	P3-B-59 - Site and cell-specific miRNA and mRNA genes and networks across the CNS	**Amanda Zacharias** [1], **Ciara O'connor** [1], **Nader Ghasemlou** [1]	[1] Queen's University
Sat May 24	P3-B-60 - Zona incerta regulation of superior colliculus cells by GABA and dopamine	**Persephone Miller** [1], **Jenny Phy-Lim** [1], **Kayla Baker** [2], **Debora Fusca** [3], **Ryan Chee** [4], **Henning Fenselau** [5], **Peter Kloppenburg** [3], **Melissa Chee** [1]	[1] Carleton University, [2] University of Toronto, [3] University of Cologne, [4] University of Alberta, [5] Max Planck Institute for Metabolism Research
Sat May 24	P3-B-61 - Lithium isotope effects in murine neuronal-like cells and human iPSC-derived neurons	**Michael Beazely** [1], **Zoya Leonenko** [1], **Michel Gingras** [1], **Brian Kendall** [1], **Kartar Singh** [1]	[1] University of Waterloo

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Sat May 24	P3-B-62 - Insulin modulates glutamate transmission in the rat dorsomedial hypothalamus	**Karen Crosby** [1], **Christelinda Laureijs** [1]	[1] Mount Allison University
Sat May 24	P3-B-63 - Enhanced calcium-permeable ampar-dependent long-term potentiation in the hippocampus of C9orf72 knockout mice	**Liam Ralph** [1], **Lauren Joe** [1], **Belay Gebregergis** [2], **Meng Tian** [2], **John Georgiou** [3], **Graham Collingridge** [4], **Janice Robertson** [1]	[1] University of Toronto, [2] Tanz Centre for Research in Neurodegenerative Diseases, [3] Lunenfeld-Tanenbaum Research Institute, [4] University of Toronto, Tanz CRND, Lunenfeld-Tanenbaum Research Institute,
Sat May 24	P3-B-64 - Investigating anesthetic-induced neurotoxicity: Molecular mechanisms and neuronal activity alterations	**Zainab Khan** [1], **Fahad Iqbal** [1], **Matthew Yacoub** [1], **Badra Abbas** [1], **Naweed Syed** [1]	[1] University of Calgary
Sat May 24	P3-B-65 - Interaction of plasticity paradigm and social isolation in mouse prefrontal cortex	**Angela Zolis** [1], **Hsin-Yun Hsieh** [1], **Sridevi Venkatesan** [1], **Rachael Ingram** [2], **John Georgiou** [2], **Tarek Rajji** [3], **Graham Collingridge** [1], **Evelyn Lambe** [1]	[1] University of Toronto, [2] Lunenfeld-Tanenbaum Research Institute, [3] UT Southwestern Medical Center
Sat May 24	P3-B-66 - Optophysiological imaging of theta burst stimulation-induced calcium signals in mouse prefrontal cortex	**Hsin-Yun Hsieh** [1], **Angela Zolis** [1], **Sridevi Venkatesan** [1], **Rachael Ingram** [2], **John Georgiou** [2], **Tarek Rajji** [3], **Graham Collingridge** [4], **Evelyn Lambe** [1]	[1] University of Toronto, [2] Lunenfeld-Tanenbaum Research Institute, [3] UT Southwestern Medical Center, [4] University of Toronto, Tanz CRND, Lunenfeld-Tanenbaum Research Institute,
Sat May 24	P3-B-67 - Dextroamphetamine alters synaptic connectivity in rat hippocampal cultures	**Matthew Yacoub** [1], **Fahad Iqbal** [1], **Zainab Khan** [1], **Badra Abbas** [1], **Hinna Ahsan** [1], **Collin Chill-Fone Luk** [1], **Naweed Syed** [1]	[1] University of Calgary
Sat May 24	P3-B-68 - Computational network analysis reveals distinct antiseizure drug effects in an in vitro zero-mg^{2+} seizure model	**Hinna Ahsan** [1], **Fahad Iqbal** [1], **Matthew Yacoub** [1], **Zainab Khan** [1], **Naweed Syed** [1]	[1] University of Calgary
Sat May 24	P3-B-69 - Characterization of electrophysiological properties of retinoic acid /GLP-1 differentiated SH-SY5Y cells	**Jack Moffat** [1], **James Livingstone** [1], **Kartar Singh** [1], **Michael Beazely** [1]	[1] University of Waterloo
Sat May 24	P3-B-70 - Exploration of cellular phenotypes and lipid dysbiosis in ABCD1 deficiency, using human stem cell derived microglia, to understand the mechanisms of X-ALD	**Mahta Jan** [1], **Roseanne Nguyen** [2], **Julien Muffat** [3]	[1] Sick Kids Hospital, [2] University of Toronto, [3] The Hospital for Sick Children
Sat May 24	P3-B-71 - Using LIPv and LIPd to divulge the microcircuitry of persistent activity in visuospatial working memory	**Holly Crowson** [1], **Martin Pare** [1]	[1] Queen's University
Sat May 24	P3-B-72 - Lactate modulates brainstate differently when	**Axita Shienh** [1], **Claire Scavuzzo** [1], **Clayton Dickson** [1]	[1] University of Alberta

	administered centrally vs. systemically		
Sat May 24	P3-B-73 - Cav1.2 in tripartite astrocytes: Relevance to acute and disease-driven hippocampal neuroinflammation	**Samantha Carew [1], Craig Moore [1], Matthew Parsons [1]**	[1] Memorial University of Newfoundland
Sat May 24	P3-B-74 - Developing a human iPSC-based 3D co-culture system to investigate microglia-mediated synaptic elimination in health and disease	**Fumao Sun [1], Miguel Salvador Torres-Perez [2], Roseanne Nguyen [2], David Millar [1], Ai Tian [1], Yun Li [2], Julien Muffat [1]**	[1] The Hospital for Sick Children, [2] University of Toronto
Sat May 24	P3-B-75 - Ketamine enhancement of surface expression of TrkB modulates α5GABAA receptor activity	**Yalun Zhang [1], Dian-Shi Wang [1], MeiFeng Yu [1], Howell Fang [1], Connor Brenna [1], Beverley Orser [1]**	[1] University of Toronto
Sat May 24	P3-C-76 - The impact of alpha-synuclein pathology on sustained and selective attention	**Samina Panjwani [1], Vaidehi Sadrani [1], Vania Prado [1], Lisa Saksida [1], Marco Prado [1], Timothy Bussey [1]**	[1] University of Western Ontario
Sat May 24	P3-C-77 - Diffuse and cell-specific transcriptomic changes after mild traumatic brain injury	**Aditya Swaro [1], Brianna Bristow [1], Mehwish Anwer [1], Angela A Zhang [1], Larissa Kraus [1], Sarah Erwin [1], Tara Stach [1], Kaitlin Sullivan [1], Riya Gandhi [1], Jianjia Fan [1], Wai Hang Cheng [1], Cheryl Wellington [1], Mark Cembrowski [1]**	[1] University of British Columbia
Sat May 24	P3-C-78 - TSC2-mTORC1 axis regulates morphogenesis and neurological function of Gli1+ adult-born dentate granule cells	**Max Kowalczyk [1], Yu-Ju Lee [2], Wei-Hsiang Huang [1]**	[1] Research Institute of the McGill University Heath Centre, [2] McGill University
Sat May 24	P3-C-79 - Early cortical hyperexcitability and altered sensorimotor processing in a mouse model of Huntington disease	**Daniel Ramandi [1], Eunyoung Park [1], Timothy Murphy [1], Lynn Raymond [1]**	[1] University of British Columbia
Sat May 24	P3-C-80 - Lineage tracking and a novel dual-reporter AAV reveal in vivo astrocyte-to-neuron reprogramming coincident with functional recovery following ischemic stroke	**Haleigh Riddell [1], Jack Hickmott [1], Fei Li [2], Ricky Siu [1], Cindi Morshead [1]**	[1] University of Toronto, [2] Institute of Biomedical Engineering; University of Toronto
Sat May 24	P3-C-81 - Disrupted temporospatial noradrenaline dynamics in motor cortex underlie motor learning deficits in an ASD mouse model	**Xuming Yin [1], Nathaniel Jones [1], Aaron Jumarang [2], Tommaso Patriarchi [3], Yulong Li [4], Simon Chen [1]**	[1] University of Ottawa, [2] Department of Systems Design Engineering, University of Waterloo, Waterloo, Canada, [3] Institute of Pharmacology and Toxicology, University of Zürich, Zürich, Switzerland, [4] Peking University
Sat May 24	P3-C-82 - Decoding the bipolar disorder neuronal secretome: identifying a biomarker for lithium	**Yumin Liu [1], Malak Abuzgaya [1], Martin Alda [2], Guy Rouleau [1], Anouar Khayachi [1], Austen Milnerwood [1]**	[1] McGill University, [2] Dalhousie University

	responsiveness and assessing network activity		
Sat May 24	P3-C-83 - Understanding brain mechanisms underlying descending pain modulation in pediatric participants with headache: Use of functional MRI	**Jenny John** [1], **Clara Moon** [1], **Julie Shulman** [1], **Navil Sethna** [1], **Allison Smith** [1], **Alexa Huesgen Hobbs** [1], **William La Cava** [1], **Alyssa Lebel** [1], **Scott Holmes** [1]	[1] Boston Children's Hospital
Sat May 24	P3-C-84 - A novel Usher Syndrome type 1F model to uncover the pathomechanism of retinal dystrophy	**Paul Chrystal** [1], **Jingpin Daniel Liu** [1], **Ishmael Majeed** [1], **Qian Lin** [1], **Vince Tropepe** [1]	[1] University of Toronto
Sat May 24	P3-C-85 - Widespread transcriptomic reorganization following CHIMERA traumatic brain injury	**Mehwish Anwer** [1], **Aditya Swaro** [1], **Brianna Bristow** [1], **Angela A Zhang** [1], **Larissa Kraus** [1], **Sarah Erwin** [1], **Tara Stach** [1], **Kaitlin Sullivan** [1], **Riya Gandhi** [1], **Jianjia Fan** [1], **Wai Hang Cheng** [1], **Cheryl Wellington** [1], **Mark Cembrowski** [1]	[1] University of British Columbia
Sat May 24	P3-C-86 - Stress-induced alterations in astrocyte properties and trophic signaling contribute to blood-brain barrier adaptations in depression	**Luisa Bandeira Binder** [1], **Marie-Éve Bossé** [1], **Sam Paton** [1], **Rebecca Redmond** [2], **Manon Lebel** [3], **Caroline Ménard** [1]	[1] Université Laval, [2] Trinity College Dublin, [3] CERVO
Sat May 24	P3-C-87 - Use of machine learning for identification of Parkinson's disease and mild cognitive impairment through neuroimaging and biofluid biomarkers: A study from the PPMI cohort	**Anthaea-Grace Patricia Dennis** [1], **Robert Chen** [2], **Antonio Strafella** [2], **Philip Gerretsen** [3], **Sarah Martin** [4]	[1] University of Toronto, [2] Krembil Brain Institute, University Health Network, [3] Brain Health Imaging Centre, Centre for Addiction and Mental Health, [4] Manchester Metropolitan University
Sat May 24	P3-C-88 - The neurophysiological underpinnings of brain resilience: a deep phenotyping fMRI study of AD pathology progression	**Emma Pineau** [1], **Keying Chen** [2], **Magaret Koletar** [2], **Maged Goubran** [3], **John G Sled** [4], **Bojana Stefanovic** [3]	[1] University of Toronto, [2] Sunnybrook Research Institute, [3] Sunnybrook Research Institute, University of Toronto, [4] Hospital for Sick Children Research Institute; University of Toronto
Sat May 24	P3-C-89 - Uncovering behavioral differences in GRIN1-related disorder mice using machine learning tools	**Daria Nazarkina** [1], **Yao Tan** [1], **Megan Sullivan** [1], **Amy Ramsey** [1], **Sridevi Venkatesan** [1], **Evelyn Lambe** [1]	[1] University of Toronto
Sat May 24	P3-C-90 - Selective potentiation of NaV1.1 channels by XPC-A in Dravet mice suppresses spontaneous seizures, prevents SUDEP, and increases long term potentiation	**Vishaal Rajani** [1], **Samuel Goodchild** [1], **J.P. Johnson** [1], **Kristen Burford** [1], **Celine Dube** [1], **Samrat Thouta** [1], **Arjun Mahadevan** [1], **Matthew Waldbrook** [1], **Alison Cutts** [1], **Maegan Soriano** [1], **Maja Filipovic** [1], **Emily Hurley** [1], **Verner Lofstrand** [1], **Helen Clement** [1], **Davie Kim** [1], **Steven Wesolowski** [1], **Jim Empfield** [1]	[1] Xenon Pharmaceuticals Inc.
Sat May 24	P3-C-91 - Exploring the role of non-ionotropic NMDAR-Panx1 signaling in stroke-induced dementia	**Cherie Brown** [1], **Roger Thompson** [2]	[1] University of Calgary, [2] Hotchkiss Brain Institute

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Sat May 24	P3-C-92 - Orthosteric and allosteric negative CB1-R modulation in hyperdopaminergic states	**Claudia Lutelmowski [1], Kim Sugamori [1], Catharine Mielnik [1], Ali Salahpour [1], Iain Greig [2], Ruth Ross [1]**	[1] University of Toronto, [2] University of Aberdeen, Aberdeen, UK
Sat May 24	P3-C-93 - Prenatal alcohol exposure in rats: A longitudinal analysis of cognitive performance and neuroinflammatory processes in aging males and females	**Sunny Qureshi [1], Carolina Luft [1], Madeleine Maheu [1], Jordan Albanese [1], Victoria Vella [1], Kingston Wong [1], Parker Holman [1], Tamara Bodnar [2], Charlis Raineki [1], Paula Duarte-Guterman [1]**	[1] Brock University, [2] University of Calgary
Sat May 24	P3-C-94 - The role of neuronal stochasticity in cognitive impairment due to Alzheimer's disease pathology	**Keying Chen [1], Emma Pineau [2], Magaret Koletar [1], Andrea Trevisiol [1], Jack He [3], Mary Hill [1], Joanne Mclaurin [1], Bojana Stefanovic [4]**	[1] Sunnybrook Research Institute, [2] University of Toronto, [3] McMaster University, [4] Sunnybrook Health Sciences Centre
Sat May 24	P3-C-95 - The role of MANF/CDNF in dopamine neuroprotection in pre-clinical animal models	**Almila Bahar [1], Mihir Pradhan [1], Parminder Raina [1], Bhagwati Gupta [1]**	[1] McMaster University
Sat May 24	P3-C-96 - Investigating changes to the endocannabinoid system following adolescent repetitive mild traumatic brain injury in male and female rodents	**Lucia Javorcikova [1], Thomas Carr [1], Catherine Hume [1], Samantha Baglot [1], Jessica Scheufen [1], Alexander Lohman [1], Matthew Hill [2]**	[1] University of Calgary, [2] Hotchkiss Brain Institute
Sat May 24	P3-C-97 - Modulating the levels of alpha-synuclein and Parkinson's disease pathogenesis using a novel dual-hit hypothesis model	**Emma Green [1], Haley Geertsma [1], Dalia Hourani [1], Steve Callaghan [1], Maxime Rousseaux [1]**	[1] University of Ottawa
Sat May 24	P3-C-98 - Behavioural effects of chronic prefrontal cortex inhibition in mice: sex differences and stress susceptibility	**Jaime Knoch [1], Yashika Bansal [2], Sierra Codeluppi [3], Etienne Sibille [2], Mounira Banasr [2]**	[1] University of Toronto, [2] Campbell Family Mental Health Research Institute of CAMH, [3] Centre for Addiction & Mental Health
Sat May 24	P3-C-99 - Things mice do in the dark: Are my mice abnormal?	**Lindsey Kitchenham [1], Shay Forget [1], Isaiah Morrow [1], Aileen Maclellan [2], Pietro Paletta [1], Ashutosh Patel [1], Elena Choleris [1], Georgia Mason [1]**	[1] University of Guelph, [2] University of Ottawa
Sat May 24	P3-C-100 - Chloride dysregulation and impaired GABAergic signaling in 15q13.3 microdeletion syndrome	**Zahra Dargaei [1], Pardis Asgari [2], Karun Singh [1], Jaideep Bains [1]**	[1] University Health Network, [2] Krembil Resaerch Institute
Sat May 24	P3-C-101 - Comparison of neuronal vulnerability to huntingtin conditional knockout in the hippocampus versus striatum	**Jessica Barron [1], Laura Dawson [1], Samantha Carew [1], Emily Hurley [1], Meghan Greenland [1], Fatemeh Ashrafganjoie [2], Firoozeh Nafar [1], Jacqueline Blundell [1], Matthew Parsons [1]**	[1] Memorial University of Newfoundland, [2] Memorial University
Sat May 24	P3-C-102 - TrkA reduction and proNGF transport deficits in vitro but not in vivo for a TrkA-R685A knock-in	**Elise Chiu [1], Anish Puri [1], Erika Kropf [1], Margaret Fahnestock [1]**	[1] McMaster University

	mouse model disrupting TrkA-PTP1B interaction		
Sat May 24	P3-C-103 - Subjective autonomic symptoms and daytime sleepiness in people with drug-resistant focal epilepsy	**Hannah Gray** [1], **Hellen Kreinter** [2], **Mariam Elnazali** [3], **Kevin Shoemaker** [1], **Ana Suller Marti** [4]	[1] Western University, [2] The Ottawa Hospital, London Health Sciences Centre, [3] London Health Sciences Centre, [4] London Health Sciences Centre; Western University
Sat May 24	P3-C-104 - Proteomic profiling of the human cerebellum in major depression	**Reza Rahimian** [1], **Jenna Cleyle** [2], **Lorne Taylor** [2], **Ghazal Fakhfouri** [3], **Maria Antonietta Davoli** [4], **Gustavo Turecki** [3], **Naguib Mechawar** [1]	[1] Douglas Mental Health University Institute, [2] McGill University Health Center Research Institute, [3] McGill University, [4] Douglas Hospital Research Center
Sat May 24	P3-C-105 - Spatially resolved transcriptomics identifies intercellular signaling post-ischemic stroke that impacts neural stem cells	**He Huang** [1], **Emerson Daniele** [1], **Wing Chung Jessie Lam** [1], **Teodora Tockovska** [1], **Daniela Lozano Casasbuenas** [1], **Maryam Faiz** [1], **Scott A. Yuzwa** [1]	[1] University of Toronto
Sat May 24	P3-C-106 - Postnatal stress exacerbates, while enrichment mitigates, locus coeruleus pretangle tau-induced gene alterations in the hippocampus	**Zia Hasan** [1], **Sarah E. Torraville** [1], **Camila Reinhardt** [1], **Touati Benoukraf** [1], **Qi Yuan** [1]	[1] Memorial University of Newfoundland
Sat May 24	P3-C-107 - An integrated iPSC-derived cortical, cerebellar and choroid plexus organoid model of SCA1	**Alireza Naderi** [1]	[1] Simon Fraser University
Sat May 24	P3-C-108 - What change require: Assessing mRNA regulation in direct neuronal reprogramming	**Yu-Yun Gao** [1], **Daniel Young** [1], **Sandrine Armanville** [2], **Antoine Dufour** [1], **Giacomo Masserdotti** [3], **Magdalena Götz** [3], **Janelle Drouin-Ouellet** [4], **Guang Yang** [1]	[1] University of Calgary, [2] Université de Montréal, [3] BMC LMU Munich, [4] University of Montreal
Sat May 24	P3-C-109 - Molecular and functional insights into TCU101 as a potential therapeutic agent in a 3-NP-induced Huntington's disease model	**Ayooluwa Ibiayo** [1]	[1] Tzu Chi University
Sat May 24	P3-C-110 - Ketamine hampers corollary discharge signals in lateral prefrontal cortex neurons: Implications for models of Schizophrenia	**Julio Martinez-Trujillo** [1], **Benjamin Corrigan** [2], **Megan Roussy** [3], **Rogelio Luna** [4], **Roberto Gulli** [5], **Adam Sachs** [6], **Jeffrey Schall** [2], **Lena Palaniyappan** [7]	[1] Robarts Research Institute, [2] York University, [3] University of Western Ontario, [4] University of Chihuaha, [5] Columbia University, [6] The Ottawa Hospital Civic Campus, [7] Douglas Hospital; McGill University
Sat May 24	P3-C-111 - Neural markers of social interaction deficits in neurodevelopmental disorders: A normative modelling approach	**Annemarie Wolff** [1], **Guillaume Dumas** [1]	[1] Université de Montréal
Sat May 24	P3-C-112 - Maternal exposure to acetaminophen affects neuronal	**Hannah Wynen** [1], **Srushti Patel** [1], **Matthew Mazza** [1], **Dorota Crawford** [1]	[1] York University

	morphology within the cerebellum and associated behaviours		
Sat May 24	P3-C-113 - Acetaminophen-exposure affects dendritic morphology in the developing medial prefrontal cortex	**Srushti Patel** [1], **Hannah Wynen** [1], **Dorota Crawford** [1]	[1] York University
Sat May 24	P3-C-114 - Investigating the nuclear alpha-synuclein interactome using TurboID	**Devin Brain** [1], **Haley Geertsma** [1], **Benjamin Nguyen** [1], **Terry Suk** [1], **Dalia Hourani** [1], **Steve Callaghan** [1], **Maxime Rousseaux** [1]	[1] University of Ottawa
Sat May 24	P3-C-115 - The effect of amygdala kindling on underlying pain sensitivity and pain-related emotional behaviours	**Evana Xiao** [1], **Neil Fournier** [2], **Kaylea Post** [2], **Kerri Mozessohn** [2]	[1] University of Toronto, [2] Trent University
Sat May 24	P3-C-116 - Prenatal valproic acid exposure: Gestational timing and sex-specific effects in an autism spectrum disorder model	**Tayebeh Sepahvand** [1], **Kerri Marie Sparkes** [1], **Tanya Nadine Burry** [1], **Meagan Elizabeth Hinks** [1], **Lucas Francis Fowler** [1], **Alexandre Seiji Maekawa** [1], **Rachel Hong Qing Kelly** [1], **Negar Nazari** [1], **Ashlyn Swift-Gallant** [1]	[1] Memorial University of Newfoundland
Sat May 24	P3-C-117 - Palmitoylation plays a role in multi-system Proteinopathy	**Firyal Ramzan** [1], **Dale Martin** [1]	[1] University of Waterloo
Sat May 24	P3-C-118 - Spatial and single cell transcriptomics reveal developmental neural circuit deficits in human forebrain assembloids modeling the 15q13.3 microdeletion	**Lingdi Nie** [1], **Savannah Kilpatrick** [2], **Xavier Rutherford** [3], **Marie-Ève Paquet** [4], **Karun Singh** [1]	[1] University Health Network, [2] McMaster University, [3] University of Toronto, [4] Université Laval
Sat May 24	P3-C-119 - Investigating altered somatosensory function in a peripheral nervous system organoid model of autism spectrum disorder	**Courtney Irwin** [1], **Zahra Dargaei** [2], **Andrew Mocle** [2], **William Stager** [1], **Lingdi (Lydia) Nie** [2], **Ramya Lakshminarasimhan** [2], **Anran (Annie) Cheng** [2], **Jaideep Bains** [2], **Karun Singh** [1]	[1] University of Toronto, [2] University Health Network
Sat May 24	P3-C-120 - Age-dependent susceptibility to seizure-like activity and antiseizure medications in developing neuronal networks	**Fahad Iqbal** [1], **Matthew Yacoub** [1], **Zainab Khan** [1], **Hinna Ahsan** [1], **Naweed Syed** [1]	[1] University of Calgary
Sat May 24	P3-C-121 - Key Therapeutic Target for pathological mechanisms leading to blindness: B1R wins over B2R	**Shima Shirzad** [1], **Menakshi Bhat** [2], **Fernand Gobeil** [3], **Réjean Couture** [4], **Elvire Vaucher** [4]	[1] School of Optometry, Université de Montréal, [2] University of Montreal, [3] University of Sherbrooke, [4] Université de Montréal
Sat May 24	P3-C-122 - Examining the role of IL-1R antagonism in treating postpartum depression using a rodent model	**Romina Garcia De Leon** [1], **Wansu Qiu** [2], **Bhakti Almoula** [3], **Catherine Rodriguez** [3], **Stephanie E. Lieblich** [2], **Liisa Galea** [4]	[1] University of Toronto, CAMH, [2] University of British Columbia, [3] University of Toronto, [4] Centre for Addiction and Mental Health, University of Toronto
Sat May 24	P3-C-123 - A deficit in GABAergic inhibition in the ACC as a substrate of chronic pain-induced depression	**Susana Lima** [1], **Heba Elseedy** [2], **Victor Mathis** [2], **Khaled Abdallah** [2], **Clementine Fillinger** [2], **Feng Wang** [3], **Yves De Koninck** [3], **Ipek Yalcin** [4]	[1] Centre Recherche CERVO, Université Laval / INCI, Université Strasbourg, [2] Institut des Neurosciences Cellulaires et Intégratives, Centre National de la Recherche Scientifique, [3] Université Laval, [4] Centre National de la Recherche Scientifique

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Sat May 24	P3-C-124 - Pre-operative neuroimaging biomarkers for DBS response: Advancing patient selection with network-based approaches	**Tiffany Rodrigues** [1], **Yutong Bai** [2], **Alexandre Boutet** [3], **Andrew Yang** [4], **Andrew Son** [5], **Kristine Keon** [5], **Rafael Buongermini** [4], **Mohammad Mehdi Hajiabadi** [4], **Chao-Kai Hu** [6]	[1] University Health Network, [2] Beijing Tiantan Hospital, [3] Joint Department of Medical Imaging, University of Toronto, [4] Toronto Western Hospital, [5] Temerty Faculty of Medicine, University of Toronto, [6] Mackay Memorial Hospital, Taipei
Sat May 24	P3-C-125 - Role of the MEN1 gene in cellular and molecular mechanisms underlying Alzheimer's disease in human autopsied brain tissue	**Badra Abbas** [1], **Zainab Khan** [1], **Fahad Iqbal** [1], **Matthew Yacoub** [1], **Anosha Ulfat** [2], **Naweed Syed** [1]	[1] University of Calgary, [2] University of Montreal
Sat May 24	P3-C-126 - A multimodal molecular characterization of the human postmortem uncinate fasciculus	**Kelly Perlman** [1], **Chuck Chen** [2], **Mackenzie Smith** [2], **John Kim** [1], **Valérie Pineau Noël** [3], **Justine Major** [4], **Armand Collin** [5], **Julien Cohen-Adad** [5], **Daniel Côté** [4], **Richard Bazinet** [2], **Gustavo Turecki** [1], **Naguib Mechawar** [6]	[1] McGill University, [2] University of Toronto, [3] Laval University; CERVO brain research center, [4] Université Laval, [5] Polytechnique Montréal, MILA, [6] Douglas Mental Health University Institute
Sat May 24	P3-C-127 - Circadian rhythmicity of chronic pain in a mouse model of multiple sclerosis	**Vina Li** [1], **Julia Segal** [2], **Nader Ghasemlou** [1]	[1] Queen's University, [2] Queen's University
Sat May 24	P3-C-128 - Effects of endocannabinoid modulation in an acute mouse model of Parkinson's disease	**Lola Zovko** [1], **Catharine A. Mielnik** [1], **Ruth Ross** [1], **Ali Salahpour** [1]	[1] University of Toronto
Sat May 24	P3-C-129 - Assessing reinforcement of sweet additives in an oral morphine self-administration task in male and female rats	**Jiayu Zheng** [1], **Adiia Stone** [1], **Ella Claridge** [1], **Rita El Azali** [1], **Davin Peart** [1], **Matthew Rumas** [1], **Karine Habib** [1], **Scott Barrett** [2], **Jennifer Murray** [1]	[1] University of Guelph, [2] Department of Psychology, University of Nebraska, Lincoln, Nebraska, USA
Sat May 24	P3-D-130 - Modular integration of multimodal cues in the cortical reach network	**Gaelle Luabeya** [1], **Ada Le** [2], **Lina Musa** [1], **Amirhossein Ghaderi** [1], **Simona Monaco** [3], **Erez Freud** [1], **J Douglas Crawford** [1]	[1] York University, [2] BEworks, [3] University of Trento
Sat May 24	P3-D-131 - Spatial transcriptomics reveal distinct cell populations in the human balance organ	**Weisheng Liang** [1], **Ryosuke Yamamoto** [2], **Emilia Luca** [2], **Alain Dabdoub** [2]	[1] University of Toronto, [2] Sunnybrook Research Institute
Sat May 24	P3-D-132 - Dopamine and GABA from the zona incerta innervates the medial superior colliculus to suppress escape	**Jenny Phy-Lim** [1], **Persephone Miller** [1], **Melissa Chee** [1]	[1] Carleton University
Sat May 24	P3-D-133 - Sensorimotor integration in soft bodies	**Dimitri Skandalis** [1], **Cynthia F. Moss** [2]	[1] Brock University, [2] Johns Hopkins University
Sat May 24	P3-D-134 - Characteristics of neuronal activity in motor and prefrontal areas during a dual task	**Toshi Nakajima** [1], **Atsushi Miyazaki** [2], **Hajime Mushiake** [3]	[1] Kindai University Faculty of Medicine, [2] Shokei Gakuin University, [3] Tohoku University School of Medicine

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Sat May 24	P3-D-135 - A neuronal pathway for the supraspinal relay of warm and cool sensation	**Xinying Zhang** [1], **Farin B. Bourojeni** [1], **Samuel Ferland** [2], **Anna Mcfarlane** [3], **Kieran Boyle** [3], **Madoka Koyanagi** [4], **Junichi Hachisuka** [3], **Feng Wang** [5], **Yves De Koninck** [5], **Artur Kania** [6]	[1] McGill University, [2] Cervo research center, [3] University of Glasgow, [4] Wakayama Medical University, [5] Université Laval, [6] Institut de Recherches Cliniques de Montréal
Sat May 24	P3-D-136 - Spinal reflex contributions to multi-finger force control: Insights from transcutaneous nerve stimulation and high-density electromyography	**Susan Coltman** [1], **Luis Vargas** [2], **Xiaogang Hu** [3]	[1] Pennsylvania State University, [2] University of North Carolina-Chapel Hill & NC State University, [3] The Pennsylvania State University
Sat May 24	P3-D-137 - Auditory processing abnormalities in Cntnap2-knockout mice	**Nita Chan** [1], **Shane Seheult** [1], **Paul Faure** [1], **Susanne Schmid** [2], **Katrina Choe** [1]	[1] McMaster University, [2] University of Western Ontario
Sat May 24	P3-D-138 - Dominant ICMS-evoked EMG pattern sharing across muscles uncovered by recursive clustering, including a possible echolocation module in sensorimotor cortex of egyptian fruit bats (rousettus aegyptiacus)	**Milad Hafezi** [1], **Saba Hosseini** [2], **James Liggins** [1], **Andrew Halley** [3], **Carlos Pineda** [3], **Tobias Schmid** [4], **Fernando Gomez** [3], **Robin Boparai** [3], **Leah Krubitzer** [3], **Michael Yartsev** [4], **Dylan Cooke** [1]	[1] Simon Fraser University, [2] Biomedical Physiology student, [3] University of California, Davis, [4] University of California, Berkeley
Sat May 24	P3-D-139 - Comparative mapping of glucagon-like peptide-1 receptor (Glp1r) mRNA in the mouse and human nodose ganglia	**Laurent Gautron** [1]	[1] UT Southwestern Medical Center
Sat May 24	P3-D-140 - Analgesic properties of MDMA in acute and inflammatory pain in mice	**Yik Lok Wong** [1], **Robert Bonin** [1]	[1] University of Toronto
Sat May 24	P3-D-141 - Influence of handedness on changes in hand muscle representation size and excitability within ipsilateral motor cortex during unimanual contraction	**Mustaali Hussain** [1], **Stevie Foglia** [1], **Jiyeon Park** [1], **Ava Bobinski** [1], **Aimee Nelson** [1]	[1] McMaster University
Sat May 24	P3-D-142 - VTA dopaminergic pathways to the forelimb motor cortex: Anatomical, molecular, and sex-specific insights	**Zohreh Vaziri** [1], **Quentin Lejeune** [2], **Lydia Saïdi** [3], **Christian Ethier** [4]	[1] CERVO Brain Research Centre, Université Laval, [2] Centre CERVO, [3] CERVO Brain Research Center, [4] Université Laval
Sat May 24	P3-D-143 - Individual attentional abilities modulate speech motor control systems within children	**Rita Bishai** [1], **Adrianna Molenaar** [1], **Natalia Van Esch** [1], **Kiera Leon** [1], **Nichole Scheerer** [1]	[1] Wilfrid Laurier University
Sat May 24	P3-D-144 - Posterior Intraparietal Sulcus activity during a head unrestrained, memory guided reach task	**Brando Sheldrick** [1], **Veronica Nacher Carda** [1], **Jennifer Lin** [1], **Hongying Wang** [2], **Saihong Sun** [1], **Xiaogang Yan** [1], **J Douglas Crawford** [1]	[1] York University, [2] Centre for Integrative & Applied Neuroscience, Centre for Vision Research and Connected Minds

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Sat May 24	P3-D-145 - Motor learning deficits in a mouse model of Fragile X Syndrome	**Leanne Young** [1], **Ann Derham** [1], **Rui Zhu** [1], **Aparna Suvrathan** [1]	[1] McGill University
Sat May 24	P3-D-146 - Profiling the transcriptomic and epigenomic features of human auditory neurons and glial cells to advance reprogramming strategies	**Boaz Ehiogu** [1], **Emilia Luca** [2], **Ryosuke Yamamoto** [2], **Alain Dabdoub** [2]	[1] University of Toronto, [2] Sunnybrook Research Institute
Sat May 24	P3-D-147 - Investigating the role of attention in speech motor control	**Adrianna Molenaar** [1], **Rita Bishai** [1], **Nichole Scheerer** [1]	[1] Wilfrid Laurier University
Sat May 24	P3-E-148 - The medial prefrontal cortex and the rapid effects of estradiol on cognition in male mice	**Samantha Mcguinness** [1], **Katherine Andrews** [1], **Jayati Mishra** [1], **Elena Choleris** [1]	[1] University of Guelph
Sat May 24	P3-E-149 - Homeostatic plasticity during habituation to predictable stress	**Mehrzad Rahmani** [1], **Wataru Inoue** [1]	[1] University of Western Ontario
Sat May 24	P3-E-150 - Endothelin-3 enhances membrane expression of NaX channels and response to hypernatremia in rat magnocellular vasopressin cells of the supraoptic nucleus	**Sandra Salgado Mozo** [1], **Charles Bourque** [1]	[1] McGill University
Sat May 24	P3-E-151 - Light-evoked release of melanin-concentrating hormone in the lateral septum	**Mikayla Payant** [1], **Nikita Koziel Ly** [1], **Melissa Chee** [1]	[1] Carleton University
Sat May 24	P3-E-152 - Brain-derived neurotrophic factor-induced proteostasis deficit	**Tianze Shi** [1], **Toshifumi Tomoda** [2], **Etienne Sibille** [2], **Akiko Sumitomo** [2]	[1] Centre for Addiction & Mental Health, [2] Campbell Family Mental Health Research Institute of CAMH
Sat May 24	P3-E-153 - Melanin-concentrating hormone inhibited mania-like hyperactivity at the VTA	**Jesukhogie Williams-Ikhenoba** [1], **Melissa Chee** [1]	[1] Carleton University
Sat May 24	P3-E-154 - Understanding hypothalamic circuits regulating the stress response	**Aoi Ichiyama** [1], **Sam Mestern** [2], **Rui Wen** [1], **Kevin Son** [1], **Lyle Muller** [3], **Wataru Inoue** [1]	[1] University of Western Ontario, [2] University Of Western Ontario, [3] Western University
Sat May 24	P3-E-155 - Elucidating state-dependent activity dynamics of hypothalamic stress output neurons using spiking network models and dynamic clamp	**Sam Mestern** [1], **Aoi Ichiyama** [2], **Lyle Muller** [3], **Wataru Inoue** [2]	[1] University Of Western Ontario, [2] University of Western Ontario, [3] Western University
Sat May 24	P3-E-156 - Colonic butyrate lowers hepatic glucose production via FFAR2-GLP-1-vagal afferent neuronal signaling	**Hallie Wachsmuth** [1], **Adelina Lane** [1], **Rachel Meyer** [2], **Frank Duca** [1]	[1] University of Arizona, [2] School of Nutritional Sciences, University of Arizona

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Sat May 24	P3-E-157 - Role of voltage gated Na+ channel Nav1.7 in regulating electrical activity of rat subfornical organ neurons	**Nathan Ayano** [1], **Mark Fry** [2]	[1] University of Manitoba, Department of Biological Sciences, [2] University of Manitoba
Sat May 24	P3-E-158 - Connecting specific central GLP-1 receptors functionally with glucose homeostasis and energy balance	**Ishnoor Singh** [1], **Jia Nuo Feng** [1], **Nathalie Fung** [1], **Le Wang** [2], **Kacey Prentice** [1], **Zhiping Pang** [3], **Michael Wheeler** [1]	[1] University of Toronto, [2] Child Health Institute of New Jersey, New Brunswick, [3] Rutgers University
Sat May 24	P3-F-159 - Developing a novel virtual reality assessment to quantify navigational impairments in aging and early Alzheimer's disease	**Annie Kim** [1], **Afsoon Gharib Mombeini** [1], **Isaac Morgan** [1], **Adam Lester** [1], **Inzaghi Moniaga** [1], **Talia Apel** [1], **Leticia Cid** [1], **Manu Madhav** [1]	[1] University of British Columbia
Sat May 24	P3-F-160 - Categorization with automated touchscreens (CAT) task: A novel operant paradigm for studying visual category learning in mice	**Heather Collett** [1], **Dan Ambrochi** [1], **Sarah Catania** [1], **Kartikay Pabbi** [1], **Boyer Winters** [1]	[1] University of Guelph
Sat May 24	P3-F-161 - Altered neuronal lactate dehydrogenase a expression in mice results in changes to spatial memory and lipid droplet formation depending on sex and age	**Marc Courchesne** [1], **Robert Cumming** [1]	[1] Western University
Sat May 24	P3-F-162 - Preference for a familiar in pain: Opioid dependent behaviour	**Crystal Mui** [1], **Navdeep Lidhar** [1], **Jennet Baumbach** [1], **Sana Khan** [1], **Ashley Mutasa** [1], **Zainab Haseeb** [1], **Seyed Asaad Karimi** [1], **Loren Martin** [1]	[1] University of Toronto
Sat May 24	P3-F-163 - Sex-specific variations in CB1 receptor expression in the prefrontal cortex and ventral tegmental area following adolescent cannabinoid administration in the nucleus accumbens	**Amira Boukhelif** [1], **Emmanuelle Person** [1], **Paniz Akbari** [1], **Helene Plamondon** [1]	[1] University of Ottawa
Sat May 24	P3-F-164 - Learning of an integral 2D auditory task requires the orbitofrontal cortex	**Matthew Gardner** [1]	[1] Concordia University
Sat May 24	P3-F-165 - Neural substrates of working memory capacity limitations in the prefrontal cortex of the freely moving Marmoset	**Tsz Wai Bentley Lo** [1], **Susheel Vijayraghavan** [2], **Lyle Muller** [1], **Julio Martinez-Trujillo** [1]	[1] Western University, [2] University of Western Ontario
Sat May 24	P3-F-166 - Neural substrates of 17ß-estradiol-induced potentiation of cocaine-primed reinstatement in ovariectomized female rats	**Davin Peart** [1], **Adiia Stone** [1], **Anita Sikic** [1], **Olivia O'neill** [2], **Rita El Azali** [1], **Jessica Karlovcec** [1], **Ella Claridge** [1], **Jennifer Murray** [1]	[1] University of Guelph, [2] University of Calgary

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Sat May 24	P3-F-167 - Repeated exposure to nicotine and cigarette smoke extract produce age dependent effects on spatial memory and compulsive-like behaviour in female rats	**Donna Wood [1], Laura H. Kostwinder [1], Sabrina B. Dewan [1], Davin Peart [1], Olivia S. O'neill [1], Ethan Huff [1], Erin M. Rock [1], Ashley Geremia [1], Boyer Winters [1], Craig D.C. Bailey [1], Jennifer Murray [1]**	[1] University of Guelph
Sat May 24	P3-F-168 - Muscarinic modulation of parvalbumin neurons in attention	**Shahnaza Hamidullah [1], Barman Mirakbari [1], Isha Sharma [1], Daniel Palmer [1], Lisa Saksida [1], Timothy Bussey [1]**	[1] University of Western Ontario
Sat May 24	P3-F-169 - Chronic stress-induced alterations to the activation of new neurons during negative cognitive bias	**Amanda Namchuk [1], Yagoda Oleksak [2], Romina Garcia De Leon [3], Tallinn Splinter [2], Travis Hodges [4], Liisa Galea [5]**	[1] Centre for Addiction & Mental Health, [2] University of Toronto, [3] University of Toronto, CAMH, [4] Mt. Holyoke College, [5] Centre for Addiction and Mental Health, University of Toronto
Sat May 24	P3-F-170 - Sexually dimorphic neural activation and ultrasonic vocalizations in pair bonded prairie voles	**Dami Solaja [1], Rodrigo Muñoz-Casteñada [2], Pavel Osten [2], Steven M. Phelps [3], Morgan L. Gustison [4]**	[1] Western University, [2] Cold Spring Harbor Laboratory, [3] Institute for Neuroscience; The University of Texas at Austin, [4] The University of Texas at Austin
Sat May 24	P3-F-171 - Cerebellar neurodynamics shaped by the habenula during motor planning	**Qian Lin [1]**	[1] University of Toronto
Sat May 24	P3-F-172 - Dissecting spatial and non-spatial memory encoding and retrieval in the lateral entorhinal cortex	**Yangzi Chen [1], Zihe Chen [1], Mansour Azimzadeh [1], Jacqueline Zhao [1], Jingran Liu [1], Kaori Takehara-Nishiuchi [1]**	[1] University of Toronto
Sat May 24	P3-F-173 - Social isolation impairs learning by limiting the capacity for synaptic plasticity	**Anna Phan [1], Gurlaz Kaur [1]**	[1] University of Alberta
Sat May 24	P3-F-174 - Lysergic acid diethylamide modulates hippocampal and cortical local field potential rhythms in male mice	**Noam Silverman [1], David Shizgal [1], Delphine Ji [2], Evan Lewis [2], Peter Carlen [1]**	[1] Krembil Brain Institute, University Health Network, [2] University of Toronto
Sat May 24	P3-F-175 - Dopamine overdrive and endocannabinoid tone: Dissecting sex-dependent mechanisms in fear adaptation	**Stefan Vislavski [1], Catharine Mielnik [1], Ali Salahpour [1], Ruth Ross [1]**	[1] University of Toronto
Sat May 24	P3-F-176 - Screening for sociability genes using tools from Drosophila neurogenetics	**Jack Rosenbaum [1], Katrina Choe [1], Ian Dworkin [1], Reuven Dukas [1]**	[1] McMaster University
Sat May 24	P3-F-177 - Abnormal awake replay events during planning disrupt spatial episodic-like memory	**Jean-Bastien Bott [1], Lorene Penazzi [1], Sylvain Williams [2]**	[1] Douglas Mental Health University Institute, [2] McGill University
Sat May 24	P3-F-178 - Pulvinar electric microstimulation enhances target	**Rober Boshra [1], Sabine Kastner [1]**	[1] Princeton University

	detection and reshapes thalamo-cortical coupling during attention		
Sat May 24	P3-F-179 - Neural mechanisms for multi-race face ensemble perception	**Zaynab Azeem** [1], **Moaz Shoura** [2], **Athena He** [1], **Jonathan Cant** [1], **Adrian Nestor** [1]	[1] University of Toronto, Scarborough, [2] University of Toronto
Sat May 24	P3-F-180 - Chronic stress affects regional grey matter volume and cerebral blood flow in older adults with HIV	**Vinaya Hari** [1], **Dhanishta Ambwani** [1], **Richard Hoge** [1], **Marie-Josée Brouillette** [1], **Nancy Mayo** [1], **Lesley Fellows** [1]	[1] McGill University
Sat May 24	P3-F-181 - Laminar architecture of error responses in medial frontal cortex	**Pranavan Thirunavukkarasu** [1], **Steven Errington** [2], **Amirsaman Sajad** [3], **Benjamin Corrigan** [1], **Jeffrey Schall** [1]	[1] York University, [2] Newcastle University, [3] Vanderbilt University
Sat May 24	P3-F-182 - Repeated within-session intra- and extra-dimensional learning in marmosets	**Marium Alvi** [1], **Karmen Rai** [1], **Ryley Nathaniel** [1], **Liya Ma** [1]	[1] York University
Sat May 24	P3-F-183 - Genetic and behavioural implications of Cell Adhesion Molecule 2 (Cadm2) knockout on reward sensitivity in mice	**Kendra Loedige** [1]	[1] Western University
Sat May 24	P3-F-184 - Longitudinal assessment of behavioural variability, repeatability, and anxiety responses in adult zebrafish (Danio rerio)	**Andréa Johnson** [1], **Peter Hurd** [1], **Trevor Hamilton** [2], **Kimberley Mathot** [1]	[1] University of Alberta, [2] MacEwan University
Sat May 24	P3-F-185 - EEG-based decoding of face imagery	**Shaofeng Liu** [1], **Eric Nemrodov** [2], **Kinkini Monaragala** [3], **Ilya Nudnou** [4], **Dan Nemrodov** [5], **Adrian Nestor** [3]	[1] University of Toronto, [2] University of Waterloo, [3] University of Toronto, Scarborough, [4] North Dakota State University, [5] Dandelion Science
Sat May 24	P3-F-186 - MEG resting state functional connectivity predicts metacognition in self-control	**Benjamin Lévesque Kinder** [1], **James (Dong) Sung** [1], **Aaron Schurger** [2], **Uri Maoz** [2], **Mathieu Landry** [3]	[1] Montréal Neurological Institute, [2] Chapman University, [3] Université du Québec à Trois-Rivières
Sat May 24	P3-F-187 - The effect of apolipoprotein E4 on cognitive impairment in Parkinson's disease: A structural MRI study using the PPMI cohort	**Angenelle Eve Rosal** [1], **Edgardo Torres-Carmona** [2], **Sarah Martin** [2], **Isabelle Boileau** [2], **Ariel Graff-Guerrero** [2], **Antonio Strafella** [3]	[1] Centre for Addiction & Mental Health, [2] Brain Health Imaging Centre, Centre for Addiction and Mental Health, [3] Krembil Brain Institute, University Health Network
Sat May 24	P3-F-188 - Investigating GABA-A receptor mechanisms in the antidepressant action of nitrous oxide	**Connor Brenna** [1], **Dian-Shi Wang** [1], **MeiFeng Yu** [1], **Lilia Kaustov** [2], **Beverley Orser** [1]	[1] University of Toronto, [2] University of Toronto, Sunnybrook Health Sciences Centre
Sat May 24	P3-F-189 - Medial frontal neuronal activities during repeated rule switches in rats	**Ryley Nathaniel** [1], **Yiping Zhang** [2], **Liya Ma** [1]	[1] York University, [2] Radboud University
Sat May 24	P3-F-190 - The dual role of corticotropin-releasing hormone in the prefrontal cortex in stress-	**Xin Zhao** [1], **Ahmed Hashad** [2], **Timothy Bussey** [2], **Lisa Saksida** [2], **Wataru Inoue** [2]	[1] Western University, [2] University of Western Ontario

	induced working memory impairment and active coping behaviour		
Sat May 24	P3-F-191 - Retrosplenial Cortex encodes peer direction and coordinates social approach behavior in mice	**Donovan Ashby** [1], **Kylie Meir** [2], **Alexander McGirr** [1]	[1] University of Calgary, [2] Hotchkiss Brain Institute
Sat May 24	P3-F-192 - Decoding of neuronal activity patterns in the Lateral Amygdala during fear memory formation in mice	**Alessandro Luchetti** [1], **Bozhi Wu** [1], **Annelies Hoorn** [1], **Alexander Jacob** [2], **Andrew Mocle** [3], **Sofiya Zbaranska** [4], **Mahe Chen** [3], **Antonietta Decristofaro** [1], **Paul Frankland** [2], **Sheena Josselyn** [2]	[1] Sick Kids Hospital, [2] The Hospital for Sick Children, [3] University of Toronto, [4] University of Toronto; The Hospital for Sick Children
Sat May 24	P3-F-193 - Behavioural and neural dynamics of category learning across the menstrual cycle	**Mateja Perovic** [1], **Michael Mack** [1]	[1] University of Toronto
Sat May 24	P3-F-194 - Impact of attention on visual short-term memory performance during experimental pain	**Phivos Phylactou** [1], **Thu Pham** [2], **Madison Henderson** [2], **Siobhan Schabrun** [1], **David Seminowicz** [2]	[1] University Of Western Ontario, [2] University of Western Ontario
Sat May 24	P3-F-195 - Modulation of learning by post-training heroin: A novel investigation in the Barnes maze	**Brooke Ginson** [1], **Graden Grandison** [1], **Francesco Leri** [1]	[1] University of Guelph
Sat May 24	P3-F-196 - The role of the dorsomedial striatum in regulating flexible decision making	**Niharika Dighe** [1]	[1] McGill University
Sat May 24	P3-F-197 - Temporal dynamics of neuronal excitability in the lateral amygdala mediates allocation to an engram supporting conditioned fear memory	**Annelies Hoorn** [1], **Andrew Mocle** [2], **Alessandro Luchetti** [1], **Alexander Jacob** [3], **Sungmo Park** [3], **Bozhi Wu** [1], **Sofiya Zbaranska** [4], **Asim Rashid** [3], **Paul Frankland** [3], **Sheena Josselyn** [3]	[1] Sick Kids Hospital, [2] University of Toronto, [3] The Hospital for Sick Children, [4] University of Toronto; The Hospital for Sick Children
Sat May 24	P3-F-198 - Response conflict neurons: Re-evaluation in medial frontal cortex of non-human primates	**Benjamin Corrigan** [1], **Steven Errington** [2], **Amirsaman Sajad** [3], **Jeffrey Schall** [1]	[1] York University, [2] Newcastle University, [3] Vanderbilt University
Sat May 24	P3-F-199 - Development of a novel model to examine state-dependent responses to a dynamic threat: influence of sex and role of the basolateral amygdala	**Andrei Nastase** [1], **Cayden Murray** [1], **Robert Aukema** [1], **Wilten Nicola** [1], **Matthew Hill** [2]	[1] University of Calgary, [2] Hotchkiss Brain Institute
Sat May 24	P3-F-200 - Chronic Gestational Stress increases maternal anxiety-like behaviours in the presence of offspring without affecting pup-	**Julia Schneider Krimberg** [1], **Quintin Whitman** [1], **Patrick McGowan** [2]	[1] University of Toronto, [2] University of Toronto, Scarborough

	oriented behaviours in an aversive environment		
Sat May 24	P3-F-201 - Evaluating proxemic functions of the rat parietal lobe	**Mckenna Lowrie** [1], **Angela Le** [1], **Rhiannon Izatt** [1], **Nathan Insel** [1]	[1] Wilfrid Laurier University
Sat May 24	P3-F-202 - Structured learning drives progressively multiplexed representations in the hippocampus	**Zeeshan Haqqee** [1], **Samantha La Rosa** [1], **Sylvain Williams** [1], **Mark Brandon** [1]	[1] McGill University
Sat May 24	P3-F-203 - Investigating the effects of acute thc exposure on motivation and THC exposure and food deprivation on incentive value and reward salience	**Savannah Lightfoot** [1]	[1] University of Calgary
Sat May 24	P3-F-204 - Sex differences in depression-like behaviors: Insights from chronic stress models in mice	**Weverton Castro Coelho Silva** [1], **João Willian Teixiera De Almeida** [2], **Norberto Cysne Coimbra** [3]	[1] University of São Paulo, [2] Behavioural Neurosciences Institute at University of São Paulo, [3] Unviversity of São Paulo
Sat May 24	P3-F-205 - Cue-evoked representations of specific outcomes in the gustatory portion of the insular cortex	**Matthew Gardner** [1]	[1] Concordia University
Sat May 24	P3-F-206 - Assessing the long-term effects of microbial intervention on inflammation and clinical response in major depressive disorder: An exploratory pilot study	**Maria Farid** [1], **Roumen Milev** [1], **Cassandra Sgarbossa** [1]	[1] Queen's University
Sat May 24	P3-G-207 - Focused ultrasound enhances targeted gene delivery of intravenous AAV to the brain	**Malik White** [1], **Rikke Kofoed** [2], **Nathalie Vacaresse** [2], **Chinaza Dibia** [1], **Luis Fernando Rubio Atonal** [2], **Sheng-Kai Wu** [2], **Brandy Laurette** [2], **Marie-Ève Paquet** [3], **Kullervo Hynynen** [2], **Isabelle Aubert** [2]	[1] University of Toronto, [2] Sunnybrook Research Institute, [3] Université Laval
Sat May 24	P3-G-208 - Seizure onset zone localization guided by neural network explainability tools for intracranial EEG data	**Richard Zhang** [1], **Milad Lankarany** [2]	[1] McMaster University, [2] Krembil Brain Institute, University Health Network
Sat May 24	P3-G-209 - Chatting with data: Foundational framework leveraging LLMS for analyzing animal behavior	**Navid Ghassemi** [1], **Ali Goldani** [2], **Majid Mohajerani** [1]	[1] McGill University, [2] University of Lethbridge
Sat May 24	P3-G-210 - Analysis of behavioral data from rodent stress paradigms via continuous-time Markov models	**Cayden Murray** [1]	[1] University of Calgary
Sat May 24	P3-G-211 - Evaluating the impact of dual-task EMG biofeedback on dynamic balance and gait speed in Multiple Sclerosis	**Stephen Toepp** [1], **Aimee Nelson** [1], **Michelle Ploughman** [2], **Mary Ann Ingrid Sader** [1], **Jinhui Ma** [1], **Jocelyn Harris** [1], **Suresh Menon** [1], **Martin Von Mohrenschild** [1], **Michael Carter** [1], **Malaikah Ahmad** [1], **Ava Bobinski** [1]	[1] McMaster University, [2] Memorial University of Newfoundland

Sat May 24	P3-G-212 - The development of fully automated transitive inference task for mice	**Silvia Margarian** [1], **Yihan Chen** [1], **Jingmin Zhang** [1], **Franco Miguel** [1], **Vic Shao-Chih Chiang** [2], **Kaori Takehara-Nishiuchi** [1]	[1] University of Toronto, [2] University of Massachusetts