

POSTER TITLES & PRESENTERS

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Poster session 1

POSTER #	ABSTRACT TITLE	PRESENTER
P1-A-1	A clinical trial to evaluate the feasibility, safety, and tolerability of fecal microbiota transplantation (FMT) in adolescents with attention deficit hyperactivity disorder (ADHD)	Cleo Hendrickson
P1-A-2	A hyperexcitable ensemble in CA2 deep layer encodes social recognition memory during early development	Xiaoxuan Han
P1-A-3	A Live ER-Stress-Enabled System to Study Developmental Dysregulation in Dual-Isoform CRB1-Deficient Retinal Organoids	Ali Zahedi Amiri
P1-A-4	Studying the impact of maternal stress on fetal brain development during pregnancy	Kodee Bao
P1-A-5	High frequency oscillation morphology changes in healthy children throughout development	Tatsuya Hansen
P1-A-6	Advancing Neural Developmental Research Through Stem Cell-Derived Systems	Afrida Rahman-Enyart
P1-A-7	Adverse Childhood Experiences Alter Adolescent Social Behaviour and Neuroplasticity in a Mouse Model of Abusive Head Trauma and Neglect	Sydney Harris
P1-A-8	Age- and Formulation-Dependent Effects of Combined Oral Contraceptive Exposure on Depression- and Anxiety-Like Behavior in CD-1 Mice	Sarah Kheloui
P1-A-9	Altered Cerebellar Serotonin Dynamics Underlie Anxiety and Spatial Memory Deficits in Engrailed-2 Knockout Mice	Hoda Ranjbar
P1-A-10	Astroglial VEGF regulates postnatal cerebrovascular development in mice	Moises Freitas-Andrade
P1-A-11	Brain Metabolite Profiles in Youth: Associations with Mental Health, Behavior, and Development Across Stress-Sensitive Regions	Marie-Ange Barthel
P1-A-12	Characterizing cell-type-specific contributions of a high-penetrance gene for autism spectrum disorder: Implications for brain and behavioral development	Indra Bishnoi
P1-A-13	Characterizing the Role of ShcD in Adult Neurogenesis and Neurobehavioral Function	Hyeyun Yang
P1-A-14	Decoding Temporal RNA Regulation in Brain Development	Yu-Yun Gao

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P1-A-15	Exposure to early-life adversity heightens rats' stress sensitivity and impacts oxytocin expression in the paraventricular nucleus of the hypothalamus in a stress-sensitization model.	Megan Babcock
P1-A-16	Differential expression of neurotransmitter synthesis genes in aminergic neurons is associated with social roles in ants	Carlos Zavaleta Zamora
P1-A-17	Early-life adversity during infantile amnesia alters anxiety-like behaviour in mice	Neilan Tan
P1-A-18	Early-Stage Disruption of Network Memory Capacity and Spatiotemporal Sequences in SHANK2 and MECP2 Mutant Human iPSC-Derived Neural Networks	Marjan Mahmoudi
P1-A-19	Effect of Prenatal, Gestational, and Postnatal Vitamin D Deficiency on mTOR Expression and Physical and Behavioural Development in a Wistar Rat Model	Georgia Heilman
P1-A-20	Studying the impact of maternal sleep disruptions on neurodevelopment and offspring behaviour	Krystyna Macrae
P1-A-21	Enduring Sex-Dependent Effects of Pubertal Chronic Unpredictable Stress on Anxiety-Like Behaviour and Neuroinflammation, and the Modulatory Role of Probiotics in CD-1 Mice	Michaela Dworsky-Fried
P1-A-22	Evaluating Tylenol vs maternal illness during pregnancy for autism risk; a registered report	Shrabontee Deepanwita
P1-A-23	Examining the Effects of a Double-Hit Model of Early-Life Stress on the Behavioural and Physical Development of Wistar Rat Pups	Yolanda Plaza
P1-A-24	Exploring PTEN-mediated γ -clustered protocadherin trafficking	Pristine Rey Garay
P1-A-25	Exploring the impact of maternal sleep disruption on fetal neurodevelopment	Jolie Wanlin Wu
P1-B-26	High-throughput mapping reveals distinct excitatory wiring rules in V1 and M1	Shawniya Alageswaran
P1-B-27	"Hybrid" dendrimer modulates IL-33 interaction at RAGE in human microglia	Issan Zhang
P1-B-28	A critical window for axonal function during myelination	Bruna De Souza
P1-B-29	Activation of the OVLT enhances astrocytic calcium signaling in the supraoptic nucleus	Karoline Martins Dos Santos
P1-B-30	Acute effects of Omega-3 polyunsaturated fatty acids on Kv1.2 channels and potential utility to KCNA2-related neurological diseases	Tian Kong
P1-B-31	Age-Induced Structural and Functional Impairments in Parvalbumin Interneurons.	Kabirat Adigun
P1-B-32	All-Optical Mapping of GABA Driving Force Reveals Cell-Type-Specific BDNF Sensitivity in the Hippocampus	Ariel Kraitzick
P1-B-33	Antihistamines Alter Sleep-Like Brain States Under Urethane Anesthesia	Abigail Riesen

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P1-B-34	Astrocyte Contributions to Sensory Circuit Development and Stability	Justin Kim
P1-B-35	Astrocyte IP3R2 mediates “wake-up” blood flow increases in neocortex	Fangying Wang
P1-B-36	Astrocyte Nanoarchitecture and Organelle Complexity Across Brain Regions and Species Revealed by Deep Learning Segmentation with Curvature Consistency	Albert Fok
P1-B-37	Astrocytes Gate Layer-5 Pyramidal Cell Timing-Dependent LTD in Visual Cortex	Airi Watanabe
P1-B-38	Astrocytes in Fish: An Underexplored Glial Population with Implications for Brain Plasticity and Regeneration	Mitra Tabatabaee
P1-B-39	ATGL-Mediated Lipid Droplet Breakdown in Microglia Reduces Neuroinflammation and Regulates Glucose Homeostasis	Frederick Boisjoly
P1-B-40	Autism-associated CHD8 controls reactive gliosis and neuroinflammation via remodeling chromatin in astrocytes.	Platon Megagiannis
P1-B-41	BDNF-induced enhancement of excitatory synaptic transmission in layer III of the rat entorhinal cortex.	Kiera Tordon
P1-B-42	CASK is presynaptic in rod photoreceptors	Faiyaz Abid
P1-B-43	CD51 expression delineates functionally distinct astrocyte subpopulations in neural circuits	Michael Williamson
P1-B-44	Characterizing Differential Purinergic Trafficking in Sympathetic Nerves	Joshua Ham
P1-B-45	Frequency of firing modulates synaptic facilitation in electrically coupled neuroendocrine cells	Hayley Albert
P1-B-46	Characterizing the interaction between ORL-1 and Cav1.2	Aiden Shaver
P1-B-47	Cholinergic regulation of synaptic inputs to the parasubiculum	Emily Kacur
P1-B-48	Cilia beating of ependymal cells regulates adult neural stem cell quiescence via mechanical forces mediated by PKD1/2-TRPM3	Raquel Rodriguez Aller
P1-B-49	Cocaine-induced disruption of endosomal recycling: a novel mechanism in psychostimulant addiction	Sara-Maude Bélanger
P1-B-50	Cofilin Inactivation Impacts Electroencephalographic Activity during Sleep/Wake States in Mice	Scanny Chancelle Nzie
P1-B-51	Comparative Evaluation of the Performance of Neuron Maturation Media in Generating Functional hPSC-Derived Forebrain Neurons	James Vinnai
P1-B-52	Contextual gating of circuit-specific stress responses by astrocytes	Marie-Josette De Medeiros
P1-B-53	Coordinated Epigenetic Regulation Supports Second-Order Threat Learning	Tian Qin
P1-B-54	Coordination of Post-Transcriptional Regulation Shapes AMPA Receptor Function During CNS Neurodevelopment	Xin-Tong Wang
P1-B-55	Co-transmitter interactions shape short term plasticity in the medial habenula-interpeduncular nucleus circuit	Claire Richter Gorey

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P1-B-57	Delineating the regulation of cerebellar Purkinje cell excitability and synaptic inputs by the gamma protocadherins	James Li
P1-B-58	Dendritic Nanostructures Suppress Inflammation in a Model of Ischemic Stroke	Roberto Charles
P1-B-59	DEVELOPING AN ANTIBODY PANEL FOR CELL SURFACE RECEPTORS AT THE SYNAPTIC CLEFT	Travis Riedel
P1-B-60	Disrupted Microglial–TGF β 1 Signaling as a potential Mechanistic Basis for Cerebellar Underdevelopment	Ariane Delisle
P1-B-61	Distinct subtypes of astrocytes selectively regulate specific inhibitory synapses	Darren Clarke
P1-B-62	Diurnal molecular characterization of aged WT and Per1 KO rat hippocampus	Shinwon Kang
P1-B-63	DNA Methylation in Astrocyte Maturation	Naama Brezner
P1-B-64	The expression of core clock gene Bmal1 is minimal or absent in human and mouse cerebral microglial cells	Reza Rahimian
P1-B-65	Early functional immaturity of the reinnervated neuromuscular junction	Simon Alvado
P1-B-66	Early seizure drives hippocampal circuit rewiring through target-specific disinhibition	Ting Ting Wang
P1-B-67	Effects of blocking endocannabinoid degradation on spreading depolarization	Adam Institoris
P1-B-68	Effects of Physical Activity on Hippocampal Cells in an Animal Model of Alzheimer's Disease	Jessica Avila Lopez
P1-B-69	Elucidating roles for the postsynaptic GABAergic synapse organizer IgSF21 in synaptic plasticity in mouse hippocampus	Jie Jiang
P1-B-70	Elucidating the impact of interneuron subtypes on neurovascular coupling during sensory processing	Laurianne Zana
P1-B-71	Estradiol Rapidly Reduces Synaptic Inhibition in Layer V of the Prelimbic Cortex	Nima Rahaei
P1-B-72	Examining Fragile X Syndrome across the lifespan: a focus on purinergic signaling.	Mavis Chinn
P1-B-73	Examining the Impact of Early Life Adversity on Cerebellar Perineuronal Nets in Adult Mice and Human	Refilwe Mpai
P1-B-74	Examining the molecular mechanism through which the cell-surface receptor Neogenin modulates inhibitory synaptic function	Lina Champain
P1-B-75	Exploring the physiological function of GPR139 in dorsal root ganglia	Mengyi Xu
P1-B-76	Feedforward inhibition of dorsal horn inhibitory neurons that gate mechanical allodynia after nerve injury	Haoyi Qiu
P1-B-77	Targeting TRPM2 as a novel therapeutic intervention for Alzheimer's Disease	Parisa Tabeshmehr
P1-B-78	Molecular characterization of a L-type calcium channel from molluscan neuroendocrine cells	Faith Bawden

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P1-C-79	5kEEG: Probing the Diversity of Brain Dynamics in Genetic and Neurodevelopmental Disorders	Adrien Dubois
P1-C-80	A Novel Brain-Penetrant Apelin Receptor Probe for Targeted Glioblastoma Radiotherapy	Émile Breault
P1-C-81	A novel Cannabinoid Receptor 1 (CB1) PAM-antagonist dampens amphetamine-induced dopamine levels; evidence of CB1-mediated indirect modulation of high DA states.	Catharine Mielnik
P1-C-82	A Role of Neurodevelopmental Disorder-associated Gene Arid1b in Purkinje Cell Development and Cerebellar Function in Mice	Xinzhu Tan
P1-C-83	A transcriptional timeline of Alzheimer's disease related damage in neurons	Ryan Ripsman
P1-C-84	A unifying neuropathological spectrum underlies medial temporal lobe epilepsy	Larissa Kraus
P1-C-85	Activating Systemic Inflammation with LPS Drives Microglia-Mediated Degradation of Perineuronal Nets after Cervical Spinal Cord Injury in Female Lewis Rats	Jaison Cucarian
P1-C-86	Acute intermittent hypoxia improves blood-brain and blood-spinal cord barrier integrity in the experimental autoimmune encephalomyelitis model of multiple sclerosis	Nataliya Tokarska
P1-C-87	Acute Intermittent Hypoxia Mobilizes trkA NGF Receptors to the Plasma Membrane of Sensory Neurons	Maya Wilson
P1-C-88	Adenosine restoration improves pericyte-regulated retinal blood flow in glaucoma	Camila Figueiredo
P1-C-89	Age- and idiopathic Parkinson disease-associated mitochondrial impairment in induced neurons	Emilie Legault
P1-C-91	Alterations in motor cortical circuit recruitment and dorsal striatal glutamate signaling during a motor task in a mouse model of Huntington's disease	Daniel Ramandi
P1-C-92	Altered BDNF and TrkB levels in cerebellar Purkinje cells may contribute to ataxia in a Christianson syndrome mouse model	Julia Tourbina-Kolomiets
P1-C-93	Applying Machine Learning with Neuroimaging Biomarkers to Detect Parkinson's Disease and Cognitive Impairment	Anthaea-Grace Patricia Dennis
P1-C-94	ARB2A-loss of function as a putative cause of Amyotrophic lateral sclerosis (ALS) in mice	Narjiss Messy
P1-C-95	Assessing the Neuroprotective Effects of Dutasteride in an α -Synucleinopathy Mouse Model of Parkinson's Disease	Marie Rieux
P1-C-96	Astrocytic adaptations foster stress resilience by regulating BBB function	Luisa Bandeira Binder
P1-C-97	Asymmetric Parietal Cortical Atrophy in a Patient with RAB39B-Associated Parkinsonism: A Novel Truncating Variant	Emna Benmansour
P1-C-98	Autologous T cells form significant ICAM-1-mediated contacts with primary CNS myeloid cells in neuroinflammation	Jennifer Auvergnon

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P1-C-99	Axonal Propagation Failure and Axon Initial Segment Disorganization in the Purkinje cells of a Mouse Model of ARSACS	Amy Smith-Dijak
P1-C-100	Baseline Microstructural Integrity of Nigrostriatal and Mesolimbic Pathways Predicts Freezing of Gait Conversion in Parkinson's Disease	Mojtaba Sharafkhah
P1-C-101	Behavioral and Multi-Omic Analysis of Neurodevelopmental Disorder-Linked Neurexin 2 α Knockout Mice	Manni Wang
P1-C-102	Beta-Parvin and Its Role in Vascular Remodeling and Blood Flow Regulation Following Ischemic Stroke	Tanaka Maravanyika
P1-C-103	Brain-wide activity-dependent hemodynamic changes accompanying persistent cortical tactile sensory adaptation and its impairment in a mouse model of Rett syndrome	University of Victoria
P1-C-104	Brain-Wide c-Fos Signatures Underlying Individual Differences in Chronic Pain	Damien Boorman
P1-C-105	BTK inhibition prevents microglia-mediated demyelination induced by multiple sclerosis patient antibodies	Lindsay Osso
P1-C-106	Calcium Permeability of NMDARs in GRIN1-related Neurodevelopmental Disorders	Liam Clancy
P1-C-107	Cannabidiol reduces the accumulation of amyloid beta plaques via cannabinoid receptor 2 and peroxisome proliferator activated receptor γ	Sarah Ng
P1-C-108	CB1 Receptor Modulation Alters Dentate Gyrus Network Activity in Animal Model of Temporal Lobe Epilepsy	Alina Trofimova
P1-C-109	Cerebellar modulation of anxiety linked behaviours in neurotypical and autism spectrum mice	Jason Arsenault
P1-C-110	Changes in Alzheimer's disease-associated biomarkers in post-COVID-19 patients with cognitive deficits	Fernanda G. Q. Barros-Aragao
P1-C-111	Characterizing chronic hippocampal injections of recombinant 2N4R human tau in a wild-type mouse model	Daniel Lamontagne-Kam
P1-C-112	Characterizing novel C. elegans models of Huntington's disease expressing the caspase-6 cleavage fragment of mutant huntingtin	Jiaxi Guan
P1-C-113	Characterizing potassium chloride co-transporter 2 (KCC2) protein interactions in Huntington's Disease	Lilliana Pavicic
P1-C-114	CLCN3 Regulates Lysosomal Homeostasis and α -Synuclein Accumulation in Parkinson's Disease	Donovan Worrall
P1-C-115	CNS Myeloid Cell Activation in Chronic MS and EAE Is Sustained by ICAM-1 Mediated Interactions with T Cells	Haritha Desu
P1-C-116	Combined effects of activity-based therapy and transcutaneous spinal cord stimulation on sub-acute spinal cord injury individuals for upper limb rehabilitation: a pilot study	Sujata Sinha

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P1-C-117	Comparative Analysis of Amyloid Beta Deposition in Two Different Alzheimer's Disease Mouse Models Using Whole-Brain Two-Photon Microscopy	Mojtaba Nazari
P1-C-118	Connectome-Wide Mega-Analysis Identifies a Reproducible Functional Network Signature of Temporal Lobe Epilepsy	Ke Xie
P1-C-119	Cortical Morphological Correlates of Apolipoprotein E4 in Parkinson's Disease: Structural MRI Evidence With Exploratory CSF Analyses From the PPMI Cohort	Angenelle Eve Rosal
P1-C-120	Cortical rescue of neuronal Neuroligin-2 mitigates sleep and behavioral impairments in adult knockout mice	Tanya Leduc
P1-C-121	Could postpartum behavioral disturbances resulting from postnatal stress be related to inflammatory changes in the gut-brain axis?	Victoria Mordvinova
P1-C-122	CSF oligoclonal band frequency in a Cuban cohort of patients with multiple sclerosis. Comparison with Latin American countries and association with latitude	Marisol Peña Sanchez
P1-C-123	Curcumin-Mediated Modulation of Thermometabolic Dysregulation in Neonatal Hypoxic-Ischemic Brain Injury	Xianxuan Wang
P1-C-124	Defining the role of GBA in C. elegans models of Parkinson's disease	Maisha Maliha Promi
P1-C-125	Depressive-like Behaviour In A Humanized Knock-in Mouse Model Of APOE, Amyloid, And Tau Is Sex- & APOE Allele-specific	Cadence Opoka
P1-C-126	Determining whether PD-associated lysosomal genes influence lysosomal homeostasis and stress phenotypes	Isabella Pietrantonio
P1-C-127	Development of a novel anti-amyloid therapeutic: an orally administrable anti-abeta-oligomer compound	Hedi Zhou
P1-C-128	Developmental Alterations in A Mouse Model of Spinocerebellar Ataxia Type 6	Elyse Zadigue-Dube
P1-C-129	Developmental disruption of ventral hippocampal inhibitory neurons drives hippocampal-prefrontal network dysfunction and cognitive deficits in mice	Jennifer Robinson
P1-C-130	Discovery of novel hyperphosphorylation sites of neurofilaments in amyotrophic lateral sclerosis mice correlating with the efficacy of novel Borsantrazole (TM)	Nitesh Sanghai
P1-C-131	Disrupted Spatiotemporal Noradrenaline Dynamics in Motor Cortex Underlie Delayed Motor Learning in an ASD Mouse Model	Xuming Yin
P1-C-132	Drug repurposing screening for spinocerebellar ataxia treatment in a C. elegans model	Taylor Shirtliff-Hinds
P1-C-133	SeizureBiomeDB: A unified database of gut microbiome alterations in pediatric and adult epilepsy	Chunlong Mu
P1-C-134	Dysregulated dopaminergic signaling in the dorsal striatum: a novel approach to compulsivity in anorexia nervosa	Héloïse Hamelin
P1-C-135	Dysregulation of RNA metabolism contributes to neurodegeneration and synapse pathology in multiple sclerosis	Miranda Messmer

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P1-C-136	Early Fatigue Symptom Detection of MS in a String Pulling EAE Mouse Model	Jordan Caetana Dudley
P1-C-137	Early hypothalamic dysfunction in Alzheimer's disease: evidence for vascular and tanycyte involvement	Pablo Valderrama-Carmona
P1-C-138	Early structural neuroimaging and multiple sclerosis polygenic risk	Mavi Sorella
P1-C-139	Early synaptic degeneration and oxidative stress precede retinal ganglion cell loss in optineurin mutant mice	Barbara J Morquette
P1-C-140	Ectosomes carrying tau are released by Parkinson's disease neurons	Kennedi Chik
P1-C-141	Effects of a Lipid Metabolism-Targeting Treatment on Recovery Sleep Following Sleep Deprivation in the 3xTg Mouse Model of Alzheimer's Disease	Salma Attebaa
P1-C-142	Efficacy and Safety From a Phase 1/2 Open-label Trial of GTX-102, an Investigational Antisense Oligonucleotide for the Treatment of Patients with Angelman Syndrome	Kenneth Myers
P1-C-143	Reduced cerebrovascular reactivity in youth with congenital heart disease: links with cognition	Zacharie Potvin-Jutras
P1-C-144	Elucidating the Physiological Role of Amyloid Precursor Protein through multi-omics	Marina Ruelas Hernandez
P1-C-145	Neuronal Growth Regulator 1 as a potential target for gene expression modulation in human pluripotent stem cell models of Alzheimer's Disease	Pablo Leal Cardozo
P1-D-146	Steady-State Visual Evoked Potentials Reveal Visual Symmetry Processing in the Common Marmoset	Amirhossein Asadian
P1-D-147	A Drosophila model of Diabetic Neuropathy	Gwen Haslam
P1-D-148	Acoustic Transparency Enables Transcranial Functional Ultrasound Imaging in Nonhuman Primates Without Craniotomy	Hamidreza Ramezanzpour
P1-D-149	Action Intention Modulates Functional Connectivity: an fMRI Study	Gaelle Luabeya
P1-D-150	Age- and Sex-Dependent Modulation of Descending Pain Control : Effects of Physical Activity in Mice.	Hania Oukil
P1-D-151	Altered post-incision pain and subsequent disturbance of gut homeostasis in aging mice	Yu Guo
P1-D-152	An ascending pathway for the relay of warm and cool sensation	Xinying Zhang
P1-D-153	An ethogram-based approach reveals the widescale behavioral impact of vision loss and provides a sensitive benchmark for assessing vision restoration	Mingyu Wan
P1-D-154	Analgesic effects of 3,4-methylenedioxymethamphetamine in the acetic acid and formalin mouse pain assays	Alameen Alajeely
P1-D-155	Assessing Local and Global Stereopsis Using Tasks of Depth Detection and Discrimination	Tara Nichols
P1-D-156	ASSESSING THE IMPACT OF ELECTRODE PLACEMENT ON AUDITORY BRAINSTEM RESPONSE WAVEFORMS	Charlotte Kruger

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P1-D-157	At First Sight: Cortical Processing of Restored Vision Following an Extended Period of Vision Loss	Erica Cianfarano
P1-D-158	Auditory and vestibular neurotoxicity of agricultural chemicals: A global mapping of the current research	Alex Bégin
P1-D-159	Auditory Context Modulates Attentional Gating during Sensorimotor Performance	Jessica Vander Vaart
P1-D-160	Behaviour-Dependent Immediate Early Gene Activation in the Mouse Cerebellum	Megan Sholomiski
P1-D-161	Benchmarking human dorsal root ganglion organoids with cultured primary human tissue models	Andrew Mocle
P1-D-162	Central Integration of Proprioception in Controlling Homolateral Leg Movements	Mohammad Amin Dolatkhan
P1-D-163	Cerebellar Rhomboid-3 Modulates Motor Coordination Through Membrane Signaling Pathways in Aging	Yujia Li
P1-D-164	Coherence dynamics and neural reorganization during motor sequence learning and at rest	Jhelum Paul
P1-D-165	Combined cortical and peripheral stimulation alleviates locomotor deficits in a feline model of incomplete spinal cord injury	Ali Gharbienne
P1-D-166	Cortical Beta-Band Dynamics During Motor Control in Tourette Syndrome	Lyna Hanafi
P1-D-167	Cortical specificity matters: Targeted hindlimb cortical stimulation enhances locomotor recovery after spinal cord injury	Anne-Catherine Chouinard
P1-D-168	Cortical states modulation of cortical activity and connectivity in congenital blind mice.	Véronique Chouinard
P1-D-169	D2 receptor-expressing neurons in the gigantocellular reticular nucleus modulate locomotion and orienting movements in mice.	Jacynthlyn Sylvia Suresh
P1-D-170	Decreased phase-dependant modulation in corticospinal excitability during walking in human individuals with Spinal Cord Injury.	Heloise Bourgeois
P1-D-171	Developing Human Spinal Cord Methodology to Study Pain circuits	Lois Miraucourt
P1-D-172	Differential Cerebellar Modulation of PA- and AP-Sensitive Sensorimotor Circuits	Michael Perrier
P1-D-173	Differential roles of muscle and cutaneous afferents in motor recovery after spinal cord injury in adult mice	Reese Letawsky
P1-D-174	Dimensionality of neural manifolds during adaptive motor behaviors	Maria Pescaru
P1-D-175	Disruption of Glomerular Map Formation in the Accessory Olfactory System Impairs Chemosensory Processing and Social Behavior	Sydney Fearnley
P1-D-176	Distinguishing modality-specific and shared cognitive networks in a low-dimensional neural space	Hadi Choubdar Parvin
P1-D-177	Diverse Neuronal Responses to Visual Precision in Cat Cortical Area 21a: Unraveling the Complexity of Orientation Processing	Lamyae Ikan
P1-D-178	Do blind mice recover better from a stroke than healthy mice ?	Behiye Sanliturk

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P1-D-179	Dorsomedial higher visual cortex is a locus for visual attention in mice	Julia Forestell
P1-D-180	Dynamic Coupling Between the Action-Mode Network and Sensorimotor Cortex During Human Motor Learning	Maryam Ansari Esfeh
P1-D-181	Dynamic Intra-Hemispheric Premotor–Motor Functional Connectivity During Precision Grasp in Macaques	Soraya Rahimi
P1-D-182	Effect of norepinephrine release in movement refinement during directional reaching	Camille Balazuc
P1-D-183	Effects of early blindness on odor discrimination and cortical activity in mice	Vanessa Bordonaro
P1-D-184	Electrophysiological Biomarkers of Thermal Pain in the Insula Revealed by Stereo-electroencephalography	Marc-Antoine Gobeil
P1-D-185	Electrophysiological differences in auditory processing in the inferior colliculus of Cntnap2 knockout rats	Cassandra Lemarquand
P1-D-186	Elucidating mechanisms of cell-type–specific noradrenergic modulation in motor cortex circuits of 16p11.2 deletion mice to rescue delayed motor learning	Nathaniel Jones
P1-D-187	Estrous cycle modulates cortical auditory responses across species	Maria Isabel Carreno Munoz
P1-E-188	Role of basolateral amygdala neurons activated by sleep deprivation on risk- and mood-related behaviours	Nikita Koziel Ly
P1-E-189	Agouti integrates environmental cues to regulate paternal behaviour	Forrest Rogers
P1-E-190	Brain-wide Klb expression in a novel Klb-cre mouse line	Bianca Bono
P1-E-191	Cannabidiol regulates EGFR and GPER levels in a Glioblastoma model in vitro	Diana Ramirez Martinez
P1-E-192	Developing behavioural paradigm to study state-dependent stress sensitivity in awake head-fixed mice.	Aashi Panchal
P1-E-193	Differential calbindin and calretinin expression in subfornical organ neurons of rats and mice	Begum Saka
P1-E-194	Effects of an Oxytocin Receptor Antagonist (OTRA) on Estrogens' Facilitative Effects on Social Recognition (SR) in the medial Prefrontal cortex (mPFC) of Female Mice	Milad Akbarzadehmoallemkolaei
P1-E-195	Effects of vaporized Δ 9-tetrahydrocannabinol exposure on the behavioral and neuroendocrine consequences of acute stress	Mijail Rojas-Carvajal
P1-F-196	ATP Administration Enhances Sensitivity to Outcome Devaluation in the Dorsomedial but not Dorsolateral Striatum in Rats	Madison Fedele
P1-F-197	A comparison of canonical and informed basis set modelling of the haemodynamic response during N-back cognitive testing	Kj Woudsma
P1-F-198	A Mechanical Analogy for the Observed Oscillations in Choice Behavior of a Population Facing a Time-Varying Reward	Nasim Nozarnejad
P1-F-199	A MRI Study of Metabolic and Cerebrovascular Health	Shilan Heshmati

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P1-F-200	Acute and delayed effects of psilocybin on prefrontal cortical neuronal activity	Serena Wu
P1-F-201	Acute psilocin alters aversive memory retention and extinction learning in <i>Drosophila melanogaster</i>	Maximiliano Elgueta Reyes
P1-F-202	Adolescent N-Acetylcysteine Intervention Attenuates Neurobehavioral Deficits Following Prenatal THC Exposure	Nicholas Hamati
P1-F-203	Age-Related Differences in Learning Rate Across Memory Tasks	Basem Abu Shamleh
P1-F-204	Aging Reduces Scale-Free Temporal Persistence of Resting BOLD Signals Independent of Cerebral Blood Flow: Evidence from 550 Adults in HCP-A	Shima Yaghoubian
P1-F-205	Altered Neuronal Lactate Dehydrogenase A Expression in Mice Results in Age-Dependent Changes to Spatial Memory and Region-Specific Changes to the Lipid Profile	Marc Courchesne
P1-F-206	An intrinsic evolving hippocampal scaffold guides the encoding of novel spatial memories	Javad Karimi Abadchi
P1-F-207	Anatomical and functional investigation of VGLUT3-positive projections from the median raphe nucleus to the lateral septum in anxiety modulation	Elsa Lalot
P1-F-208	Artificial Reactivation of a Cocaine-Associated Engram in the Dorsal Dentate Gyrus Attenuates Cocaine Prime-Induced Reinstatement of Drug-Seeking	Morgan Brody
P1-F-209	Assessing Probabilistic Reward Sensitivity in an Early-Life Stress Rodent Model	Tara Laverty
P1-F-210	Astrocytes integrate noradrenaline inputs to modulate fear memory specificity	Mathias Guayasamin Alfaro
P1-F-211	Basolateral Amygdala Astrocytes Encode Anxiety States	Ossama Ghenissa
P1-F-212	Behavioural Ratings of Appetitive Conditioning in Adolescent Anorexia Nervosa: Interim Analysis	Hayah Siddiqui
P1-F-213	CA1 time cell dynamics during interval timing in a mouse model of schizophrenia	Maya Viegas
P1-F-214	Can imaging biomarkers reliably predict persistent post-concussion symptoms following mild traumatic brain injury? A pilot study	Erin Ford
P1-F-215	Cannabinoid type 1 receptor (CB1R) blockade in adolescence alleviates the effects of adolescent social instability stress (SS) on social interaction and social reward motivation in female rats.	Amanda Leonetti
P1-F-216	Characterizing Ventral Hippocampal Neural Dynamics During Heroin and Cocaine Self-Administration and Drug-Seeking Using Fiber Photometry	Paul Jung
P1-F-217	Chronic Adolescent Stress Reprograms Stress-Responsive Connectivity and Socioemotional Behaviors throughout the Lifespan	Olivia O'Neill
P1-F-218	Chronic Modulation of Sdk1+ Prefrontal Neurons Alters Reward Learning Strategies	Peter Vitaro

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P1-F-219	CHRONIC VOLUNTARY CONSUMPTION OF CANNABINOIDS IN C57BL/6 MICE	Alayna Jones
P1-F-220	Circuit-specific noradrenergic dynamics are associated with stress susceptibility in a learned helplessness model	Maryia Bairachnaya
P1-F-221	Claustro-cortical communication is disrupted by increased kappa opioid signaling in chronic pain	Christian Faig
P1-F-222	Closing in on the quarry of a 72-year search: the cellular origins of MFB reward signals	Jacques Voisard
P1-F-223	Comparative evaluation of the degree of transparency of AI-based transcription tools.	Sarah Haloui
P1-F-224	Cortical switching dynamics shape delta activity under propofol anesthesia	Clara Pic Roca
P1-F-225	Vocal Development in a Social Context in Common Marmosets	Constance Dollet
P1-F-226	Cross-linguistic Comparison of Brain Response to Speech Predictability in English, Mandarin Chinese, and French Narratives	Yanan Liu
P1-F-227	Cross-Species Sensitivity to Reward Schedules: Ratio and Delay Variability in Reward Seeking	Madison Gal
P1-F-228	Deficits in Contextual Remapping Underlie the Tendency to Generalize Fear: Implications for Post-Traumatic Stress Disorder	Aasrita Tulluri
P1-F-229	Differential Activation of Lateral Septum Subregions During Social and Nonsocial Novelty Detection	Nastasia Mitrikeski
P1-F-230	Differential Limbic System Activation During Passive Processing of Emotional and Non-Emotional Music and Smells: An ALE Meta-Analysis	Federico Andreoni
P1-F-231	Discovering translational behavioral strategies of reward processing across species	Zahra Rostami
P1-F-232	Dissociable roles of DG and CA1 engram ensembles in context-specific rule retrieval in mice	Mohammed Sarikahya
P1-F-233	Distinct neural dynamics during encoding differentiate fast and slow episodic retrieval	Moh Ishraq
P1-F-234	Distinct roles of Vglut2+ and Vglut2- VTA dopamine neurons during social Interactions	Cameron Oram
P1-F-235	Dopamine D1 receptor activation is necessary for object memory destabilization in female mice.	Matthew Rumas
P1-F-236	Dopamine dynamics in nucleus accumbens core during the odour span task in rats	Aiden Glass
P1-F-237	Dopamine Pathways in Temporal Task Acquisition: Evidence from Chronic and Acute Disruptions	Sergey Grigorovich
P1-F-238	Dopaminergic Control of Predictive Memory in the Subiculum	Pola Tuduri
P1-F-239	Monkeys choose to make mistakes.	Meriam Zid
P1-F-240	Dynamic Regulation of Foraging Behavior by the Habenulo-Raphe Pathway	Amarpreet Dheer

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P1-F-241	Dynamics of catecholamine release in the pre-frontal cortex of adult mice during associative learning	Mariama Aboudou
P1-F-242	Early life adversity induces changes in palatable food-seeking behaviors and the mesolimbic system in a sex-dependent manner	Tamara Trowsse
P1-F-243	Effect of Exercise on Sleep Microarchitecture, network dynamic, connectivity and dendritic spine morphology in the case of sleep restriction: a translational approach	Francois Pointeau
P1-F-244	Emotion aware generative AI for simulating cognitive behavioral therapy dialogue and affective regulation	Christian Dominique
P1-F-245	Effects of Sustained Cannabis Abstinence on Depressive Symptoms: Preliminary Analyses	Lyne Baaj
P1-G-246	A direct comparison of EEG/EMG and EEG/Accelerometer approaches for mice sleep staging	Dawson Green
P1-G-247	3D Spatial Analysis of Purkinje Cell Distributions in the Macaque Cerebellum	Mathieu Johnson
P1-G-248	A brain–spine interface for state-dependent stabilization of blood pressure after spinal cord injury	Wenbin Yang
P1-G-249	A Canadian guidance framework for integrating social determinants of health in aging and Alzheimer's disease research	Stefanie Tremblay
P1-G-250	A Computational Pipeline for Identifiability and Parameter Recoverability in Cognitive Models	Aziz Ktari
P1-G-251	A neuronal waveform classification assay to characterize inhibitory and excitatory bursting characteristics in MEA data: Erinacine A as a model drug	Evan Spangenberg
P1-G-252	A Novel Non-Obese Mouse Model of Obstructive Sleep Apnea with Transient Inspiratory Flow Limitation	Natalia Zubieta - De Urioste
P1-G-253	A Systematic Comparison of MPRAGE and BRAVO T1-Weighted MRI Pulse Sequences	Mahmoud Elsayed
P1-G-254	Addgene Data Hub: a platform for sharing AAV and antibody experimental data	Ashley Waldron
P1-G-255	An Atlas of Parvalbumin Interneuron Diversity in Mouse Visual and Somatosensory Cortex	Maheshwar Panday
P1-G-256	An Open-Source Closed-Loop Behavioural Control System for the Raspberry Pi	Jamie Sanson
P1-G-257	An optogenetic and imaging approach to study noradrenergic modulation of neuro-vascular coupling	Francis Bernard
P1-G-258	Bio-imaging strategy to follow the infectious pathway of adeno-associated viruses in neurons	Laurence Paquet
P1-G-259	Brain dynamics associated with noxious stimulation under general anesthesia are characterized by changes in redundancy and synergy measured using EEG	Joaquim Streicher

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P1-G-260	Correction of the APP London (V717I) mutation using an optimized prime editing system	Sina Ramezani
P1-G-261	Cerebral Vein Segmentation in Quantitative Susceptibility Maps using Physics Constrained Deep Learning	Yousif Al-Khoury
P1-G-262	Characterization of Neuronal Subpopulation and Network Activity in the External Globus Pallidus	Gabriela Paskevicius
P1-G-263	Connectivity, Complexity, and Chaos in the Ageing Brain: Synthesis of the Literature	Zahra Khalilzad
P1-H-264	Augmented Reality for Teaching Neuronal Signaling in Undergraduate Psychology	Nina Di Pietro
P1-H-265	Characterizing prognostication practices after drug toxicity-related post-cardiac arrest brain injury	Harjeev Sudan
P1-H-266	Convergence: Transforming Knowledge Translation through Transdisciplinary Art-Science Collaboration to Foster Critical Thinking and Cognitive Connection with Brain Research.	Nour Chahine
P1-D-267	Large Glutamatergic Neurons in the Lateral Cerebellar Nuclei Are Essential for Motor Coordination and Cognitive Function in Mice	Azam Asemi Rad
P1-B-268	Astrocyte-specific eIF2 alpha-dependent mRNA translation regulation of hippocampal synaptic plasticity and memory in Alzheimer's disease	Vijendra Sharma

Poster session 2

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P2-A-269	Developmental axonal swellings formation depends on extracellular calcium signalling	Bruna De Souza
P2-A-270	Fate-restricted embryonic precursors define gray and white matter astrocyte specification in the spinal cord	Caterina Sister
P2-A-271	Fetal microglia show sex-specific neurodevelopmental responses to maternal stress during pregnancy	Alexandra Lawson
P2-A-272	Floor plate derived netrin-1 is an instructive long-range guidance cue for commissural axons in the embryonic spinal cord	Melissa Pestemalciyan
P2-A-273	Free fatty acid receptor GPR120 regulates dopamine neuronal development and social behavior	Shingo Nakajima
P2-A-274	From brain age deviations to developmental trajectories in adolescence	Anthony Gagnon
P2-A-275	Guidance cue integration by growth cones: spatial regulation of microRNAs	Alicia Piazza
P2-A-276	Gut–brain axis dysregulation produced by adolescent edible $\Delta 9$ tetrahydrocannabinol (THC) exposure	Marieka Devuono
P2-A-277	Transcriptomic and Protein Expression Analyses of Early Differentiating Neurons in the Developing Mouse Cerebellar Nuclei	Farshid Ghiyamihoor
P2-A-278	How do substantia nigra dopamine neurons grow such a complex axonal arbor? An in vitro exploration.	Raphaëlle Denis
P2-A-279	Identification of a novel mirror movement causing gene: A recurrent MCF2 variant which disrupts DCC binding and subcellular relocalization leads to congenital mirror movements	Dennis Drewnik
P2-A-280	Ikaros family members network drives neuronal diversification in the mouse developing retina	Pedro Franca
P2-A-281	In Vivo Measurement of Glutamate and GABA in the Pediatric Anterior Cingulate Cortex: Feasibility and Preliminary Findings	Marie-Ange Barthel
P2-A-282	Inflammation profiles induced by mechanical ventilation in the developing brain	Roqaya Imane
P2-A-283	Investigating Associations Between Maternal Prenatal Nutrition and Neurocognitive Development in Early Childhood	Stefanie Perrier
P2-A-284	Investigation of Endothelial Deficits in Models of SYNGAP1 Haploinsufficiency	Leya Aubert-Tandon
P2-A-285	It's all in the vessels: the neonatal brain vasculature provides a unique combination of molecular cues to neural stem cells that alters with age	Marissa Lithopoulos
P2-A-286	Longitudinal Study of Neurovascular and Cognitive Health in Aging Mice	Alexandre Cl��roux Cuillerier
P2-A-287	Metal co-exposure alters sensory and social behaviors in <i>C. elegans</i> with a loss-of-function mutation in neurexin.	Victor Anadu

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P2-A-288	Microglial/Macrophage Androgen Receptor Knockout Produces ADHD-Like Phenotype in Male Mice	Kerri Sparkes
P2-A-289	Mlp60a and Sallimus are required to restrict branching of developing dendritic arbors.	Alex Hanadel
P2-A-290	Modeling Early-life Adversity in Wistar Rats: Effects of Maternal Dietary Fiber During Lactation on Offspring Development	Fabi Funes
P2-A-291	Morphological evidence suggestive of a hierarchical mode of glial cell diversification and intrinsic developmental plasticity within the murine enteric nervous system	Marie Lefèvre
P2-A-292	Integration of human and mouse single-cell transcriptomes of the developing cerebellum nominates cells-of-origin for Group 3 and 4 medulloblastoma	Shraddha Pai
P2-B-293	Characterizing the effects of diazepam on tau hyperphosphorylation and spatial memory in a mouse model	Daniel Lamontagne-Kam
P2-B-294	Functional characterization of CG17698, a novel memory suppressor gene	Illia Pimenov
P2-B-295	GATOR1-dependent mTORC1 hyperactivity Drives the Development of Neuronal Communication	Maéline Muller
P2-B-296	GATOR1-dependent signaling in astrocyte metabolic reprogramming and neurotransmitter recycling: phenotypic insights and mTOR-targeting therapy	Imane Hadj-Aissa
P2-B-297	GDNF-induced neuroregeneration in Hirschsprung mice occurs through non-canonical signaling in diverse enteric neural progenitor subtypes	Alassane Gary
P2-B-298	Glial coverage of neuromuscular junction predicts motor performance in Humans	Danielle Arbour
P2-B-299	Glial-Specific Glutamate Transporters Required for Sleep Regulation in Drosophila.	Jishang Jiang
P2-B-300	GluA2-lacking AMPA receptor-Auxiliary complexes offer a diversity of polyamine block sensitivity	Xin-Tong Wang
P2-B-301	Glutamate-releasing immature inhibitory terminals in the auditory brainstem contain distinct excitatory and inhibitory synaptic vesicles	Andrei Alexe
P2-B-302	Heterochronic myeloid cell replacement reveals the local brain environment as a key driver of microglia aging	Claire Gizowski
P2-B-303	High-Throughput Optogenetic Mapping of Prefrontal Layer 2/3 Microcircuits	Elia Painchaud-Lakatos
P2-B-304	Hippocampal Place Cell Remapping During Spatial Reward Learning	Elizabeth Leggett
P2-B-305	Hormetic thermal stress confers benefit and promotes adaptive resilience in <i>C. elegans</i>	David Oyeniran
P2-B-306	Identifying GluN1 subunit N1-cassette residues controlling N1-cassette regulated function	Homa Farahani

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P2-B-307	Identifying the MHC1 interactome during typical synapse development and following immune stimulation	Scott Cameron
P2-B-308	Impact of MDGA2 Haploinsufficiency on Dendritic Spine Architecture in the Dentate Gyrus	Demetra Economopoulos
P2-B-309	Impact of the CA1-Specific Deletion of Sigma-1 Receptor on Neuronal Activity and Behavior	Mathieu Lapalme
P2-B-310	Inflammation during development alters axonal morphology and microglial engulfment activity in <i>D. rerio</i> .	Anna Kim
P2-B-311	Investigating a role for netrin-1/DCC signaling in excitatory homeostatic synaptic upscaling	Kira Feighan
P2-B-312	Dysfunctional somatodendritic AMPA receptor signaling in Fragile X Syndrome Cerebellum	Zhe Zhao
P2-B-313	Investigating the effect of behavioral context on time cell dynamics and formation.	Jacob Duda
P2-B-314	Investigating the effects of probiotics on corticospinal excitability	Malaikah Ahmad
P2-B-315	Investigating the role of adaptor protein ShcD in oligodendrocyte development and myelination	Alice Nielissen
P2-B-316	Investigation of Transcriptomic Changes in the Anterior Cingulate Cortex in a Mouse Model of Chronic Neuropathic Pain	Ana Leticia Simal Dourado
P2-B-317	Long-range amygdala-prefrontal engram projection supports remote fear retrieval	Ashutosh Patel
P2-B-318	Mapping CCK-Projections From The Edinger-Westphal (EW) And Their Function	Maryam Fazili
P2-B-319	Mechanisms of Laminar Organization of Hippocampal Excitatory Synapses	Mohammed Abrar Basha
P2-B-320	Mechanistic insight into mild traumatic brain injury induced circadian and sleep abnormalities in mice	Anzala Murtaz
P2-B-321	Mef2 transcription factors enable microglial support of brain vasculature functions	Lyanne Begin
P2-B-322	Microglial TNF signaling is required for behavioral and cognitive deficits in a rodent model of post-traumatic stress disorder	Houaria Adaïdi
P2-B-323	Microglial trophocytosis in activity-dependent axonal pruning in the visual system during development	William Nguyen
P2-B-324	Miglustat protects against demyelination of smaller diameter axons and promotes myelin formation	Jean-David Gothié
P2-B-325	Mitochondrial Calcium & Hydrogen Peroxide Interact to Control Nonselective Cation Channels in Aplysia Neuroendocrine Cells	Elijah Rajskey
P2-B-326	Modality-specific neurovascular coupling via layer-segregated arteriole networks	Antoine Malescot
P2-B-327	Modulation of interneuronal functioning and perineuronal nets by microglia in female ovariectomized mice	Antonia Landwehr

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P2-B-328	Neocortical Microcircuit Changes Associated with Fragile X Syndrome	Meghan Appleby
P2-B-329	NeuroD1-AAV9 Astrocyte-to-Neuron Reprogramming Improves Motor Function and Neuron-to-Glia Balance Following Ischemic Stroke in Non-Human Primates	Golnar Taheri
P2-B-330	Neurophysiological Properties of Subthalamic Nucleus Neurons expressing Corticotropin-Releasing Hormone	Anusha Kamesh
P2-B-331	Neuroplastic mechanisms underlying the antidepressant effects of psychedelics	Kathleen Ngo
P2-B-332	New tools to promote release of endogenous serotonin in the prefrontal cortex	Haushe Suganthan
P2-B-333	NMDA Receptor Signaling Is Not Monolithic: Location Determines Plasticity Function	Sabine Rannio
P2-B-334	Not only Neurons; Dopamine Receptor Signaling in Microglial Cells Drive Behaviour and Neuroinflammatory State	Ghazal Fakhfour
P2-B-335	Opioid-induced hyperalgesia develops in the periphery and in the absence of proinflammatory microglia	Julia Nickols
P2-B-336	Pannexin1 homolog regulates plasticity required for adaptive learning in larval zebrafish	Fatema Nakhuda
P2-B-337	Panx1 channel mediates TNF α -induced endothelial barrier permeability in human brain microvasculature	Stefany Órdenes
P2-B-338	Pharmacological rescue of GABAergic synapse strengthening in a mouse model of Fragile X Syndrome	Xinyuan (Cecilia) Chen
P2-B-339	Silent Synapse Recruitment Drives GABAergic Potentiation in the Cerebellar Stellate Cells.	Siqi Wang
P2-B-340	Phasic axonal dopamine release appears to involve mechanisms beyond synaptotagmin-1	Soraya Paquereau-- Gaboreau
P2-B-341	Physiological properties of VGLUT1 mediated glutamatergic neurotransmission in the Substantia Nigra	Adeeb Akhavan
P2-B-342	Pregnancy-induced microglia activation promotes Neural Stem Cells niche remodelling and maternal neurogenesis	Sareen Warsi
P2-B-343	Presynaptic intracellular calcium stores modulate acetylcholine release and $\alpha 4\beta 2$ nicotinic responses in layer 1 prefrontal cortical neurons	Raad Nashmi
P2-B-344	Unsilencing the silent synapse: Evaluating mechanisms of glutamatergic synapse maturation in the retinotectal circuit of <i>Xenopus laevis</i>	Natasha Szulist
P2-C-345	Enhancing Neuronal Glucose Uptake via GLUT3 Protects Retinal Ganglion Cells and Visual Function in Glaucoma	Vu Thao Hien Pham
P2-C-346	Evaluation of the implication of Parkin, microglia and CD8+ T cells in the vulnerability of dopamine neurons	Amandine Even

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P2-C-347	Exploring Brain Asymmetry in Depression: Molecular Insights from a Single-Cell Study	Kayleigh Casmeay
P2-C-348	Exploring kefir as a therapeutic approach for Alzheimer's disease using an in vitro β -amyloid aggregation model	Fernanda Mascarenhas
P2-C-349	Exploring neurophysiological mechanisms and risk factors behind the development of chronic postsurgical pain after thoracic surgery using electroencephalography	Mustaali Hussain
P2-C-350	Fish oil supplementation prevents memory loss in experimental chronic liver disease	Alexandre Bourgeois
P2-C-351	Fluoxetine enhances TrkB expression and function to rescue motor coordination deficits in a mouse model of spinocerebellar ataxia type 6	Rana Abdelhalim
P2-C-352	From synaptic instability to serum biomarkers: NMJ-derived protein change in ALS	Maïka Doré
P2-C-353	Functional contributions of afferent and corticocortical projections to human motor control	Kylee Graham
P2-C-354	Gene Polymorphisms and Metabolomics Alterations in Mouse Models of Sporadic Alzheimer's Disease	Behroo Mirza Agha
P2-C-355	Genetic insights into neural mechanisms underlying sensorimotor dysfunction in familial restless legs syndrome: A whole-genome study in French-Canadian families	Andrew Roth
P2-C-356	Genome Wide CRISPR Activation Screen Unveils BAP1 as a Modulator of α -Synuclein Fibril Internalization	Nathan Karpilovsky
P2-C-357	Hemodynamic and electrophysiological progression of the Rose Bengal photothrombotic stroke model in mice	Patrick Chary
P2-C-358	High-Resolution Spatial Transcriptomics of the Maternal Brain in a Rodent Model of Postpartum Depression	Maria Eleni Fafouti
P2-C-359	High-throughput screening using ratiometric fluorescent-based GCCase substrate to identify activity modulators of lysosomal GCCase, as Parkinson's disease-associated genetic risk factor	Faezeh Jame-Chenarboo
P2-C-360	Hippocampal interneuron dysfunction during working memory in a mouse model of schizophrenia	Mark Gerlai
P2-C-361	Hippocampal short-term potentiation deficits occur in a mouse model of late-onset Alzheimer's disease	Rachael Ingram
P2-C-362	Hypertension in Huntington's Disease: The Effect of Propranolol Treatment on Symptom Onset	Aimee Dawe
P2-C-363	Identification of pathogenic variants in the BORCS5 and BORCS8 genes associated with neurodevelopmental disorders	Adeline Paimboeuf
P2-C-364	Identifying Naturalistic Behavioural Signatures of Chronic Pain using Keypoint-Moseq	Andrew Boyce

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P2-C-365	Illness Duration-dependent Subcortical Iron Accumulation in Schizophrenia: Findings from a Quantitative Susceptibility Mapping Study	George Nader
P2-C-366	Impact of Beta-Amyloid Oligomers on Hippocampal Network Activity and Neurotransmission	Vincent Hervé
P2-C-367	Impact of chronic stress on blood-brain barrier and stress responses in adolescence	Béatrice Daigle
P2-C-368	Impact of Exercise-based Interventions for Individuals with Essential Tremor: A Scoping Review	Geneviève Marcotte
P2-C-369	Impact of Hexavalent Chromium on White Matter Integrity and Cognitive Function in a Model of Multiple Sclerosis-Like Demyelination	Elyse Wiebe
P2-C-370	In vivo effects of hippocampal tau pathology on brain oscillations, neurotransmission, and memory	Rime Balafrej
P2-C-371	Inhibiting stearyl-coA desaturase modulates hippocampal fatty acid composition, increases dendritic spine density and normalizes interneuron and astrocytic gene expression in the amyloidogenic 5xFAD model of Alzheimer's disease	Marta Turri
P2-C-372	Integrating Serum Biomarkers with Diffusion MRI Identifies History of Concussion Signatures	Taylor Snowden
P2-C-373	Inter-brain synchronization as a prognostic biomarker of recovery in coma	Anaïs Pichelin
P2-C-374	Investigating a Novel Intravenous Antisense Oligonucleotide (ASO) Therapy in a Mouse Model of Dravet Syndrome	Lakshmini Balachandar
P2-C-375	Investigating eIF2 α -Mediated Translational Control in Taste Memory Formation	Josh Miller
P2-C-376	Investigating the impact of elevated blood pressure on cerebrovascular alterations in Huntington's disease	Alivia Moneyppenny
P2-C-377	Investigating the Molecular Function of THAP12	Bryce Rampal
P2-C-378	Investigating the presence of complement factor C6 in periventricular white matter lesions in multiple sclerosis disease progression	Sara Chafik
P2-C-379	Investigation of Gene–Environment Interactions in the Progression of Parkinson's Disease (PD) and Multiple System Atrophy (MSA)	Divya Shiroor
P2-C-380	Investigation of the long-term effects of COVID-19 on the autonomic nervous system based on neurophysiological and neuroimaging measures	Oren Gurevitch
P2-C-381	Isoform-Specific Roles of ZDHHC8 in Neurodevelopment and Disease	Emma Breyak
P2-C-382	Ketogenic diets partially restore bioenergetic pathways in the hippocampus of an Alzheimer's disease mouse model	Isaura Suárez-Urbe
P2-C-383	Ketone-driven modulation of mitochondrial function in FUS-ALS models	Antoine Desmeules

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P2-C-384	Lipid alterations promote non-vesicular secretion of tau by hippocampal neurons.	Ju-Young Bae
P2-C-385	Longitudinal Characterization of Alpha-Synuclein on Brain Connectivity, Cognitive, and Behavioral Symptoms in Marmosets' Model of Parkinson's disease	Jiayue Yang
P2-C-386	Loss of Calcium-Binding Protein Frequentin Results in Nociceptive Hypersensitivity Through Changes in Nociceptive Circuit Excitability	Alexandria St. Louis
P2-C-387	Machine Learning-Based Prediction of Pain Recurrence Following Trigeminal Neuralgia Surgery	Jana Mahmoud
P2-C-388	MALDI-TOF imaging mass spectrometry demonstrates sex- and age-dependent spatial changes in brain energy metabolism in response to amyloid stress using a mouse model of Alzheimer's Disease	Sandra Grahovac-Nemeth
P2-C-389	Metabolic Dysfunctions May Be Causing Selective Anterior Purkinje Cell Loss in the Cerebellum of a Christianson Syndrome Mouse Model.	Atchaya Kanagasabai
P2-C-390	Metformin as a therapeutic intervention for Phelan-McDermid syndrome	Laura Marsal-García
P2-C-391	Mild Mitochondrial Uncoupling Restores Neuronal Resilience and Preserves Vision in Glaucoma	Heberto Quintero
P2-C-392	Mistrafficking of KCC2 in Endolysosomal system in the hippocampus of Christianson Syndrome mouse model	Jamie Mustian
P2-C-393	A role for injury-associated microglia in neural responses to cortical white matter and parenchymal damage	Ashleigh Willis
P2-C-394	Modelling Individual Differences in Chronic Pain-Related Social Behaviours	Farhada Khaled
P2-C-395	Molecular mechanisms underlying local inhibitory control over cortico-accumbal and tegmental pathways in stressed male and female mice	Arturo Marroquin Rivera
P2-C-396	Molecular Pathogenesis of Juvenile ALS: Dissecting the Impact of the E102Q SIGMAR1 Variant on Cellular Homeostasis and Autophagy	Vina Banouvong
P2-C-397	Mouse models of BCOR-associated inherited retinal degenerations uncover potential pathogenic mechanisms	Camille Michaud
P2-C-398	mTOR-dependent regulation of synaptic FUS translation in ALS	Bastien Glasson
P2-C-399	Multimodal differentiation of MRI phenotypes in left and right temporal lobe epilepsy	Benjamin Lévesque Kinder
P2-C-400	Multimodal sensory training as a leverage to improve motor function in individuals with spinal cord injury.	Lucie Chesné*
P2-C-401	Multiple-Sclerosis-Relevant Stressors Converge on RBP Mislocalization and Neurite Degeneration in Primary Mouse Neurons	Jay Gabriel Larga
P2-C-402	Mutant huntingtin reshapes mitochondrial protein interactions in Huntington's disease	Aya El Haqoui

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P2-C-403	Neural Markers of Social Interaction Deficits in Neurodevelopmental Disorders: A Normative Modelling Approach	Annemarie Wolff
P2-C-404	Neuronal SorCS1 Promotes Synaptic Resilience and Selectively Restores Working Memory in Alzheimer's Disease	Nayoung Yi
P2-C-405	Neuron-specific knockout of GIGYF2 in mice results in autism-related behaviour and learning and memory impairments.	Carlota Navas Via-Dufresne
P2-C-406	Neuroprotective Effects of Pyrroloquinoline Quinone in Folate Deficiency-Induced Blood-Brain Barrier Disruption	Sara Aboulhassane
P2-C-407	Neuroprotective Effects of Remote Ischemic Conditioning in a Mouse Model of Repetitive Mild Traumatic Brain Injury	Aly Muhammad Salim
P2-C-408	NMJ proteomic signatures underlying resistance and vulnerability in ALS progression	Roberta Piovesana
P2-C-409	No evidence for genetic role of the tumor necrosis factor pathway in Parkinson's disease	Morvarid Ghamgosar Shahkhali
P2-C-410	Essential Tremor and BACE2: a role for oligodendrocyte-specific A β metabolism in disease etiology	Matthew Pelletier
P2-C-411	Contrasting Oculomotor Abnormalities in Right- and Left-Sided Parkinson's Disease Using Eye-Tracking	Daria Hinton
P2-D-412	Evolutionarily conserved neural dynamics across mice, monkeys, and humans	Margaux Asclipe
P2-D-413	Posterior-Anterior Propagation of Beta Bursts During Motor Control	Siyu Long
P2-D-414	Exploring Homeostatic Plasticity as a Mechanism Underpinning Prolonged Pain	Noran Almomen
P2-D-415	Eye vs. hand effector-specificity in human parietal and frontal cortices	Kiana Masoudi
P2-D-416	Factorial Analysis of Ensemble Representation of Attention and Decision-making in Prefrontal Cortex of Macaque Monkeys	Wanyi Lyu
P2-D-417	Feedback gains reflect unfolding decisions during ongoing actions	Cesar Canaverall
P2-D-418	Foraging plasticity in <i>Caenorhabditis elegans</i> or how developmental stress leads to cautious foragers in rich environments	Jorge Luna Herrera
P2-D-419	Frequency-specific modulation of beta-band dynamics by transcranial alternating current stimulation in younger and older adults	Guofeng Ye
P2-D-420	Functional brain mapping of stroke-induced cortical blindness in mice using neurophotonic	Catherine Albert
P2-D-421	Functional connectivity of reticulospinal neurons within the medullary reticular formation	Yasmine Zmantar
P2-D-422	Functional contribution of glutamatergic neurons of Mesencephalic Locomotor Region nuclei to locomotion.	Kayvan Combadiere
P2-D-423	Impact d'une perturbation transitoire des voies corticales sur les relations fonctionnelles entre le cortex visuel primaire et le pulvinar chez la souris	David Vasii

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P2-D-424	In vivo characterization of strain-specific entourage effects in Psilocybe mushrooms in a rat model of autism spectrum disorder	Stefan Salo
P2-D-425	Investigating how an immune challenge impacts the trajectory of chemotherapy-induced peripheral neuropathy	Arina Pang
P2-D-426	Investigating the Circuit Mechanism of Steering in Isothermal Tracking of Caenorhabditis elegans (C. elegans)	Yue Wang
P2-D-427	Investigating the effects of lorazepam and baclofen on TMS evoked transcallosal inhibition.	Faith Adams
P2-D-428	Kinematic analysis of motor responses evoked by circumferential stimulation of the lumbar spinal cord in cats	Oriane Hervault
P2-D-429	Lateral entorhinal–piriform projections in context-dependent odor processing	Carla Concilio
P2-D-430	Lateral Hypothalamic Pathways Drive Locomotor Control and Recovery after Spinal Cord Injury	Abderraouf Redjem
P2-D-431	Localized Reorganization of Brain Structure Following Early Auditory Deprivation	Danial Ghiaseddin
P2-D-432	Mechanisms of activity-dependent cortical sensory adaptation in the rodent hindlimb somatosensory circuitry	Vasil Kecheliev
P2-D-433	Mechanisms of decision-making during natural interactive behaviour	Tyler Peel
P2-D-434	Mechanisms responsible for increasing respiratory activity during locomotion	Jessica Zevounou
P2-D-435	Microstimulation of V4 domains modulates visual perception in non-human primates	Younes Valibeigi
P2-D-436	Milliseconds that matter: how temporal fine structure shapes sensory detection and discrimination.	Isabelle Mackrous
P2-D-437	Müller Glia-Mediated Light Transmission as a Potential Trigger for Cone Planar Cell Polarity in Mice	Melissa Villarreal Morales
P2-D-438	Natural self-motion is actively recoded in vestibular cortex	Jerome Carriot
P2-D-439	Neural and Behavioural Correlates of Audiovisual Gaze-Orienting in Common Marmosets	Tyler Cook
P2-D-440	Neural Markers of Interocular Grouping during Binocular Rivalry with MEG	Janine Mendola
P2-D-441	Neuroanatomical organisation of glutamatergic reticulospinal neurons	Marc-Antoine Bouchard
P2-D-442	Quantitative Study of Perineuronal Net Plasticity in the Mouse Visual Cortex Following Retinal Injury and Cholinergic Potentiation	Odile Desaulniers
P2-D-443	Neurovascular and corticospinal dynamics of intermittent theta burst stimulation	Willy Nguyen
P2-D-444	Noradrenaline shapes top-down inhibition of the cortex by NDNF+ neurons in reinforcement and behaviour	Emmeraude Tanguay
P2-D-445	Oculomotor behaviour during free viewing of dynamic video in non-human primates: translating to human clinical application.	Tyonna Ashby

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P2-D-446	Oculomotor dance learning task: Implications for audio-visual cued spatial learning	Michael Petrovski
P2-D-447	OPIOIDS DO NOT INHIBIT SPINAL OXYGEN SENSORS DURING HYPOXIA	Jessica Dickenson
P2-D-448	Opposite effects of CB2 receptor activation on visual cortical dynamics	Capucine Mandel
P2-D-449	Perineuronal nets in a vocal motor nucleus regulate vocal development	Xinghaoyun Wan
P2-D-450	Pose-estimation reveals behavioral signatures of social recognition and neuromodulation in sensory circuitry	Daria-Salina Storch
P2-D-451	Prefrontal and Parietal Local Field Potentials Employ Different Visuospatial Codes for Reach: A Complex-Valued Network Classification Approach	Ashkan Karimi
P2-D-452	Protocadherin-gamma (Pcdh- γ) impacts axon-keratinocyte interactions – A coculture model approach	Honyi Ong
P2-D-453	Pulvinar-Inspired Skip Connectivity Regulates Gain and Decision Criterion in Hierarchical Vision Networks	Narmin Zarinabadi
P2-E-454	Endothelial calcium signalling regulates capillary blood flow dynamics and vessel tone in the cerebral microvasculature	Sam Paton
P2-E-455	Fructose-mediated glutamatergic but not GABAergic maladaptations at NPY/AgRP neurons	Persephone Miller
P2-E-456	Functional and morphological adaptations of hypothalamic tanycytes to caloric restriction	Zachary Silver
P2-E-457	Gustatory Influences on the Metabolic Fate of Sugar: When Taste Tricks the Body	Golnaz Arjmand
P2-E-458	How ghrelin and its actions on the GHSR interact with chronic social stress effects in female mice.	Brenna Macaulay
P2-E-459	Hypothalamic satiety neurons are inhibited by α 2-adrenoceptor activation through direct and indirect mechanisms	Olivier Lavoie
P2-E-460	Investigating the Role of Endothelial Calcium Transients in Cerebral Capillary Stall Recanalization	Andrew Hubbard
P2-E-461	Mechanisms Underlying Estrogens' Rapid Facilitative Effects on Social Recognition in the Medial Amygdala of Female Mice	Charlotte La Rochelle-Compton
P2-E-462	Vesicular transporters VNUT and VMAT1 anti-colocalize in ATP and norepinephrine 'co-releasing' PC12 cells	Layla Sadafi
P2-F-463	Effect of Number of Training Trials on Olfactory Learning and Memory in a Pavlovian Conditioned Odour Preference Task	Mohammed Ali Ahmed
P2-F-464	Enhancement of cocaine-primed reinstatement by 17 β -estradiol in ovariectomized rats is concomitant with increased activation mesolimbic brain regions	Davin Peart
P2-F-465	Examining Network Gain dynamics in the Subiculum during Reorientation	Apoorv Sharma

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P2-F-466	Examining the contribution of serotonin dynamics within the mesolimbic dopamine system to motivation	Mya Chronopoulos
P2-F-467	Experience-Dependent Specialization of VIP Interneurons and CA1 Circuit Dynamics during Contextual Memory	Suhel Tamboli
P2-F-468	Exploration drives reward-dependent long-term memory	Gabrielle Dufresne
P2-F-469	Exploring Sec5/EXOC2 as a Conserved Regulator of Sociability	Jack Rosenbaum
P2-F-470	Exploring sex differences in inhibition of prefrontal cortical dopamine during a novel context threat discrimination task	Liv Engel
P2-F-471	Flavour-nutrient and flavour caffeine conditioning	Yasmina Dumiaty
P2-F-472	From hardware to science communication: How Yutu became a virtual influencer	Zahrat-El-Nor Maynard
P2-F-473	From Prediction to Action: Habenular Control of Ventral Tegmental Area Circuits in Defensive Behaviors	Marina Ihdoype
P2-F-474	Fronto-parietal activation supports narrative reintegration following distraction during movie-watching	Samuel Ketcheson
P2-F-475	Functional heterogeneity of hippocampal CA1 VIP interneurons in novelty-driven memory processing	Risna Kanjirassery Radhakrishnan
P2-F-476	Given the choice: Individual differences in concurrent intravenous cocaine and fentanyl self-administration in male and female rats	Adia Stone
P2-F-477	Granularity in configural learning of abstract 2D space	Nuria Larochelle
P2-F-478	Humanized mice learn by seeking information	Chiara Bramati
P2-F-479	Impacts of Chronic Stress on Cortico-Accumbal and Cortico-Tegmental Activity in Goal-Directed Behaviours and Motivation	Sara-Maude Leclerc
P2-F-480	Influence of Intertrial Interval (ITI) Duration on Learning Acquisition of Elemental and Configural Discrimination Tasks	Toni Kach
P2-F-481	Inhibition of Microglia in the DMS Impacts Goal-Directed Behaviors in a Rat Model of Diet-Induced Obesity	Elif Sari
P2-F-482	Integrating Internal and External Signals to Optimize Food Decision Making	Yige Sun
P2-F-483	Integration of appetitive features in the orbitofrontal cortex during food-based choices	Elizabeth Rye
P2-F-484	Intraoperative functional mapping of white matter tracts: a scoping review and meta-analysis	Yusra Lecheheb
P2-F-485	Inverse effects of diet and adiposity on nucleus accumbens volume in humans.	Justin Sung
P2-F-486	Investigating decision making in the hippocampus using open-source touchscreen chambers	Matthew Cooke
P2-F-487	Investigating how pre-existing anxiety levels modulate adolescent nicotine vapor-induced behavioural and neural changes	Marwa Idrissi
P2-F-488	Investigating the Contributions of Chromosomal and Gonadal Sex on the Gut Microbiome and Stress Resiliency through Cecal Transfer in a Mouse Model of Chronic Stress	Meagan Hinks

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P2-F-489	Investigating the discriminative stimulus properties of the mu opioid receptor antagonist, naloxone, through Pavlovian associative learning	Ella Claridge
P2-F-490	Investigating the Effects of Exercise on Attentional Correlates in Long-Term Concussion	Caelan Fernando
P2-F-491	Investigating the role of actin dynamics in the perirhinal cortex for object memory destabilization in a rodent model	Jiayu Zheng
P2-F-492	Investigating the role of nucleus accumbens D1 receptor neuronal outputs to ventral midbrain in anxiodepressive behaviour elicited by diet-induced obesity	Solal Aubailly
P2-F-493	Investigation into the activity of claustrum interneurons across different states	Alison Do
P2-F-494	Laminar Organization of Medial Frontal β -Bursts During a Stop Signal Task	Pranavan Thirunavukkarasu
P2-F-495	Lateral hypothalamic input engages a disinhibitory microcircuit in the dorsal raphe to promote behavioral activation	Renata Sadretdinova
P2-F-496	Learning constrains the generative capacity of the hippocampus	Zeeshan Haqqee
P2-F-497	Levonorgestrel reduces sex differences in tests of anxiety-like behaviour in Long-Evans rats.	Alison Randell
P2-F-498	Activity of prefrontal Sidekick1-expressing neurons regulates behavioral adaptation to chronic stress	Vedrana Cvetkovska
P2-F-499	Male and female rats trained on appetitive and inhibitory learning contingencies generalize the stimulus effects of morphine to other opioids	Jessica Karlovcec
P2-F-500	Maturational trajectory of hippocampal networks revealed by longitudinal calcium imaging in vivo	Adam Ramsaran
P2-F-501	Median Raphe Glutamatergic and Serotonergic Inputs Support Recruitment of Hippocampal CA1 VIP Interneurons During Novel Experience	Lisa Topolnik
P2-F-502	Median raphe VGLUT3+ neurons modulate hippocampal theta rhythm and sharp-wave ripples	Justine Fortin-Houde
P2-F-503	Microglia regulate memory consolidation by modulating engram neuron activity	Xiaoyu Chen
P2-F-504	Modelling population dynamics in cortical–basal ganglia circuits for decision-making	Haoyang Li
P2-F-505	Multiplicity of Error Centers in the Cerebral Cortex	Benjamin Corrigan
P2-F-506	Multi-scale organization of hippocampal activity across CA1 and subiculum during structured locomotion	Regan Campbell
P2-F-507	Multivariate Behavioural and Psychological Profiles Predict Adherence to a Physical Activity Intervention in Adults at Risk for Alzheimer’s Disease	Sathurthika Selvanayagam

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P2-F-508	Multi-voxel pattern analysis for characterizing functional connectivity underlying grit in cognitively unimpaired older adults at-risk for Alzheimer’s disease	Vasvi Dhir
P2-F-509	Network Gain Regulates Stability and Flexibility in a Ring Attractor Network	Harshith Nagaraj
P2-F-510	NEURAL CIRCUIT AND BEHAVIORAL SIGNATURES OF STRESS RESILIENCE IN CAENORHABDITIS ELEGANS	Felix Akoyo
P2-F-511	Neuronal network linking the olfactory bulb to the prefrontal cortex regulates familiarity-induced affective state transfer	Marie Fénéry
P2-F-512	Offspring fear conditioning and latent inhibition following cannabis smoke exposure before and during pregnancy in mice.	Kaylen Young
P2-G-513	Can We Capture Resting State Functional Connectivity in a Shorter Time? A Systematic Comparison between the Hyperband- and Conventional fMRI	Mahmoud Elsayed
P2-G-514	Development of a head fixation protocol for awake repeated live two-photon imaging in the adult zebrafish telencephalon	Christine D'souza
P2-G-515	Development of Reflectin as a Phase-Contrast Marker for Digital Holographic Microscopy — A Future Approach for Live Subcellular Imaging in Neuroscience	Jean Honoré Laurent
P2-G-516	DROSOPHILA MELANOGASTER AS A NOVEL MODEL ORGANISM TO STUDY STRESS AND ANTIDEPRESSANT DRUGS	Fabiola Eckert
P2-G-517	Electrochemical biosensor for mitochondrial DNA integrity assessment as a biomarker of major depression	Pedro Guedes
P2-G-518	Evaluating the Repeatability of fNIRS for Assessing Cerebrovascular Function	Erin Mazerolle
P2-G-519	Expanding AAV Diversity: An AI Guided Unbiased Exploration of Exotic Viromes	Chloé Guillemette
P2-G-520	Fast AAV validation pipeline in rats for translational primate studies	Zhihao Zheng
P2-G-521	Feasibility of Accelerated Intermittent Theta Burst Stimulation Combined with Balance Training in Alzheimer’s Disease and Related Dementias	Karishma Ramdeo
P2-G-522	From Temporal Precision to Delusion Formation: Gamma Synchrony and Perceptual Deficits in Schizophrenia	Andrew Sedrak
P2-G-523	Frontal Alpha Asymmetry Across Graded Sensory Challenge: Investigating Regulatory Demands During Standing Balance	Rachel Cluett
P2-G-524	Guided Topic Modeling of Single-Cell Human Prefrontal Cortex Methylation for Cell-Type Deconvolution and Epigenetic Trajectory Analysis in Major Depressive Disorder	Neda Esfehiani
P2-G-525	HeteroRC: Decoding latent information from dynamic neural responses with interpretable heterogeneous reservoir computing	Runhao Lu
P2-G-526	High SNR Outperforms High Diffusion Weighting for OGSE-TDS Axon Diameter Mapping Precision	Madison Chisholm

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P2-G-527	Hippocampal-claustrum coupling during sleep	Brian Marriott
P2-G-528	Improved Sleep Spindle Detection Using the BOSC Method: A Comparison with Traditional Approaches	Cameron Turnbull
P2-G-529	Increasing Corticospinal excitability using personalized Brain Stimulation: A Feasibility Study	Amandeep Atwal
P2-G-530	Information-geometric classification of EEG signals with motor imagery tasks	Eric Albers
P2-H-531	Improving Brain Health Literacy Among Adolescents: The Maintain Your Brain Game	Lydia Shaw-Peters
P2-H-532	Making the brain visible: EEG-based brain-computer interfaces for education and social impact in corporate wellness	Sujata Sinha
P2-H-533	RetINaBox: A hands-on learning tool for experimental neuroscience	Flavia Arias Armas
P2-B-534	Changes in Excitation/Inhibition Balance Following Developmental Ethanol Exposure	Roaa Abu Zeid
P2-B-535	Profiling LTP Decay by Distinguishing the Synaptic Differences Between De Novo and Rescued Memories	Matthew Mollicola
P2-G-536	Molecular signatures from neuronal and oligodendrocytic extracellular vesicles isolated from blood samples in patients with ALS undergoing focused ultrasound and IVIg treatments	Matheus Uba Chupel

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P3-A-537	N-acetylcysteine mitigates behavioral impairments and neuronal dysregulation caused by adolescent nicotine exposure in rats	Leandro Val Sayson
P3-A-538	Parental Origin Modulates Testosterone Genetic Effects on the Tangential Growth of the Cerebral Cortex	Hubert Fiset-Renaud
P3-A-539	Perinatal Delta-9-tetrahydrocannabinol alters development of sleep and hypoxic ventilatory reflex in newborn rats	Vivian Biancardi
P3-A-540	Post-Natal Disruption Of The Blood-Brain Barrier And Abnormal Brain Development In An Autism Model	Celeste Laporte
P3-A-541	Probing parallel changes in the synaptic proteome and transcription regulation in the MDGA2 deficient autism model mouse	Kyle Patel
P3-A-542	Regulation of inhibitory interneuron survival by the clustered Protocadherins and PTEN/PI3K signaling	Mercedesz Praszner
P3-A-543	Selective neurotoxic effects of prenatal cannabis exposure on white matter	Mayuura Rajendram
P3-A-544	Sex Shapes the Development of Neuroinfectious Virus Receptors Across the Human Lifespan	Nadine Barone
P3-A-545	Sex-dependent modulation of lateral hypothalamic–dorsal raphe and infralimbic circuits following acute stress	Nahid Rouhi
P3-A-546	Sex-specific offspring neurodevelopmental outcomes in a rodent model of postpartum depression	Kristen Montgomery
P3-A-547	Single-cell multiomics define a gradual, spatially-regulated epigenetic and transcriptional transition from embryonic to adult neural stem cells	Beatrix Wang
P3-A-548	Spatiotemporal development of sparse excitatory neuronal types within the deep mouse cortex	Shalini Iyer
P3-A-549	Striatal dopamine release is region-, sex-, and age-dependent in young mice	Sean Coady
P3-A-550	Elucidating the Neurodevelopment of Multisensory Integration in the Common Marmoset	James Wang
P3-A-551	A molecular basis of somatotopic map formation	Kevin Sangster
P3-A-552	The cholesteryl ester transfer protein impacts HDL quantity and quality disrupting neurovascular integrity	Jose Antonio Vazquez Coba
P3-A-553	The Effects of Pubertal Lipopolysaccharide and Chronic Fluoxetine Treatments on Anxiety-Like Behavior in Adult Male and Female Mice	Abigale Hinterberger
P3-A-554	The Role of Ago1 and Ago2 in Neurodevelopment	Aimee Xinxo
P3-A-555	The role of Kirrel3 in mitral cell dendrite morphogenesis during olfactory system development and its impact on odour processing in mice	Mary-Elizabeth Allen
P3-A-556	Timing-specific effects of maternal separation stress on development in protein-restricted neonatal Wistar rats	Amber Jurke

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P3-A-557	Transcriptional and Splicing Dysregulation in CHARGE Syndrome Mouse Models Explains the Cerebellar Developmental Defects	Sanaa Tork
P3-A-558	Abnormal MYCBP2-EPHB2 signaling interplay causes neurodevelopmental defects	Sara Banerjee
P3-A-559	Vasopressin Dysregulation Following Transient Neonatal Hyperoxia in Rats	Roqaya Imane
P3-A-560	β -Neurexin-1a knockout impairs zebrafish visual function in prey capture under low-light conditions.	Fannie Yang
P3-B-561	Properties and activation mechanisms of membrane localized, chloride permeable Pannexin 2 channels.	Christian Humphreys
P3-B-562	PVN astrocytes regulate corticosterone secretion and stress responses	Manon Duquenne
P3-B-563	Radial astrocytes modulate the encoding of visual signals and plasticity in the developing <i>Xenopus laevis</i> optic tectum.	David Foubert
P3-B-564	Region-specific synaptic adaptations in a mouse model of spinocerebellar ataxia type 6	Ben Rogers
P3-B-565	Rescue of Dopaminergic Network Stability During Metabolic Stress by Pharmacological and Genetic Targeting of Panx1a	Georg Zoidl
P3-B-566	Rescuing the Cellular and Metabolic Alterations Underlying Chemotherapy-Induced Cognitive Impairment and Fatigue	Jared Vanderzwaag
P3-B-567	Restoring astrocytic metabolism potentiates cortical reorganization after stroke	Andrea Trevisiol
P3-B-568	Rethinking memory consolidation: protein synthesis inhibition mimics neural shutdown	Saja Al-Smadi
P3-B-569	Role of Astrocytes in Regulation of CRH Neurons and the HPA Axis.	Clara Ireland
P3-B-570	Role of astrocytic N-methyl-D-aspartate (NMDA) receptors in regulating cortical neuronal function via purinergic signalling	Meher Kantroo
P3-B-571	Role of <i>Elfn1</i> in Mossy Fibre to Stratum Lucidum Interneuron Information transfer	Niko Merlak Radojic
P3-B-572	Role of TrkC-PTP α -regulated Shank3 phosphorylation in synapse development and plasticity	Mai Inagaki
P3-B-573	Amyloid Beta protein increases dendritic spine density in stellate, but not pyramidal neurons, and causes cell type specific alterations in spine morphology in the rat medial entorhinal cortex	Marcus Suvanto
P3-B-574	Serotonin modulation of behavioral time scale plasticity in mouse prefrontal cortex	Baoqing Lu
P3-B-575	Sex Differences in Endocannabinoid System Gene Expression in the Anterior Cingulate Cortex and Basolateral Amygdala following Inflammatory and Neuropathic Pain	Haley Vecchiarelli
P3-B-576	Sex Differences in Microglial Responses to Cerebral Microbleeds: Influence of Estrogen	Dhwani Sura

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P3-B-577	Shaping Synapses During Development and Aging: Netrin-1 Regulation of Hippocampal Dendritic Spines	Jiaqi Xu
P3-B-578	Pharmacological study of cannabichromene and cannabigerol at the serotonin 1A receptor (5-HT1A)	Riley Brown
P3-B-579	Slice preparation matters: protective solutions shape synaptic plasticity in ex vivo brain slices	Priscilla Welter
P3-B-580	Spacing theta burst episodes improves plasticity in prefrontal cortex of socially isolated mice	Angela Zolis
P3-B-581	Spatial learning promotes phosphorylation of CRMP2 in the hippocampus.	Harshit Thakare
P3-B-582	Spatiotemporal Dynamics of Microglia in Response to Recurrent Capillary Injury In Vivo	Frances Armas
P3-B-583	Spatiotemporal maturation of astrocyte calcium dynamics during hippocampal development	Gareth Rurak
P3-B-584	Spontaneous and miniature excitatory postsynaptic currents in medium spiny neurons of the dorsomedial striatum in Bmal1 knock-out mice.	Mahgol Darvishmolla
P3-B-585	Sublayer-specific inhibitory and disinhibitory control of hippocampal CA1 pyramidal cells by VIP interneurons	Jordan Grenier
P3-B-586	Synaptic Transmission Onto Somatostatin Interneurons is Enhanced Under Acidic Conditions in an Efn1-dependant Manner	Mark Bobbitt
P3-B-587	Synthetic Synapses: Testing Biomimetic Electrode Coatings for Enhanced Neural Integration	Teddy Fisher
P3-B-588	Frequency-dependent regulation of serotonin signaling in prefrontal cortex is expanded by chronic SSRI treatment	Saige Power
P3-B-589	The Brain on Cannabis: How THC affects brain rhythms during sleep-like states	Lexi Stein
P3-B-590	The Effect of High Salt Intake on RhoA–mDia1 Signaling and the Cytoskeleton in Vasopressin Neurons	Banruo Li
P3-B-591	The Effect of Serotonin Modulation on Lateral Parabrachial Nucleus Inputs in Pain Conditions	Shirin Sadighparvar
P3-B-592	The Effect of Systemic Injections of CBD on Sleep-like Brain State Alternation During Urethane Anesthesia	Layan Fayad
P3-B-593	Investigating the Cellular Functions of Rhomboid-Related Protease 3	Megan Verma
P3-B-594	The mechanistic role of extracellular matrix proteins, growth factors, and peptide hormones in synapse formation and function	Olivia Hawco
P3-B-595	The Role of Glial Ferritin and Transferrin 1 in regulating Drosophila Motor Behavior	Megan Corsini
P3-B-596	The Role of Neuronal Primary Cilia in Regulating Dendritic Spines	Lizheng Wang
P3-B-597	The Role of Non-Ionotropic NMDA Receptor Signaling in Synaptic Depotentiation in the Hippocampus	Rachel Ha

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P3-B-598	The role of oligodendrocyte precursor cells (OPCs) in memory consolidation	Sakthivel Srinivasan
P3-B-599	The Role of Oxysterol-Binding Protein in Synaptic Vesicle Cycling and Development	Niha Sohail
P3-B-600	The Role of RIM1/2 Proteins in Dopamine Release	Madeleine Morris
P3-B-601	The sigma-1 receptor: a molecular hub for psychostimulant drugs in the nucleus accumbens	Nora Chagar
P3-B-602	Theta burst calcium signals to optimize synaptic plasticity in mouse prefrontal cortex	Hsin-Yun Hsieh
P3-B-603	Time course development of synaptic plasticity deficits following adolescent repetitive mild traumatic brain injuries.	Eric Eyolfson
P3-B-604	TNF α Role in Homeostatic Synaptic Plasticity in HD	Talia Segal
P3-B-605	Top-down modulation of the dorsal peduncular cortex in anxiety-like and fear behaviour	Anna Canella
P3-B-606	Transsynaptic Organization Underlying a Cerebellar Gateway	Mohd Sarim Siddiqui
P3-B-607	TRPA1 channels drive pericyte dysfunction during oxidative stress	Chris Groten
P3-B-608	Tyrosine kinase inhibition gates a non-selective cation channel in Aplysia bag cell neurons	Emily Robichaud
P3-B-609	Unlocking the regenerative potential of the mammalian retina	Ajay David
P3-B-610	Unveiling Glial Contributions to Parkinson's Pathology by Mitochondrial NDUFA13 Knockout in Dopaminergic Neurons	Skylar Donovan
P3-B-611	Value coding features of serotonin neurons	Emerson Harkin
P3-B-612	Viral silencing of glutamatergic PreBötzing Complex neurons induces apneas in mice	Gabriele Matteoli
P3-C-613	Non-invasive Profiling Reveals Heterogenous Mitochondrial Respiration Profiles in Autism and ADHD Without Clear Genomic Stratification	Tina Ram
P3-C-614	Novel mTOR-independent mechanisms underlying GABAergic synapse dysfunction in epilepsy	Vranda Garg
P3-C-615	Optic Nerve Blood Barrier Disruption Precedes Axon Loss and is Restored Through Tight-Junction Gene Therapy	Isaac Vidal Paredes
P3-C-616	Oxytocin modulates social salience network connectivity in ASD, scaling with social trait expression	Jacco Renstroem
P3-C-617	Parkinson's disease pathogenesis influences human microglia transcriptional identity and contributes to inflammatory responses in microglia containing midbrain organoids	Ghislaine Deyab
P3-C-618	Personalized Biomarkers of Multiscale Functional Alterations in Temporal Lobe Epilepsy	Ke Xie
P3-C-619	Pharmacological study of allosteric mechanisms at the type 1 cannabinoid receptor and their application in a mouse model of acute pain	Theodor Zaharia

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P3-C-620	Pleiotrophin induces changes in the gene expression of mice cerebral cortices following ischemic strokes	Ron Miguel Bertenshaw
P3-C-621	Proprioceptive Impairment Mediates the Relationship Between White Matter Disconnection and Motor Impairment After Stroke	Mika Kaeja
P3-C-622	Valproic Acid Modulates Seizure-Like Network Dynamics in Neonatal Hippocampal Slices Recorded on 3D Microelectrode Arrays	Umar Zaidi
P3-C-623	Purinergic receptor P2Y2 regulates neurogenesis and functional recovery following spinal cord injury in zebrafish	Isaac Sullivan
P3-C-624	Recovery of Cortical and Subcortical Signatures of Pain in Trigeminal Neuralgia Following Surgical Pain Relief	Jerry Li
P3-C-625	Re-discovering a reaching task for mice: assessing recovery in a mouse model of intracerebral hemorrhage (ICH) using the tray reaching task	Sierra Hedges
P3-C-626	Electrophysiological Mapping of the Subthalamic Nucleus in Parkinson's disease: Towards Improved Functional Characterization for Deep Brain Stimulation	Marc-Antoine Gobeil
P3-C-627	Reduced Presence of Spinal Inhibitory Neurons in a Mouse Model of Fragile X Syndrome	Ann Derham
P3-C-628	Age- and Sex-dependent effects of immune challenges on motor function in mice	Charles Veilleux
P3-C-629	Regional and temporal dynamics of early amyloid pathology and lysosomal co-localization in 5XFAD mice	Thomas Van Der Sloot
P3-C-630	Region-Specific Deletion of STEP in the hippocampal region CA2: Consequences for Social and Spatial Memory	Laurie Bonenfant
P3-C-631	Regulation of the intracellular accumulation of Tau by Numb and its role in tauopathies	Sarah Hales
P3-C-632	Regulatory Roles of Parkinson's Disease-Associated MicroRNAs in Alpha-Synuclein Expression	William Gauthier-Naud
P3-C-633	Reinstating GDNF-RET response to achieve dopaminergic cell rescue in a rat model of alpha-synuclein pathology	Elin Arvidsson
P3-C-634	Repeated Injury Impacts Immune and Neural Stem Cell-Mediated Repair in the Zebrafish Forebrain	Sanjana Grover
P3-C-635	Repetitive transcranial magnetic stimulation paired with augmented reality to alter post-concussion dizziness	Daniel Soppitt
P3-C-636	Resolving Variants of Uncertain Significance in ALS through Integrated In Silico and Functional Approaches	Minhal Ahmed
P3-C-637	Role of A2A purinergic receptor in glial bridge formation and cellular and functional recovery following spinal cord injury in Danio rerio	Ashley Chen
P3-C-638	Role of mitochondrial dynamics in C. elegans models of Alzheimer's disease	Grant Booth
P3-C-640	Seizure-Sensitive Neurons Gate Memory Specificity After Early life seizures	Yajing Guan

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P3-C-641	Selective Resistance and Vulnerability of Extra-Motor Circuits in ALS Revealed by Eye Tracking	Emmaley Hunter
P3-C-642	Selective seeding of human abnormal tau proteins in subiculum projecting entorhinal cells impairs temporal association memory in a mouse model of early Alzheimer's disease	James Carmichael
P3-C-643	Sensory dysregulation affects brain development and behavior in a mouse model of KBG syndrome	Yana Kibalnyk
P3-C-644	Purinergic Dysregulation in the Developing Fragile X Hippocampus	Matthew Napier
P3-C-645	Sex differences in a stress induced depressive phenotype: a time course of behavioural and central effects	Maja Ramljak
P3-C-646	Sex-Dependent Neurovascular and Network Disruption Following Diffuse Microvascular Occlusion	Jessika Royea
P3-C-647	Sex-specific behavioural, regional and synaptic landmarks of tauopathy revealed by PET imaging and EEG	Christopher Morrone
P3-C-648	Sex-specific transcriptional reorganization of dopaminergic projections following chronic social stress	André Moreira Pessoni
P3-C-649	Shared vulnerability of SST neuron subtypes in Schizophrenia and Alzheimer's Disease	Nicole Endresz
P3-C-650	Single-axon tracing of the subthalamic nucleus afferent projections arising from the external pallidum in cynomolgus monkeys	Talha Khan
P3-C-651	Single-molecule fluorescence in situ hybridization analysis of immature granule neurons in the depressed human dentate gyrus	Sophie Simard
P3-C-652	Sleep and Non-Motor Health Over Six Years of Community Dance in Parkinson's Disease	Simran Rooprai
P3-C-653	Spatially resolved molecular-cellular dysregulation in the subiculum of young 5xFAD mice	Margarita Kapustina
P3-C-654	SRSF3 regulates microglia immune response in Alzheimer's disease models with Abeta and Tau-mediated pathology	Victor Coelho
P3-C-655	Stress, seizures, and hyperactivity: Machine-learning-based behavioural analysis in a GRIN1 disorder mouse model	Daria Nazarkina
P3-C-656	Subanesthetic Ketamine Disrupts Predictive Signaling in the Prefrontal Cortex	Benjamin Corrigan
P3-C-657	Sublethal and lethal toxicity of amyloid-beta 1-42 oligomers in human iPSC-derived neurons	Milton Guilherme Fernandes
P3-C-658	Suicide in youth: is local microglial gene regulation implicated?	Elisa Gonçalves De Andrade
P3-C-659	SUMO2-BASED INTERVENTIONS REDUCE SYNUCLEIN PATHOLOGY	Sofi Aubert-Tandon
P3-C-660	Synaptopodin: A novel therapeutic target for treatment of Autism Spectrum Disorders	Loc Dang
P3-C-661	Targeted Probiotic Intervention Remodels the Hippocampal Proteome and Confers Seizure Protection in a Neonatal Rat Model of Infantile Epileptic Spasms Syndrome	Valeriya Dontsova

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P3-C-662	Targeting the Parkinson's Disease-associated protein alpha-synuclein using microRNAs	Andrew Park
P3-C-663	Testicular dysfunction in a murine model of Parkinson's disease	Margaux Cavaliere
P3-C-664	The Effect of Cannabinoid Receptor 2 on Blood-Brain Barrier Dysfunction in Epilepsy	Hannah Reid
P3-C-665	The fate of serotonin neurons in Parkinson's disease	Laurie-Shan Verville
P3-C-666	The Hypothalamic Supramammillary Nucleus Contributes to Seizures in Mouse Models of Temporal Lobe Epilepsy	Mckenna Bolger
P3-C-667	The Importance of Cleaning Up: Preliminary insights into the impact of AIH and nerve injury on the phagocytic properties of macrophages	Miles Magno
P3-C-668	The integrated stress response pathway in depression	David Ho-Tieng
P3-C-669	The PD-associated LRRK2 G2019S mutation alters antigen presentation in human iPSC-derived macrophages	Zaya Haj Mohamad
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P3-D-682	Reinstatement of default mode network manifold structure underlies motor memory retrieval	Ali Rezaei
P3-D-683	Relationship between corticospinal excitability and inhibition and fractionated reaction time of the first dorsal interosseous muscle	Kim Uyeno
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P3-D-698	Task-dependent modulation of hindlimb cutaneous reflexes during forward and backward walking before and after cervical spinal cord injury in cats	Rasha Al Arab
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