

Please find your assigned abstract code listed below. Kindly note that your poster presentation has been scheduled under **Poster Session B**.

We kindly ask that you are present by your poster during each **Poster Session B** slot to engage with other attendees and answer questions.

LBA01

Involvement of the Brain Renin-Angiotensin System in the progression of diabetes-induced amnesia

Akash Gautam

LBA02

Targeting fructose metabolism as a modulator of microglial metabolic reprogramming in Alzheimer's disease

Annalise M. Sturno

LBA03

Identifying synaptome aberrations in C9orf72 Frontotemporal Dementia patient-derived cortical neurons

Ashton Spillman

LBA04

Differentiation of human iPSC-derived glia in biomimetic platforms mimicking the stiffness of healthy and demyelinated brain

Carmen Melendez-Vasquez

LBA05

Mapping the Temporal Profile of c-Fos Activation in Zebrafish Larvae Following Pentylene-tetrazole-Induced Convulsions.

Amit Kumar

LBA06

Evaluation of the Impact of SARS-CoV-2 on the developing brain

Débora Magalhães Portela

LBA07

OLX-07010 inhibits tau aggregation and ameliorates motor deficits in mice with mutated human tau and APP

Dhruv R. Patel

LBA08

Defining the role of B-Raf and mTOR Signaling in Spinal Cord Oligodendroglia

Divyangi Krantikumar Katak

LBA09

Does remyelination by oligodendrocytes that survive demyelination provide neuroprotection?

Eleonora Scalia

LBA10

The beginning of the glymphatic system function represents the end of the susceptibility window for central nervous system ZIKV infection

Eduardo B. Sequerra

LBA11

Simultaneous Expression of Sigma-1 Receptor and Tetraspanins Reveals Mechanisms of Receptor Enrichment in Extracellular Vesicles

Ago Rinken

LBA12

Astrocyte gap junctions connect the brain into a gene and protein regulatory fabric

Amanda Charest

LBA13

A role for the p75 neurotrophin receptor in mediating neural progenitor proliferation and oligodendrogenesis in the rat subventricular zone

Anthony A. Williams

LBA14

Characterization of a murine repeat dose LPS-Induced inflammation model for early drug discovery research

Asuni A.

LBA15

Regulation of brain pH, CO₂ and O₂ homeostasis is predicted to be activity-dependent and influenced by blood physiology

Botond Antal

LBA16

Small RNA chaperone promotes TDP43 functionality and motor neuron survival in an in vivo mouse model

Brigid Jensen

LBA17

The orphan receptor GPR27 regulates the dynamics of second messengers and the mechanosensitivity of 3T3 cells and astrocytes

D. Kuhanec

LBA18

Iron Accumulation in the Inflamed Brain: The Role of Blood-Brain Barrier Endothelial Cells

James. R. Connor

LBA19

Descending serotonergic modulation of primary sensory neurons through 5-HT_{3A} receptors

Elizabeth S. Silagi

LBA20

Citrate Production is Modulated by L-lactate and GPR27 agonists in 3T3 cells and astrocytes

E. Sanjković

LBA21

Shining a Light on Dopamine Dynamics with Novel dLight 3.0 Sensors

Erin Scott

LBA22

EVALUATION OF THE ROLE OF 6-PHOSPHOFRUTOKINASE-2/FRUCTOSE 2,6 BIPHOSPHATASE IN THE GLIOBLASTOMA PROGRESSION

Lima, Flavia

LBA23

Hippocampal cellular aberrations and decrease in arborization and synaptic density induced by prenatal kolanut consumption in Sprague Dawley rat offspring

Foluso A. Atiba

LBA24

Oligodendrocyte dysfunction drives human cognitive decline

Georgina A Craig

LBA25

TFEB coordinates mitochondrial metabolism to promote Schwann cell-mediated nerve regeneration.

Hana Choi

LBA26

Mouse models of Duchenne muscular dystrophy reveal novel roles for dystrophin isoforms in oligodendrocyte development and myelination

Holly Colognato

LBA27

Alterations in RBM47 Expression and Nrf2 Activity in the Hippocampus Following Time-Dependent Melatonin Administration

Hye-Sun Lim

LBA28

GABA transport in astrocytes is implicated in the regulation of cortical EEG phenotypes and behaviors in mouse model of Fragile X Syndrome.

Iryna M. Ethell

LBA29

Cortical layer-specific density changes of interneuron subtypes in dementia progression

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Development of next generation probes for correlative light and electron microscopy

Isabelle Cuthbert

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Medeiros, Isabelle

LBA32

TET3-mediated regulation of hippocampal neuronal morphology

James M. Kina

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Chemogenetic control of Schwann cell development and myelination

Jazmin G. Corral

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Cortical Circuit Alterations and Activity-Dependent Molecular Changes in a Mouse Model of Autism

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Regulation of local translation: a novel role for sarm1 in axon degeneration

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Elevated expression of PMP2 promotes myelin formation

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Levels of circulating apolipoprotein E are altered in COVID-19 patients

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HIV-1 Transgenic Oligodendrocytes Exhibit Impaired Differentiation and Altered Lipid Metabolism

Junyoung Shin

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Kamelija Horvatović

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Rapid Activation of Neurogenesis and Mitotic Gene Networks During Interbout Arousal in Hibernating Arctic Ground Squirrels

Drew KL

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ALTERING EXTRACELLULAR MATRIX CATABOLISM TO PREVENT WHITE MATTER VASCULAR BRAIN INJURY AND COGNITIVE DECLINE IN PATIENTS WITH ALZHEIMER'S DISEASE

Larry S. Sherman

LBA42

Validation of Proteins Involved in the Insulin Receptor Beta Subunit Pathway from Astrocyte Enriched Brain Samples of Overexpressed Insulin Mice.

Leopoldine Galopin

LBA43

Investigation of Boldine and Novel N-Phenyl Acetamide Using Network Pharmacology, Molecular Dynamics, Docking, and In Vivo Agonist-Antagonist Models for the Treatment of Major Depression via Modulation of 5-HT₂ and 5-HT₃ Receptors

Likhith Akotkar

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Lucrezia Romana Rolfi

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A high-resolution in vivo drug screen identifies novel regulators of axon diameter growth in the CNS of zebrafish

Maria A Eichel-Vogel

LBA46

Pathogenic LRRK2 causes age-dependent and region-specific deficits in ciliation, innervation and viability of cholinergic neurons

Marie L. Mather

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PROTEOME SIGNATURE OF ALZHEIMER-LIKE PHENOTYPES IN FRONTAL CORTICES FROM YOUNG AND OLD INDIVIDUALS WITH DOWN SYNDROME

M. Perluigi

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Effect of neurodevelopmental disorder associated G3BP1 mutations on stress granule assembly and function.

Meghal Desai

LBA49

Comparative Analysis of Single Cell Transcriptomes in Preclinical Models of Multiple Sclerosis (MS) and MS Tissue

Meghan R. Bullard

LBA50

Synaptic plasticity during fear memory destabilization/reconsolidation is affected by acute stress

Melisa Riva Gargiulo

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Astrocytic and vascular changes associated with neocortical vulnerability in Alzheimer's disease

Merina T. Varghese

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Regulation of glutamate-ammonia metabolism through astrocytic Hippo-YAP pathway

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Fine structure of the para-axon initial segment of the Purkinje cells in aged mouse

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Shalaby M

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Nezha Bouhaddou

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Iron metabolism in astrocytes: Implications for neuroinflammation and demyelination in a mouse model of multiple sclerosis

Pablo M. Paez

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Progranulin deficiency in microglia and its impact in neurodegeneration

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Exocytosis of ATP in astrocytes regulates amyloid-beta pathology

Qian Huang

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Effects of Vitamin B12 on synthesis of D-serine and myelin proteins in NSC-34 motor neuron-like cells

Ritsuko Fujii

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Astrovascular coupling in awake 5xFAD mice: relationship to ambulation status, calcium, sex, and aging

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The human vermiform appendix is a reservoir for aggregation-prone alpha-synuclein proteoforms

Zameer S

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Shruti Ghumra

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Sophiya Sims

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Osteopontin-mediated modulation of dopaminergic circuits in NeuroHIV: Insights from humanized mouse models

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Mechanisms associated with impairments in trafficking and activity of glucose transporter 1 in astrocytes: Implications for Alzheimer's disease

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Interactions of Quinone Derivates with Human Organic Cation Transporters 1-3 and Plasma Membrane Monoamine Transporter: Implications for Antimalaria Drug Pharmacokinetics

Thomas J. F. Angenoorth

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ANTISEIZURE DRUGS FOR NEUROPROTECTIVE PROPHYLAXIS AGAINST TRAUMATIC BRAIN INJURY

Tiffany M. Rodriguez

LBA71

Cell-Penetrating Peptides Improve Efficacy of Exendin-4 Treatment Following Photothrombotic Stroke Model

Todd C. Peterson

LBA72

Chemogenetic manipulation of oligodendrocyte development and function

Veronica T. Cheli

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MICRO-RNA BASED GENE THERAPY TO PROMOTE NEUROPROTECTION AND AXON REGENERATION IN THE CENTRAL NERVOUS SYSTEM

Victor Ulysses de S. Matos

LBA74

Non-mutated human tau stimulates Alzheimer's disease-relevant neurodegeneration in a microglia-dependent manner

Wei Cao

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Neuron-specific NF- κ B activation attenuates neurodegeneration during experimental autoimmune encephalomyelitis

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PAK1 and its Kinase Activity Regulates OPC Proliferation and Repopulation During Development and After Demyelination

Yan Wang

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Repetitive stimulation modifies network characteristics of neural organoid circuits

Yoshiho Ikeuchi

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Modulatory effects of GLT-1 enhancer, MC-100093, on glutamate uptake and associated signaling pathways in female and male alcohol preferring rats exposed to ethanol

Youssef Sari

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A novel degradative pathway in lysosomes and its implication to neuronal diseases and their treatment

Yuuki Fujiwara

LBA80

Lanthionine ketimine ethyl ester induces oligodendrocyte progenitor cell maturation mediated by collapsin response mediator protein 2.

Zane Deliu