

Poster Session B

B01 - Gene regulation & genetics

B01-01

Chromatin Regulator Ankrd11, Associated With Neurodevelopmental Disorders, Regulates Cortical Gliogenesis

Kara Goodkey

B01-02

Regulatory Roles of Eugenol in Paraquat-Altered SNCA/LZTS3/MAPT in the Cerebellum of Wistar Rats

Obinna Uchewa

B02 - Signal transduction & synaptic transmission

B02-01

Influence of Hearing Aid Usage on Neural Plasticity in Geriatric Auditory Brainstem

Mohammad Shamim Ansari

B02-02

Unlocking the Potential of Partial Efficacy: A Novel Insight Into Monoamine Neurotransmitter Transporters

Mohammad Nazmul Islam

B02-03

Binding of Steroid Ligands to Muscarinic Receptors Detected by Fluorescence Quenching

Nikolai Chetverikov

B02-04

Regulation of CREB Phosphorylation by Dopamine or Forskolin in Early Chick Retina

Development

Roberto Paes-de-Carvalho

B02-05

Role of a Cannabis Extract in 2-Arachidonoylglycerol Metabolism Regulation During

Physiological Aging

Sabrina Rosicler Salas

B03 - Neuroinflammation & neuroimmunology

B03-01

Brain–Gut Crosstalk: How the Immune System and Gut Microbiota Are Linked in Experimental Stroke

Junjie Guan

B03-02

Efficacy and Potency of Novel Pyrimidine-Based Inhibitors of Ecto-5' Nucleotidase/CD73 in Primary Astrocytes In Vitro

Katarina Mihajlovic

B03-03

The Inflammasome Inhibitor MCC950 Decreases Neuroinflammation in a Mouse Model of Pediatric Neurodegeneration

Kathryn Sanchez

B03-04

Sphingosine Kinase 2 Inhibition in High-Fat Diet-Fed Mice Ameliorates Obesity-Induced Neuroinflammation

Lotte Vanherle

B03-05

Eprosartan With Diosgenin Impedes Multi-Organ Dysfunction Following Traumatic Brain Injury in Mice: Synergistic Approach

Manisha Thakur

B03-07

| In Vitro Interactions Between Amyloid- β and NLRP3 Inflammasome Proteins

Michael Nichols

B03-08

Organotypic Brain Slice Cultures to Model Glial Cell Responses in the Pediatric Neurodegenerative Disease CLN2

Miriam Domowicz

B03-09

Activation of TLR4/MyD88/NF- κ B Pathway Regulates Inflammation in Cypermethrin-Induced Parkinsonism

Mohd Faizan

B03-10

The Role of Glial Cells in Neuroinflammation in the Context of Alzheimer's Disease

Rafaella Ferreira

B03-11

Unraveling the Variable Penetrance of Inflammatory Gene Signatures into Adjacent Brain Parenchyma in Meningeal Inflammation

Saumitra Singh

B03-12

IL-6 as a Therapeutic Target for the Treatment of TBI

Shradha Suresh

B03-13

Sex-Specific Transcriptional Alterations in Midbrain Following Maternal Immune Activation and Estrogen Receptor Modulation

Sophie Debs

B03-14

Neuroprotective Role of CNS-Active Antidotes in Mice Exposed to Organophosphate Compounds

Zrinka Kovarik

B04 - Molecular basis of disease

B04-01

REST Dysregulation and Neuropathogenesis in Down Syndrome

King-Hwa Ling

B04-02

High-Fat Diet Alters Stroke-Associated S1P Responses

Lisa Teresa Porschen

B04-03

microRNA-29a as a Potential Biomarker of Heritability of the Depressive-Like Phenotype and Response to Ketamine Treatment

Lucas dos Santos da Silva

B04-04

Perturbed Cholesterol Metabolism and Cytoskeletal Reorganization in Nerves and Glial Cells From Trembler J Mice Modeling CMT1E

Lucia Notterpek

B04-05

Sodium Propionate: Key Metabolite for Alleviating Depressive-Like Behavior via Gut Microbiome and Neural Epigenetic Modulations

Luiza Behrens

B04-06

Targeting the Endocannabinoid System in Binge Eating Disorder: Efficacy of Oleoylethanolamide Derivatives in a Preclinical Model

Marialuisa Francesca de Ceglia

B04-07

Pathophysiological Consequences of Middle Domain DNM1 Mutations

Marie Pronot

B04-08

Exploring the Potential Neuroprotective Properties of Fungi Living in Extreme Environments in a Cell Model of Alzheimer´s Disease

Matías Lantadilla

B04-09

Mitochondrial DNA Mutations Impact Bioenergetics and Neuronal Differentiation in Autism: Insights From a Cybrid Model

Merlin Jeejo

B04-10

Investigation of CYP46A1 and Cholesterol Homeostasis as a Therapeutic Target for Rett Syndrome Phenotypes in Mecp2-Mutant Mice

Nasim Khatibi

B04-11

Molecular Clock and Circadian-Driven Neuroinflammatory Markers Profile in Early Developmental Dravet Syndrome Mouse Model

Radharani Benvenuto

B04-12

Gene Network Linked to Environmental Enrichment Predicts Human Mental Health

Randriely Merscher Sobreira de Lima

B04-13

LKB1 Deficiency in Astrocytes: Disruption of Pantothenate Kinase and Promotion of Ferroptosis

Rebecca Alemani

B04-14

GABAergic Dysfunction Underlies Tau-Dependent Sleep Loss But Is Rescued by Targeting Beta Activity With Zolpidem

Riley Irmen

B04-15

Therapeutic Exploration of γ PNA-141: Unlocking Mechanisms and Pharmacodynamic Effects in Ischemic Stroke Rehabilitation

Sanjeev Kumar Yadav

B04-16

Newborn Reactions to Maternal Prenatal Stress Alter Umbilical Cord Blood tRNA Fragments Targeting Cholinergic Transcripts

Shani Vaknine Treidel

B04-17

Modulation of α 7nAChR, Neuroinflammation, and BDNF-Mediated Neurotrophic Signaling Prevent Neuropathology in Alzheimer's Disease

Shivanshu Bajaj

B04-18

Stress Induces Alteration in the Expression of Neuronal HSP70 and HSP40 Chaperones

Siraj Fatima

B04-20

microRNAs Modulating Insulin Resistance: A Shared Pathway in Alzheimer's Disease and Metabolic Syndrome

Tehniat Faraz Ahmed

B04-21

Molecular Pathogenesis of Juvenile ALS: Dissecting the Impact of the E102Q SIGMAR1 Variant on Cellular Homeostasis and Autophagy

Vina Banouvong

B05 - Brain development & cell differentiation

B05-01

Risperidone Administration in Rats with Perinatal Brain Injury Impairs Brain Development and Induces Inflammation

Lauren Jantzie

B05-02

GFAP Expression in the Brain During Human Postnatal Development

Lauren Luijck

B05-03

Untangling the Intricate Networks Shaped by d-Aspartate in the Developing Brain

Raffaella di Vito

B05-04

Mast Cells as Central Mediators of Neuroimmune Interactions During Physiological and Pathological Neurodevelopment

Raissa Rilo Christoff

B05-05

Selective Complement Lysis Vulnerability of Neural Stem Cells and Multipotential Progenitors in a Germinal Matrix Hemorrhage Model

Rebecca Zaritsky

B05-06

Impaired Sulfation of Heparan Sulfate Proteoglycans Compromises GnRH Neuron Development by Modulating VEGF Signaling

Roberto Oleari

B05-07

The Effect of Cannabidiol Activation of CB1 Receptor on the Prenatal VPA-Induced Anxiogenic Activities in Amygdala of Male Mice

Roseline Udodi

B05-08

Crosstalk Between the CSF and Embryonic Stem Cell Niche

Ryann Fame

B05-09

Levels of Microglial Trem2 Program Synaptic Pruning and Hippocampal Function in a Mouse Model of Early Adversity

Sahabuddin Ahmed

B05-10

Maternal Folic Acid Supplementation Improves Disrupted Neocortical Development in a Forebrain-Specific Cited2 Knockout

Sara Brigida

B05-11

GluN2A-Dependent Ionic Currents and Calcium Signaling in Human iPSC-Derived Neurons

Sergio Escamilla

B05-12

Non-Cooperative Roles of GPM6a and Neuroplastin in Neurite Outgrowth and Filopodia Formation

Camila Scorticati

B06 - Bioenergetics & metabolism

B06-01

Metabolism of Dendrimer-Conjugated *N*-Acetyl Cysteine Shows Multiple Neuroprotective Responses in a Rabbit Model of Cerebral Palsy

James Sowers

B06-02

Modulation of NAD⁺ and NADH Contents in Cultured Astrocytes

Johanna Elisabeth Willker

B06-03

Study of the Central Actions of the LEAP2 Peptide

Lucia Giovanini

B06-04

CD38 Role in Mitochondrial Metabolism in the Dorsal Root Ganglion

Marina Chichierchio

B06-05

Differential Effects of Itaconate and Its Esters on the Glutathione and Glucose Metabolism of Cultured Primary Rat Astrocytes

Patrick Watermann

B06-06

Single Nucleotide Polymorphisms of the Astrocytic Excitatory Amino Acid Transporter 2 Are Associated With Brain Glucose Metabolism

Roberta Oliveira

B06-07

Comparative Analysis of Primary and iPSC-Derived Microglia Metabolism Dysregulated by A β Exposure

Seong-Hun Bong

B06-08

Repeated Head Injuries Progressively Promote Functional and Metabolic Impairments in Mice

Vitória Girelli de Oliveira

B06-09

Neurons Carrying Frontotemporal Dementia-Related MAPT Mutation Exhibit Perturbed Bioenergetics

Yan Tong

B07 - Neuronal plasticity & behavior

B07-01

The Role of mTORC1-Dependent Protein Translation During Memory Consolidation in the Neocortex

Kinga Konkel

B07-02

Investigating a Role for Netrin-1/ DCC Signaling in Excitatory Homeostatic Synaptic Upscaling

Kira Feighan

B07-03

Cocaine-Induced Alterations in LDT-NAc Neuronal Activity and Connectivity

Leandro Aguiar

B07-04

Negative Affective State in Mice After the Interruption of Chronic Ethanol Drinking Plus a Single Intraperitoneal Administration

Leon Condat

B07-05

AMPA Expression is Modified by GluN2A Silencing in Mature Neurons

Maria Florencia Acutain

B07-06

Modulation of Neuronal Plasticity in BDNF Met Prodomain Carriers in Stress and Cocaine Comorbidity

Maria Julieta Boezio

B07-07

Sex-Specific Impact of Sigma-1 Receptor Deletion on CA1 Neuronal Excitability and Behavior

Mathieu Lapalme

B07-09

Mechanisms of Restraint Stress and Heavy Metals Co-Exposures: Cognitive Impairment, Oxidative Stress, and Neuroinflammation

Oritoke Okeowo

B07-10

Enhancement of Synaptic Plasticity and Learning Mediated by Dopaminergic Activation of Hippocampal Astrocytes

Rafael Falcon Moya

B07-11

Re-Activation of a Cocaine Ensemble but Not a Shock Ensemble in the Nucleus Accumbens Controls Behavioral Preference

Raquel Correia

B07-12

Decreased Memory After e-Vapour (Nicotine) Is Associated With Altered Hippocampal Nicotinic Receptors, Apoptosis, and Microglia

Rita Machaalani

B07-13

Alterations in Hippocampal Long-Term Depression and Spatial Memory Induced by Elevated Perinatal Interleukin-6

Rouba Y. Houbeika

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Effects of GluN2A Knockdown on Spatial Memories and Social Behavior

Maria Verónica Baez

B07-15

Naringin Mitigates Cognitive Deficits in Chronic Stress by Modulating Synaptic Plasticity via G-Protein and BDNF/TrkB Pathways

Vivian Ojiakor

B07-16

The Microtubule-Associated Protein Tau Controls the Homeostasis of Glutamate-Type Receptors in Mammalian Central Neurons

Xuan Ling Hilary Yong

B07-17

Involvement of $\alpha 7$ Nicotinic Acetylcholine Receptor in Social Behavior Impairments in Juvenile Mice Exposed to Social Defeat Stress

Yukihiro Noda

B07-18

Aged Garlic Extract Supplementation Improves Cognitive and Memory Function and Alters Multi-Functional Molecular Clusters

Zezong Gu

B07-19

Ethanol's Effects on Memory Consolidation: Exploring the Role of $\alpha 7$ Nicotinic Acetylcholine Receptors

Verónica Pastor

B09 - Glia and neuron-glia interactions

B09-01

Molecular Composition of Endogenous Glutamate-Permeable LRRC8 Channels in Mouse Astrocytes

Madison Chandler

B09-03

Disruption of Immune Homeostasis Mediates Neural and Behavioral Alterations Induced by Cocaine

Maria Carolina Machado da Silva

B09-04

The HIV-1 Transgenic Rat Brain Exhibits Disrupted Myelin Lipids

Marisa Jeffries

B09-05

Aging-Induced Morphological and Molecular Changes in Astrocyte–Endothelial Interactions

Michele Siqueira

B09-06

Investigating the Role of Astrocytic Autophagy Within Central Nervous System (CNS) and Amyotrophic Lateral Sclerosis (ALS)

Nirma Perera

B09-07

Connecting Intercellular Endocytosis With Astrocyte Extracellular Vesicles via Gap Junctions

Randy Stout

B09-08

White Matter Secondary Injury and 4-Aminopyridine (4AP) Beneficial Effect Informed by Spatial Transcriptomics in Experimental TBI

Regina Armstrong

B09-09

Role of Neuroinflammation in AD: In Vivo Characterization of 3xTg-AD Mice Through PET/MRI, Histological and Behavioral Studies

Rosina Dapuzo

B09-10

Role of Sphingolipids in Fractalkine Mediated Myelin Repair

Sara Grassi

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Targeted Polysomal mRNA Reveals Satellite Glial Cells-Specific Translatome Changes During Urological Chronic Pelvic Pain Syndrome

Sathish Kumar Yesupatham

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Glial Neurotransmitter Transporter Regulation in Retinal Müller Cells: Role in Excitotoxicity

Temitayo Subair

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CD11c Microglia Enhance Oligodendrocyte Differentiation Through Insulin-Growth Factor 1 (IGF1) and Osteopontin Co-Signaling

Teshawn Johnson

B09-14

Deciphering the Role of Astrocytic Insulin Receptor Overexpression on Vascular Dynamics and Gait in an Amyloidosis Model

Ting-Hsuan Lu

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Endothelin-1 Inhibits Neural Stem Cell Gliogenesis in the Adult Brain Following Demyelination

Veronica Vanoverbeke

B10 - Neurodegeneration and neuropsychiatric disorders

B10-01

Study of the Pro-Solubilizing Effect of a Short Androgen Receptor Isoform to Disrupt Mutant Androgen Receptor Toxicity in SBMA

Marta Chierichetti

B10-02

Stearoyl-CoA Desaturase Inhibition Leads to Hippocampal Fatty Acid Normalization and Improved Dendritic Spine Density in 5xFAD

Marta Turri

B10-03

Early TGF- β 3 Gene Therapy and Neuroinflammation: Therapeutic Potential for Motor and Non-Motor Impairments in Parkinson's Disease

Matías Jávega Cometto

B10-04

Effects of rTMS on Neurodegeneration, Neuroinflammation, and Purinergic Signaling in a 6-OHDA Parkinson's Disease Model

Milica Zeljkovic Jovanovic

B10-05

***Rauvolfia vomitoria* Extracts Relieve Swiss Mice Against Pentylentetrazol-Induced Seizure and Protect Temporal Lobe Structures**

Moses Ekong

B10-06

Using Inhibitory Chemogenetics to Reduce Cortical Hyperexcitability in Amyotrophic Lateral Sclerosis

Mouna Haidar

B 10-07

The Role of Polyamines in Modulating Alpha-Synuclein Aggregation: Insights from Physiologically Relevant Conditions

Nan Wang

B10-08

Severity of Sleep Loss Does Not Correlate With A β Plaque Load

Nicholas Constantino

B10-09

Cognitive Deficits, Amyloid Pathology, and Microglial Homeostasis Are Restored by Metformin in Experimental Alzheimer's Disease

Nicolas Gabriel Gonzalez Perez

B10-10

Neuroinflammation, Oxidative Redox Imbalance Drive Memory Dysfunction in Adolescent Rats Prenatally Exposed to *Datura stramonium*

Olawande Bamisi

B10-11

Homocysteine Impairs Glucose Uptake via Akt/GSK3 β /GLUT1 Pathway in Hippocampus: Neuroprotection by Rivastigmine and Ibuprofen

Osmar Vieira Ramires Junior

B10-12

Dissecting Cariprazine's Mechanism of Action Combining Fluo-Cariprazine Binding, mRNA In Situ Hybridization and Electrophysiology

Ildiko Pal

B10-13

Assessing the Therapeutic Potential of GPER1 Activation With a Focus on Sex Differences in Mood and Anxiety Disorders

Pavlina Pavlidi

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Iron Overload Drives Oligodendrocyte Lineage Cell Death in White Matter Degeneration in Aging Brains

Philip Adeniyi

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Neurochemical Changes May Explain Improved Outcomes in a Huntington's Disease Model

Priscilla Welter

B10-16

Characterization of Oligodendrocytes in X-linked Dystonia Parkinsonism

Priya Prakash

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Low Dose Ketamine Induces Unique Molecular And Cellular Responses in the Brains of Alzheimer's Disease Mouse Models

Ricardo Lima-Filho

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Enduring Behavioral Effects of Developmental Vitamin D Deficiency in a Rodent Model: Implications for Autism Spectrum Disorder

Roana Liz George

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Therapeutic Potential of *Elateriospermum tapos* Yoghurt for Cognitive Impairments and Anxiety-Like Behavior

Ruth Naomi Manuel

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Chronic Mitochondrial Insult Causes Parkin Inactivation and Aggregation: Protection by Methylene Blue

Safreena Narukkottil

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Widespread Mitochondrial and Cytoplasmic Dysfunction Due to Mutant Ataxin-1 Expression in Models of Spinocerebellar Ataxia Type 1

Sarita Lagalwar

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Targeting Neurogenesis as Therapeutic Potential to Delay Alzheimer's Disease rogression by Regulating the Wnt/ β -Catenin Pathway

Sarosh Farooq Khan

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Neuroprotection of *Combretum molle* Extract on Aluminum Chloride and d-Galactose- Induced Zebrafish Model of Alzheimer's Disease

Thandi Fasemore

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Astrocytic Activation Induces Cognitive Enhancement and A β Plaques Shrinkage in an Alzheimer's Mouse Model

Tirzah Kreisel

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Pumilio-1 Haploinsufficiency Exacerbates Secondary Brain Damage After Ischemic Stroke

Vijay Arruri

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vATPase Dysfunction in Parkinson's Disease

Violetta Ivanova

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Interplay of Serum Lipids and Microglia in the Susceptibility to the Long-Term Behavioral Effects of Adverse Childhood Experiences

Weronika Tomaszewska

B10-28

Pathological Products of Alzheimer's Disease Disrupt the Transcription of Circadian Clock Related Genes

Xuanyu Huang

B10-29

Effects of Cannabidiol-Enriched *Cannabis* sp. Extract in a 6-Hydroxydopamine Parkinson's Disease Model

Yolanda Paes-Colli

B10-31

Crtac1B/LOTUS Improves Synaptic Dysfunction and Cognitive Impairment in Alzheimer's Disease Model Mice

Yuki Kawaguchi

B11 - Intracellular organelles and trafficking

B11-01

Presynaptic Protein Synthesis and Sorting Mechanisms in Developing Human iNeurons

Julia Riedlberger

B11-02

Extracellular Vesicles Derived From the Brains of Alzheimer's Disease Patients Induce Cognitive Impairment in Mice

Lisandra Silva Pinheiro

B11-03

Cocaine-Induced Disruption of Endosomal Recycling: A Novel Mechanism in psychostimulant Addiction

Sara-Maude Belanger

B12 - Stem Cells and regeneration

B12-01

miRNA-Mediated Regulation of Neuronal Regeneration Following Peripheral Nerve Injury

Maria Peteinareli

B12-02

Inhibition of G3BP1 Granules Promotes Mammalian CNS and PNS Axon Regeneration

Pabitra Sahoo

B12-03

Impact of Novel Multimodal Compounds on Neurogenesis Using an In Vitro Neurosphere Model

Sara Xapelli

B13 - Lipids and glycobiology

B13-01

Synaptic Lipidomic Changes in Parkinson's Disease

Julita Chlebowicz

B13-02

Oral L-Serine Rescues Neuropathic Behaviors Caused by Toxicity of 1-Deoxysphingolipids

Susana Munoz

B15 - Pain / Addiction

B15-01

Neural Correlates of “Incubation of Craving” for Alcohol-Associated Cues

Laisa de Siqueira Umpierrez

B15-02

Behavior and Cellular Effects of Oral Treatment With a Cannabidiol-Enriched Extract in Rats With Chronic Neuropathic Pain

Raquel Maria Campos

B15-03

DNA Methylation Analysis of OPRM1, DAT1, and DRD2 Genes in a Drug-Dependent Population of Manipur, India

Reena Haobam

B16 - Other topics

B16-01

In Silico Pharmaceutical Analysis of Naringenin and Carotenoids with Potential Activity Against Alzheimer's Disease

Marisín Pecchio

B16-02

Noradrenergic Dysfunction in AppNL-G- F Mice: Impaired Norepinephrine Metabolism and Compensatory Changes in Alzheimer's Disease

Nurcan Kilic

B16-04

Sex Differences in Adenosine in Sleep Circuitry

Priyansha Dubey

B16-05

**Evaluation of Neuroprotective Effects of Dietary Raw and Roasted Pumpkin Seed
Supplementation in Healthy Rats**

Seun Akomolafe