



ASN 2024 Poster List

Updated on April 14, 2024

Posters in Session 1 (4:30 – 6:00 pm, Monday, April 15, 2024)

P01.001 – Profiling Glial Cell Surface Molecules That Enable the Engulfment of Neurons

Leire Abalde-Atristain, Oregon Health & Science University

P01.002 – Metabolic Rewiring During Remyelination: Stable Isotope Tracing Reveals Increased De Novo Lipogenesis and Identifies Serological Markers of Brain Metabolism

Kayla Adkins-Travis, Washington University In St. Louis

P01.003 – Investigating Lanthionine Ketimine Ethyl Ester's Role in Remyelination and Neuroprotection in the Cuprizone Model of De-remyelination

Intakhar Ahmad, University Of Illinois At Chicago

P01.004 – Metabolomic Profiling of Greenhouse-Grown Cultivars of Centella asiatica, a Herb Touted for Improving Memory and Preventing Cognitive Decline

Md Nure Alam, Oregon State University

P01.005 – Downregulation of Pantothenate Kinase and Upregulation of Pantothenate in Liver Kinase B1 Deficient Mouse Astrocytes

Rebecca Alemani, University of Illinois Chicago

P01.006 – Timecourse of Activity-Dependent Endogenous Opioid Peptide Gene Transcription After Seizures in the Mouse Hippocampus

Ashley Anderson, Oregon Health and Science University

P01.007 – Targeted Overexpression of Cyclooxygenase-2 in the CA3 Region of the Hippocampus Is Sufficient to Suppress Global Hyperexcitation in the Brain

James Hewett, Syracuse University

P01.008 – Chemogenetic Manipulation of Astrocytic Calcium Signaling and Neuroinflammation in Demyelinating Disease

Christina Angeliu, University At Buffalo

P01.009 – The Guidance Cue Receptor, PlexinA1, Plays Differential Roles in the Development of the Mouse Embryonic Spinal Commissural Neurons

Adefemi Baderinwa, Rutgers University

P01.010 – Niemann Pick Disease Type C1 Affects the Concentration and Cargo of Extracellular Vesicles in Patient Samples

Sarah Catherine Baker, Oregon Health and Science University

P01.011 – Neuronal Subtype Vulnerability to Microglial-Induced Synapse Loss in Neuroinflammation

Chun-Wei Chen, UMass Chan Medical School

P01.012 – TTYH1 Regulates Autophagy in Astrocytes via Endolysosomal Processing of Neuron-Derived Signaling Lipids

Jagannatham Naidu Bhupana, Rutgers University

P01.014 – The Effect of Astrocyte Syncytium on Neuronal Excitability and Neurovascular Coupling in the Mouse Cortex

Danica Bojovic, Oregon Health & Science University

P01.015 – Matrix Metalloproteinase-1 and Ninjurin a Govern Glial Responses to Neurodegeneration

Cole Brashaw, Oregon Health & Science University

P01.016 – Maintenance of Engrafted Human OPC Fate via Lentiviral Noggin Expression in a Rabbit Model of Chronic Demyelination

Gregory Buck, University At Buffalo

P01.017 – Lack of Functional Hippocampal Mossy Cell Inputs Accelerates Adult-Born Dentate Granule Cell Maturation

Corwin Butler, Oregon Health & Science University

P01.018 – Punishment-Associated Compulsive Methamphetamine Intake and Abstinence Are Associated With Differential Hydroxymethylation of miRNAs in the Nucleus Accumbens of Rats

Jean Lud Cadet, Molecular Neuropsychiatry Research Branch, NIDA

P01.019 – Modified Excitability and Locomotor Behavior in Mice With Conditional Deletion of the Anion Channel Subunit LRRC8A in Interneurons

Madison Chandler, Albany Medical College

P01.020 – Pediatric OSA and Stem Cell Function

Arvind Chandrakantan, Texas Childrens Hospital/Baylor College of Medicine

P01.021 – Characterization of A β and Phosphorylated Tau Changes Across the Gut-Brain Axis of AD and Control Individuals

Sathiya Chandrasekaran, University of North Dakota

P01.022 – Exploring the Mechanisms of STX, a Novel Estrogen Receptor Modulator That Protects Against Amyloid-Beta Neurotoxicity in Alzheimer's Disease Models

Philip Copenhaver, Oregon Health & Science University

P01.023 – Calcium Signaling in Schwann Cells Development and Myelination

Jazmin Corral, University At Buffalo

P01.024 – Discoidin Domain Receptor Signaling Regulates Ensheathment and Caliber of Peripheral Axons

Megan Corty, University of Arizona

P01.025 – B Cell Depletion Reduces Chronic but Not Acute Cognitive Deficits After Prefrontal Stroke in Aged Female Mice

Katherine Cotter, University of Kentucky

P01.026 – The Antiretroviral Drug Dolutegravir Inhibits Oligodendrocyte Maturation In

Vitro

Melanie Cruz Berrios, University Of Pennsylvania

P01.027 – Diminished Tetrahydrobiopterin (BH4) in Multiple Sclerosis and Its Effects on Oligodendrocytes and CNS Myelination

Zaenab Dhari, UConn Health , Trinity Health, Quinnipiac University

P01.028 – Dock1 Functions in Schwann Cells to Regulate the Development, Maintenance, and Repair of the Peripheral Nervous System

Ryan Doan, The Vollum Institute - Oregon Health & Science University

P01.029 – Differential Responses of Reactive Astrocytes to Antagonists of CSF1 Receptor in a CLN2 Mouse Model

Miriam Domowicz, University of Chicago

P01.030 – The Muscle-Brain Axis of Resilience Explored Through Differential Gene Expression in Muscle and Brain of the Hibernating Arctic Ground Squirrel

Kelly Drew, University of Alaska Fairbanks

P01.031 – Senolytic Therapy Maintains BBB Integrity, Alleviates Cerebral Hypometabolism and Stabilizes Microglia Homeostatic Subtype in the PS19 Mouse Model

Wenzhen Duan, Johns Hopkins University School Of Medicine

P01.032 – Harnessing Spatial Transcriptomics to Investigate the Intersection of Senescence and Inflammation in Neurodegeneration

Violeta Duran Laforet, University Of Massachusetts Chan Medical School

P01.033 – Investigating PC12 Cell Differentiation to Sympathetic Neuron-Like Phenotype Through Single-Cell Proteomics Analysis

Arpa Ebrahimi, Oregon State University

P01.034 – Oligodendrocyte-Derived Carnosine Protects the CNS From Lipid Peroxidation

Benayahu Elbaz, Northwestern University

P01.035 – Will Chronic Inhibition of Dual Leucine Zipper Kinase (DLK) Be Neuroprotective and Restore Neuronal Function in Aged-Demyelination?

Katie Emberley, Oregon Health & Science University

P01.036 – Investigating Astrocyte Endfoot Formation Dynamics During Development and Across Species

Raja Estes, Oregon Health & Sciences University

P01.037 – Impact of Sound Repetition Rate on Cortical Development and Behaviors in Young Fmr1 KO Mice

Iryna Ethell, University of California, Riverside

P01.038 – Global Cerebral Ischemia Decreases Dendritic Spine Density, Increases Microglial Reactivity and Microglial/Synapse Co-localization in a Mouse Model of Cardiac Arrest

Macy Falk, University Of Colorado Anschutz Medical Campus

P01.039 – Efforts to Mitigate Neurodegeneration in a Model of Traumatic Optic Neuropathy

Micah Feri, University of California, Riverside

P01.040 – The Effect of Neonatal Intermittent Hypoxia on Brain Lipid Metabolism

Regina Fernandez, Johns Hopkins University/Kennedy Krieger Institute

P01.041 – TRPML1 Modulates the Oligodendrocyte Cytoskeleton via Rac1

Lindsay Festa, University of Pennsylvania

P01.042 – Modeling Phenotypic Onset in a Human iPSC Model of CLN3 Batten Disease

Amelinda Firdauzy, Simon Fraser University

P01.043 – A Conserved Stress Response Associated With Dark Microglia Drives Neurodegeneration in Alzheimer's Disease

Anna Flury, Cuny Graduate Center

P01.044 – ProNGF Elicits Retrograde Axonal Degeneration of Basal Forebrain Neurons via p75NTR and Induction of APP

Wilma Friedman, Rutgers University

P01.045 – Therapeutic Potential of Targeting Heparan Sulfate Proteoglycan Sulfatases in an EAE Demyelination Model

Farah Gadelkarim, University at Buffalo

P01.046 – Altered Activation in the Dentate Gyrus of Seizure-Prone CACNA2D2 Knockout Mice

Ashlynn Gallagher, Oregon Health And Sciences University

P01.047 – Mitochondrial Functional Assays in a Canine Survival Model of Hypothermic Circulatory Arrest

Bruno Gallo, Johns Hopkins / Kennedy Krieger Institute

P01.048 – Chemogenetic Manipulation of Astrocyte Functions During Postnatal Brain Development

Karissa Garbarini, State University Of New York at Buffalo

P01.049 – Centella asiatica Alters Cognition in Aged Male and Female Mice, and Anxiety and Plasma GABA and Corticosterone Only in Females

Nora Gray, Oregon Health & Science University

P01.050 – RNA Sequencing Identifies Sex-Related Differences in Transcriptional Signatures in the Female and Male Control Rats

Vaibhav Gujar, National Institute On Drug Abuse

P01.051 – Transgenic Mouse Models to Define the Role of Microglia in Glioblastoma (GBM) Progression

Payton Haak, University of Illinois

P01.052 – Delayed Phospho-BTK Inhibition Reduces the Reactive Phenotype of Microglia and Oligodendrocytes and Improves Myelin Structure After Stroke in Neonatal Mice

Isabela Harmon, OHSU

P01.053 – Characterizing Microglial Dynamics During White Matter Ischemic Injury: An Age and Sex Dependent Response

Isabela Harmon, OHSU

P01.054 – Effects of Neonatal Ethanol Exposure on Prefrontal Cortex Astrocyte Gene Expression In Vivo

Joel Hashimoto, Oregon Health & Science University

P01.055 – Receptor-Mediated Activation of G12/13 Signaling in POMC Neurons Regulates Key Metabolic Functions

Dhanush Haspula, NIH

P01.056 – What Regulates the Morphogenesis of Astrocytes?

Dongeun Heo, Vollum Institute, OHSU

P01.057 – Examining the Role of α VCAM-1 in Attenuating the Neuroinflammatory Response in High-Fat Diet Mice After Stroke

John Holsten, UNCW

P01.058 – Elucidating Downstream Pathways of the Soluble Amyloid Precursor Protein and GABAB Receptor Interaction

Samah Houmam, The University of Oklahoma Health Sciences Center

P01.059 – PAK2 Is Necessary for Myelination in the Peripheral Nerve System

Bo Hu, Houston Methodist Hospital

P01.060 – The Role of Inflammatory Oligodendrocyte Lineage Cells in CNS Demyelination

Jingwen Hu, Johns Hopkins Medicine

P01.061 – Exocytosis of ATP in Astrocytes Regulates Amyloid-Beta Pathology

Qian Huang, New York Institute of Technology College of osteopathic medicine

P01.062 – Investigating the Utility of iPSC-Derived Choroid Plexus Organoids to Yield Fluid Biomarkers in SCA1 Disease Modeling

Negin Imani Farahani, Simon Fraser University

P01.063 – Parabrachial Extended Amygdala Circuit Activity Is Heightened Following Repeated Stress

Anel Jaramillo, University of Kentucky

P01.064 – How Do Glia Regulate Synapse Development?

Taylor Jay, Oregon Health & Science University

P01.065 – Myelination and Lipid Metabolism in the Adolescent HIV-1 Transgenic Rat

Brain

Marisa Jeffries, Children's Hospital of Philadelphia

P01.066 – Circadian Alignment of Intermittent Fasting Is Crucial for Cerebral Ischemic Tolerance

Soomin Jeong, University of Wisconsin-Madison

P01.067 – Tweek-Dependent Formation of ER-PM Contact Sites Enables Astrocyte Phagocytic Function and Remodeling of Neurons

Yunsik Kang, Vollum Institution OHSU

P01.068 – Defining the Role of B-raf and mTOR Signaling in Spinal Cord Oligodendroglia

Divyangi Kantik, Rutgers-New Jersey Medical School

P01.070 – Investigation of Cyp46a1 and Cholesterol Homeostasis as a Novel Therapeutic Target for Rett Syndrome Phenotypes in Mecp2-Mutant Mice

Nasim Khatibi, Syracuse University

P01.073 – Neuroprotective Properties of the Methyl Donor Betaine in EAE

Katherine Knies, Kent State University

P01.074 – Anti-PLP1 IgG1 Cloned From Patients With Multiple Sclerosis Impedes Oligodendrocyte Differentiation and Induces Myelin Pathology Independently of Demyelination

Andrew Lapato, University of Colorado School of Medicine

P01.075 – Elucidating Interactions Between Triggering Receptor Expressed on Myeloid Cells 2 and Apolipoprotein E in Microglial Activation With Molecular Dynamics Simulations

Emma Lietzke, University of Colorado, Boulder

P01.076 – Characterization of Neurogenic Fate Decisions in TSC2-/- Induced Pluripotent Stem Cell-Derived Model

Lisa Lin, Simon Fraser University

P01.077 – Respiratory Infection With Influenza A Virus Alters Glial Metabolism

Allison Louie, University of Illinois at Urbana-Champaign

P01.078 – Respiratory Infection With Influenza a Virus Delays Remyelination Following Cuprizone-Induced Demyelination

Allison Louie, University of Illinois at Urbana-Champaign

P01.079 – Mice Carrying a Novel NAMPT Mutation Exhibit Metabolic Impairments

Samuel Lundt, University of Missouri

P01.080 – Analysis of Senescent Cell Development and Depletion in Mice After Experimental Autoimmune Encephalomyelitis (EAE) Induction

Zeeba Manavi, Georgetown University

P01.081 – Genetic Pathways That Drive Axon Loss

Ernesto Manzo, OHSU

P01.082 – The Role of Aurora B Kinase in the Development of Neuron Dysfunction in Amyotrophic Lateral Sclerosis

Sarah Martin, University Of Illinois At Chicago

P01.083 – Regional Differences in Oligodendroglial Cholesterol Acquisition and Myelin Lipid Composition

Marie Mather, Rutgers University - New Jersey Medical School

P01.084 – A Novel CD27+CD138+ B Cell Subset Localizes to the Brain in Aged Mice

Annabel McAtee, University of Kentucky

P01.085 – Dissection of Inter-disorder Astrocyte Reactivity Reveals a Novel Astrocyte Subtype That Regulates White Matter Repair

Sarah McCallum, Cedars Sinai Medical Center

P01.086 – Identifying Lanthionine Ketenamine (Ethyl Ester) (Phosphonate) Derivatives for Relative Maturation and Proliferation Effects in OPCs

Zachary McDonald, University of Illinois at Chicago

P01.087 – RNA-Seq of Extracellular Vesicle (EV) RNA Separated From a Small Volume of Human Cerebral Spinal Fluid (CSF)

Trevor McFarland, OHSU

P01.088 – Development and Characterization of a Severe, Dietary Fat-Free Cuprizone

Model of Remyelination

Anna Mcgrath, Sanofi

P01.089 – Th17 Cells Reprogram Astrocytes Through a JAK1 Dependent Process That Contributes to Autoimmune Neuroinflammation.

Gordon Meares, Ohio State University

P01.090 – Müller Glia Glutamate Metabotropic Receptors Regulation Upon Excitotoxic Conditions: Correlation to the Dark Cycle

Yurixy Merari Mendoza Silva, CINVESTAV

P01.091 – Trem2 Mediates Sulfatide Deficiency-Induced Microglia-, but Not Astrocytes-Mediated Neuroinflammation or Lipid Homeostasis Disruption

Namrata Mitra, UT Health Science Center San Antonio

P01.092 – Examining TBI-Induced Astrocyte Heterogeneity Across Spatial and Temporal Boundaries

Josh Morganti, University Of Kentucky

P01.093 – Mild Traumatic Brain Injury Induces an Astrocyte Atypical Response Astrocytes Mediated by Protein Degradation

Carmen Munoz-Ballester, University of Alabama at Birmingham

P01.094 – ER Stress Underlies Altered Cell Fate During Brain Development in a Human Model of the Cortical Malformation Syndrome Tuberous Sclerosis

Shama Nazir, Simon Fraser University

P01.095 – CRISPR Inactivation Strategies for ALS, Charcot-Marie-Tooth, and Other Dominant Neurogenetic Diseases

Zachary Nevin, Gladstone Institutes

P01.096 – CK2 Inhibition Preconditions White Matter Against Ischemia by Differentially Regulating CDK5 and AKT/GSK3 β Pathways

Hung Nguyen, Oregon Health & Science University

P01.097 – The Role of NOX in Post-ischemic Protection of White Matter Against Ischemia

Hung Nguyen, Oregon Health & Science University

P01.098 – Herpes Simplex Virus Type-1 (HSV-1) Accelerates Alzheimer’s Disease Progression: Targeting Vulnerable Brain Regions and Amplifying Neuroinflammation

Christy Niemeyer, University of Colorado, School of Medicine

P01.099 – The mGluR5 Agonist, CHPG, Enhances Differentiation of Developing Human Oligodendrocyte Lineage Cells

Hiroko Nobuta, Rutgers University

P01.100 – Microglial Lipoprotein Lipase Regulates Myelin Processing and Is Elevated in Multiple Sclerosis

Dean Oldham, University of Colorado Anschutz Medical Campus

P01.101 – TFEB Treatment in the Dorsal Hippocampus of Obese Female and Male 5xFAD Mice

Danielle Osborne, Legacy Research Institute

P01.102 – Aligned Nanofibrillar Collagen Scaffolds Promote Repair Schwann Cell Phenotype in Peripheral Nerve Regeneration

Ethan Oseas, Oregon Health and Science University

P01.103 – Region Specific Inflammatory Response in Cerebrovascular Patients

Keith Pennypacker, University of Kentucky

P01.104 – Physiologic, Biomarker and Clinical Outcomes Associated With Ketamine Exposure After Traumatic Brain Injury, a Single Center Retrospective Study

Austin Peters, Oregon Health & Science University

P01.105 – Voltage-Gated Calcium Channels Regulate Developmental Myelination in Oligodendrocytes

Melanie Piller, Oregon Health and Science University

P01.106 – Loss of Carnitine Palmitoyl Transferase 2 (CPT2) Enhances Proliferation Post Traumatic Brain Injury in Adult Mice

Noelle Puleo, Johns Hopkins Medicine

P01.107 – Oxidative Stress Triggers Secretion of Neurotoxic Ceramide-Rich Extracellular Vesicles (CREVs)

Zainuddin Quadri, University of Kentucky

P01.108 – The Impact of Reduced Glial Plasma Membrane Cholesterol on Subcellular Actin Dynamics

Athira R K, University of Nevada, Reno

P01.109 – Store-Operated Calcium Entry-Dependent Signaling in Adult OPCs Acts to Delay Oligodendrocyte Differentiation Following Demyelination

Roopa Ravichandar, University at Buffalo

P01.110 – The Function of Sex-Specific Extracellular Vesicles in the Pathology of Alzheimer’s Disease

Xiaojia Ren, University of Kentucky

P01.111 – Characterization of the Inflammasome in the CLN2 Mouse Model

Kathryn Sanchez, University Of Chicago

P01.113 – MiRNAs As Biomarkers for and Mediators of Alzheimer’s Disease

Julie Saugstad, Oregon Health & Science University

P01.114 – Development and Validation of TRPML1 Assays on Automated Patch Clamp Platforms

Daniel Sauter, Sophion Bioscience

P01.115 – Increasing Adult Oligodendrogenesis Through the Deletion of Glial-Expressed Voltage-Gated Calcium Channel Subunits

Alaina Scavuzzo, The Ohio State University

P01.116 – System-Based Integrated Metabolomics and microRNA Analysis Identifies Potential Molecular Alterations in Human X-linked Cerebral Adrenoleukodystrophy Brain

Jaspreet Singh, Henry Ford Health System

P01.117 – Microglia-Mediated Synaptic Dysfunction Contributes to Chemotherapy-Related Cognitive Impairment

Jeremy Wang, University of Missouri-Columbia

P01.118 – Interactions Between TDP-43 and Amyloid Beta Pathology in a Drosophila

Model of Alzheimer's Disease

Thaddeus Weigel, University of Virginia

P02.01 – Thyroid Hormone Decreases Cx43-Containing Extracellular Vesicle Production in Cultured Astrocytes

Amanda Charest, NYITCOM

P02.02 – Oxygen Availability Regulates PG Production Independently of Cyclooxygenase Induction Upon Stimulation With LPS

Brennon Schofield, University of North Dakota

P02.03 – Adhesion GPCR-Dependent Communication Across Cells

Nicole Scholz, Leipzig University

P02.04 – An Alternative Fixation Method for Preventing Post-mortem Prostanoid Increase in the Brain

Drew Seeger, University of North Dakota

P02.05 – The Role of Mechanosensation in Central Nervous System Myelination

Amanda Senatore, Oregon Health and Science University

P02.06 – Facilitating Oligodendrocyte Maturation and Safeguarding Myelin Integrity in Multiple Sclerosis via the TET1-BHMT Axis

Marwan Shalih Maraicar, Integrated Science Building, Kent State University

P02.07 – A Molecular Dissection of Complement in Demyelinating Disease

Patrick Sheehan, University Of Massachusetts Medical School

P02.08 – Fever-Like Temperatures Without Immune Activation Improve Cognitive Deficits in the Scn2a Autism Mouse Model via Increases in K⁺ Channel Activity

Yiming Shen, NIH/NIAAA

P02.09 – Measuring ATP:ADP in Neurons and Astrocytes Using PercevalHR In Vitro

Sophiya Sims, University of Kentucky

P02.10 – Recovery of Astrocyte Calcium Signaling and Cerebrovascular Dynamic From General Anesthesia

Pradoldej Sompol, University of Kentucky

P02.11 – Multi-omics Analyses of Synapses From C9ORF72 ALS/FTD Cortical Neurons

Ashton Spillman, Barrow Neurological Institute

P02.13 – TSG-6 Mediated Extracellular Matrix Modifications Regulate Hypoxic-Ischemic Brain Injury

Taasin Srivastava, Oregon Health & Science University

P02.14 – Reactive Astrocytes May Underlie Diminished Neurovascular Coupling After Stroke

Teresa Stackhouse, Neurology

P02.15 – Unravelling the Metabolic Changes Mediated by Ketone Body Utilization in the Nervous System

Marion Stunault, Washington University in Saint Louis

P02.16 – Cell Synchronization and Glial Neurotransmitter Transporters in Retinal Müller Cells: Role in Excitotoxicity

Temitayo Subair, CINVESTAV

P02.17 – Chronic In Vivo Calcium Imaging of Registered Spinal Neurons to Characterize Mechanical Sensitization During a Month of Inflammatory Pain

Steve Sullivan, Oregon Health And Science University

P02.18 – Extracellular Vesicles From Toxoplasma gondii Infected Neurons Decrease GLT-1 Protein Expression

Emily Tabaie, University of California, Riverside

P02.19 – Lanthionine Ketimine Ethyl Ester Increases Oligodendrocyte Proliferation Both In-Vitro and In-Vivo

Ankit Tandon, University of Illinois Chicago

P02.20 – Investigating the Roles of Dark/Clec7a+ Microglia During Early Postnatal Development in a Mouse Model of Maternal Immune Activation

Marianela Traetta, University of Victoria

P02.21 – Fluid Flow Shear Stress Induces Acid Sphingomyelinase-Mediated Secretion of Neurotoxic Ceramide-Rich Extracellular Vesicles From Cilia in Glial Cells

Priyanka Tripathi, University of Kentucky

P02.22 – Biomarker and Edema Attenuation in IntraCerebral Hemorrhage (BEACH): Phase 2a Proof-of-Concept Trial of a Novel Anti-neuroinflammatory Small Molecule Drug Candidate

Linda Van Eldik, University of Kentucky

P02.23 – HIV Antiretroviral Drugs Trigger Stress Granule Formation via the PERK Activated Integrated Stress Response in Differentiating Oligodendrocytes

Eliana von Krusenstiern, University of Pennsylvania

P02.24 – Astrocytes Dysregulate GABAergic Inhibition to Impair Auditory Processing in Fragile X Syndrome

Victoria Wagner, University Of California, Riverside

P02.25 – Investigating the Role of Copper in Oligodendrocyte Myelination

Johnathan Wong, University of Pennsylvania

P02.26 – PTEN-Induced Kinase 1 Modulates Neuronal Development and Plasticity Through Calcium/Calmodulin-Dependent Protein Kinase II and IV

Micah Woodruff, University of Nevada, Reno

P02.27 – Investigating Ischemic Vascular Dysfunction in Alzheimer's Disease

Simone Woodruff, Oregon Health & Science University

P02.28 – Delineating the Mechanisms Leading to Aberrant Lipid Storage and Trafficking Defects in Astroglia Models of Cholesterol Synthesis Disorders

Jazmine Yaeger, Sanford Research

P02.29 – Role of Autophagy and Fatty Acid Binding Protein 5 During Docosahexaenoic Acid Inhibition of Palmitic Acid-Induced Lipotoxicity

Francis Zamora, Loma Linda University

P02.30 – The Effect and Mechanism of GDNF Released From Reactive Astrocytes on Neuronal and Brain Protection After Ischemic Stroke

Zhe ZHANG, University of Missouri-Columbia

P02.31 – The Sphingosine-1-Phosphate Receptor 1 Antagonist Ponesimod Reduces

Neuroinflammation via Microglial A β Clearance

Zhihui Zhu, University Of Kentucky

P02.32 – Effects of Centella asiatica Water Extract on Cerebrovascular Function in Mice

Benjamin Zimmerman, National University of Natural Medicine

P02.33 – Developing Tools to Study Cholesterol Metabolism in Microglia During Demyelination

Matthew Zupan, University Of Kansas

P02.34 – Kindling Epileptogenesis Induces Broad Alterations in the Hippocampal Transcriptome of Mice Lacking TIA1 Cytotoxic Granule Associated RNA Binding Protein

James Hewett, Syracuse University

P02.35 – Metabolic Derangement Resulting From Diet-Induced Obesity Is Dependent on Estrogen in a Mouse Model of Menopause

Steven Barger, University Arkansas Med Sci

P02.36 – A Novel Mechanism for Brain Prostanoid Regulation Through Oxygen Availability Under Ischemia

Derek Besch, University of North Dakota

P02.37 – Fractalkine Overexpression via rAAVs Differentially Regulate Microglial Activation and Vascular Damage in the Diabetic Retina

Astrid Cardona, University of Texas at San Antonio

P02.39 – Inferring Axon Diameters in the Mouse Corpus Callosum Using Diffusion MRI: Comparison of ROI-Based and Voxel-Based Analysis

Emma Friesen, University of Winnipeg

P02.40 – Neuroactive Effects of Ashwagandha: From Ayurvedic Medicine to Cellular Bioactivity and Mass Spectrometry

Emily Georges, Oregon State University

P02.41 – A Novel Nanoparticle-Mediated Delivery of Estrogen to Protect Neurons and Improve Functional Recovery in Spinal Cord Injury

Azizul Haque, Medical University of South Carolina

P02.42 – PMP22 Null Mutant Mice Exhibit Morphological and Functional Deficits in the Respiratory System

Evan Jones, University Of Nevada, Reno - School Of Medicine

P02.43 – The Natural Compounds Oridonin and Shikonin Exert Beneficial Effects on Reactive Microglia, Independent of Their Inflammasome Inhibitory Activity

Andis Klegeris, University of British Columbia Okanagan

P02.44 – N6-Cyclohexyladenosine Is Better Than Meperidine and Buspirone at Suppressing Metabolism During TTM32 but Does Not Improve Outcome Post Cardiac Arrest

Bernard Laughlin, Institute of Arctic Biology

P02.45 – The Role of Connexin43 Mediated Coupling in Neuronal Activity

Owen Leitzel, University Of Alabama At Birmingham

P02.46 – Distinct Odor and Reward-Evoked GABAergic Neuronal Activity in the Basal Forebrain Influences Odor Perception and Decision-Making

Elizabeth Moss, OHSU

P02.47 – NMNAT2: A Guardian of Axonal Integrity and Cortical Energy Balance in the Brain

Zhen-Xian Niou, Indiana University Bloomington

P02.48 – Differentiation State Impacts the Interaction of mTOR and TFEB in Oligodendrocytes

Davin Packer, University of Colorado Anschutz Medical Campus

P02.49 – Serpina3n/SERPINA3 in LPS-Induced Neonatal Sepsis: Liver-Brain Axis

Joohyun Park, Uc Davis

P02.50 – Diiodothyropropionic Acid Facilitates Oligodendrocyte Differentiation and Myelination to Enhance Neuroprotection and Neurorepair in the Central Nervous System

Steven Petratos, Monash University

P02.51 – Delayed Administration of an angiotensin(II) type(2) Receptor Agonist for the

Treatment of Ischemic Stroke: A Preclinical Trial in Hypertensive Rats

Mohammed Sayed, Lincoln Memorial University

P02.52 – Sex and Viral Infection-Induced Inflammation As Contributing Factors to Alterations in Cognitive Performance and Microglial Response in Aged C57BL6/J Mice

Eva Simoncicova, University of Victoria

P02.53 – The Beneficial Effects of NLY01 on Astrocyte Coverage and Functional Recovery in a Mouse Model of Stroke

Julia Staton, University of North Carolina Wilmington

P02.54 – Transcriptome Analysis in Lumbosacral Dorsal Root Ganglia Revealed Sex-Specific Mechanisms Underlying Visceral Hypersensitivity

Sathish Kumar Yesupatham, University of Colorado

P02.55 – The Role of Oligodendrocyte Specific Serpina3n in Physiological and Pathological Condition

Meina Zhu, UC Davis