



Neuroscience
2022



SOCIETY *for*
NEUROSCIENCE

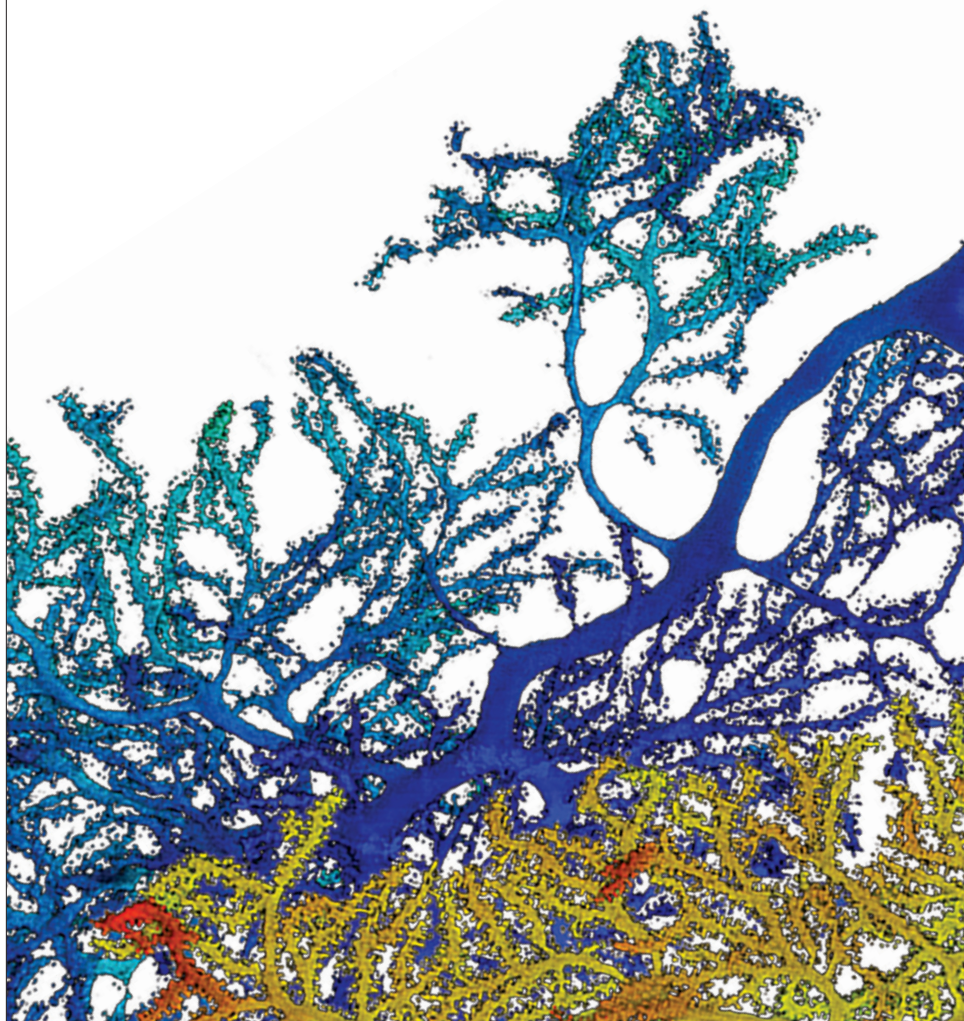
Diversity Poster Session

Organizer/Moderator: Society for Neuroscience

Support contributed by: *eNeuro* and *JNeurosci*

Saturday, November 12 / 6:30 p.m.–8:30 p.m.

San Diego Convention Center / Halls B–H



Join a special poster session and networking event featuring participants of the Neuroscience Scholars Program - NSP, ENDURE, D-SPAN, and SPINES. The Neuroscience Scholars Program (NSP) is a two-year training program open to underrepresented graduate students and postdoctoral researchers.

Jerome Arceneaux
Meharry Medical College /
Vanderbilt University
NSP Associate

Mapping the cellular composition of Resected Cortical Tubers and Peritubular Tissues

Theme A: Development

Monica Carbajal
University of Memphis
NSP Associate

Lphn3 knockout Rats exhibit executive function deficits that are sometimes sex specific

Theme A: Development

Shylyn (Shy) Collier
University of Missouri-St. Louis
ENDURE

Proteasomal liquid-liquid phase separation in Neurons

Theme A: Development

Taylor Craig
University of Michigan
NSP Associate

Molecular and Physiological alterations in a Neurodevelopmental model of Schizophrenia

Theme A: Development

Emmanuel Crespo
Central Michigan University
Brown University
D-SPAN

Effects on neocortical inhibitory circuits underlying sensory representation in adults after developmental excitation of neocortical pyramidal neuron

Theme A: Development

Leighton Duncan
Johns Hopkins Medicine
NSP Fellow

Investigating extrinsic mechanisms controlling neurogenic competence in the postnatal hypothalamus

Theme A: Development

Immanuela Enwesi
University of Maryland
ENDURE

Using MRI to assess brain development in the Healthy Brain and Child Development Study

Theme A: Development

Daisy Crystal Flores
University of California, San Diego
ENDURE

Enhancing synaptic density in iPSC-derived Neurons

Theme A: Development

Israel Garcia Carachure
The University of Texas at El Paso
NSP Fellow

Effects of juvenile ketamine and/or psychological stress on spatial memory in mice

Theme A: Development

Yesenia Garcia-Sifuentes

Emory University

NSP Associate, SPINES

Developmental isolation imperils social value-based decision making later in life

Theme A: Development

Rachel Gilfarb

The Ohio State University

NSP Associate

Hormonal contraceptive exposure during adolescence impacts the prefrontal cortex and HPA axis response of female rats.

Theme A: Development

Jordan Gross

New York University

ENDURE

Investigating the impact of the autism risk gene PTEN on cortical development using a human brain organoid model

Theme A: Development

Dennisha King

University of Rochester

NSP Fellow

Characterization of microglia during normal development in the primate amygdala subregions

Theme A: Development

Gabriela Manzano Nieves

Weill Cornell Medicine

D-SPAN

Developmental changes in VTA to mPFC activity shape differences in reward behavior in adolescents versus adults.

Theme A: Development

Courtney McDermott

Rutgers University-Piscataway

NSP Associate, D-SPAN

Early life antibiotic exposure and genetic risk in neurodevelopmental disorders: Effects on neurogenesis, gut microbiome, and behavior

Theme A: Development

Michael Mykins

University of Tennessee Knoxville

NSP Associate

Pose estimation analysis aids in identifying atypical movement kinematics during pup retrieval in a female mouse model for Rett syndrome

Theme A: Development

Lewis Nuñez

Hunter College

ENDURE

NMDA receptor activity and Er81 expression

Theme A: Development

Beverly Obodaifio

University of Maryland

ENDURE

Quinolinate phosphoribosyl transferase (QPRT): a potential mediator of postnatal hippocampal neurogenesis.

Theme A: Development

Carlos Orozco

UT Southwestern Medical Center

NSP Fellow

From meme to gene: how social experience affects cell-type development early in life

Theme A: Development

Beau Oster

University of Nevada, Reno

- Stanford University

ENDURE

Quantifying ex vivo colonic motility in Caspr2^{-/-} mice

Theme A: Development

Meghan Ramirez

University of Nebraska Medical Center

NSP Associate

Quantifying age-related differences in brain activity related to subsequent memory in peri adolescent children using task-based fMRI: preliminary findings from the PRANK study

Theme A: Development

Catrina Reyes

Washington University in St. Louis

ENDURE

Developing a zebrafish model to study GNAO1-associated neurodevelopmental disorders

Theme A: Development

Isabel Rivera

University of California Irvine

NSP Associate

Altered microglia differentiation in Down syndrome

Theme A: Development

Maureen Sampson

Emory University

D-SPAN

Cell-type specific effects of lead (Pb) toxicity in the developing human brain

Theme A: Development

Yessica Santana Agreda

Oregon Health and Science University

NSP Fellow

Isl1 is required for the specification and maturation of Starburst Amacrine Cells

Theme A: Development

Safa Sheik

Hunter College

ENDURE

Changes in Cognitive Processes across pregnancy

Theme A: Development

Karli Swenson

University of Colorado | Anschutz

Medical Campus

NSP Associate

Fetal cannabidiol (CBD) exposure impacts brain development and postnatal behavior

Theme A: Development

Jared Tangeman

Miami University

D-SPAN

Single cell profiling reveals emergent barriers to embryonic retina regeneration

Theme A: Development

Anne Wells

UT Health San Antonio

NSP Fellow

Tbx1, a gene encoded in 22q11.2 copy number variants, is essential for myelination of the fimbria and cognitive speed in mice

Theme A: Development

Antonio White

Michigan State University

NSP Fellow

Connectivity differences in the Hippocampus and Amygdala brain regions of mice colonized with infant gut microbiota

Theme A: Development

Glen Wickersham

Universidad del Sagrado Corazon

ENDURE

Identification and Localization of NGF family and GDNF receptor family orthologues in *H. glaberrima*

Theme A: Development

Ariel Batallan Burrowes

Concordia University

SPINES

17 β -estradiol facilitates excitatory transmission in layers II and III of the entorhinal cortex via suppression of synaptic inhibition

Theme B: Neural Excitability, Synapses, and Glia

Asad Beck

University of Washington

NSP Fellow, SPINES

Temperature-induced increase of epileptic activity captured by machine learning in a mouse model of epilepsy

Theme B: Neural Excitability, Synapses, and Glia

Laura Bell

University of Utah

D-SPAN

Reactive NG2glia show lasting alterations in their response to purinergic damage signals and a protective role in survival following viral brain infection and seizures

Theme B: Neural Excitability, Synapses, and Glia

Julianna Brutman

**Washington State University
NSP Associate, D-SPAN, SPINES**

CRISPR/SaCas9 elimination of alternative polyadenylation on the Timp2 transcript increases hippocampal neuron filopodia

Theme B: Neural Excitability, Synapses, and Glia

Noele Certain

**Stony Brook University
NSP Associate, D-SPAN**

Dysfunctional biogenesis of AMPA receptor disease-associated variants

Theme B: Neural Excitability, Synapses, and Glia

Andrea Corretjer

**University of Puerto Rico - Rio Piedras
Campus
ENDURE**

Identification of Lengsin in Holothuria glaberrima nervous system

Theme B: Neural Excitability, Synapses, and Glia

John Del Rosario

**Washington University in St. Louis
D-SPAN**

Sustained depolarization induces homeostatic plasticity in mouse and human sensory neurons

Theme B: Neural Excitability, Synapses, and Glia

Juan Flores

**University of California, Davis
D-SPAN**

Prior potentiation initiates a synapse-specific refractory period for plasticity at individual dendritic spines

Theme B: Neural Excitability, Synapses, and Glia

Tahiyana Khan

**Georgetown University Medical Center
D-SPAN**

Senescent Cell Ablation Ameliorates Seizure Burden and Spatial Memory Deficits in a Mouse Model of Temporal Lobe Epilepsy

Theme B: Neural Excitability, Synapses, and Glia

George Melchor

**Georgetown University
NSP Fellow**

Seq and Discover: A Study of Oligodendrocyte Lineage Cells using Genetic Strategies

Theme B: Neural Excitability, Synapses, and Glia

Maxwell Miyasato

**University of Nevada, Reno - Stanford
University
ENDURE**

Inhibiting the CLC-Ka Cl- Channel: A Novel Therapeutic Target for Hyponatremia

Theme B: Neural Excitability, Synapses, and Glia

Shekinah Phillips

**University of Alabama at Birmingham
NSP Associate**

Possible interactions between O-GlcNAcylation and Phosphorylation in modulating hippocampal GABAergic transmission

Theme B: Neural Excitability, Synapses, and Glia

Amanda Rodriguez

**University of Puerto Rico - Rio Piedras
Campus
ENDURE**

Discovering complexity of long-range inhibitory projections: Anatomical part

Theme B: Neural Excitability, Synapses, and Glia

Lester Rosario-Rodríguez

**University of Puerto Rico-Medical
Sciences Campus
D-SPAN**

Host factors associated with COVID-19 severity and neurological Mechanisms in a Hispanic population

Theme B: Neural Excitability, Synapses, and Glia

Kirsten Schoonover

**University of Pittsburgh
D-SPAN**

Altered expression of excitatory and inhibitory ionotropic receptor subunit across the cortical visuospatial working memory network in schizophrenia

Theme B: Neural Excitability, Synapses, and Glia

Zixian Wang**Hunter College****ENDURE**

Exploring cornea signaling pathway in an intact eyeball-trigeminal ganglion model

Theme B: Neural Excitability, Synapses, and Glia

Dina Abdalla**Washington University in St. Louis****ENDURE**

Exploring the relationship between sleep and mitochondrial complex II in Alzheimer's Disease using Drosophila

Theme C: Neurodegenerative Disorders and Injury

Noor Alrashed**Louisiana State University Health Sciences Center New Orleans****ENDURE**

Translational investigation of sex differences in alcohol analgesic efficacy: comparison across preclinical and clinical domains

Theme C: Neurodegenerative Disorders and Injury

Ariel Armstrong**Morehouse School of Medicine****NSP Associate**

Acid-sensing ion channels in long-term stroke recovery

Theme C: Neurodegenerative Disorders and Injury

Jacqueline Banuelos Fraire**University of Washington****ENDURE**

Altered motivational state After Naloxone-Precipitated Morphine withdrawal

Theme C: Neurodegenerative Disorders and Injury

Jillybeth Burgado**UCSD/Salk****NSP Fellow**

Multi-omic profiling of human iPSC-derived astrocytes

Theme C: Neurodegenerative Disorders and Injury

Jose Cano**University of Rochester Medical Center D-SPAN**

Astro glial calcium signaling deficits perturb synaptic function in a human glial chimeric mouse model of schizophrenia

Theme C: Neurodegenerative Disorders and Injury

Natali Colombo**University of Washington****ENDURE**

Neural activity during seizures in a Brain stem and cerebellum specific Mouse model of Leigh Syndrome Epilepsy

Theme C: Neurodegenerative Disorders and Injury

Zachary Colon**Georgetown University Medical Center****NSP Associate**

Characterization of hippocampal perineuronal nets and parvalbumin interneurons in a model of synucleinopathies

Theme C: Neurodegenerative Disorders and Injury

Danna Cunningham**Georgetown University****NSP Associate**

The effects of APOE genotype on oligodendrocytes in AD mouse models

Theme C: Neurodegenerative Disorders and Injury

Cori Fain**Mayo Clinic****NSP Fellow**

Antigen presentation by brain endothelium dynamically regulates T-cell mediated brain pathologies

Theme C: Neurodegenerative Disorders and Injury

Melissa Garcia**The University of Alabama Birmingham/****Medical University of South Carolina****NSP fellow**

Proteomic analysis of inflammatory markers in the TgF344 rat model of Alzheimer's disease

Theme C: Neurodegenerative Disorders and Injury

Magaly Guzman Sosa

Purdue University

NSP Associate

Impact of post-translational modifications on membrane-induced alpha-synuclein aggregation in synucleinopathy disorders

Theme C: Neurodegenerative Disorders and Injury

Roberto Guzman-Hernandez

Temple University

NSP Associate

Fibrillar tau elicits metabolic reprogramming in endothelial cells and cerebrovascular dysfunction

Theme C: Neurodegenerative Disorders and Injury

Shiva Hassanzadeh-Behbahani

Georgetown University

D-SPAN

Front striatal white matter microstructure alterations in middle-to-advanced aged adults with HIV

Theme C: Neurodegenerative Disorders and Injury

Cellas Hayes

University of Mississippi

NSP Fellow, ENDURE

Uncovering the IGF-1 Signaling Mechanisms Responsible for Neuroprotection Following Stroke

Theme C: Neurodegenerative Disorders and Injury

Martina Hernandez

Virginia Commonwealth University

D-SPAN

Exploring immaturity in Neuronal Nuclei protein negative (NeuN-) membrane disrupted neurons after diffuse brain injury in rats

Theme C: Neurodegenerative Disorders and Injury

Michael Hopkins

Johns Hopkins School of Medicine

NSP Fellow, SPINES

Utilizing CRISPR to study proteasome-mediated stress responses

Theme C: Neurodegenerative Disorders and Injury

John Aaron Howell

University of Mississippi Medical Center

NSP Associate

An NF-kB targeted biologic localizes to the brain and reduces infarct size in the middle cerebral artery occlusion model of ischemic stroke in spontaneously hypertensive rats

Theme C: Neurodegenerative Disorders and Injury

Indonesia Jordan

University of Alabama at Birmingham

NSP Associate

Assessing glutamate and glutamine in myalgic encephalomyelitis/chronic fatigue syndrome (ME/CFS): a magnetic resonance spectroscopy study

Theme C: Neurodegenerative Disorders and Injury

Ashley Letona

University of Washington

ENDURE

The Involvement of CRF 1 Receptors in the nucleus accumbens core during cocaine self-administration in Rats

Theme C: Neurodegenerative Disorders and Injury

Carrie Lewis

Mount Holyoke College

ENDURE

Impact of TREM2 agonist antibody on Pre- and Post-synaptic proteins in Amyloid Mice seeded with Alzheimer's disease (AD) Tau

Theme C: Neurodegenerative Disorders and Injury

Senegal Mabry

Cornell University Department of Psychology College of Human Ecology

NSP Associate

Parkinson's Disease connections to the heart and cardiovascular disease risk factors

Theme C: Neurodegenerative Disorders and Injury

Taylor McCorkle**Drexel University College of Medicine
NSP Fellow**

Sex-dependent cognitive dysfunction following repeated mild TBI in adolescent animals may be dependent on alterations in acetylcholine and corticotropin releasing factor expression

Theme C: Neurodegenerative Disorders and Injury

Mariel Kristine B. Micael**University of California, San Diego
ENDURE**

Disease progression in Alzheimer's disease Mouse models by sex

Theme C: Neurodegenerative Disorders and Injury

Yamil Miranda**University of Puerto Rico, Rio Piedras campus
NSP Fellow**

Establishing effective parameters for Electroporation of Echinoderm nerve cord explant

Theme C: Neurodegenerative Disorders and Injury

Shannin Moody**Louisiana State University Health Sciences Center- New Orleans | Iowa State University
D-SPAN**

Impact of race and sex on the cognitive progression of multiple sclerosis

Theme C: Neurodegenerative Disorders and Injury

Jordan Moore**The Ohio State University
D-SPAN**

Nano transfection-driven neurogenic reprogramming in skeletal muscle provides protection following denervation

Theme C: Neurodegenerative Disorders and Injury

Evelyn Mpofu**Louisiana State University Health Sciences Center New Orleans
ENDURE**

Microglia conversion M1 to M2 by maresin 1 in models of Parkinson's Disease

Theme C: Neurodegenerative Disorders and Injury

Neke Nsor**Georgetown University
NSP Associate**

Associations between emotional processes and psychiatric symptoms in Dementia

Theme C: Neurodegenerative Disorders and Injury

Gerald Nwosu**Meharry Medical College
NSP Associate**

Rescued mutant GABA A receptor subunit mediated developmental Epileptic Encephalopathies

Theme C: Neurodegenerative Disorders and Injury

Stephanie Ortiz**University of Puerto Rico - Rio Piedras Campus
ENDURE**

Exploring neurotransmitter regulation of Organismal stress response

Theme C: Neurodegenerative Disorders and Injury

Geraldine Ortiz Sosa**University of Puerto Rico- Cayey
ENDURE**

Effects of Cerebrovascular disease on amyloid pathology in a novel rat model of mixed dementia

Theme C: Neurodegenerative Disorders and Injury

Nathaniel Parsons**The Medical University of South Carolina
D-SPAN**

Regulatable complement inhibition of the alternative pathway mitigates age-related macular degeneration pathology in a mouse model

Theme C: Neurodegenerative Disorders and Injury

Alexis Reed

Lincoln University

ENDURE

Astrocyte reactivity in white matter tracts following pediatric traumatic brain injury

Theme C: Neurodegenerative Disorders and Injury

Genesis Rodriguez

University of Michigan

NSP Fellow

The sorting factor VPS13A is pivotal for quality control of Mitochondria and Endoplasmic Reticulum

Theme C: Neurodegenerative Disorders and Injury

Yanilis Rodriguez Velez

Interamerican University PR

ENDURE

Determining The Effects of Tau Protein on the Memory of Novel Odors

Theme C: Neurodegenerative Disorders and Injury

Jesus Rosario Claudio

University of Puerto Rico- Cayey

ENDURE

IL-10 Signaling on Sensory Neurons Regulate Inflammation IL-10

Theme C: Neurodegenerative Disorders and Injury

Nicole Schartz

University of Arkansas for Medical Sciences

NSP Fellow

Determining the role of estrogens in amyloid beta-induced cerebral metabolic and cognitive deficiencies

Theme C: Neurodegenerative Disorders and Injury

Francis Shue

Mayo Clinic Graduate School of Biological Sciences

NSP Associate

Impact of vascular ApoE2 on cerebrovascular function and amyloid beta pathogenesis

Theme C: Neurodegenerative Disorders and Injury

Isabel Soto

University of North Texas Health Science Center

NSP Fellow

Establishing the impact of aerobic exercise on biomarkers, mobility, and cognitive Functioning of Parkinson's Disease: A translational study

Theme C: Neurodegenerative Disorders and Injury

Isaac Toscano

Santa Clara University

ENDURE

Role of orexin in amyloid- β peptide production

Theme C: Neurodegenerative Disorders and Injury

Jose Vigil

University of Colorado-Anschutz

Medical Campus

NSP Associate

Sexually dimorphic amygdala dysfunction in a Mouse model of Global Cerebral Ischemia

Theme C: Neurodegenerative Disorders and Injury

Cory White

Johns Hopkins University School of Medicine

NSP Fellow, BRAINS Fellow, D-SPAN

Lipid distribution is highly variable in the virally suppressed SIV-Macaque Brain

Theme C: Neurodegenerative Disorders and Injury

Melanie Wiley

Medical University of South Carolina

NSP Associate, SPINES

The effect of non-invasive transcutaneous auricular vagus nerve stimulation (taVNS) on hypoxic-ischemic injury in newborn rats

Theme C: Neurodegenerative Disorders and Injury

Brandon Woods

Harvard University

D-SPAN

miR-973: A Guardian of synaptic structure

Theme C: Neurodegenerative Disorders and Injury

Solomon Wossene

University of Washington

ENDURE

Phosphatidylserine acts as an eat-me signal in Parkinson's disease model *C. Elegans*

Theme C: Neurodegenerative Disorders and Injury

Stephanie Zawada

Mayo Clinic College of Medicine and Science

NSP Associate

Association of mental health, physical activity, and stroke incidence in the UK Biobank cohort

Theme C: Neurodegenerative Disorders and Injury

Laila Abdalla

University of Washington

ENDURE

Distribution of Campaniform Sensilla in *Manduca sexta*

Theme D: Sensory Systems

Javier (Javi) Cuenca-Kelly

University of Missouri-Columbia

ENDURE

Determining the role of the eIF4H1 gene, a William-Syndrome factor, in sociability using *Drosophila melanogaster*

Theme D: Sensory Systems

Joseph Del Rosario

Georgia Tech & Emory University

NSP Fellow

Visual perception depends on the spatial footprint of cortical inhibitory neuron activity

Theme D: Sensory Systems

Elaida Dimwamwa

Georgia Institute of Technology

NSP Fellow

Dynamic corticothalamic gain modulation of the somatosensory thalamocortical circuit during wakefulness

Theme D: Sensory Systems

Rachel Frazer

Columbia University

NSP Fellow

Do touch neurons in the skin drive pro-social behavior and pain relief through shared or divergent oxytocinergic circuits?

Theme D: Sensory Systems

Jonathan Garcia

University of Maryland

ENDURE

Olfaction drives socio-sensory buffering of drug choice

Theme D: Sensory Systems

Nicole A. Granados

University of California, San Diego

ENDURE

A potential cortical source of value signals in the superior colliculus

Theme D: Sensory Systems

Anne Huntemer-Silveira

University of Minnesota Twin Cities

NSP Associate

Modulation of primary afferent neuron activity by VGF-derived neuropeptide TLQP-62

Theme D: Sensory Systems

Julia Jones

The Scripps Research Institute

D-SPAN

Nuclear tyrosyl-tRNA synthetase regulates hearing

Theme D: Sensory Systems

Tony Larkin

University of Michigan

D-SPAN

Assessment of the analgesic effects of subanesthetic via brain functional connectivity

Theme D: Sensory Systems

Melissa Lenert

The University of Texas at Dallas

D-SPAN

The role of dermal fibroblasts in the initiation and resolution of TLR4-induced inflammatory pain

Theme D: Sensory Systems

Pearl Leon Guerrero-McInally
University of Washington
ENDURE

Calcium signaling in skin-resident immune cells

Theme D: Sensory Systems

Lillian Murphy
University of California, Berkeley
SPINES

In vitro model of bortezomib-induced axonopathy and cytosolic calcium responses in DRG sensory neurons

Theme D: Sensory Systems

Keith Perkins
Rutgers University
NSP Fellow

Interaction of trigeminal, somatosensory, olfactory, and respiratory signaling in the Mouse olfactory bulb

Theme D: Sensory Systems

Jacob Ross
University of California, San Diego
ENDURE

The role of the parasympathetic nervous system during mindfulness meditation and painful heat

Theme D: Sensory Systems

Rebecca Stecky
Columbia University
NSP Associate

Determining the molecular mechanisms of heritable stress-induced bias in olfactory neuron differentiation

Theme D: Sensory Systems

Víctor Manuel Suárez Casanova
Brandeis University
NSP Fellow

Co-organization of responses to direction, speed, and temporal frequency in ferret visual cortex

Theme D: Sensory Systems

Diego Aldarondo
Harvard University
D-SPAN

A virtual rat predicts the structure of neural activity across natural behavior

Theme E: Motor Systems

Rose Creed
University of California, San Francisco
D-SPAN

Eye movement and basal ganglia disruption in a mouse model of progressive supranuclear palsy

Theme E: Motor Systems

Miguel De Leon
University of Mississippi
NSP Associate

Cannabichromene effectively reduces visceral, thermal and cisplatin-induced neuropathic pain

Theme E: Motor Systems

Heather Snell
Albert Einstein College of Medicine
NSP Fellow

Mechanism underlying caffeine-Induced motor dysfunction in episodic neurological disorders

Theme E: Motor Systems

Caitlin Aamodt
University of California, San Diego
NSP Fellow

Inhibition of miR-128 rescues deficits in learned vocal communication

Theme F: Integrative Physiology and Behavior

Katherine Anderson
City College of New York
NSP Associate

Singing context-dependent activation of oxytocin receptor neurons in the avian basal ganglia

Theme F: Integrative Physiology and Behavior

Darra Boyer
Vanderbilt University
NSP Associate

The role of tutor song complexity and early life conditions on song development in zebra finches.

Theme F: Integrative Physiology and Behavior

Austin Coley

**The Salk Institute for Biological Studies
D-SPAN**

Visualizing the longitudinal development of stress-induced anhedonia from representations of valence in the PFC

Theme F: Integrative Physiology and Behavior

Amelia Cuarenta

Temple University

NSP Fellow

Early life adversity promotes resilience to cocaine addiction-like behaviors in males and produces sex-specific transcriptional changes in the basolateral amygdala

Theme F: Integrative Physiology and Behavior

Fabrizio Darby

University of Miami

ENDURE

Glucocorticoids synchronize daily rhythms in Glioblastoma cells

Theme F: Integrative Physiology and Behavior

Netanya Dennis

North Carolina Central University

ENDURE

The role of Beta-Arrestin biased agonism in the NTSR1 to modulate weight loss behaviors

Theme F: Integrative Physiology and Behavior

Sinda Fekir

Brown University

D-SPAN

VTA input drives BBB permeability in Neocortex

Theme F: Integrative Physiology and Behavior

Mario Galdamez

Baylor College of Medicine

NSP Associate, SPINES

Cholinergic modulation of dendritic integration of Primary visual cortex in Mice

Theme F: Integrative Physiology and Behavior

Yuval Guetta

Hunter College

ENDURE

Molecular and cellular changes in Ventral dentate gyrus in a Mouse model of 22q11.2 deletion syndrome

Theme F: Integrative Physiology and Behavior

Sherryl Henderson

University of Missouri-Columbia

NSP Fellow

Lower urinary tract Dysfunction in experimental autoimmune Encephalomyelitis: The effects of central Demyelination on the properties of neurons in major pelvic ganglia

Theme F: Integrative Physiology and Behavior

Ryan Henry

Hunter College

ENDURE

Odor identity encoded within specific neural projections in Olfactory cortex

Theme F: Integrative Physiology and Behavior

Stephanie Hernandez Tirado

University of Puerto Rico-Humacao

ENDURE

The identification of proteins differentially associated with 4R and 3R Tau isoforms in normal aging and Alzheimer's disease

Theme F: Integrative Physiology and Behavior

Martina Hollearn

University of Utah UNIVERSITY

OF UTAH

NSP Associate

Direct electrical stimulation of the human amygdala enhances declarative memory over long delays

Theme F: Integrative Physiology and Behavior

Theresa Logan-Garbisch

Stanford University

NSP Fellow

Exploration of the behavioral relevance of biosynthetic pathway precursors to known attractants in *C. elegans*

Theme F: Integrative Physiology and Behavior

Jeffrey Malgady

Stony Brook University

NSP Associate

Adaptations in cholinergic signaling in the SAPAP3 null mouse model of compulsive behavior

Theme F: Integrative Physiology and Behavior

O. Hecmarie Meléndez-Fernández

West Virginia University

NSP Fellow

Disrupted Cardiovascular function and metabolism by exposure to artificial light at night

Theme F: Integrative Physiology and Behavior

Nylah Miles

Temple University

ENDURE

Characterization of astrocytic morphology following early life adversity

Theme F: Integrative Physiology and Behavior

Nickole Moon

University of Colorado Anschutz

Medical Center

NSP Associate

Extracellular vesicles as cellular communicators of stress-mediated allostasis

Theme F: Integrative Physiology and Behavior

Atheer Musad

Yale University

ENDURE

Cell type profile of Oxytocin receptor-expressing neurons in the Prefrontal cortex

Theme F: Integrative Physiology and Behavior

Juan Padilla

University of Puerto Rico - Rio

Piedras Campus

ENDURE

The role of μ -opioid glutamate VTA neurons in motivated behavior

Theme F: Integrative Physiology and Behavior

Samantha Rakela

University of Florida

NSP Associate

Characterizing putative neuronal ensembles after acute and chronic social defeat stress

Theme F: Integrative Physiology and Behavior

Brianna Ramirez

UT Southwestern

NSP fellow

Investigating a novel role for the cerebellar domain, paraflocculus, in ASD-relevant behaviors

Theme F: Integrative Physiology and Behavior

Fabiola Ramos Baez

Antillean University PR

ENDURE

Environmental and physiological changes impact Suprachiasmatic nucleus function in female mice

Theme F: Integrative Physiology and Behavior

Shamauri Rivera

Hunter College

ENDURE

The Role of conversation in shared moral Judgment: A neuropsychological perspective of shared reality theory and the alignment of moral evaluation

Theme F: Integrative Physiology and Behavior

Caleb Ryce

University of Nevada, Reno - University of Michigan

ENDURE

Sensory perception in caenorhabditis elegans is not altered by muscular protein aggregation

Theme F: Integrative Physiology and Behavior

Axelle Salazar

University of Washington

ENDURE

Using simple behavioral analysis (SimBA) to assess behavioral motifs following social stress

Theme F: Integrative Physiology and Behavior

Taliana Salcedo

University of Puerto Rico -

Bayamon Campus

ENDURE

Effects of glyphosate on the neurobiology of grooming and rearing behaviors in rats

Theme F: Integrative Physiology and Behavior

Koralee Santiago Rivera

University of Puerto Rico- Cayey

ENDURE

Role of leptin receptor expressing
Neurotensin neurons in the lateral
hypothalamic area on body weight

Theme F: Integrative Physiology and Behavior

Victoria Sedwick

Albert Einstein College of Medicine

NSP Fellow

CRFR2 expressing neurons in the
posterior dorsal medial amygdala
influences infant-directed behaviors

Theme F: Integrative Physiology and Behavior

Alondra E. Torres

University of Washington

ENDURE

Characterizing outgroup
aggression in male mice

Theme F: Integrative Physiology and Behavior

Cristal Torres

University of Puerto Rico - Rio

Piedras Campus

ENDURE

The effect of TrkB antagonist Ana-
12 on DBS-induced extinction of
morphine place preference

Theme F: Integrative Physiology and Behavior

Kellie Williford

Vanderbilt University

D-SPAN

The role of protein kinase C-delta-
expressing neurons in the bed nucleus
of the stria terminalis in stress-
responses and anxiety-like behaviors

Theme F: Integrative Physiology and Behavior

Alexander Acevedo

University of Puerto Rico - Rio

Piedras Campus

ENDURE

A comparison between progressive-
ratio 7 and fixed-ratio 1 reinforcement
schedules as models for Haloperidol-
induced inhibitory learning studies in mice

Theme G: Motivation and Emotion

Milagros Alday

University of Arizona

ENDURE

Assessment of the effects of ventral
tegmental area Neuromedin S activation
and morphine exposure on cellular
activity in the nucleus accumbens

Theme G: Motivation and Emotion

Yanaira Alonso Caraballo

University of Minnesota

D-SPAN

Effects of abstinence from oxycodone
self-administration on excitatory
transmission from the PVT to the NAC

Theme G: Motivation and Emotion

Daniela Anderson

Ana G. Mendez University

ENDURE

Characterization of the GAD1-ICRE Rats
as a tool to study social play behavior
in juvenile male and female rats

Theme G: Motivation and Emotion

Kasey J Anderson

Tulane University

NSP Associate

Central amygdala neuronal activity during
cue-evoked suppression of reward seeking

Theme G: Motivation and Emotion

James Brown

Florida State University

NSP Associate, Diversifying CNS

Behavior and brain response to
social odor in juvenile mice

Theme G: Motivation and Emotion

Carolina Caban Rivera

Temple University

NSP Associate

The role of the nucleus accumbens
and the ventral hippocampus in
cocaine contextual memories

Theme G: Motivation and Emotion

Matilde Castro

Johns Hopkins University

NSP Associate

Recruitment of the central nucleus
of the amygdala during an ethanol-
rewarded operant task

Theme G: Motivation and Emotion

Melody Chao

University of California, San Diego

ENDURE

Projections from mu-opioid receptor expressing neurons of the ventral tegmental area

Theme G: Motivation and Emotion

Nancy Collie-Beard

Hunter College

ENDURE

Gender differences in the relationship between anxious apprehension and attentional impulsivity: A network analysis

Theme G: Motivation and Emotion

Julieann Colon

University of Puerto Rico - Rio Piedras Campus

ENDURE

ENDURE

“Long-lasting transcriptional responses of developmental alcohol exposure in *Drosophila*”

Theme G: Motivation and Emotion

Luis Colon Serrano

University of Puerto Rico- Cayey

ENDURE

ENDURE

Role of entorhinal cortex neurons in the consolidation and/or recall of a cocaine-context memory

Theme G: Motivation and Emotion

Ashley Cunningham

Icahn School of Medicine at Mount Sinai

NSP Fellow

NSP Fellow

Persistent transmission of paternal stress phenotypes to offspring show brain region-specific transcriptomic signatures

Theme G: Motivation and Emotion

Bra'a Durubeh

University of California, San Diego

ENDURE

ENDURE

Internal state changes elicit differential responses from distinct amygdala circuits

Theme G: Motivation and Emotion

Yasmin Escobedo Lozoya

Harvard Medical School

NSP Fellow

NSP Fellow

A median raphe circuit modulates the encoding of drug-reward memory by septohippocampal circuits

Theme G: Motivation and Emotion

Czarina Evangelista

Colby College

Colby College

Fear factor: Does adolescent choline supplementation boost or attenuate fear learning?

Theme G: Motivation and Emotion

Alexdiel Figueroa

University of Puerto Rico - Rio Piedras Campus

Piedras Campus

ENDURE

ENDURE

Glyphosate decreases exploration but not social interaction in male rats

Theme G: Motivation and Emotion

Leland Fleming

Harvard Medical School

D-SPAN

D-SPAN

Intergenerational impact of maternal childhood maltreatment on cortical structure and epigenetic age acceleration

Theme G: Motivation and Emotion

Jay Gill

University of California, Los Angeles

NSP Fellow

NSP Fellow

Intracranial neurophysiology during aversive stimuli in treatment-resistant Post Traumatic Stress Disorder

Theme G: Motivation and Emotion

Gabriela Hernandez

University of Puerto Rico - Rio Piedras Campus

Piedras Campus

ENDURE

ENDURE

Human fear and aversive learning and memory

Theme G: Motivation and Emotion

Javier How

**Johns Hopkins University, Janelia
Research Campus, Harvard University
D-SPAN**

Identification of astrocyte and neuronal populations mediating recovery from a passive behavioral state

Theme G: Motivation and Emotion

Noah (Munassar) Hussein

**Brooklyn College
ENDURE**

Neural basis of reward timing prediction errors in Pavlovian learning

Theme G: Motivation and Emotion

Amanda Iglesias

**University of Michigan
NSP Fellow**

Chemo genetic and optogenetic manipulation of neuronal projections from the lateral hypothalamus to the paraventricular nucleus of the thalamus impact cue-motivated behaviors

Theme G: Motivation and Emotion

Jarildy L. Javier

**Emory University
NSP Fellow**

The role of corticostriatal pathways in social bonding

Theme G: Motivation and Emotion

Morgan Johnston

**University of Texas, San Antonio
NSP Associate**

The role of neuropeptides and the estrous cycle in mediating the effect of stress on Pavlovian conditioning.

Theme G: Motivation and Emotion

Zachary Jones

**St. Jude Children's Research Hospital
NSP Fellow**

Functional labeling of behavioral circuits in the mouse locus coeruleus

Theme G: Motivation and Emotion

Naru Kang

**University of Maryland
ENDURE**

Do rats that have previously self-administered cocaine delay gratification?

Theme G: Motivation and Emotion

Khalid Khalid Abrera

**University of Washington
ENDURE**

Understanding regulation of dopamine dynamics in the nucleus accumbens during motivated behavior

Theme G: Motivation and Emotion

Violet Kimble

**Yale University
SPINES**

Sex differences in L-type calcium channel mechanisms mediating substance use

Theme G: Motivation and Emotion

Aqilah McCane

**Oregon Health and Science University
NSP Fellow**

Adolescent alcohol exposure impairs response inhibition and alters orbitofrontal cortex-striatal dynamics in adult and adolescent rats

Theme G: Motivation and Emotion

Katherine Meckel

**Swarthmore College
D-SPAN, Diversifying CNS**

Bacterially derived short-chain fatty acid metabolites modulate cocaine-seeking behaviors in a rat model of cocaine use disorder

Theme G: Motivation and Emotion

Angelica Minier-Toribio

**Icahn School of Medicine at Mount Sinai
D-SPAN**

Approach-avoidance dynamics sensitive to social stress

Theme G: Motivation and Emotion

Ileana Morales
University of Michigan
D-SPAN

Identification of Optogenetic hedonic hotspots in orbitofrontal cortex, insula, ventral pallidum, and anterior cingulate cortex that control liking and wanting for sweet reward.

Theme G: Motivation and Emotion

Paola Negron-Moreno
Yale University
NSP Fellow

Persistent arousal states and hypermotivated exploratory behaviors in a Shank 2 mouse model

Theme G: Motivation and Emotion

Matthew Piniero
Temple University
ENDURE

Examining the impact of adolescent social isolation on molecular signaling in the reward circuit

Theme G: Motivation and Emotion

Kailyn Price
George Washington University
NSP Fellow

Sex differences in stress coping strategies as a predictor for post-stress avoidance behavior

Theme G: Motivation and Emotion

Trinidi Prochaska
Washington University in St. Louis
ENDURE

Prenatal cannabis use is associated with decreased bilateral cerebellum and left lateral orbitofrontal cortex volumes in neonates.

Theme G: Motivation and Emotion

Wilma Richiez
University of Puerto Rico - Rio Piedras Campus
ENDURE

BDNF expression in the mesolimbic reward system in the extinction of morphine place preference

Theme G: Motivation and Emotion

Natalia Rincon
University of Maryland
ENDURE

Investigating discriminative and conditioned stimulus modulation of cocaine seeking after conflict in sign- and goal-tracking rats.

Theme G: Motivation and Emotion

Angelys Rivera
University of Puerto Rico - Rio Piedras Campus
ENDURE

Lateral habenula circuits in approach/avoidance conflict

Theme G: Motivation and Emotion

Elizabeth Sneddon
Miami University
NSP Associate, D-SPAN

Ovarian hormone influences on aversion-resistant intake in female C57BL/6J mice

Theme G: Motivation and Emotion

Maria Tello Borja
Washington University in St. Louis
ENDURE

Correlating central positive complexes and depression: CET-REM Sub-study

Theme G: Motivation and Emotion

Tyara (Ty) Thompson
The College of Wooster
ENDURE

3-day exposure to a high fat diet reduces motivation to seek a less palatable food option and may be associated with lower dopamine activity.

Theme G: Motivation and Emotion

Iliana Todorovski
Temple University
ENDURE

Examining potential sex differences in the effects of social isolation on Opiate-Induced conditioned place preference

Theme G: Motivation and Emotion

Citlalli Tomas Balthazar

Temple University

ENDURE

Adolescent morphine exposure perturbs object recognition memory in female but not male rat

Theme G: Motivation and Emotion

Alixandria Trombley

Wayne State University

NSP Associate

Identification of Fos-neuronal ensembles in the nucleus accumbens that participate in cocaine-primed reinstatement in female and male rats.

Theme G: Motivation and Emotion

Sarah Uran

University of California, San Diego

ENDURE

Connectivity of non-dopaminergic neurons of the Ventral tegmental area

Theme G: Motivation and Emotion

Justin Woods

Washington University in St. Louis

ENDURE

T-cells modulate sex differences in the somatic symptoms of fentanyl withdrawal

Theme G: Motivation and Emotion

Hanan Yafai

Weill Cornell

ENDURE

Intermittent theta-burst stimulation in the pre-limbic cortex drives brain-wide circuit reorganization and rescues stress-induced spine elimination.

Theme G: Motivation and Emotion

Maya Agdali

Hunter College

ENDURE

Neural mechanisms of awareness of action

Theme H: Cognition

Claudia Aguirre

University of California- Los Angeles

NSP Associate

Roles of ventrolateral orbitofrontal cortex, basolateral amygdala, and anterior cingulate cortex in flexible stimulus-based learning

Theme H: Cognition

Giovanna Arantes de Oliveira Campos

Temple University

ENDURE

Relating the fornix to episodic memory and spatial navigation in development

Theme H: Cognition

Maria Bent

Virginia Commonwealth University

NSP Associate

Adolescent vs. Adult binge ethanol: Impacts on memory, ethanol metabolism, and protein expression

Theme H: Cognition

Almarely Berrios-Negron

Ponce Health Sciences University

NSP Associate, SPINES

Studying the effectivity of a creative educational instrument to improve the assessment of cognition skills in Hispanic/Latinx children

Theme H: Cognition

Maria Bonilla

University of Puerto Rico - Rio

Piedras Campus

ENDURE

Development of a new learning task to assess spatial-reward associative memory

Theme H: Cognition

Paula Brooks

Princeton University

D-SPAN

Eye-tracking evidence for reinstatement of emotionally negative and neutral memories

Theme H: Cognition

Carlos Cardenas-Iniguez

Keck School of Medicine of The

University of Southern California

NSP Fellow, Diversifying CNS

Impact of structural, social, and environmental determinants of health on Neurite density and Cognitive performance

Theme H: Cognition

Jaime Castrellon

University of Pennsylvania

D-SPAN

Individual differences in extra striatal dopamine D2-like receptors shape strategic social learning

Theme H: Cognition

Christian Cazares

University of California, San Diego

D-SPAN

Chronic alcohol exposure disrupts cortico-cortical transfer of action and outcome information

Theme H: Cognition

Tia Donaldson

University of New Mexico

NSP Fellow

The effects of acute alcohol exposure on path integration

Theme H: Cognition

Rebeca Fuquen

University of Maryland

ENDURE

Effects of inhibiting play behavior in juvenile rats on adult empathy behavior

Theme H: Cognition

Kathryn Graves

Yale University

D-SPAN

Walking in the real world and in memory: spatial navigation during human neurophysiology

Theme H: Cognition

Stephanie Herrlinger

Columbia University

D-SPAN

Comprehensive and simultaneous 3-D imaging of interneuron subtypes in CA1 depicts deficits in interneuron activity resulting in microcircuit imbalance in a mouse model for the 22q11.2 deletion syndrome

Theme H: Cognition

Natalie Ito

New York University

ENDURE

Performance changes in an attentional and behavioral tasks following sepsis in a cecal slurry Mouse model

Theme H: Cognition

Maanasa Jayachandran

Florida International University

D-SPAN

Reuniens synchronizes with medial prefrontal cortex and hippocampus at beta frequencies during nonspatial memory for sequences of events in rats

Theme H: Cognition

Odelia Johnson

Brooklyn College

ENDURE

Cognitive empathy and its relation to objective cognitive test performance in plder adults along the AD continuum

Theme H: Cognition

Jasmine Kwasa

Carnegie Mellon University

NSP Fellow, D-SPAN

Equitable EEG for coarse, curly hair

Theme H: Cognition

Alexus Lawrence

Brown University

ENDURE

Using eye-tracking to analyze the effect of categories on social navigation

Theme H: Cognition

Justin Lopez-Roque

Washington University in St. Louis

ENDURE

High irritability modulates activation in social learning brain regions in young children

Theme H: Cognition

Rachel Membreno

San Diego State University

ENDURE

The impact of attention to event segmentation on memory in healthy plder adults

Theme H: Cognition

Joyce Milandu

University of Maryland

ENDURE

Brain measures of shared variance between internalizing and externalizing psychopathology

Theme H: Cognition

Leila Paige

University of Nevada, Reno - University of California, Berkeley

ENDURE

Tertiary sulci and relational reasoning

Theme H: Cognition

Haroon Popal

Temple University

D-SPAN

The posterior cerebellum is recruited when processing social relationship knowledge

Theme H: Cognition

Luis Ramirez

Boston University

D-SPAN

How does feature-based attention modulate spatial frequency processing in early human visual cortex?

Theme H: Cognition

Juan Luis Romero Sosa

University of California, Los Angeles (UCLA)

NSP Fellow

Contributions of ventrolateral orbitofrontal cortex to flexible action-reward learning under probabilistic conditions: Assessment via DREADDs and 1P calcium imaging

Theme H: Cognition

Michael Rosario

Boston University

NSP Fellow, D-SPAN

Perceived social discrimination and mnemonic disambiguation in young black adults

Theme H: Cognition

Michelle Ruiz Velazquez

University of Nevada, Reno - University of California, Berkeley

ENDURE

Anterior insular cortex involvement in error processing

Theme H: Cognition

Aaron Sampson

Johns Hopkins University

D-SPAN

Pre-Supplementary motor area activity indicates a parallel, not serial, choice process during multi-attribute decisions

Theme H: Cognition

Sabrina Santos

University of Puerto Rico - Rio Piedras Campus

ENDURE

Hierarchical processing and memory encoding

Theme H: Cognition

Joseph Simon

Icahn School of Medicine at Mount Sinai

D-SPAN

Anterior cingulate cortex neurons encode social but not nonsocial image identity during decision-making task.

Theme H: Cognition

Penelope Stuart

University of Arizona

ENDURE

Probing the impact of adverse childhood experiences on Maternal-infant dyadic interactions

Theme H: Cognition

Athena Willis

Gallaudet University

NSP Fellow

The role of the mirror mechanism in the perception of signing avatars' movements

Theme H: Cognition

Sabrina Zequeira

University of Florida

NSP Associate

Effects of chronic oral THC self-administration on working memory in aging

Theme H: Cognition

Ismail Ahmed
New York University School of Medicine
NSP Associate

Photo pharmacological control of oxytocin signaling in the central nervous system and periphery

Theme I: Techniques

Lorianna Colon
Childrens Hospital of Philadelphia
NSP Fellow

Investigating hippocampal neuronal ensembles during a novel environment task utilizing AAV-TRAP technology in rats.

Theme I: Techniques

Priscilla Coriano
Interamerican University PR
ENDURE

The impact of exercise on substantia nigra dopamine neuron survival in the alpha-synuclein preformed fibril model of Parkinson's disease

Theme I: Techniques

Abdel Gouda
Hunter College
ENDURE

Dimethyl sulfoxide combined with polyethylene glycol 400 as a vehicle for Salvinorin A

Theme I: Techniques

Genoveve Gutierrez
New Mexico State University
SPINES

Microfluidic technologies for brain slice perfusion & analysis

Theme I: Techniques

Glorianna Gutierrez
University of Washington
ENDURE

Machine learning-based labels of Epileptic activity are correlated with temperature in a Mouse model of Dravet syndrome

Theme I: Techniques

Mariyah Jiwanji
Temple University
ENDURE

Using a machine vision approach for automated pain measurements at millisecond timescales in rats

Theme I: Techniques

Emily Mendez
University of Texas Health Science Center at Houston
NSP Fellow

Human stem-cell derived brain models from postmortem subject

Theme I: Techniques

Stephanie Noble
Yale University
D-SPAN

Preliminary empirical effect size guidelines for typical fMRI studies

Theme I: Techniques

Maribel Patino
University of California San Diego
NSP Fellow

Transcriptomic identification of input cells to defined neuronal populations with Single Transcriptome Assisted Rabies Tracing (START)

Theme I: Techniques

Hope Peterson
Wake Forest School of Medicine
D-SPAN

Alterations in functional connectivity within the Default Mode, Salience, and Motor Networks during alcohol cue viewing following alcohol abstinence

Theme I: Techniques

Christina Ramelow
Emory University
NSP Associate

Novel parallel affinity purification of cell-specific RNA and protein in vitro and in vivo using TurboID proximity labeling

Theme I: Techniques

Jasper Rei Balinas

University of Washington

ENDURE

Investigating Low-Dimensional Structures in Naturalistic ECoG Data

Theme I: Techniques

Jean Rodriguez Diaz

University of Michigan

D-SPAN, ENDURE

Gamma band coherence in animal models of NMDAR hypofunction

Theme I: Techniques

Samantha Sison

University of California San Diego

NSP Fellow

Large-scale isoform-sensitive mRNA translation measurements with RiboSTAMP in neurons

Theme I: Techniques

Alondra Torres-Garcia

University of Washington

ENDURE

Quantification of AAV Titers Using Agarose Gel Staining as an Accessible Alternative Method to qPCR

Theme I: Techniques

Notes



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