



Diversity Poster Session

Organizer/Moderator: Society for Neuroscience

Support contributed by: Chan Zuckerberg Initiative,
National Institute of Neurological Disorders and Stroke (NINDS)

Saturday, November 11

6:30 p.m.–8:30 p.m.

Walter E. Washington Convention Center (WCC)
Halls A–C

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.



SOCIETY *for*
NEUROSCIENCE



THEME A: DEVELOPMENT

Chantal Aaron

Tufts University

NSP ASSOCIATE

Involuntary Administration of
Oxycodone During Pregnancy &
High Motivation for Cocaine in
Male Adult Offspring

WW83

THEME A: DEVELOPMENT

Shylyn Collier

*Washington University School
of Medicine*

BP-ENDURE

Characterizing Microcephaly in UBE3A
Hyperactivation Mouse Model

WW82

THEME A: DEVELOPMENT

Lauren English

University of Wisconsin–Madison

NSP ASSOCIATE

Investigating the role of the F-BAR
proteins CIP4 and FBP17 in regulating
neurite dynamics during cortical
neuron migration

WW81

THEME A: DEVELOPMENT

Immanuela-Nicole Enwesi

University of Maryland, College Park

BP-ENDURE: MINDS

Assessing relations between
thalamic development and sleep
in preschool-aged children

WW80

THEME A: DEVELOPMENT

Joyce Escatel-Flores

Brooklyn College

BP-ENDURE

The impact of early environmental
adversity on autonomic nervous
system: a longitudinal study

WW79

THEME A: DEVELOPMENT

Yana Honcharuk

Washington University in St. Louis

BP-ENDURE

Developing strategies to reprogram
pro-regenerative human astrocytes using
pharmacological and transcriptional
approaches

WW78

THEME A: DEVELOPMENT

Victoria Honnell

St. Jude Children's Research Hospital

D-SPAN

Identification of Evolutionarily Conserved
Enhancers in Retinal Development

WW77

THEME A: DEVELOPMENT

Norma Hylton

Harvard University

NSP FELLOW

Non-classical ion channel function
in human cortical histogenesis

WW76

THEME A: DEVELOPMENT

Dennisha King

University of Rochester

NSP FELLOW

Alterations in microglia in primate
amygdala paralaminar nucleus after
maternal separation

WW75

THEME A: DEVELOPMENT

Maylyn Mei

Hunter College

BP-ENDURE

The Development of Face Processing
Related Brain Structures in Individuals
with Varying Likelihoods of Autism

WW74

THEME A: DEVELOPMENT

Paola Negron-Moreno

Yale University

NSP FELLOW

The role of autism-associated
postsynaptic density SHANK2
protein in modulating novelty-
induced arousal transitions

WW73

THEME A: DEVELOPMENT

Sylvia Okafor

University of Toronto

NSP ASSOCIATE

Analysis of Hematologic NMDA
Receptors in Mouse Models of
GRIN1 Disorder

WW72

THEME A: DEVELOPMENT

Carlos Orozco

UT Southwestern Medical Center

NSP FELLOW

The evolution of cell types in the
amniote pallium

WW71

THEME A: DEVELOPMENT

Kayla Pereira

University of Maryland

BP-ENDURE

Relationship between neural similarity
and smiling synchrony in peer dyads
of autistic and neurotypical children

WW70

THEME A: DEVELOPMENT

Meghan Ramirez

University of Nebraska Medical Center

NSP ASSOCIATE, SPINES

Age-related differences of hippo-
campal recruitment during relational
memory: preliminary findings from
the PRANK study

WW69

THEME A: DEVELOPMENT

Catrina Reyes

Washington University in St. Louis

BP-ENDURE

Developing a zebrafish model
to study GNAO1-associated
neurodevelopmental disorders

WW68

THEME A: DEVELOPMENT

Isabel Rivera

University of California, Irvine

NSP ASSOCIATE

Microglia morphological and
functional differences in the
developing Down syndrome brain

WW67

THEME A: DEVELOPMENT

Caleb Ryce

University of Nevada, Reno

BP-ENDURE

2, 4, 4'- trichlorobiphenyl (PCB 28) alters neuronal morphogenesis in sex-segregated primary cortical neuron-glia cocultures

WW66

THEME A: DEVELOPMENT

David Saxon

Georgetown University Medical School

NSP ASSOCIATE

Defining the functional identity of the late-maturing paralaminar amygdala

WW65

THEME A: DEVELOPMENT

Safa Sheik

Yale University

BP-ENDURE

A Parent-Focused Intervention for Childhood Anxiety: Are Some Brains More Responsive?

WW64

THEME A: DEVELOPMENT

Chris Stein

Hunter College

BP-ENDURE

Investigating Whether Rhodopsin Engages with the BBSome

WW63

THEME A: DEVELOPMENT

Leilani Taiano

Temple University

MINDS

A moderated-mediation analysis between childhood trauma and dissociation in CHR

WW62

THEME A: DEVELOPMENT

Anna Vannucci

Columbia University

D-SPAN

Neural Meaning Making of Caregiving Experiences: Developmental Neurobiology of Affective Semantic Memory

WW61

THEME A: DEVELOPMENT

Maria Carmen Varela

University of Michigan

NSP ASSOCIATE

Migratory deficits in GABAergic interneurons associated with SLC6A1-related neurodevelopmental disorder

WW60

THEME A: DEVELOPMENT

Anne Wells

UT Health San Antonio

NSP FELLOW

Tbx1, a transcription factor gene deleted in 22q11.2, is essential for myelination and cognitive speed in mice

WW59

THEME A: DEVELOPMENT

Glen Wickersham

Universidad del Sagrado Corazon

BP-ENDURE

Semi-quantitative analysis neurotrophic factors and their receptors in regenerating mesentery of the sea cucumber *H. glaberrima*

WW58

THEME A: DEVELOPMENT

Berenice Anaya

Washington University in St. Louis

D-SPAN

Neonatal neural organization and the development of internalizing problems as a function of maternal factors in children born very premature

WW57

THEME A: DEVELOPMENT

Maureen Sampson

Emory University

D-SPAN

Environmental exposures shift radial glia cell fate away from gliogenesis

WW56

THEME A: DEVELOPMENT

Yvette Sol

Washington University in St. Louis

MARC U-STAR

Analysis of Autism Spectrum Condition Related Variants Effects on Protein Levels

WW55

THEME A: DEVELOPMENT

Jared Tangeman

Miami University

D-SPAN

Single-nucleus RNA sequencing reveals emergent barriers to embryonic retina regeneration

WW54

THEME B: NEURAL EXCITABILITY, SYNAPSES, AND GLIA

Maribel Anguiano

University of California, Davis

NSP ASSOCIATE

In vivo proximity labeling of prefrontal cortex axonal projections using TurboID

WW53

THEME B: NEURAL EXCITABILITY, SYNAPSES, AND GLIA

Kailyn Butler

Michigan State University

BP-ENDURE

Lateral Hypothalamic Area Cells Projecting to the Dorsal Motor Nucleus of the Vagus

WW52

THEME B: NEURAL EXCITABILITY, SYNAPSES, AND GLIA

Anthony Campuzano

University of Washington

BP-ENDURE

Dopamine Signaling Across the Striatum During Consumption

WW51

THEME B: NEURAL EXCITABILITY, SYNAPSES, AND GLIA

Garrett Chavis

University of Michigan

NSP FELLOW

The SNX17-Retrieve endomembrane recycling pathway is a key regulator of synaptic function and plasticity in hippocampal neurons

WW50

THEME B: NEURAL EXCITABILITY, SYNAPSES, AND GLIA

Minerva Contreras

Salk Institute

NSP FELLOW

Astrocyte regulation of experience-dependent plasticity in the adult mouse visual cortex

WW49

THEME B: NEURAL EXCITABILITY, SYNAPSES, AND GLIA

Gian Correa

Michigan State University

BP-ENDURE

Locus coeruleus regulation of forebrain microglial activation in Alzheimer's disease

WW48

**THEME B: NEURAL EXCITABILITY,
SYNAPSES, AND GLIA**

Angélica Cruz Calderón

*University of Puerto Rico at Río
Piedras Campus*

BP-ENDURE

Design and Synthesis of Novel Nav
Channels Inhibitor for Epilepsy

WW47

**THEME B: NEURAL EXCITABILITY,
SYNAPSES, AND GLIA**

John Del Rosario

Washington University in St. Louis

D-SPAN

Homeostatic Regulatory Mechanisms
in Mouse and Human Sensory Neurons

WW46

**THEME B: NEURAL EXCITABILITY,
SYNAPSES, AND GLIA**

Norelis Diaz-Rodriguez

Brandeis University

NSP ASSOCIATE

Homeostatic plasticity and learning
in the primary visual cortex (V1) of
SCN2A+/- rats

WW45

**THEME B: NEURAL EXCITABILITY,
SYNAPSES, AND GLIA**

Jacqueline Garcia

Tufts University

D-SPAN

Kir4.1 channels shape astrocyte
membrane potential and modulate
glutamate uptake: implications for
traumatic brain injury

WW44

**THEME B: NEURAL EXCITABILITY,
SYNAPSES, AND GLIA**

Reyna Gariepy

*Tufts University Graduate School
of Biomedical Sciences*

NSP ASSOCIATE

Astrocytic Control of GABA Signaling
via Kir4.1 in the Healthy Brain

WW43

**THEME B: NEURAL EXCITABILITY,
SYNAPSES, AND GLIA**

Maria Fernnada Juarez Anaya

University of Pittsburgh

NSP FELLOW

Unraveling the Intricate Neural Circuitry
of Neurovascular coupling: Exploring
How a Subset of Somatostatin Neurons
Modulates Cerebral Blood Flow

WW42

**THEME B: NEURAL EXCITABILITY,
SYNAPSES, AND GLIA**

Noah Kabbaj

Washington University in St. Louis

BP-ENDURE

Preliminary data suggests repeated
electroconvulsive shock increases
c-Fos activation of mouse parvalbumin
interneurons in the hippocampus and
prefrontal cortex

WW41

**THEME B: NEURAL EXCITABILITY,
SYNAPSES, AND GLIA**

Yamil Miranda

*University of Puerto Rico at Río
Piedras Campus*

NSP

Radial Glia-Like Cell Marker Expression
in Echinoderm CNS Glia

WW40

**THEME B: NEURAL EXCITABILITY,
SYNAPSES, AND GLIA**

David Narvaiz

Baylor University

D-SPAN

Seizures, Impaired Motor Performance, and Altered Markers of Vitamin D Signaling and Metabolism in the Cerebellum are Uncorrected by High Dose Vitamin D in NS-Pten KO Mice

WW39

**THEME B: NEURAL EXCITABILITY,
SYNAPSES, AND GLIA**

Leonardo Parra-Rivas

University of California, San Diego

NSP ASSOCIATE

Serine-129 phosphorylation of α -synuclein is an activity-dependent trigger for physiologic protein-protein interactions and synaptic function

WW38

**THEME B: NEURAL EXCITABILITY,
SYNAPSES, AND GLIA**

Shekinah Phillips

*University of Alabama at Birmingham,
Medical University of South Carolina*

D-SPAN

Forskolin reverses the O-GlcNAcylation dependent decrease in GABAAR current amplitude at hippocampal synapses possibly through action at the neurosteroid site on GABAARs

WW37

**THEME B: NEURAL EXCITABILITY,
SYNAPSES, AND GLIA**

Trinidi Prochaska

Washington University in St. Louis

BP-ENDURE

Examining Oxytocin Receptor Cell Surface Expression

WW36

**THEME B: NEURAL EXCITABILITY,
SYNAPSES, AND GLIA**

Rosaria Rae

Medical University of South Carolina

NSP ASSOCIATE

Exploring locus coeruleus sex differences using *in vivo* electrophysiology

WW35

**THEME B: NEURAL EXCITABILITY,
SYNAPSES, AND GLIA**

Taliana Salcedo

University of Puerto Rico at Bayamon

BP-ENDURE, NEURO-ID

Evaluating the effects of herbicide exposure on cellular activity in the amygdala

WW34

**THEME B: NEURAL EXCITABILITY,
SYNAPSES, AND GLIA**

Emma Stauffenberg

University of Nevada, Reno

BP-ENDURE

Activating Astrocytes With Magnetogenetics

WW33

**THEME B: NEURAL EXCITABILITY,
SYNAPSES, AND GLIA**

Morgan Thomas

UT Health San Antonio

NSP ASSOCIATE, SPINES

Retrotransposon Suppression in Activated Microglia

WW32

**THEME B: NEURAL EXCITABILITY,
SYNAPSES, AND GLIA**

Olga Vafaeva

University of California

NSP ASSOCIATE

Distribution of the Synapse
Differentiation Induced Gene 1
(SynDIG1) protein in mouse brain
throughout development

WW31

**THEME C: NEURODEGENERATIVE
DISORDERS AND INJURY**

Jillybeth Burgado

*University of California, San Diego,
Salk Institute*

NSP FELLOW, DSPAN

Multi-omic analyses of human
iPS-derived astrocytes reveal
cholesterol metabolic dysregulations
in Alzheimer's disease

WW30

**THEME C: NEURODEGENERATIVE
DISORDERS AND INJURY**

Tonya Chaney

*Louisiana State University Health
Sciences Center*

BP-ENDURE

Maresin1 induces acquired
deactivation of astrocytes *in vitro*

WW29

**THEME C: NEURODEGENERATIVE
DISORDERS AND INJURY**

Vivian Chen

University of Washington

BP-ENDURE

Investigating Whether Amygdalar
Optogenetic Stimulation Induces
Changes in Behavior and c-Fos
Expression

WW28

**THEME C: NEURODEGENERATIVE
DISORDERS AND INJURY**

Kendall Clay

University of Georgia

NSP ASSOCIATE

Genetic Regulation of Dopaminergic
Neuron Regeneration in the Planarian
Nervous System

WW27

**THEME C: NEURODEGENERATIVE
DISORDERS AND INJURY**

Zachary Colon

Georgetown University

NSP ASSOCIATE

Implications of aging on
inflammation, perineuronal nets,
and parvalbumin interneurons

WW26

**THEME C: NEURODEGENERATIVE
DISORDERS AND INJURY**

Crystal Colón Ortiz

Duke University

D-SPAN

How do astrocytes participate in
demyelination and myelin repair?

WW25

**THEME C: NEURODEGENERATIVE
DISORDERS AND INJURY**

Gian Correa

Michigan State University

BP-ENDURE

Locus Coeruleus regulation of
forebrain microglial activation in
Alzheimer's Disease

WW24

**THEME C: NEURODEGENERATIVE
DISORDERS AND INJURY**

Bluye Demessie

Albert Einstein College of Medicine

NSP ASSOCIATE

Alteration of White Matter
Microstructure and Cognitive
Performance by Soccer Heading

WW23

THEME C: NEURODEGENERATIVE DISORDERS AND INJURY

Alejandro Dueño

University of Michigan

BP-ENDURE

The role of Sirtuin-1 in epigenetic modulation of the Blood-Brain Barrier in aging

WW22

THEME C: NEURODEGENERATIVE DISORDERS AND INJURY

Stephen Farmer

UT Health Houston

NSP ASSOCIATE

Huntingtin-hap40 core complex regulates endolysosomal trafficking in Huntington's disease

WW21

THEME C: NEURODEGENERATIVE DISORDERS AND INJURY

Nicole Gallups

University of Alabama at Birmingham

D-SPAN

IFN γ drives neuroinflammation, demyelination, and neurodegeneration in a mouse model of multiple system atrophy (MSA)

WW20

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

WW19

THEME C: NEURODEGENERATIVE DISORDERS AND INJURY

Samantha Harker

Arizona State University, Barrow

Neurological Institute

NSP ASSOCIATE

APOE ϵ 4 predicts accelerated cognitive and brain aging outcomes in middle-aged and older autistic adults

WW18

THEME C: NEURODEGENERATIVE DISORDERS AND INJURY

Gabriella Hartman

Indiana University School of Medicine

NSP ASSOCIATE

Retinal Phenotyping of the APOE4 Knock-In Mouse Model of Alzheimer's Disease Under Hyperglycemia

WW17

THEME C: NEURODEGENERATIVE DISORDERS AND INJURY

Maya Hawkins

New York University

BP-ENDURE

Expression and activity of YAP1 in brain microvessels in cerebral amyloid angiopathy

WW16

THEME C: NEURODEGENERATIVE DISORDERS AND INJURY

Cellas Hayes

Stanford University

NSP FELLOW

Comprehensive Investigation in Vascular Pathologies Contribution to Cognition in Autopsied Confirmed Earlier Stages of Alzheimer's Disease Neuropathologic Change and Lewy Body Disease

WW15

THEME C: NEURODEGENERATIVE DISORDERS AND INJURY

Monica Jensen

University of California, San Diego

BP-ENDURE

Characterization of the Tau*P301S Alzheimer's Disease Mouse Model

WW14

THEME C: NEURODEGENERATIVE DISORDERS AND INJURY

Indonesia Jordan

University of Alabama at Birmingham

NSP ASSOCIATE

Long COVID's impact on the brain: exploring the neuroinflammation nexus

WW13

THEME C: NEURODEGENERATIVE DISORDERS AND INJURY

Nawshin Maleeha

Macaulay Honors College at Hunter College

BP-ENDURE

Investigating the p75 Neurotrophin Receptor Signaling Pathway in Schwann Cells

WW12

THEME C: NEURODEGENERATIVE DISORDERS AND INJURY

Jatia Mills

Virginia Polytechnical University

NSP ASSOCIATE

Characterization of Temporospatial Changes in Resident Microglia Following Traumatic Brain Injury

WW11

THEME C: NEURODEGENERATIVE DISORDERS AND INJURY

Sebastián Monge Reyes

Washington University in St. Louis

BP-ENDURE

Neurofilament light chain levels throughout the pathogenesis of an Amyotrophic Lateral Sclerosis rat model

WW10

THEME C: NEURODEGENERATIVE DISORDERS AND INJURY

Tendayi Mpfu

Xavier University of Louisiana

BP-ENDURE

Maresin 1 changes Reactive Microglia from Pro-Inflammatory to Pro-Survival States in 6HODA Model of Parkinson's Disease

WW9

THEME C: NEURODEGENERATIVE DISORDERS AND INJURY

Emma Nicolaysen

Michigan State University

BP-ENDURE

Profiling and Prioritization of Plasma Biomarkers Associated with Cognitive Impairment Based on Sex and Race/Ethnicity

WW8

THEME C: NEURODEGENERATIVE DISORDERS AND INJURY

Damaris Nieves Torres

Medical College of Wisconsin

NSP FELLOW

Role of Proline-rich 7 (PRR7) in amyloid beta-induced excitatory synapse loss

WW7

THEME C: NEURODEGENERATIVE DISORDERS AND INJURY

Jayvon Nougaisse

Augusta University

NSP ASSOCIATE

Effects of Adiponectin Signaling on lipid homeostasis in astrocytes

WW6

THEME C: NEURODEGENERATIVE DISORDERS AND INJURY

Neke Nsor

Georgetown University Medical Center

NSP ASSOCIATE

The Effects of Biopsychosocial Factors on Age-Related Neural Decline in African Americans

WW5

THEME C: NEURODEGENERATIVE DISORDERS AND INJURY

Stephanie Ortiz Espaillat

University of Puerto Rico at Río Piedras Campus

BP-ENDURE

Flow Cytometry Characterization and Sorting of Brain-Derived EVs

WW4

THEME C: NEURODEGENERATIVE DISORDERS AND INJURY

Alejandra Isabel Pacheco Balzac

Michigan State University

BP-ENDURE

The effects of amyloid, tauopathy and rapamycin treatment on telomere length in mice

WW3

THEME C: NEURODEGENERATIVE DISORDERS AND INJURY

Luis H. Pagan

University of Puerto Rico at Medical Sciences Campus

NSP ASSOCIATE

Effect of spinal cord injury and Tamoxifen in the microbiota of adult rats

WW2

THEME C: NEURODEGENERATIVE DISORDERS AND INJURY

Eleni Papadopoulos

Rowan-Virtua School of Osteopathic Medicine

NSP ASSOCIATE

The effects of methylphenidate on risk/reward decision making following repetitive mild traumatic brain injury

WW1

THEME C: NEURODEGENERATIVE DISORDERS AND INJURY

Derian Pugh

University of Alabama at Birmingham

NSP ASSOCIATE

Regional brain co-expression network analysis identifies NRN1 as a mediator of cognitive resilience to Alzheimer's disease

VV64

THEME C: NEURODEGENERATIVE DISORDERS AND INJURY

India Pursell

Tulane University Brain Institute

NSP ASSOCIATE

Characterization of overexpressing neuronal-specific miR-34a animal model for neurodegeneration

VV63

THEME C: NEURODEGENERATIVE DISORDERS AND INJURY

Sidney Retama-Candelario

North Carolina Central University

BP-ENDURE

Evaluating Microtubules Binding Properties of Big Tau Protein *in Vitro*

VV61

THEME C: NEURODEGENERATIVE DISORDERS AND INJURY

Camille Reynoso Fernandez

Brooklyn College

BP-ENDURE

Histone PTM Crosstalk in a Yeast ALS/FTD Model

VV60

THEME C: NEURODEGENERATIVE DISORDERS AND INJURY

Lester Rosario-Rodriguez

University of Puerto Rico at Medical Sciences Campus

D-SPAN

Development of Monocyte-Derived Microglia from HIV-Seropositive Patients to Study $\alpha 7nAChR$ as a Therapeutic Target against HAND

VV59

THEME C: NEURODEGENERATIVE DISORDERS AND INJURY

Benjamin Shaw

Cleveland Clinic Lerner Research Institute

D-SPAN

Novel alternative splicing in PSMB8 and its potential role in multiple sclerosis

VV58

THEME C: NEURODEGENERATIVE DISORDERS AND INJURY

Francis Shue

Mayo Clinic

NSP ASSOCIATE

CSF inflammatory molecules and Alzheimer's disease biomarkers for predicting cognitive impairment risk in the elderly

VV57

THEME C: NEURODEGENERATIVE DISORDERS AND INJURY

Zachary Simon

University of Florida

NSP FELLOW

Age and sex differences in behavior and functional connectomic measures in the human ApoE4 transgenic mouse model

VV56

THEME C: NEURODEGENERATIVE DISORDERS AND INJURY

McKenna Somerville

University of Alabama at Birmingham

NSP ASSOCIATE, SPINES

Early Inflammatory Responses of the Human Optic Nerve Head and Retina in Response to Acute Elevated Intraocular Pressure in Living Eyes

VV55

THEME C: NEURODEGENERATIVE DISORDERS AND INJURY

Isabel Soto

University of North Texas Health Science Center at Fort Worth

NSP FELLOW

Evaluating the Impact of Exercise on UCH-L1, GFAP, and S100B on Early-Stage Parkinson's Disease: A Translational Study Using Pink1-/- and 6-OHDA Rats

VV54

THEME C: NEURODEGENERATIVE DISORDERS AND INJURY

Francisco Torres Torres

University of Michigan

NSP FELLOW

A multi-disciplinary approach to interrogating the relationship between inflammasome signaling and mitochondrial dynamics during ischemia/reperfusion injury

VV53

THEME C: NEURODEGENERATIVE DISORDERS AND INJURY

Marivelisse Velazquez

Michigan State University

BP-ENDURE

Impact of the BDNF rs6265 SNP on Nigrostriatal Innervation Density

VV52

THEME C: NEURODEGENERATIVE DISORDERS AND INJURY

Bryanna Vilnaigre

New York University

BP-ENDURE

Differential effects of beta-amyloid deposition and diagnostic status for changes in hippocampal subfield volume across Alzheimer's disease continuum

VV51

THEME C: NEURODEGENERATIVE DISORDERS AND INJURY

Hamilton White

Worcester Polytechnic Institute and UMass Chan Medical School

NSP ASSOCIATE

Microfluidic high-throughput methods for the induction and characterization of repeatable, titratable traumatic neural injury in the nematode *Caenorhabditis elegans*

VV50

THEME D: SENSORY SYSTEMS

Kensal Coudriet

University of Nevada, Reno

BP-ENDURE

Investigating Gaze Stabilization Responses to Movie Clips

VV49

THEME D: SENSORY SYSTEMS

Omaris Y De Pablo Crespo

University of Puerto Rico at Río Piedras Campus

BP-ENDURE, NEURO-ID

Characterization of neuronal patterns in a transgenic driver line in *Drosophila melanogaster*

VV48

THEME D: SENSORY SYSTEMS

Rachel Frazer

Columbia University

NSP FELLOW

Mechanosensory neurons responsible for dopamine rigid activity and social-touch-like behaviors

VV47

THEME D: SENSORY SYSTEMS

Jay Gonzalez-Amoretti

University of Rochester

NSP ASSOCIATE, SPINES

Characterizing Population Dynamics of the Prefrontal Cortex That Govern the Modulation of Visual Processing

VV46

THEME D: SENSORY SYSTEMS

David Melendez-Perdomo

University of California, San Diego

STARTNEURO

Female Mouse Reproductive State Alters Response to Social Stimuli

VV45

THEME D: SENSORY SYSTEMS

Jonté Roberts

Wake Forest School of Medicine

NSP ASSOCIATE

Meta analysis of multisensory enhancement of detection and localization behavior

VV44

THEME D: SENSORY SYSTEMS

Mariela Rosa Casillas

University of California, San Francisco

NSP FELLOW

Long-term spinal cord imaging of acute and chronic pain states in awake, behaving animals

VV43

THEME D: SENSORY SYSTEMS

Amanda Salazar

Wake Forest School of Medicine

NSP ASSOCIATE

Determining the role of insula-S1 neurons in mediating affective behaviors during alcohol abstinence

VV42

THEME D: SENSORY SYSTEMS

Samir Samadov

Brooklyn College

BP-ENDURE

Behavioral Phenotyping of Optogenetically-Evoked Sensory Responses

VV41

THEME D: SENSORY SYSTEMS

Emily Siff

Yale University

NSP ASSOCIATE

Life, Death & Cannibalism

VV40

THEME D: SENSORY SYSTEMS

Victor Manuel Suarez Casanova

Brandeis University

NSP FELLOW

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

VV39

THEME D: SENSORY SYSTEMS

Miguel De Leon

University of Mississippi

NSP ASSOCIATE

Assessing the effects of Cannabin-chromene on chemotherapy-induced neuropathic pain

VV38

THEME E: MOTOR SYSTEMS

Fisayo Aloba

Emory University

NSP ASSOCIATE

Neural Mechanisms of Prism Adaptation Therapy Using Single and Paired-Pulse Transcranial Magnetic Stimulation

VV37

THEME E: MOTOR SYSTEMS

Tiffany Lin

Hunter College

BP-ENDURE

Characterizing the Kinematics of Skilled Action in a Mouse Model of DYT1 Dystonia

VV36

THEME E: MOTOR SYSTEMS

Aria Walls

City University of New York

NSP ASSOCIATE

Angiotensin Converting Enzyme 2 (ACE2) activity impacts cholinergic physiology in the dorsolateral striatum

VV35

THEME F: INTEGRATIVE PHYSIOLOGY AND BEHAVIOR

Bryson Aldridge

Xavier University of Louisiana

BP-ENDURE

A fly model to study PPP2R5C/PPP2R5D-linked intellectual disability-behavioral analysis

VV34

THEME F: INTEGRATIVE PHYSIOLOGY AND BEHAVIOR

Katherine Anderson

City University of New York

SPINES

Neuroanatomical connectivity between social behavior and motor-control networks

VV33

**THEME F: INTEGRATIVE PHYSIOLOGY
AND BEHAVIOR**

Shantée Ayala

University of California, Los Angeles

NSP ASSOCIATE, SPINES

Locus coeruleus-medial prefrontal cortex projections role in the inability to extinguish fear

VV32

**THEME F: INTEGRATIVE PHYSIOLOGY
AND BEHAVIOR**

Valeria Clemente

Michigan State University

BP-ENDURE

Investigating the relationship between SGK1 phosphorylation and catalytic activity in Neuro2A cells

VV31

**THEME F: INTEGRATIVE PHYSIOLOGY
AND BEHAVIOR**

Michael Conoscenti

University of Utah

NSP ASSOCIATE

Footshock-induced changes in social behavior are mediated by genetically-defined cells in the dBNST

VV30

**THEME F: INTEGRATIVE PHYSIOLOGY
AND BEHAVIOR**

Jhah Cook

Yale University

NSP FELLOW, SPINES

Corticotrophin releasing factor dynamics in learned and innate threats

VV29

**THEME F: INTEGRATIVE PHYSIOLOGY
AND BEHAVIOR**

Sergio Crespo-Flores

Rutgers University–New Brunswick

NSP FELLOW

Sexually dimorphic roles for *Drosophila* circadian clock neuropeptides in regulating rest-activity rhythms

VV28

**THEME F: INTEGRATIVE PHYSIOLOGY
AND BEHAVIOR**

Sinda Fekir

Brown University

D-SPAN

The state-gate hypothesis: Key behavioral events and VTA activity predict rapid increases in local Blood-Brain Barrier permeability

VV27

**THEME F: INTEGRATIVE PHYSIOLOGY
AND BEHAVIOR**

Drake Gorecki

Washington University in St. Louis

BP-ENDURE

Development of a Closed-Loop System for Sleep/Wake Detection in Mice

VV26

**THEME F: INTEGRATIVE PHYSIOLOGY
AND BEHAVIOR**

Hector Haddock

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Piedras Campus

BP-ENDURE

Effects of glyphosate on exploration of a novel context

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**THEME F: INTEGRATIVE PHYSIOLOGY
AND BEHAVIOR**

Madeline Hernandez

University of Washington

BP-ENDURE

Stress-Induced Increases in Calcium and Dynorphin in the Claustrum

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AND BEHAVIOR**

Nashaly Irizarry-Méndez

Ponce Health Sciences University

NSP ASSOCIATE, SPINES

Investigating protein candidates associated with susceptibility to stress-induced extinction impairment in female rodents: a proteomic analysis

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**THEME F: INTEGRATIVE PHYSIOLOGY
AND BEHAVIOR**

Kailyn Price

George Washington University

NSP FELLOW

Properties of VTA Nos1 GABAergic neurons and their contributions to stress responses

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**THEME F: INTEGRATIVE PHYSIOLOGY
AND BEHAVIOR**

Alexis Reed

Lincoln University

BP-ENDURE

Examining the Impact of Post-Weaning Isolation on Oxycodone Analgesia

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**THEME F: INTEGRATIVE PHYSIOLOGY
AND BEHAVIOR**

Fabiana Rosado

University of Puerto Rico at Río Piedras Campus

BP-ENDURE

Extinction of morphine place preference according to estrus cycle and BDNF expression in the absence of extinction training

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**THEME F: INTEGRATIVE PHYSIOLOGY
AND BEHAVIOR**

Preston Siegler

National Institute of Environmental Health Sciences, University of North Carolina at Chapel Hill

NSP FELLOW

Identification of hippocampal area CA2 in Hamster and Vole brain

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**THEME F: INTEGRATIVE PHYSIOLOGY
AND BEHAVIOR**

Aysha Smith

University of Arizona

BP-ENDURE

What Our Mothers Wish They Knew: How Pregnancy Changes Primary Circadian Function in the SCN

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**THEME F: INTEGRATIVE PHYSIOLOGY
AND BEHAVIOR**

Pedro Torres Morales

University of Puerto Rico at Cayey

BP-ENDURE

Morphological and Physiological Properties of Thalamocortical Neurons in the Mouse Dorsal Lateral Geniculate Nucleus

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**THEME F: INTEGRATIVE PHYSIOLOGY
AND BEHAVIOR**

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BP-ENDURE, NEURO-ID

Increased BDNF expression in the hippocampus of male and female rats in the extinction of morphine place preference

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THEME F: INTEGRATIVE PHYSIOLOGY AND BEHAVIOR

Daniela Umana

University of Puerto Rico at Río Piedras Campus

BP-ENDURE

A study of feeding behavior in *Astyanax mexicanus*: Insights into the eating habits of surface and cave-dwelling fish

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THEME F: INTEGRATIVE PHYSIOLOGY AND BEHAVIOR

Antonio White

Michigan State University

NSP FELLOW

Characterizing the Salivary Metabolome in Infants with High and Low Fear Reactivity and Different Microbiomes

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THEME F: INTEGRATIVE PHYSIOLOGY AND BEHAVIOR

Antonio White

Michigan State University

NSP FELLOW

Associations of Salivary Metabolites in Infants with Different Gut Microbiome

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THEME F: INTEGRATIVE PHYSIOLOGY AND BEHAVIOR

Conner Whitten

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NSP FELLOW

Androgen Receptor Knockdown in the Medial Amygdala Leads to Increased Condition Defeat in Syrian Hamsters

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THEME G: MOTIVATION AND EMOTION

Victoria Cadena

Washington University in St. Louis

BP-ENDURE

Neural Emotion Differentiation is Associated With Self-Regulation in Children

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THEME G: MOTIVATION AND EMOTION

Gaby Castro

University of Maryland, College Park

MINDS

Understanding the impact of acute alcohol administration on fear and anxiety neural circuitry: Study overview and preliminary behavioral results

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THEME G: MOTIVATION AND EMOTION

Matilde Castro

Johns Hopkins University

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Central Amygdala Activity During an Ethanol Self-administration Task Dynamically Tracks Motivation State

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THEME G: MOTIVATION AND EMOTION

Lorianna Colon

Children's Hospital of Philadelphia, University of Pennsylvania

NSP FELLOW

Investigating the role of the dentate gyrus in opioid-linked context memory

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THEME G: MOTIVATION AND EMOTION

Adelis Cruz

Texas Agricultural & Mechanical University

D-SPAN

Effects of modulating acetylcholine activity in dorsomedial striatum on punishment of cocaine seeking

VV7

THEME G: MOTIVATION AND EMOTION

Ashley Cunningham

Icahn School of Medicine at Mount Sinai

NSP FELLOW

Functional Roles for Histone Seronylation During Critical Periods of Postnatal Brain Development

VV6

THEME G: MOTIVATION AND EMOTION

Christian D. Del Valle Colón

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Role of alcohol-response genes in *Drosophila* alcohol neuroadaptation

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THEME G: MOTIVATION AND EMOTION

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Alcohol-response genes in *Drosophila* affects sleep patterns

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THEME G: MOTIVATION AND EMOTION

Yasmin Escobedo Iozoya

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NSP FELLOW

Circuits and mechanisms underlying the vulnerability to cocaine-seeking relapse behavior

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THEME G: MOTIVATION AND EMOTION

Leland Fleming

McLean Hospital, Harvard Medical School

D-SPAN

Transgenerational impact of maternal early life adversity on cortical structure and epigenetic age acceleration

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THEME G: MOTIVATION AND EMOTION

Nimesha Gerlus

Duke University

NSP FELLOW

Insular networks in transdiagnostic emotion dysregulation and brain stimulation

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THEME G: MOTIVATION AND EMOTION

Trevonn Gyles

Icahn School of Medicine at Mount Sinai

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Resilient Specific Sex-Conserved Transcriptomic Changes in the Nucleus Accumbens Following Chronic Social Defeat Stress in Mice

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THEME G: MOTIVATION AND EMOTION

Jarildy Javier

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NSP FELLOW

Comparing social and non-social reward responses in the amygdala during a novel two-choice operant task

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THEME G: MOTIVATION AND EMOTION

Lizbeth Liquidano Cortes

University of Nevada, Reno

BP-ENDURE

The Effects of Acute Administration of PN6047 in an Open Field Test

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THEME G: MOTIVATION AND EMOTION

Mydirah Littlepage-Saunders

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NSP FELLOW

Sex differences in delayed fear incubation in mice

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THEME G: MOTIVATION AND EMOTION

Cristina María Ríos

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D-SPAN

The Role of Lateral Habenula Circuits in Approach/Avoidance Conflict

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THEME G: MOTIVATION AND EMOTION

Joyce Milandu

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BP-ENDURE

Brain Measures of Shared and Unique Variance between Internalizing and Externalizing Psychopathology

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Ileana Morales

University of Michigan

D-SPAN

Optogenetic hedonic hotspots in orbitofrontal cortex, insula, ventral pallidum, and anterior cingulate cortex causally enhance liking and wanting for sweet food reward

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THEME G: MOTIVATION AND EMOTION

Sara Morcos

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BP-ENDURE

Activation of dynorphin cells in the dorsal nucleus accumbens shell (dNAcSh) inhibits fentanyl consumption

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THEME G: MOTIVATION AND EMOTION

Emaya Moss

University of Tennessee Health Science Center

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Sex differences in stress-related neuropeptide signaling components and interaction with alcohol in GABAergic neurons of the lateral central amygdala in rats

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THEME G: MOTIVATION AND EMOTION

Nkatha Mwenda

Northwestern University

NSP FELLOW

The role of dopamine in OFC-DMS plasticity in punishment-resistant reward-seeking behavior

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Leo Pereira

Michigan State University

BP-ENDURE

Cortical circuits and incubation of cocaine-craving in adolescent rats

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THEME G: MOTIVATION AND EMOTION

Emily Prevost

University of Colorado Boulder

NSP ASSOCIATE

Glutamatergic and GABAergic μ -opioid receptor VTA neurons differentially modulate motivational and physiological consequences of fentanyl use

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Natalia Rincon

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BP-ENDURE

Comparing Gut-Microbiome Diversity and Function Between People with Alcohol Use Disorder and Healthy Controls

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THEME G: MOTIVATION AND EMOTION

Brooke Shulski

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BP-ENDURE

Juvenile Crime Rates and the Effects of Peer Influence

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THEME G: MOTIVATION AND EMOTION

Anapaula Themann

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Increases in Hippocampal
AKT-mTOR Signaling in Adult Female
C57BL/6 Mice With Juvenile History
of Ketamine Exposure

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THEME G: MOTIVATION AND EMOTION

Manuel Vasconcelos

University of California, San Diego

STARTNEURO, BP-ENDURE

Elucidating the impact of psilocybin on
neural representations of valence in the
medial prefrontal cortex

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THEME G: MOTIVATION AND EMOTION

Allison White

West Virginia University

D-SPAN

Regulator of G protein Signaling-12
modulates cocaine withdrawal-
associated behavior and cocaine
intravenous self-administration in
C57BL/6J mice

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THEME G: MOTIVATION AND EMOTION

Violet Kimble

Yale University

NSP ASSOCIATE

Cue-induced cocaine-seeking and social
interaction behavior during cocaine
abstinence in female rats: role of L-type
calcium channels and dopamine

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THEME H: COGNITION

Shanae Aerts

Yale University

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Machine learning to detect the brain
networks related to auditory conscious
perception without subject report

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THEME H: COGNITION

Giovanna Arantes de Oliveira Campos

Temple University

BP-ENDURE

Does the fornix support episodic
memory and spatial navigation
throughout development? A DTI
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THEME H: COGNITION

Mary Avella

Hunter College

BP-ENDURE

How Does Attention to Detail
Update Our Way of Learning in
the Face of Change?

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THEME H: COGNITION

Almarely Berrios Negrón

Ponce Health Sciences University

NSP ASSOCIATE, SPINES

Effect of Visual Arts on the
Measurement of Sustained Attention
in Young Adults with Attention-Deficit/
Hyperactivity Disorder

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THEME H: COGNITION

Lauren Blagmond

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BP-ENDURE, MINDS

Drinking in the Dark: Binge-Drinking
Model of Alcohol Intake

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THEME H: COGNITION

Joshua Gills

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NSP FELLOW

Hypertension is associated with reduced medial temporal lobe neural flexibility in older African Americans

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THEME H: COGNITION

Naru Kang

University of Maryland, College Park

MINDS

Neural signals in nucleus accumbens are amplified during cognitive control

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THEME H: COGNITION

Ashby Martin

University of Iowa

NSP ASSOCIATE, SPINES

The Neurocognitive Basis of Numerical Processing in Spanish-English Bilingual Preschoolers

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THEME H: COGNITION

Rachel Membreno

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BP-ENDURE

Whose Memory Is Improved by Attending to Event Structure? No Evidence for Modulation by Attentional Control or Episodic Memory Ability in Older Adults

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THEME H: COGNITION

Lewis Nunez Severino

Hunter College

BP-ENDURE

Neural Activity Patterns Underlying Abstract Sequence Viewing in Humans

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THEME H: COGNITION

Loren Peeters

East Tennessee State University

Quillen College of Medicine

D-SPAN

Reinstatement of nicotine conditioned place preference in a heritable model of drug abuse vulnerability in psychosis: Characterizing the BDNF response in brain regions mediating drug reward

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THEME H: COGNITION

Hope Peterson-Sockwell

Wake Forest University School

of Medicine

NSP ASSOCIATE, D-SPAN

Alcohol abstinence and brain networks

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THEME H: COGNITION

Juan Luis Romero Sosa

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NSP FELLOW

Reward expectation violation signals in OFC following single-photon calcium imaging in freely behaving rats

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THEME H: COGNITION

Michelle Ruiz

University of Nevada, Reno

BP-ENDURE

Spontaneous Seizures and Altered Neural Oscillations Following Acute Intoxication with DFP

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Melody Schwenk

Gallaudet University

NSP ASSOCIATE

Impact of American Sign Language Fluency on Response Time and Accuracy in Visual-Spatial Tasks

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Noor Tasnim

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NSP ASSOCIATE

Examining the neurological and behavioral effects of musical theater training on people with disabilities

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Linisa Williams

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BP-ENDURE

Neural Markers Associated With the Effect of Working Memory Training on Fear Extinction

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Jessica Olivia Young

University of California, San Diego

BP-ENDURE

Nurturing Interoceptive Attention and Emotional Cognitive Control: The Impact of Breath-Focused Cooperative Compassion Training in Parent-Child Dyads

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Ryan Henry

Yale University

BP-ENDURE

Binge Eating and Cognitive Flexibility: A Prospective Study on Food Valuation Deficits in Obesity

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Martina Hollearn

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NSF SCHOLAR

Exploring stimulation parameters and individual differences in amygdala-mediated memory modulation

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NSP ASSOCIATE

Constructing a hierarchical Kalman filter for extraction of adaptive neural population dynamics

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Joel Rejouis

Brooklyn College

BP-ENDURE

Brain Stimulation Study of Memory and Memory Awareness

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Dom Acri

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NSP FELLOW

Improving Yield and Cell Type Diversity in Nuclei Isolated from Mouse Brain

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THEME I: TECHNIQUES

Miles Carter

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BP-ENDURE

Validation of Camelid Nanobodies for imagining Alzheimer's Disease

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THEME I: TECHNIQUES

Sarahi Enriquez

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SPINES

Development of a PCA-based calibration model for quantifying DNA oligonucleotides analogous to microRNAs 219 and 132

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Alek Helgesen-Thompson

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BP-ENDURE

Machine Learning-Based Prediction of Seizure Stage in a Mouse Model of Epilepsy

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THEME I: TECHNIQUES

Ana Hernandez Reynoso

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NSP ASSOCIATE

A machine learning-based approach to select parameters for safe electrical neural stimulation

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THEME I: TECHNIQUES

Nila Keri

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BP-ENDURE

Investigating the feasibility of utilizing fiber photometry during cocaine self administration

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THEME I: TECHNIQUES

Nicole Lalta

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Using Causally Informed Functional Connectivity Methods to Identify Prefrontal-cingulate TMS Target for Reward Positivity Modulation

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Penelope Lilley

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BP-ENDURE

Non-Human Primate In-Cage Training on Tracking Task

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THEME I: TECHNIQUES

Danilo Trinidad Perez-Rivera

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Constructing a hierarchical Kalman filter for extraction of adaptive neural population dynamics

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THEME I: TECHNIQUES

Ricardo Vera

University of Puerto Rico at Río Piedras Campus

BP-ENDURE, NEURO-ID

Optimizing a qRT-PCR protocol for *H. glaberrima* radial nerve cords

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THEME J: HISTORY, EDUCATION, AND SOCIETY

Dominique Pritchett

Howard University

NEURODEGENERATION COMPUTATIONAL FELLOWS PROGRAM

The Neurodegeneration Computational Fellows Program: A multi-institution approach to recruiting and training computational biologists

TT6

THEME J: HISTORY, EDUCATION, AND SOCIETY

Nicolas Silva

The University of Texas at El Paso

NSP ASSOCIATE

Neuroarts: Neuroscience, Health, and Society

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THEME J: HISTORY, EDUCATION, AND SOCIETY

Kizzy Vazquez

Hunter College

BP-ENDURE

What are the programmatic components that make the BPENDURE program successful?

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FOR THE ONLINE VERSION:

