



EARLY CAREER POSTER SESSION
**Faculty for Undergraduate
Neuroscience (FUN) Posters**

Society for Neuroscience
Saturday, October 5
6:30–8:30 p.m. CDT
McCormick Place Convention Center: Hall A

The Early Career Poster Session features undergraduate presenters from the Faculty for Undergraduate Neuroscience (FUN). FUN is an international organization supporting neuroscience research and education at the undergraduate level.



SOCIETY *for*
NEUROSCIENCE

Theme A: Development

Nicole Cofsky

Trinity University

*Faculty for Undergraduate
Neuroscience (FUN)*

Undergraduate Student

Early life sleep deprivation
induces autistic-like communicative
deficits in C57BL/6J mice

A8

Theme A: Development

Soraya Cortes Coria

Arizona State University

*Faculty for Undergraduate
Neuroscience (FUN); Trainee
Professional Development
Award (TPDA)*

Undergraduate Student

Age-related decline in expressive
language and related brain
structures among autistic adults

A9

Theme A: Development

Rexhebij Kadriu

Princeton University

*Faculty for Undergraduate
Neuroscience (FUN)*

Undergraduate Student

The Effect of Thyroid Hormone
Levels on Brain-wide Response to
Acute Social Stressors in Mice

A25

Theme A: Development

Anna Kalinowski

James Madison University

*Faculty for Undergraduate
Neuroscience (FUN)*

Undergraduate Student

Delayed neurodevelopmental
milestones in conditional
Itgb3 KO mice

A26

Theme A: Development

Ely Lettow

Skidmore College

*Faculty for Undergraduate
Neuroscience (FUN)*

Undergraduate Student

Resocialization Rescues Deleterious
Sleep Effects of Developmental
Isolation in *Drosophila melanogaster*

A30

Theme A: Development

Mika Lopez

University of Puget Sound

*Faculty for Undergraduate
Neuroscience (FUN)*

Undergraduate Student

Putative neural mechanism
underlying morphological changes
induced by a 5-alpha reductase
inhibitor in the pond snail

A34

Theme A: Development

Paige McKenzie

Princeton University

*Faculty for Undergraduate
Neuroscience (FUN)*

Undergraduate Student

Curiosity in Bloom: Examining
Toddlers' Motivation to Explore
Their Own Abilities

A37

Theme A: Development

Jessica Muckerheide

Western Washington University

*Faculty for Undergraduate
Neuroscience (FUN)*

Undergraduate Student

Optimization of Cannabidiol's
Efficacy and Safety in Mice

A39

Theme A: Development

Kaeden Yoder

Christopher Newport University

*Faculty for Undergraduate
Neuroscience (FUN)*

Undergraduate Student

Characterizing social deficits
and potential prosocial effects
of D-cycloserine in adolescent
Df(h22q11)/+ mice, a model of
22q11.2 Deletion Syndrome

A61

Theme B: Neural Excitability, Synapses, and Glia

Emily Akers

Marshall University

*Faculty for Undergraduate
Neuroscience (FUN)*

Undergraduate Student

Characterizing the Effects of
Early Life Opioid Exposure on
Neuronal and Astrocytic Structural
Synaptic Development

A69

Theme B: Neural Excitability, Synapses, and Glia

Dabira Alonge-Oludaye

Pomona College

*Faculty for Undergraduate
Neuroscience (FUN)*

Undergraduate Student

An Epileptogenic Investigation:
Analyzing the Bang Sensitive
julius seizure Gene and the
Role Vesicular Acetylcholine
& GABA Transporters
Play in Seizure Susceptibility

A71

Theme B: Neural Excitability, Synapses, and Glia

Samikshya Pokharel

Grinnell College

*Faculty for Undergraduate
Neuroscience (FUN)*

Undergraduate Student

Presynaptic homeostatic potentiation
at the mouse neuromuscular junction.

B48

**Theme B: Neural Excitability,
Synapses, and Glia**

Anjali Raheja

St. Mary's College of Maryland
*Faculty for Undergraduate
Neuroscience (FUN)*

Undergraduate Student

Male NS-Pten Adult Knockout
Mice Display Increased Density
of Iba1-Positive Microglia of an
Immature Morphology Throughout
the Hippocampal Dentate Gyrus

B49

**Theme B: Neural Excitability,
Synapses, and Glia**

Jonathan Saidon

University of Connecticut
*Faculty for Undergraduate
Neuroscience (FUN)*

Undergraduate Student

Midkine and Syndecan-4 Double
Knockout by CRISPR May Alter
Vascular Development in a Mouse
Model of Supratentorial Ependymoma

B53

**Theme B: Neural Excitability,
Synapses, and Glia**

Rianna Smith

Marshall University
*Faculty for Undergraduate
Neuroscience (FUN)*

Undergraduate Student

Do Silver Nanoparticles Disrupt
Synapse Structure in Rat Brain?

B58

**Theme B: Neural Excitability,
Synapses, and Glia**

Diana Wittrock

Dominican University
*Faculty for Undergraduate
Neuroscience (FUN)*

Undergraduate Student

Epigenetic Regulation Following
Long-Term Sensitization Training
in *Aplysia californica*

B68

**Theme C: Neurodegenerative
Disorders and Injury**

Perla Arias

**Rosalind Franklin University
of Medicine and Science**
*Faculty for Undergraduate
Neuroscience (FUN)*

Undergraduate Student

The impact of pregnancy on mood,
cognition, and microglia function
in Alzheimer's disease mice

B78

**Theme C: Neurodegenerative
Disorders and Injury**

Srivatsa Bellamkonda

Washington & Jefferson College
*Faculty for Undergraduate
Neuroscience (FUN)*

Undergraduate Student

Enhanced vulnerability to trauma-
induced neurodegeneration in a
Drosophila model of human tauopathy

B81

Theme C: Neurodegenerative Disorders and Injury

Haley Capeci

University of Pittsburgh

Faculty for Undergraduate Neuroscience (FUN); Trainee Professional Development Award (TPDA)

Undergraduate Student

Enriching rats prior to traumatic brain injury does not protect against subsequent neurobehavioral deficits

B88

Theme C: Neurodegenerative Disorders and Injury

Kate Feist

Lake Forest College

Faculty for Undergraduate Neuroscience (FUN)

Undergraduate Student

Pathogenicity Assessment of Three Newer Alpha-Synuclein Mutants Under Varying Expression Levels in Yeast Reveals Differential Toxicity

B119

Theme C: Neurodegenerative Disorders and Injury

Sebastian Gacek

Lake Forest College

Faculty for Undergraduate Neuroscience (FUN)

Undergraduate Student

Pathogenicity Assessment of Three Newer Alpha-Synuclein Mutants Under Varying Expression Levels in Yeast Reveals Differential Toxicity

B121

Theme C: Neurodegenerative Disorders and Injury

Willow Irving

Lewis and Clark College

Faculty for Undergraduate Neuroscience (FUN)

Undergraduate Student

Investigating the effects of Parkinson's disease-associated mutations on alpha-synuclein protein aggregation in vivo

B139

Theme C: Neurodegenerative Disorders and Injury

Pradnya Jagdale

University of Florida

Faculty for Undergraduate Neuroscience (FUN)

Undergraduate Student

Cannabinoid receptor 2 deficiency directs sex-specific increase in tau phosphorylation in organotypic brain slice cultures

B141

Theme C: Neurodegenerative Disorders and Injury

Zora Jamison

Furman University

Faculty for Undergraduate Neuroscience (FUN)

Undergraduate Student

The Fish Brain Response to Injury Elicits Differential Expression of the Pim Kinase Proto-Oncogenes

B142

Theme C: Neurodegenerative Disorders and Injury

Swetha Jeyagopal

University of Florida

Faculty for Undergraduate Neuroscience (FUN)

Undergraduate Student

Cognitive effects of intra-striatal injection of alpha-synuclein preformed fibrils in young versus aged rats

C2

Theme C: Neurodegenerative Disorders and Injury

Masin Kearney

Emory University

Faculty for Undergraduate Neuroscience (FUN)

Undergraduate Student

Phosphorylated Peptide Enrichment for Phosphoproteome Analysis in Alzheimer's Disease

C7

Theme C: Neurodegenerative Disorders and Injury

Holly Kiernan

Lake Forest College

Faculty for Undergraduate Neuroscience (FUN)

Undergraduate Student

Synucleinopathies: Molecular Determinants of β -Synuclein and γ -Synuclein Toxicity in a Yeast Model

C11

Theme C: Neurodegenerative Disorders and Injury

Ainsley Kindred

John G. Rangos Sr. Research Center

Faculty for Undergraduate Neuroscience (FUN)

Undergraduate Student

Rescuing sustained attention capability in aged rats using a combined therapy of nicotinic acetylcholine receptor allosteric modulation and environmental enrichment after experimental brain trauma

C13

Theme C: Neurodegenerative Disorders and Injury

Kierra Marshall

Davidson College

Faculty for Undergraduate Neuroscience (FUN)

Undergraduate Student

Lesion-Induced Synaptic Plasticity of the Crossed Temporodentate and Septodentate Pathways in Intact versus Ovariectomized Female Rats

C22

Theme C: Neurodegenerative Disorders and Injury

Corryn McAfee

Davidson College

Faculty for Undergraduate Neuroscience (FUN)

Undergraduate Student

The Y-Maze and Radial Arm Maze Demonstrate Differences in Rat Spatial Working Memory Performance after Bilateral Entorhinal Cortex Lesions

C24

Theme C: Neurodegenerative Disorders and Injury

Sadie Meredith-Andrews

Lewis & Clark College

Faculty for Undergraduate Neuroscience (FUN)

Undergraduate Student

Investigating the role of phosphorylation in alpha-synuclein aggregation

C29

Theme C: Neurodegenerative Disorders and Injury

Taylor Mikolajczak

Trinity College

Faculty for Undergraduate Neuroscience (FUN)

Undergraduate Student

Role of Estrogen in Socio-Cognitive Functioning and Neurodegeneration in a Sprague Dawley Model of Early-Onset Alzheimer's disease

C32

Theme C: Neurodegenerative Disorders and Injury

Tyra Nguyen

NYU Grossman of Medicine

Faculty for Undergraduate Neuroscience (FUN); Trainee Professional Development Award (TPDA)

Undergraduate Student

Acute A β 12-28P administration targeting the apoE4/A β interaction rescues advanced-stage Alzheimer's disease

C42

Theme C: Neurodegenerative Disorders and Injury

Duy Nguyen

Grinnell College

Faculty for Undergraduate Neuroscience (FUN)

Undergraduate Student

A meta-analysis of transcriptomic alterations in viral encephalitis

C43

Theme C: Neurodegenerative Disorders and Injury

Lizza O'Connell

The Ohio State University

Faculty for Undergraduate Neuroscience (FUN)

Undergraduate Student

Frontal traumatic brain injury increases suboptimal impulsive choice in rats

C47

Theme C: Neurodegenerative Disorders and Injury

Santiago Serrano

Pomona College

Faculty for Undergraduate Neuroscience (FUN)

Undergraduate Student

Exploring the therapeutic potential of strategies that upregulate sAPP α and reduce beta-amyloid

C72

Theme C: Neurodegenerative Disorders and Injury

Jennifer Tallackson
University of North Dakota
Faculty for Undergraduate
Neuroscience (FUN)

Undergraduate Student
Alzheimer's disease associated
pulmonary changes in humans and
the AppNL-G-F mouse model

C82

Theme C: Neurodegenerative Disorders and Injury

Grace Tavi
Central Michigan University
Faculty for Undergraduate
Neuroscience (FUN)

Undergraduate Student
Effects of Liraglutide on STZ-
Treated Aged C57 Mice

C84

Theme C: Neurodegenerative Disorders and Injury

Ann Titus
University of Florida
Faculty for Undergraduate
Neuroscience (FUN)

Undergraduate Student
Identifying peripheral immune
response signature dependent on
Parkinson's Disease progression

C85

Theme C: Neurodegenerative Disorders and Injury

Melissa Tribley
Washington & Jefferson College
Faculty for Undergraduate
Neuroscience (FUN)

Undergraduate Student
Impact of reduced gut bacteria on
neurodegeneration in a Drosophila
model of human tauopathy

C89

Theme C: Neurodegenerative Disorders and Injury

Daniel Tulchinskiy
Lake Forest College
Faculty for Undergraduate
Neuroscience (FUN)

Undergraduate Student
Differential immune responses
may contribute to varying outcomes
between a single, severe TBI
and a mild, repeated TBI

C90

Theme C: Neurodegenerative Disorders and Injury

Rushika Weerackoon
University of California Irvine
Faculty for Undergraduate
Neuroscience (FUN)

Undergraduate Student
Delineating the Relationship
Between Plasma Biomarkers
and Brain Amyloid Pathology In
Preclinical Alzheimer's Disease

C93

Theme D: Sensory Systems

Vaughn Brown

Pomona College

*Faculty for Undergraduate
Neuroscience (FUN)*

Undergraduate Student

Identification of a new odorant that is detected by the AWCOFF neuron in *Caenorhabditis elegans*

C101

Theme D: Sensory Systems

Kobi Kobi

CUNY Brooklyn College

*Faculty for Undergraduate
Neuroscience (FUN); Trainee
Professional Development
Award (TPDA)*

Undergraduate Student

Localization of dopamine D2a and D1Aa receptor expression in the central auditory system of a vocal fish

C122

Theme D: Sensory Systems

Melvin Osei Opoku

Princeton University

*Faculty for Undergraduate
Neuroscience (FUN)*

Undergraduate Student

Decoding *Drosophila's* Visual Neuron Function Using Connectomics

C132

Theme D: Sensory Systems

Prithu Purkait

Indian Institute of Science

*Faculty for Undergraduate
Neuroscience (FUN)*

Undergraduate Student

Encoding of light direction and object identity in the monkey inferior temporal cortex

C134

Theme D: Sensory Systems

Sarah Rajan

Rutgers University

*Faculty for Undergraduate
Neuroscience (FUN)*

Undergraduate Student

Auditory cocaine conditioning induces neuroplasticity in the early auditory system and implicates the locus coeruleus in sound-cued control of behavior

C135

Theme D: Sensory Systems

Dallas Shuman

Furman University

*Faculty for Undergraduate
Neuroscience (FUN)*

Undergraduate Student

Benign Taste Experience Enhances Aversion Memory Persistence and Plasticity Markers in Gustatory Cortex

C141

Theme E: Motor Systems

Hailey Arias

Trinity University

*Faculty for Undergraduate
Neuroscience (FUN)*

Undergraduate Student

Synaptic control from the
Pedunculopontine Tegmental
Nucleus to target-defined
Dopaminergic Neurons

C152

Theme E: Motor Systems

Ephraim Boamah

Bowdoin College

*Faculty for Undergraduate
Neuroscience (FUN)*

Undergraduate Student

The Effects of MPTP on the Spinal
Locomotor Network within the
Mammalian Spinal Cord

C155

Theme E: Motor Systems

Margaret Broaddus

Bowdoin College

*Faculty for Undergraduate
Neuroscience (FUN)*

Undergraduate Student

Synaptic transmitter and hemolymph
co-modulation of the pyloric rhythm
in the crab *Cancer borealis*

C157

Theme E: Motor Systems

Jasmine Jia

Bowdoin College

*Faculty for Undergraduate
Neuroscience (FUN)*

Undergraduate Student

Modulation of Vertebrate Spinal
Locomotor Activity via Temperature
and Ion Channel Function

D12

Theme E: Motor Systems

Caedyn Lipovsky

Princeton University

*Faculty for Undergraduate
Neuroscience (FUN)*

Undergraduate Student

Re-analyzing the Null Space
Hypothesis for Preparatory
Activity in the Motor Cortex

D14

Theme E: Motor Systems

David Lukacik

Arizona State University

*Faculty for Undergraduate
Neuroscience (FUN)*

Undergraduate Student

Development and Validation of a
Novel Fine Motor Task for Preclinical
Analysis of Dexterity with Implications
for Neurodegenerative Disorders

D15

Theme E: Motor Systems

Stefania Priestley

UCLA

*Faculty for Undergraduate
Neuroscience (FUN)*

Undergraduate Student

Sex Chromosomes Affect Density
of Rat Cerebellar Granule Cells

D23

Theme E: Motor Systems

Angelys Rivera-Hernández

Princeton University

*Faculty for Undergraduate
Neuroscience (FUN)*

Undergraduate Student

Cortico-striatal representation
of decision variables across
cognitive demand

D24

Theme E: Motor Systems

Isabela Rodriguez Avila

University of Houston Downtown

*Faculty for Undergraduate
Neuroscience (FUN)*

Undergraduate Student

Quantitative Trait Locus Analysis
to Identify genes associated with
four parameters of locomotive
controlled activities in *Drosophila*
simulans, *Drosophila sechellia*,
and their interspecies lines.

D26

Theme F: Integrative Physiology and Behavior

Nigina Aripova

Washington University in Saint Louis

*Faculty for Undergraduate
Neuroscience (FUN)*

Undergraduate Student

Disruption of circadian signaling
to GBM tumors desynchronizes
intrinsic Per2 rhythms and
slows disease progression

D43

Theme F: Integrative Physiology and Behavior

Grace Augustine

Trinity University

*Faculty for Undergraduate
Neuroscience (FUN)*

Undergraduate Student

Developing a Biobehavioral
Assessment for Common
Marmosets (*Callithrix jacchus*)

D49

Theme F: Integrative Physiology and Behavior

Eshani Baez

Bowdoin College

*Faculty for Undergraduate
Neuroscience (FUN)*

Undergraduate Student

Neonatal cannabidiol treatments
leads to sex-specific changes in rat
ultrasonic vocalization outcomes
following pain exposure

D51

Theme F: Integrative Physiology and Behavior

Amanda Brasch

Arizona State University

Faculty for Undergraduate Neuroscience (FUN)

Undergraduate Student

The DNA of addiction: exploring the genetic factors in nicotine dependence and cessation

D56

Theme F: Integrative Physiology and Behavior

Isabella Caddeau

Middlebury College

Faculty for Undergraduate Neuroscience (FUN)

Undergraduate Student

Prolactin increases cell proliferation but not neurogenesis in the dentate gyrus of adult male rats.

D57

Theme F: Integrative Physiology and Behavior

Viviana DePinto

University of Puget Sound

Faculty for Undergraduate Neuroscience (FUN)

Undergraduate Student

Characterization of Kynurenic Acid in the Nervous System of the Pond Snail *Helisoma*

E6

Theme F: Integrative Physiology and Behavior

Hannah Dodson

Baldwin Wallace University

Faculty for Undergraduate Neuroscience (FUN)

Undergraduate Student

Sex-Dependent Differences in Cortisol Levels of Zebrafish (*Danio rerio*) are Observed After Exposure to High-Fat and Overfed Diets

E8

Theme F: Integrative Physiology and Behavior

Hannah Fisher

Haverford College

Faculty for Undergraduate Neuroscience (FUN)

Undergraduate Student

A shortened chronic variable stress paradigm does not alter anxiety or motivated behaviors in female C57BL/6 mice

E12

Theme F: Integrative Physiology and Behavior

Gabrielle Gorostiza

California State University, East Bay

Faculty for Undergraduate Neuroscience (FUN)

Undergraduate Student

Antinociceptive effects of dual fatty acid amide hydrolase and soluble epoxide hydrolase inhibitors in rat models of inflammatory pain

E16

Theme F: Integrative Physiology and Behavior

Kathryn Guo

University of Chicago

Faculty for Undergraduate Neuroscience (FUN)

Undergraduate Student

Generalization between two types of reward learning in β -arrestins 2 knockout mice

E18

Theme F: Integrative Physiology and Behavior

Beatrice Hadiwidjaja

Princeton University

Faculty for Undergraduate Neuroscience (FUN)

Undergraduate Student

Quantifying Behavioral Response to Alarming and Novel Stimuli in Larval Zebrafish

E21

Theme F: Integrative Physiology and Behavior

Michelle He

Boston University

Faculty for Undergraduate Neuroscience (FUN)

Undergraduate Student

Stress-Evoked Astrocyte-Neuron Dynamics in the Lateral Hypothalamus

E24

Theme F: Integrative Physiology and Behavior

Annette Kim

Harvard College

Faculty for Undergraduate Neuroscience (FUN)

Undergraduate Student

Molecular and functional profiling of vagal sensory neurons

E29

Theme F: Integrative Physiology and Behavior

Kaitlyn Kinslow

Christopher Newport University

Faculty for Undergraduate Neuroscience (FUN)

Undergraduate Student

The Effect of Synthetic Alarm Substance (C5H4N4O2) on Established Zebrafish Shoals

E30

Theme F: Integrative Physiology and Behavior

Eun Lee

Columbia University

Faculty for Undergraduate Neuroscience (FUN)

Undergraduate Student

The Role of the Main Olfactory Epithelium During Motherhood

E32

Theme F: Integrative Physiology and Behavior

Sammi McLemore

Bowdoin College

Faculty for Undergraduate Neuroscience (FUN)

Undergraduate Student

Influence of semaphorins on development, adult neuronal plasticity, and behavior

F3

Theme F: Integrative Physiology and Behavior

Sofia Nelson

Fairfield University

Faculty for Undergraduate Neuroscience (FUN)

Undergraduate Student

Sex and stress effects on the discriminative stimulus properties of cocaine in rats

F14

Theme F: Integrative Physiology and Behavior

Edgar J Ocasio Arce

Princeton University

Faculty for Undergraduate Neuroscience (FUN)

Undergraduate Student

Network Correlates of Aggression Experience and Observation

F15

Theme F: Integrative Physiology and Behavior

Thanuja Ramesh

St. Olaf College

Faculty for Undergraduate Neuroscience (FUN)

Undergraduate Student

Head direction cell activity and spatial memory is disrupted during administration of NMDA-receptor antagonists.

F23

Theme F: Integrative Physiology and Behavior

Mary Ramirez

Pomona College

Faculty for Undergraduate Neuroscience (FUN)

Undergraduate Student

Chronic Mild Stress Produces Sex Differences in Spatial Learning and Memory and Synaptic Plasticity

F24

Theme F: Integrative Physiology and Behavior

Sam Shaffer

Fairfield University

Faculty for Undergraduate Neuroscience (FUN)

Undergraduate Student

Restraint stress and cocaine cross-sensitization: influence of adrenergic signaling in male rats

F34

Theme F: Integrative Physiology and Behavior

Camila Vargas-Calatayud
Furman University
Faculty for Undergraduate Neuroscience (FUN)

Undergraduate Student

The influence of age on the gut-brain axis following recovery from an intestinal insult

G8

Theme F: Integrative Physiology and Behavior

Eve Waldron
Skidmore College
Faculty for Undergraduate Neuroscience (FUN)

Undergraduate Student

Examination of how carbamazepine affects sleep in different light-controlled environments in *Drosophila melanogaster*

G10

Theme G: Motivation and Emotion

Toni Duan
Grinnell College
Faculty for Undergraduate Neuroscience (FUN)

Undergraduate Student

A meta-analysis of the effects of early life stress on the prefrontal cortex transcriptome suggests long-term effects on myelin

G34

Theme G: Motivation and Emotion

Petar Elenkov
Macalester College
Faculty for Undergraduate Neuroscience (FUN)

Undergraduate Student

The Effects of Depleted Peripheral Macrophages on Alcohol Addiction Reward-Seeking Behaviors in Mice

G36

Theme G: Motivation and Emotion

Iris Guo
Macalester College
Faculty for Undergraduate Neuroscience (FUN)

Undergraduate Student

Cholinergic mechanisms of Pavlovian conditioned approach behavior in rats

H8

Theme G: Motivation and Emotion

Jonah Henderson
Dickinson College
Faculty for Undergraduate Neuroscience (FUN)

Undergraduate Student

Effects of Post-Training Dopaminergic and Beta-adrenergic Antagonism on Sensitization

H12

Theme G: Motivation and Emotion

Lauren Martindale

Swarthmore College

*Faculty for Undergraduate
Neuroscience (FUN)*

Undergraduate Student

Roots of relapse: Investigating the role of motivation and stress in resistance to diet-based interventions for compulsive overeating

H32

Theme G: Motivation and Emotion

Ella Moriarty

Pomona College

*Faculty for Undergraduate
Neuroscience (FUN)*

Undergraduate Student

The Role of Self-Construal in Prefrontal Activity During Emotional Suppression: An fNIRS Study

H36

Theme G: Motivation and Emotion

Avery Pruitt

Washington State University

*Faculty for Undergraduate
Neuroscience (FUN)*

Undergraduate Student

Dorsal raphe to basolateral amygdala corticotropin-releasing factor circuit regulates cocaine-memory reconsolidation in rats

I5

Theme G: Motivation and Emotion

Aili Ramsden

Trinity College

*Faculty for Undergraduate
Neuroscience (FUN)*

Undergraduate Student

Role of Estradiol in the Behavioral Effects of Cocaine in a Rodent Model of ADHD

I7

Theme G: Motivation and Emotion

Julia Thomas

St. Mary's College of Maryland

*Faculty for Undergraduate
Neuroscience (FUN)*

Undergraduate Student

Investigating the effects of environmental enrichment on morphine-induced withdrawal symptoms and anxiety-like behavior.

I18

Theme G: Motivation and Emotion

Kennedy Tysoj

Princeton University

*Faculty for Undergraduate
Neuroscience (FUN)*

Undergraduate Student

Investigating the Link Between Social Reward Sensitivity and Social Media Addiction

I21

Theme G: Motivation and Emotion

Tran Vo

DePauw University

*Faculty for Undergraduate
Neuroscience (FUN)*

Undergraduate Student

Behavioral Tests for the
Characterization of Zebrafish
Acetylcholine Receptor Mutants

I25

Theme H: Cognition

Corey (Faith) Broersma

University of Florida

*Faculty for Undergraduate
Neuroscience (FUN)*

Undergraduate Student

Electrophysiological Signatures
of Novel Language Learning
in the Earliest Stages

I39

Theme H: Cognition

Isabelle Cote

University of San Diego

*Faculty for Undergraduate
Neuroscience (FUN)*

Undergraduate Student

The effects of immersive visual
distractor cues in virtual reality on
human solutions of the Traveling
Salesman Problem (TSP)

J4

Theme H: Cognition

Sofia Fazazi

The College of Wooster

*Faculty for Undergraduate
Neuroscience (FUN)*

Undergraduate Student

Yoga intervention improves
ADHD and cognitive measures
in emerging adults with ADHD

J12

Theme H: Cognition

Nicholas Fish

Chapman University

*Faculty for Undergraduate
Neuroscience (FUN)*

Undergraduate Student

Triangulating Neural Correlates
of Consciousness

J13

Theme H: Cognition

Elise Gamino

Dominican University

*Faculty for Undergraduate
Neuroscience (FUN)*

Undergraduate Student

Evidence of Active-Forgetting
Mechanisms? Blocking Arachidonic
Acid Release May Slow Forgetting
of Sensitization in Aplysia

J16

Theme H: Cognition

Emma Gibbens

Bowdoin College

*Faculty for Undergraduate
Neuroscience (FUN)*

Undergraduate Student

Establishing directionality of
information flow during post-retrieval
monitoring in episodic memory

J18

Theme H: Cognition

Alexa Gorman

Princeton University

*Faculty for Undergraduate
Neuroscience (FUN)*

Undergraduate Student

Decoding learned content
during sleep: A representational
similarity approach

J19

Theme H: Cognition

Karra Howles

St. Olaf College

*Faculty for Undergraduate
Neuroscience (FUN)*

Undergraduate Student

Sex, drugs, and working memory:
The effect of sex differences and
MK-801 administration on learning in
the delayed alternation task in the rat

J25

Theme H: Cognition

Anna Rakowski

Macalester College

*Faculty for Undergraduate
Neuroscience (FUN)*

Undergraduate Student

Exploring Immune Biomarkers
in Ethanol Addiction Using
Mice and Monkey Models

K20

Theme H: Cognition

Diba Ramezan

Loyola University Maryland

*Faculty for Undergraduate
Neuroscience (FUN)*

Undergraduate Student

Neurobiological Effects of
Antiepileptic Drugs in Rats with Age-
related Spatial Memory Deficits

K22

Theme H: Cognition

Ryan Read

University of California, Berkeley

*Faculty for Undergraduate
Neuroscience (FUN)*

Undergraduate Student

Functional microstructure of value
tuning in primate orbitofrontal cortex

K23

Theme H: Cognition

Legasse Remon
Princeton University

*Faculty for Undergraduate
Neuroscience (FUN)*

Undergraduate Student

The Limits of Vision Language
Models Through the Lens of
the Binding Problem

K24

Theme H: Cognition

Lila Roblin
Northern Illinois University

*Faculty for Undergraduate
Neuroscience (FUN)*

Undergraduate Student

Tracking Developmental Changes
in Spatial Orientation Using
Organization of Open Field Behavior
in The 5xFAD Mice Model.

K26

Theme H: Cognition

José Rodríguez
University of Florida
*Faculty for Undergraduate
Neuroscience (FUN)*

Undergraduate Student

Effects of chronic vagus nerve
stimulation in aging

K27

Theme H: Cognition

Dylan Ross
Tulane University

*Faculty for Undergraduate
Neuroscience (FUN)*

Undergraduate Student

A novel behavioral measure
of long-term memory for
naturalistic social content

K28

Theme H: Cognition

Khayla Santiago
Lawrence University
*Faculty for Undergraduate
Neuroscience (FUN)*

Undergraduate Student

Neural Basis for Concurrent
Visual Perception and Visual
Working Memory Processing

K30

Theme H: Cognition

Catherine Shi
Brandeis University
*Faculty for Undergraduate
Neuroscience (FUN)*

Undergraduate Student

Vicarious Trial and Errors (VTEs)
Represent Deliberation

K33

Theme H: Cognition

Yujingai Shi

Princeton University

*Faculty for Undergraduate
Neuroscience (FUN)*

Undergraduate Student

Rhythmic Endogenous Attention
Sampling Under Spatial Uncertainty

K34

Theme H: Cognition

Bradley Stinnette

Loyola University Maryland

*Faculty for Undergraduate
Neuroscience (FUN)*

Undergraduate Student

The role of sleep in age-related
cognitive decline: A search for
cellular and molecular substrates

L3

Theme H: Cognition

Aasrita Tulluri

Loyola University Chicago

*Faculty for Undergraduate
Neuroscience (FUN)*

Undergraduate Student

Fear Memory Engrams in the
Dorsal Hippocampus During Fear
Learning and Fear Generalization:
Implications for Vulnerability to
Post-Traumatic Stress Disorder

L6

Theme H: Cognition

William Wade

Loyola University Chicago

*Faculty for Undergraduate
Neuroscience (FUN)*

Undergraduate Student

Exploring the Impact of Drug-
Associated Memories in the Dentate
Gyrus on Drug-Seeking Behavior

L8

Theme H: Cognition

Jared Weight

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Undergraduate Student

Ketogenic Diet impact on Long-
Term Potentiation in the Dorsal CA1
Hippocampal Region and Memory
Behavior in Young and Adult Rodents

L11

Theme I: Techniques

Ian Faul

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A surface-based probabilistic atlas
of the anterior medial temporal lobes:
temporopolar, entorhinal, perirhinal,
and parahippocampal cortex

L26

Theme I: Techniques

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Evolutionary algorithms and diverse neuronal classes support learning in recurrent spiking neural network models of the brain

L34

Theme I: Techniques

Kemal Ozdemirli

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A high-throughput pipeline for precise pupil size measurement using deep learning in mice and humans

M3

Theme I: Techniques

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Computational Representation of Skin Pattern in Dwarf Cuttlefish

M6

Theme I: Techniques

Liyah Reed

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Comprehensive Analysis of Solution Optimized Fentanyl and its Analogs in the Human μ -Opioid Receptor

M7

Theme J: History, Education, and Society

Amelia Collins

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Student-developed in-class exercises using schematic physical models to enhance learning of functional neuroanatomy

M18

Theme J: History, Education, and Society

Carolyn DePinho

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Proposing a multistage, interdisciplinary research approach to expand educational neuroscience into new cognitive territories

M20

**Theme J: History, Education,
and Society**

Jessica Ha

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Time On Task is More Predictive
of Undergraduate Success in
a Neuropharmacology Course
than Visual Spatial Ability

M23

**Theme J: History, Education,
and Society**

Jacob Liu

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Professional Development
Award (TPDA)*

Undergraduate Student

Influence of first-generation
status on student metacognition
and academic performance in
undergraduate biology education

M24

**Theme J: History, Education,
and Society**

Craig McFarland

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*Early Career Policy Ambassadors
(ECPA); Faculty for Undergraduate
Neuroscience (FUN)*

Undergraduate Student

Neuropsychiatric Disorders and
the Misguided Emphasis on
Individual Responsibility in Public
Health Policy and Interventions

M25

**Theme J: History, Education,
and Society**

Nicole Spagna

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Neuroscience (FUN)*

Undergraduate Student

A novel rat model of sudden social
withdrawal (experienced universally
during the COVID pandemic)
offers inclusive opportunities for
behavioral and neurophysiological
investigation by early stage college
students that are experimentally
accessible and diverse

M29
