



**NEUROSCIENCE
2024**

EARLY CAREER POSTER SESSION

Trainee Professional Development Award (TPDA) 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 recipients of the Trainee Professional Development Award (TPDA), which provides travel awards for neuroscientists from around the world to participate in the SfN annual meeting. The TPDA recognizes undergraduate and graduate students and post baccalaureate and postdoctoral scholars who demonstrate scientific merit and excellence in research.



SOCIETY *for*
NEUROSCIENCE

Thank You to Our TPDA Program Supporters!

The TPDA program is supported by SfN, donors to the Friends of SfN Fund, and several foundations, corporate supporters, memorial funds, and endowments.



The James L. Roberts Fund



The John I. Simpson Fund

Friends of SfN Fund



The Nancy Rutledge Zahniser Fund

SPONSORED BY
BRIGHTFOCUS FOUNDATION



**BrightFocus®
Foundation**

Cure in Mind. Cure in Sight.

Theme A: Development

Nardos Kebede

Emory University

Trainee Professional

Development Award (TPDA)

Graduate Student

Uncovering molecular drivers of astrocyte specification in the developing human cortex

BrightFocus Foundation

A27

Theme A: Development

Sneha Mohan

University of Georgia

Trainee Professional

Development Award (TPDA)

Graduate Student

Effect of Pax6 on corneal nerve fiber growth and patterning

BrightFocus Foundation

A38

Theme B: Neural Excitability, Synapses, and Glia

Nathan Kerr

University of Missouri

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

5HT_{2C} agonism as a treatment for age-related neural hypoexcitability and weakness

BrightFocus Foundation

B25

Theme B: Neural Excitability, Synapses, and Glia

Preeti Vyas

Johns Hopkins University

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Glucose dendrimer-ketamine targets hyperactive neurons and protects against seizures in a rodent model of status epilepticus.

BrightFocus Foundation

B65

Theme C: Neurodegenerative Disorders and Injury

Temitope Adeoye

University of South Florida

Trainee Professional

Development Award (TPDA)

Graduate Student

Systematic analysis of biological processes reveals gene co-expression modules driving pathway dysregulation in Alzheimer's Disease

BrightFocus Foundation

B74

Theme C: Neurodegenerative Disorders and Injury

Ahmed Atwa

Michigan State University

Trainee Professional

Development Award (TPDA)

Graduate Student

Interactome Mapping Reveals Distinct Mitochondrial Proteins With Human 2N4R Tau And Oligomeric Tau

BrightFocus Foundation

B80

Theme C: Neurodegenerative Disorders and Injury

Xuan Chen

Mayo Clinic

Trainee Professional

Development Award (TPDA)

Graduate Student

Blood-based co-expression network levels are associated with AD/MCI diagnosis and cognitive phenotypes and preserved in the brain

BrightFocus Foundation

B93

Theme C: Neurodegenerative Disorders and Injury

Victor Coelho

Université Laval, CERVO

Brain Research Centre

Trainee Professional

Development Award (TPDA)

Graduate Student

SRSF3 acts as a regulator of innate immune response in a model of Alzheimer's disease

BrightFocus Foundation

B99

Theme C: Neurodegenerative Disorders and Injury

Danielle Cozachenco

Federal University of Rio de Janeiro

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

The ketamine metabolite (2R,6R)-hydroxynorketamine rescues hippocampal mRNA translation, synaptic plasticity and memory in mouse models of Alzheimer's disease

BrightFocus Foundation

B104

Theme C: Neurodegenerative Disorders and Injury

Jade Dunot

Institut de Pharmacologie

Moléculaire et Cellulaire (IPMC)

Trainee Professional

Development Award (TPDA)

Graduate Student

APP fragment AETA controls both ionotropic and non-ionotropic signaling of NMDA receptors, which impacts Alzheimer's disease pathology

BrightFocus Foundation

B116

Theme C: Neurodegenerative Disorders and Injury

Hawley Helmbrecht
Johns Hopkins University
School of Medicine

*Trainee Professional
Development Award (TPDA)*

Postdoctoral Fellow
Posthemorrhagic Hydrocephalus
Induces Multifaceted Injury in
CSF Dynamics Detectable in
Both the Brain and the Eyes

BrightFocus Foundation

B134

Theme C: Neurodegenerative Disorders and Injury

Pallavi Joshi
University of Wisconsin-Madison

*Trainee Professional
Development Award (TPDA)*

Graduate Student
Ascorbate promotes post-TBI
neuroprotection by enhancing
DNA hydroxymethylation

BrightFocus Foundation

C3

Theme C: Neurodegenerative Disorders and Injury

Andre Kronic
Boston University Chobanian
& Avedisian School of Medicine

*Trainee Professional
Development Award (TPDA)*

Graduate Student
Integrative DNA methylomic and
transcriptomic profiling of APPNL-
G-F Alzheimer's disease model
mice across age and brain region:
modulation by perinatal choline diet

BrightFocus Foundation

C16

Theme C: Neurodegenerative Disorders and Injury

Bonnie Lee
Centre for Addiction
and Mental Health

*Trainee Professional
Development Award (TPDA)*

Graduate Student
The influences of previous parity and
APOE ϵ 4 genotype on functional
connectivity in middle-aged rats

BrightFocus Foundation

C17

Theme C: Neurodegenerative Disorders and Injury

Manci Li

University of Minnesota

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Multifaceted role of specialized neuropeptide-intensive neurons on the selective vulnerability of Alzheimer's disease in the human brain

BrightFocus Foundation

C18

Theme C: Neurodegenerative Disorders and Injury

Gabriella Morillo Segovia

University of Kentucky

Trainee Professional

Development Award (TPDA)

Graduate Student

Investigation of EEG slow wave recovery following sleep disruption in a mouse model of Alzheimer's disease

BrightFocus Foundation

C36

Theme C: Neurodegenerative Disorders and Injury

Maria-Tzousi Papavergi

Ann Romney Center for Neurologic Diseases, Brigham and Women's Hospital, Harvard Medical School; School for Mental Health and Neuroscience, Maastricht University

Trainee Professional

Development Award (TPDA)

Graduate Student

Deciphering the role of complement C3 in anti-amyloid antibody-induced ARIA

BrightFocus Foundation

C51

Theme C: Neurodegenerative Disorders and Injury

Celeste Parra Bravo

Weill Cornell Medical College

Neuroscience Scholars Program

(NSP); Trainee Professional

Development Award (TPDA)

Graduate Student

Human iPSC 4R tauopathy model uncovers modifiers of tau propagation

BrightFocus Foundation

C53

Theme C: Neurodegenerative Disorders and Injury

Derian Pugh

University of Alabama at Birmingham

Neuroscience Scholars Program

(NSP); Trainee Professional

Development Award (TPDA)

Graduate Student

Neuritin (NRN1) provides synaptic resilience against tau in Alzheimer's Disease

BrightFocus Foundation

C57

Theme C: Neurodegenerative Disorders and Injury

Rafaela Ribeiro

Columbia University

Trainee Professional

Development Award (TPDA)

MD/PhD student

Social cognition deficits in the J20 mouse model of Alzheimer's disease

BrightFocus Foundation

C59

Theme C: Neurodegenerative Disorders and Injury

Surabhi Sinha

**Indian Institute of Science
Education and Research Pune**

Trainee Professional

Development Award (TPDA)

Graduate Student

Modified hippocampal
synaptic plasticity in Alzheimer's
Disease: the role of calcium

BrightFocus Foundation

C75

Theme D: Sensory Systems

Emily Herrick

West Virginia University

Trainee Professional

Development Award (TPDA)

Graduate Student

Human interlimb speed perception
during locomotion peaks in young
adulthood and declines with age

BrightFocus Foundation

C113

Theme D: Sensory Systems

Wanyu Lei

Yale University

Trainee Professional

Development Award (TPDA)

Graduate Student

Compartmentalized pooling
generates orientation selectivity
in wide-field amacrine cells

BrightFocus Foundation

C124

Theme D: Sensory Systems

Yuan Xie

Columbia University

Trainee Professional

Development Award (TPDA)

Postbaccalaureate

Optogenetic inactivation of
macaque cortical area V4 during
visual shape discrimination

BrightFocus Foundation

C150

Theme E: Motor Systems

Stefanie Bradley

**Bloorview Research Institute/
University of Toronto**

Trainee Professional

Development Award (TPDA)

Graduate Student

Functional and neurological outcomes
following the application of a motor
learning treatment paradigm during
exoskeleton-assisted physiotherapy
in two children with cerebral palsy

BrightFocus Foundation

C156

Theme E: Motor Systems

Ava Burgess

University of Florida

Trainee Professional

Development Award (TPDA)

Graduate Student

Closed-loop deep brain
stimulation for essential tremor:
evaluation of speech outcomes

BrightFocus Foundation

C159

Theme E: Motor Systems

Isabell Pitigoi

Queen's University

Trainee Professional

Development Award (TPDA)

Graduate Student

Blinks as a critical oculomotor effector: comparison of eye blink parameters measured by video-based eye-tracking and electromyography

BrightFocus Foundation

D21

Theme F: Integrative Physiology and Behavior

Luis Franco

University of Oregon

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Differential Stability of Task Variable Representations in Retrosplenial Cortex

BrightFocus Foundation

E15

Theme F: Integrative Physiology and Behavior

Paige Hardy

University of Alberta

Trainee Professional

Development Award (TPDA)

Graduate Student

Investigating the mechanism of conditioning electrical stimulation: identifying key parameters and signaling pathways

BrightFocus Foundation

E23

Theme F: Integrative Physiology and Behavior

Rie Matsuzaki

APC Microbiome Ireland &

University College Cork

Federation of European Neuroscience Societies (FENS); Trainee Professional Development Award (TPDA)

Graduate Student

The Pesticide Glyphosate Induces Sex-Dependent Behavioural Changes in Mice: A Role for the Gut Microbiota

BrightFocus Foundation

E39

Theme F: Integrative Physiology and Behavior

Cassandra McGill

University of Southern California

Trainee Professional

Development Award (TPDA)

Graduate Student

Protection against APOE4-associated aging phenotypes with a longevity-promoting intervention: impact of sex

BrightFocus Foundation

E40

Theme G: Motivation and Emotion

Nana Kofi Kusi-Boadum

University of North Texas

Health Science Center

Trainee Professional

Development Award (TPDA)

Graduate Student

Insights from behavioral models into the autonomic modulation of nicotine's effects

BrightFocus Foundation

H20

Theme G: Motivation and Emotion

Grace Stys

Michigan State University

Trainee Professional

Development Award (TPDA)

Undergraduate Student

Validation of androgen receptor signaling pathway-specific knockout mice in ventral hippocampal projection neurons

BrightFocus Foundation

I14

Theme H: Cognition

Shail Bhatt

King's College London

Trainee Professional

Development Award (TPDA)

Graduate Student

Exploring the role of H3K4me3 in age-related cognitive decline.

BrightFocus Foundation

I35

Theme H: Cognition

Maxime Bleau

University of Montreal

Trainee Professional

Development Award (TPDA)

Graduate Student

Neural patterns during cognitive map formation and virtual navigation in blindness

BrightFocus Foundation

I37

Theme H: Cognition

Yuxi Chen

Johns Hopkins University

Trainee Professional

Development Award (TPDA)

Graduate Student

Lateral entorhinal cortex odor-place representations under context-dependent rule switches in young and aged Long-Evans rats

BrightFocus Foundation

I40

Theme H: Cognition

Harley Haas

University of Pennsylvania

Trainee Professional

Development Award (TPDA)

Graduate Student

In vivo recording of mouse lateral entorhinal cortex fan cells after stress: insight into subanesthetic ketamine's antidepressant ability

BrightFocus Foundation

J21

Theme H: Cognition

Raphaëlle Petit

Jena University Hospital

Trainee Professional

Development Award (TPDA)

Graduate Student

Comparing physical activity regimens: impact on cognitive decline in aging mice

BrightFocus Foundation

K16

Theme H: Cognition

Emma Schweitzer

Rutgers University

Trainee Professional

Development Award (TPDA)

Graduate Student

The neural mechanisms underlying how food craving biases subjective valuation and choice

BrightFocus Foundation

K31

Theme I: Techniques

Andrew Wang

Carnegie Mellon University

Trainee Professional

Development Award (TPDA)

Undergraduate Student

Machine Learning-Guided Selection of Evolutionarily Conserved Cis-Regulatory Elements in Mammalian Cortex

BrightFocus Foundation

M14

Theme I: Techniques

Gene Yu

Duke University

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Transcranial magnetic stimulation evoked responses in a mesoscale spiking network model of primate motor cortex with patchy connectivity

BrightFocus Foundation

M16

BURROUGHS WELLCOME FUND TRAINEE PROFESSIONAL DEVELOPMENT AWARDS

SPONSORED BY

BURROUGHS WELLCOME FUND

BURROUGHS
WELLCOME
FUND 

Theme A: Development

Monica Carbajal

University of Memphis

Trainee Professional

Development Award (TPDA)

Graduate Student

Perinatal Exposure to Delta-9-tetrahydrocannabinol (THC) Alters Behavior and Dopamine Functioning in Wistar Rats

Burroughs Wellcome Fund

A5

Theme A: Development

Arely Cruz-Sanchez

University of Toronto Scarborough

Trainee Professional

Development Award (TPDA)

Graduate Student

Septotemporal differences in hippocampal-prefrontal cortex circuit maturation inform a sensitive period for cognitive flexibility

Burroughs Wellcome Fund

A12

Theme A: Development

Abi Heller-Wight

University of Nebraska

Medical Center

Trainee Professional

Development Award (TPDA)

Graduate Student

Hippocampal subfield volumes and physical activity in periadolescent children: preliminary findings from the PRANK-Fit study

Burroughs Wellcome Fund

A21

Theme A: Development

Jennifer Malin

New York University

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Spatial patterning controls neuron numbers in the *Drosophila* visual system

Burroughs Wellcome Fund

A36

Theme B: Neural Excitability, Synapses, and Glia

Irene Fernandez Ugidos

Tulane University

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Ketamine-induced structural plasticity in dendritic spines of the dorsomedial prefrontal cortex is hindered in aged mice

Burroughs Wellcome Fund

B16

Theme B: Neural Excitability, Synapses, and Glia

Milana Krush

Oregon Health & Science University

ENDURE; Trainee Professional

Development Award (TPDA)

Graduate Student

Tonic Inhibition Mediated by GABAAR- $\alpha 4$ Receptors in Sparse Coding in the Dentate Gyrus

Burroughs Wellcome Fund

B26

Theme B: Neural Excitability, Synapses, and Glia

Giacomo Maddaloni

Harvard Medical School

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Adaptation to photoperiod via dynamic serotonin-glutamate neurotransmitter segregation

Burroughs Wellcome Fund

B31

Theme B: Neural Excitability, Synapses, and Glia

Jose A Noriega-Prieto

University of Minnesota

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Distinct endocannabinoids specifically signal to astrocytes and neurons

Burroughs Wellcome Fund

B43

Theme C: Neurodegenerative Disorders and Injury

Andrew Boyce

University of Calgary

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Induction and monitoring of focal stroke in freely behaving mice reveals sex differences in spreading depolarization and associated behavior

Burroughs Wellcome Fund

B84

Theme C: Neurodegenerative Disorders and Injury

Hoi Kei (Amy) Choi

University of Michigan - Ann Arbor

Trainee Professional

Development Award (TPDA)

Undergraduate Student

Covid-like immune challenge as a risk for Alzheimer's disease

Burroughs Wellcome Fund

B96

Theme C: Neurodegenerative Disorders and Injury

Bluye DeMessie

Albert Einstein College of Medicine

Neuroscience Scholars Program

(NSP); Trainee Professional

Development Award (TPDA)

Graduate Student

In Vivo Detection of Pathology at the Depths of Cortical Sulci in Sports Repetitive Head Impacts

Burroughs Wellcome Fund

B110

Theme C: Neurodegenerative Disorders and Injury

Asma Hassani

Mayo Clinic

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

The skull harbors an expanded pool of antigen-specific CD8+ T cells during acute brain viral infection

Burroughs Wellcome Fund

B132

Theme C: Neurodegenerative Disorders and Injury

Jonathan Hulse

University of New Mexico

School of Medicine

Trainee Professional

Development Award (TPDA)

Graduate Student

Phospho-thr181 tau vaccine efficacy studies in mouse and non-human primate models demonstrate robust immunogenicity, safety, target engagement, and reduced disease status

Burroughs Wellcome Fund

B136

Theme C: Neurodegenerative Disorders and Injury

Theodore Imhoff-Smith

University of Wisconsin-Madison

Trainee Professional

Development Award (TPDA)

Graduate Student

Whole brain atrophy and amygdala subnuclear enlargement in temporal lobe epilepsy

Burroughs Wellcome Fund

B138

Theme C: Neurodegenerative Disorders and Injury

David Jaffe

Thomas Jefferson University

Trainee Professional

Development Award (TPDA)

Graduate Student

Neuronal EphB2 signaling drives persistent neuropathic pain following spinal cord injury

Burroughs Wellcome Fund

B140

Theme C: Neurodegenerative Disorders and Injury

Romeesa Khan

UT Health Houston MD Anderson

Trainee Professional

Development Award (TPDA)

Graduate Student

Neuropathological changes during the chronic phase of ischemic stroke

Burroughs Wellcome Fund

C9

Theme C: Neurodegenerative Disorders and Injury

Benjamin Kreitlow

University of Iowa

Trainee Professional

Development Award (TPDA)

Graduate Student

Nighttime Tendency of Spontaneous Spike-and-Wave Discharges and Seizure-Associated Death in Young APP/PS1 Mice

Burroughs Wellcome Fund

C15

Theme C: Neurodegenerative Disorders and Injury

Annabel McAtee

University of Kentucky

Trainee Professional

Development Award (TPDA)

Graduate Student

Sex- and age-based differences in skull bone marrow and dura immune cell populations at baseline and after ischemic stroke

Burroughs Wellcome Fund

C25

Theme C: Neurodegenerative Disorders and Injury

Afzal Misrani

The University of Texas Health

Science Center at Houston

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Guardians of the ischemic brain: brain endothelial CD200 signalling

Burroughs Wellcome Fund

C33

Theme C: Neurodegenerative Disorders and Injury

Chelsea Reichert Plaska

Nathan S. Kline Institute for

Psychiatric Research; NYU

Grossman School of Medicine

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Effect of Cognitive Reserve on Plasma Biomarkers of Alzheimer's Disease in Non-Demented Elderly

Burroughs Wellcome Fund

C58

Theme C: Neurodegenerative Disorders and Injury

Rahul Singh

Yale University

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Geometrical and topological motifs of first-episode psychosis in live dyadic interactions

Burroughs Wellcome Fund

C74

Theme C: Neurodegenerative Disorders and Injury

Corey St. Romain

Baylor College of Medicine

Trainee Professional

Development Award (TPDA)

Graduate Student

Activity-dependent regulators of paraventricular oxytocin expression in amyloid precursor protein transgenic mice

Burroughs Wellcome Fund

C76

Theme C: Neurodegenerative Disorders and Injury

Deekshita Sundararaman

University of Texas at Austin

Trainee Professional

Development Award (TPDA)

Undergraduate Student

Forelimb experience-dependent bilateral changes in motor cortical FosB/deltaFosB after motor cortical infarcts in mice

Burroughs Wellcome Fund

C79

Theme C: Neurodegenerative Disorders and Injury

Samuel Wachamo

University of Virginia

Neuroscience Scholars Program

(NSP); Summer Program in

Neuroscience, Excellence and Success

(SPINES); Trainee Professional

Development Award (TPDA)

Graduate Student

Bacterial extracellular vesicles contain short chain fatty acids that might play a role in Alzheimer's disease pathogenesis

Burroughs Wellcome Fund

C92

Theme D: Sensory Systems

Laura Camila Gomez

UC Berkeley

Trainee Professional

Development Award (TPDA)

Graduate Student

2-photon voltage imaging of sensory and cognitive signal dynamics in sensory cortex

Burroughs Wellcome Fund

C110

Theme D: Sensory Systems

Karishma Shah

University of Utah

Trainee Professional

Development Award (TPDA)

Graduate Student

Myoinositol concentration in the anterior cingulate cortex mediates the relationship between chronic pain duration and pain embodiment

Burroughs Wellcome Fund

C140

Theme E: Motor Systems

Hantao Wang

University of Washington

Trainee Professional

Development Award (TPDA)

Graduate Student

Contributions of basal ganglia and cerebellar circuits in speech auditory-motor adaptation: DBS ON/OFF comparisons in patients with Parkinson's disease vs essential tremor

Burroughs Wellcome Fund

D38

Theme F: Integrative Physiology and Behavior

Erin Bigus

University of Utah

Trainee Professional

Development Award (TPDA)

Graduate Student

Hippocampal time cells display differential activity across temporal contexts

Burroughs Wellcome Fund

D55

Theme F: Integrative Physiology and Behavior

Leah Conrad

University of Michigan

Trainee Professional

Development Award (TPDA)

Graduate Student

Oral contraceptive exposure modulates neuroimmune activity

Burroughs Wellcome Fund

D59

Theme F: Integrative Physiology and Behavior

Yiyuan Han

University of California San Francisco

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Anterior Insula-based Network

Biomarkers of Experimental

Pain in Humans

Burroughs Wellcome Fund

E22

Theme F: Integrative Physiology and Behavior

Evan Iliakis

University of Pennsylvania

Perelman School of Medicine

Trainee Professional

Development Award (TPDA)

Graduate Student

Investigating the role of GABAergic interneurons in the dorsomedial striatum in value-based decision-making

Burroughs Wellcome Fund

E25

Theme F: Integrative Physiology and Behavior

Charlotte Piette

Harvard medical school

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Striatal endocannabinoid long-term potentiation mediates one-shot learning

Burroughs Wellcome Fund

F21

Theme G: Motivation and Emotion

Samantha Brown
Icahn School of Medicine
at Mount Sinai

*Trainee Professional
Development Award (TPDA)*

Graduate Student

Identifying a role of accumbal cholinergic interneurons in modulating feeding behavior in diabetes

Burroughs Wellcome Fund

G24

Theme G: Motivation and Emotion

Gavin Elias
University of Toronto

*Trainee Professional
Development Award (TPDA)*

Graduate Student

Validating cerebral glucose metabolism as a pre-operative predictor of response to subcallosal cingulate deep brain stimulation

Burroughs Wellcome Fund

G37

Theme G: Motivation and Emotion

Hye Ji Kim
Princeton University

*Trainee Professional
Development Award (TPDA)*

Postdoctoral Fellow

The development of a novel mouse model for gradual re-exposure to traumatic psychosocial defeat stress.

Burroughs Wellcome Fund

H18

Theme G: Motivation and Emotion

Marjorie Levinstein
NIH, NIDA IRP

*Trainee Professional
Development Award (TPDA)*

Postdoctoral Fellow

(S)-ketamine decreases heroin seeking in rats

Burroughs Wellcome Fund

H23

Theme G: Motivation and Emotion

Tristan Szapary
Princeton University

*Trainee Professional
Development Award (TPDA)*

Undergraduate Student

Uncovering the spatiotemporal dynamics of dopamine in mouse dorsal cortex

Burroughs Wellcome Fund

I16

Theme H: Cognition

David Horovitz
University of South Carolina

*Trainee Professional
Development Award (TPDA)*

Graduate Student

Targeting D-serine metabolism to reverse age-related cognitive and neurobiological deficits

Burroughs Wellcome Fund

J24

Theme H: Cognition

Emma Huels

University of Michigan

Trainee Professional

Development Award (TPDA)

Graduate Student

Reversal of propofol or isoflurane anesthesia, with concurrent restoration of functional connectivity, by intravenous administration of the serotonergic psychedelic 2,5-dimethoxy-4-iodoamphetamine

Burroughs Wellcome Fund

J26

Theme H: Cognition

Hannah Lail

Georgia State University

Trainee Professional

Development Award (TPDA)

Graduate Student

Uncovering the neurobiological role of endogenous fibroblast growth factor 21 as a high-fat diet-stimulated stress-response hormone

Burroughs Wellcome Fund

J33

Theme H: Cognition

Karim Mithani

University of Toronto

Trainee Professional

Development Award (TPDA)

Graduate Student

Connectivity of the centromedian nucleus of the thalamus: Insights from brain stimulation and intracranial electroencephalography

Burroughs Wellcome Fund

K4

Theme H: Cognition

Ugurcan Mugan

University of Minnesota

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Examining multiple moments of decision-making through prefrontal, hippocampal, and dorsolateral striatal interactions in a complex spatial task

Burroughs Wellcome Fund

K7

Theme H: Cognition

Natalie Preveza

Virginia Polytechnic Institute

and State University

Trainee Professional

Development Award (TPDA)

Postbaccalaureate

Degradation-independent lysine-63 polyubiquitination negatively regulates memory formation and promotes age-related memory decline in the hippocampus

Burroughs Wellcome Fund

K18

Theme H: Cognition

Siyu Wang

National Institute of Mental Health

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Reconfiguration of population dynamics in macaque prefrontal cortex during reinforcement learning

Burroughs Wellcome Fund

L9

Theme H: Cognition

Chenyi Yang

University of California, Irvine

Trainee Professional

Development Award (TPDA)

Graduate Student

Depression-like Behavior is Associated with Defects in the Primary Hippocampal Circuit

Burroughs Wellcome Fund

L13

Theme I: Techniques

Landon Bayless-Edwards

Oregon Health and

Sciences University

Trainee Professional

Development Award (TPDA)

Graduate Student

Genetically-encoded fluorescence lifetime sensors for imaging of neuromodulation in vivo

Burroughs Wellcome Fund

L22

Theme I: Techniques

Gianna Paier

University of Michigan

Trainee Professional

Development Award (TPDA)

Graduate Student

Novel approach for enhancing signal recovery during stimulation

Burroughs Wellcome Fund

M4

Theme I: Techniques

Maria Pope

Indiana University

Trainee Professional

Development Award (TPDA)

Graduate Student

Time-varying synergy and redundancy dominance in the human cerebral cortex

Burroughs Wellcome Fund

M5

Theme I: Techniques

Mingzheng Wu

Northwestern University

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Synthesizing artificial perception with wireless transcranial optogenetic arrays

Burroughs Wellcome Fund

M15

SPONSORED BY
**TIANQIAO AND CHRISSEY
CHEN INSTITUTE**



**Theme C: Neurodegenerative
Disorders and Injury**

Cameron Choo
**NANYANG TECHNOLOGICAL
UNIVERSITY**

*Trainee Professional
Development Award (TPDA)*

Graduate Student

Independent effects of regional
white matter hyperintensities and
amyloid on domain-specific cognition
and progression to dementia

Tianqiao and Chrissy Chen Institute

B97

**Theme C: Neurodegenerative
Disorders and Injury**

Zobayda Farzana Haque
Texas Tech university

*Trainee Professional
Development Award (TPDA)*

Graduate Student

Circulating Branched Chain
Amino Acids (BCAAs) are
Linked to Alzheimer's Disease
Related Cognitive Deficits

Tianqiao and Chrissy Chen Institute

B130

**Theme C: Neurodegenerative
Disorders and Injury**

Mia Kantorovich
Brown University

*Trainee Professional
Development Award (TPDA)*

Undergraduate Student

The Effect of a Pathogen-rich
environment on the development
of Tauopathy in PS19 mice

Tianqiao and Chrissy Chen Institute

C5

**Theme F: Integrative Physiology
and Behavior**

Ian Manuel Espinosa Méndez
**Instituto de Neurobiología,
Universidad Nacional
Autónoma de México**

*Trainee Professional
Development Award (TPDA)*

Undergraduate Student

Genetic Contributions to the
Functional Connectome Topology
in the Mexican Population

Tianqiao and Chrissy Chen Institute

E10

SPONSORED BY
**DEVELOPMENTAL STUDIES
HYBRIDOMA BANK**



Theme A: Development

Josephine Liwang
Penn State College of Medicine
Trainee Professional
Development Award (TPDA)
Graduate Student

epDevAtlas: Early postnatal growth charts of GABAergic cells and microglia unveil distinct spatiotemporal patterns in the developing mouse brain
Developmental Studies Hybridoma Bank

A32

Theme E: Motor Systems

Emily Sperry
University of Washington
Trainee Professional
Development Award (TPDA)
Undergraduate Student

Simultaneous Targeting of Cortical Depths in Premotor and Primary Motor Cortices

Developmental Studies Hybridoma Bank

D31

Theme H: Cognition

Xitong Chen
The University of Iowa
Trainee Professional
Development Award (TPDA)
Graduate Student

Working memory constructs joint probabilistic task representations for decision-making

Developmental Studies Hybridoma Bank

J1

SPONSORED BY
FRIENDS OF SfN FUND

Friends of SfN Fund

Theme A: Development

Angarika Balakrishnan
Northeastern University

*Trainee Professional
Development Award (TPDA)*

Graduate Student

Modulating CRHR1 activity: a strategy to mitigate early-onset puberty and anxiety in rodent models of early life adversity

Friends of SfN Fund

A2

Theme A: Development

Luca Costea
Bates College

*Trainee Professional
Development Award (TPDA)*

Undergraduate Student

Verification of Axon Guidance in a Novel Murine Model of NF1 Gliomas

Friends of SfN Fund

A10

Theme A: Development

Lauren English

University of Wisconsin - Madison

Neuroscience Scholars Program

*(NSP); Trainee Professional
Development Award (TPDA)*

Graduate Student

The F-BAR proteins CIP4 and FBP17 regulate neurite dynamics during cortical neuronal migration

Friends of SfN Fund

A13

Theme A: Development

Anna Farmer

University of Florida

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Widespread alterations of functional brain networks in children with autism: An MVPA analysis

Friends of SfN Fund

A14

Theme A: Development

Sarah Giang

University of North

Carolina at Chapel Hill

Trainee Professional

Development Award (TPDA)

Undergraduate Student

Impact of Adolescent Alcohol Exposure on Functional Connectivity and Choline Expression in the Basal Forebrain

Friends of SfN Fund

A17

Theme A: Development

Devon Grey

The University of Alabama
at Birmingham

Trainee Professional

Development Award (TPDA)

Graduate Student

Adolescent Neural Reactivity to
Stress Varies with Dietary Nutrients

Friends of SfN Fund

A18

Theme A: Development

Robert Hickson

Palo Alto University

Trainee Professional

Development Award (TPDA)

Graduate Student

Functional connectivity of the salience
network is related to symptoms of
social anxiety in preadolescence

Friends of SfN Fund

A22

Theme A: Development

Prithika Ravi

University of Illinois at

Urbana-Champaign

Trainee Professional

Development Award (TPDA)

Undergraduate Student

Effects of Exercise-Induced
Plasma-Derived Extracellular
Vesicles on Adult Neurogenesis,
Astroglialogenesis, and Microvascular
Density in the Hippocampus

Friends of SfN Fund

A46

Theme A: Development

Di Zhang

Yale University

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Spatial dynamics of mammalian brain
development and neuroinflammation
by multimodal tri-omics mapping

Friends of SfN Fund

A66

Theme B: Neural Excitability, Synapses, and Glia

Savannah Brannan

Southern Illinois University

School of Medicine

Trainee Professional

Development Award (TPDA)

Graduate Student

Early life stress results in female
specific cognitive impairments and
reduced LC neuron excitability

Friends of SfN Fund

B1

Theme B: Neural Excitability, Synapses, and Glia

Darrien Coates

National Institute of Environment
and Health Sciences (NIEHS)

Trainee Professional

Development Award (TPDA)

Postbaccalaureate

The Effects of Cortisol on
Glutamatergic Transmission in
Caenorhabditis elegans

Friends of SfN Fund

B6

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

Camila Garcia Padilla

University of Pittsburgh

Trainee Professional

Development Award (TPDA)

Graduate Student

Conditional Knock-Out of Fus Protein in Oligodendrocytes of Aged Mice Decreases Evoked Firing Rate Activity in the Visual Cortex

Friends of SfN Fund

B20

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

Christa Hercher

McGill University

Trainee Professional

Development Award (TPDA)

Graduate Student

Examining cerebellar astrocytes and Purkinje cells in depression and suicide

Friends of SfN Fund

B22

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

Karoline Martins dos Santos

Federal University of Sao Paulo

- Paulista School of Medicine

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Astrocytic activation modulates neuronal activity in the Supraoptic Nucleus of the hypothalamus

Friends of SfN Fund

B34

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

Carina Meinke

Florida Atlantic University

Trainee Professional

Development Award (TPDA)

Graduate Student

Capacity for protein kinase G dependent SERT phosphorylation supports sex dependent serotonin release in the nucleus accumbens following social interactions and MDMA administration

Friends of SfN Fund

B37

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

Samantha Merrow

Massachusetts Institute of Technology

Trainee Professional

Development Award (TPDA)

Postbaccalaureate

Ablation of Mical3 Disrupts Oligodendrocyte Development in Mice

Friends of SfN Fund

B38

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

Nathalie Nieto-Torres

University of Puerto Rico at Aguadilla

Trainee Professional

Development Award (TPDA)

Undergraduate Student

Effects of Hyperglycemia on Aquaporin-4 Channels Expression and the Modulatory Role of Metformin in Rat Astrocytes

Friends of SfN Fund

B42

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

Michael O'Dea

NYU Grossman School of Medicine

Trainee Professional

Development Award (TPDA)

Graduate Student

A multi-omic single-cell atlas of astrocyte diversity in the healthy and inflamed brain

Friends of SfN Fund

B44

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

Showmick Paul

University of Rochester

Trainee Professional

Development Award (TPDA)

Undergraduate Student

Towards Deciphering the Mechanism of Microglia-Driven Remodeling in Brain Extracellular Space Using 2P-SFA-FRAP

Friends of SfN Fund

B46

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

Sridevi Venkatesan

University of Toronto

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Functional context is critical: Impaired patient-variant GluN1 NMDA receptors prolong dendritic excitation to increase seizure vulnerability

Friends of SfN Fund

B63

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

Alicia Wells

University of California, Irvine SOM

Trainee Professional

Development Award (TPDA)

Graduate Student

Hypersensitivity of The Nicotinic Acetylcholine Receptor Subunit (CHRNA2L9S/L9S) In Female Adolescent Mice Mediates Sexually Dimorphic Nicotine-Induced Facilitation of Hippocampal-Dependent Learning and Memory

Friends of SfN Fund

B67

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

Kirill Zavalin

Vanderbilt University Medical Center

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Altered GABAergic Neurotransmission in Mouse Model of Slc6a1(S295L) Developmental and Epileptic Encephalopathy

Friends of SfN Fund

B72

Theme C: Neurodegenerative Disorders and Injury

Anjali Bisht

**Indian Institute of Science
Education and Research, Bhopal**

*Trainee Professional
Development Award (TPDA)*

Graduate Student

Prefoldin5 is a Microtubule-associated Protein that Suppresses Tau-aggregation

Friends of SfN Fund

B82

Theme C: Neurodegenerative Disorders and Injury

Montserrat Casado Sanchez

McGill University

*Trainee Professional
Development Award (TPDA)*

Graduate Student

Unraveling Altered Brain Function in Post COVID-19 Condition Through Electroencephalography

Friends of SfN Fund

B89

Theme C: Neurodegenerative Disorders and Injury

Joseph Choi

University of Michigan

*Trainee Professional
Development Award (TPDA)*

Undergraduate Student

The effects of levodopa on skilled reaching in the rat 6-OHDA model of Parkinson Disease

Friends of SfN Fund

B95

Theme C: Neurodegenerative Disorders and Injury

Laurel Dieckhaus

University of Arizona

*Trainee Professional
Development Award (TPDA)*

Graduate Student

Using Bias-free Classification of Multi-parametric MRI to Identify Age-related Changes in the Ex-Vivo Female Bonnet Macaque Brain

Friends of SfN Fund

B112

Theme C: Neurodegenerative Disorders and Injury

Luis Daniel Estrella

University of Nebraska

Medical Center

*Trainee Professional
Development Award (TPDA)*

Graduate Student

Increased Diapedesis Across the Blood-Brain-Barrier and Impaired T-Cell Populations in a Pink1/Parkin Dual Knockout Rat Model of Parkinson's Disease

Friends of SfN Fund

B118

Theme C: Neurodegenerative Disorders and Injury

Indra Gendenpeljee

Daegu Gyeongbuk Institute
of Science and Technology

Trainee Professional

Development Award (TPDA)

Graduate Student

The progenitor cells local
activation in the penumbral
area after neonatal stroke

Friends of SfN Fund

B124

Theme C: Neurodegenerative Disorders and Injury

Mònica Girona del Pozo

Institute of Neurosciences -
Autonomous University of Barcelona

Trainee Professional

Development Award (TPDA)

Graduate Student

Assessing the role of mitochondrial
dsRNA as a trigger for
neuroinflammation in a mouse
model of Leigh syndrome

Friends of SfN Fund

B125

Theme C: Neurodegenerative Disorders and Injury

Julieth Gomez

University of Florida

Trainee Professional

Development Award (TPDA)

Graduate Student

Advancements in Closed-Loop
Deep Brain Stimulation for Tourette
Syndrome: A Multi-Nuclei Approach

Friends of SfN Fund

B126

Theme C: Neurodegenerative Disorders and Injury

Shruti Gupta

The George Washington University

Trainee Professional

Development Award (TPDA)

Graduate Student

Antagonistic role of male sex-
hormone and male sex-chromosome
complement on the therapeutic
efficacy of TNFR2 activation in
a model of Multiple Sclerosis

Friends of SfN Fund

B129

Theme C: Neurodegenerative Disorders and Injury

Leah Harmon

Yale University

Trainee Professional

Development Award (TPDA)

Graduate Student

Methods to image the
dopamine transporter (DAT)
in vitro and its applications in
Parkinson's disease research

Friends of SfN Fund

B131

Theme C: Neurodegenerative Disorders and Injury

Berfug Karaharman

Bogazici University, Institute
of Biomedical Engineering

Trainee Professional

Development Award (TPDA)

Graduate Student

Effect of transcutaneous
electrical nerve stimulation on
rats with spinal cord injury

Friends of SfN Fund

C6

Theme C: Neurodegenerative Disorders and Injury

Mahir Khan

University of Southern California

Trainee Professional

Development Award (TPDA)

Graduate Student

Association of brain aging and focal brain damage in the subacute phase of stroke recovery

Friends of SfN Fund

C10

Theme C: Neurodegenerative Disorders and Injury

Jackson Mace

Johns Hopkins University

Trainee Professional

Development Award (TPDA)

Graduate Student

Inhibition of MIF nuclease-mediated parthanatos mitigates neurodegenerative pathology in a mouse model of multiple sclerosis

Friends of SfN Fund

C21

Theme C: Neurodegenerative Disorders and Injury

Sean McCracken

Washington University in St. Louis

Trainee Professional

Development Award (TPDA)

Graduate Student

Mitochondrial calcium homeostasis influences retinal ganglion cell survival in neurodegeneration following optic nerve axon injury

Friends of SfN Fund

C27

Theme C: Neurodegenerative Disorders and Injury

Eleni Moschonas

The University of Pittsburgh

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Examining cholinergic neurotransmission and chronic galantamine efficacy in sustained attention after pre-clinical traumatic brain injury

Friends of SfN Fund

C37

Theme C: Neurodegenerative Disorders and Injury

Christopher Saunders

University of Kentucky

Trainee Professional

Development Award (TPDA)

Graduate Student

TDP-43 citrullination: a novel post-translational modification for distinct neuropathological inclusions in Alzheimer's disease and related dementias

Friends of SfN Fund

C69

Theme C: Neurodegenerative Disorders and Injury

Ashley Scheinfeld

University of Texas at Austin

Trainee Professional

Development Award (TPDA)

Graduate Student

MerTK Promotes Inflammatory Resolution to Facilitate Neuroprotection and Repair After Spinal Cord Injury (SCI)

Friends of SfN Fund

C71

Theme C: Neurodegenerative Disorders and Injury

Olivia Tong

Western University

Trainee Professional

Development Award (TPDA)

Graduate Student

Effects of selective brain cooling on blood flow and glucose metabolism in acute cerebral ischemia

Friends of SfN Fund

C86

Theme D: Sensory Systems

Matteo Ciferri

University of Rome "Tor Vergata"

Trainee Professional

Development Award (TPDA)

Graduate Student

Decoding music from brain activity: exploring the neural correlates of music perception

Friends of SfN Fund

C103

Theme D: Sensory Systems

Kaley Graves

University of Illinois

Urbana Champaign

Trainee Professional

Development Award (TPDA)

Graduate Student

Mechanisms of Hearing Loss in a Newly Generated Mouse Model

Friends of SfN Fund

C111

Theme D: Sensory Systems

Keith Kaufman

University of Pittsburgh

Trainee Professional

Development Award (TPDA)

Graduate Student

Arousal-dependent modulation of distinct excitatory cell-types within the auditory cortex

Friends of SfN Fund

C119

Theme D: Sensory Systems

Amit Khandhadia

University College London

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Mapping auditory space in freely moving ferrets

Friends of SfN Fund

C120

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

Friends of SfN Fund

C122

Theme D: Sensory Systems

Victoria Lang

University of Gothenburg

*Trainee Professional
Development Award (TPDA)*

Graduate Student

Realtime encoding of stimulus factors
in single tactile afferents in the
human hand during passive touch

Friends of SfN Fund

C123

Theme D: Sensory Systems

Abraham Nofal

University of Texas at Dallas

*Trainee Professional
Development Award (TPDA)*

Graduate Student

Characterizing PKC- δ Neurons
in the Central Amygdala: Pro
vs. Anti-Nociceptive Roles
in a Virtual Pain Model

Friends of SfN Fund

C131

Theme D: Sensory Systems

Adrian Pena

University of Arizona

*Trainee Professional
Development Award (TPDA)*

Graduate Student

Exploring the Role of GPR63 and
GPR153 as Novel Modulators of
Opioid-Induced Antinociception via
Glial Cell Modulation in a Mouse
Model of Neuropathic Pain

Friends of SfN Fund

C133

Theme D: Sensory Systems

Marina Saito

The University of Texas

Medical Branch

*Trainee Professional
Development Award (TPDA)*

Postdoctoral Fellow

Three-dimensional inner
ear pathology in mice with
audiovestibular dysfunction
caused by Lassa virus infection

Friends of SfN Fund

C138

Theme D: Sensory Systems

PERMINDER SINGH

**AII INDIA INSTITUTE OF MEDICAL
SCIENCES NEW DELHI**

*Trainee Professional
Development Award (TPDA)*

Graduate Student

Chronic intrathecal co-administration
of Neuropeptide Y and morphine
in rats attenuate morphine-induced
anti-nociceptive tolerance

Friends of SfN Fund

C143

Theme D: Sensory Systems

Samira SOUFFI

Hebrew University of Jerusalem

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Early music exposure affects neural activity in the ventral tegmental area (VTA)

Friends of SfN Fund

C145

Theme D: Sensory Systems

Tomas Suarez Omedas

Carnegie Mellon University

Trainee Professional

Development Award (TPDA)

Graduate Student

Auditory cortex constructs noise-invariant representations of sounds in background noise

Friends of SfN Fund

C147

Theme D: Sensory Systems

Jie Wan

University of California, Irvine

Trainee Professional

Development Award (TPDA)

Graduate Student

A comparative analysis of vocal vs manual synchronization to auditory rhythm

Friends of SfN Fund

C149

Theme E: Motor Systems

Daniel Armstrong

Queen's University

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Muscular co-contraction improves rapid upper limb corrective responses to mechanical perturbations during postural control

Friends of SfN Fund

C153

Theme E: Motor Systems

Ryan Canfield

University of Washington

Trainee Professional

Development Award (TPDA)

Graduate Student

Spatially distributed sampling of motor cortex during reaching

Friends of SfN Fund

C160

Theme E: Motor Systems

Erianna De la Rosa

University of Utah

Trainee Professional

Development Award (TPDA)

Graduate Student

Control of Pain Defense by Co-transmission of Oxytocin & Glutamate in a Zebrafish Premotor Network

Friends of SfN Fund

D2

Theme E: Motor Systems

Keqin Ding

Johns Hopkins University

Trainee Professional

Development Award (TPDA)

Graduate Student

Quantifying the spatial stability of sensory stimulation projected fields for neuroprostheses

Friends of SfN Fund

D5

Theme E: Motor Systems

Shalini Guha

SIU Carbondale

Trainee Professional

Development Award (TPDA)

Graduate Student

ERG1A Potassium Channel Modulates Calcium Signaling In Skeletal Muscle Atrophy

Friends of SfN Fund

D9

Theme E: Motor Systems

Miranda Hulsey-Vincent

University of Oregon

Trainee Professional

Development Award (TPDA)

Graduate Student

Basal ganglia lesions induce stuttering in canaries.

Friends of SfN Fund

D10

Theme E: Motor Systems

Rachel Mazorow

Marquette University & Medical

College of Wisconsin

Trainee Professional

Development Award (TPDA)

Graduate Student

Three-dimensional vibrotactile feedback training promotes reach-to-grasp improvement after stroke: a proof-of-concept case series

Friends of SfN Fund

D16

Theme E: Motor Systems

Arianna Ortega Sanabria

University of Arkansas The

Institute for Integrative & Innovative Research - I³R

Trainee Professional

Development Award (TPDA)

Graduate Student

Neuromodulation of Nerve Fiber Activation via Intrafascicular Stimulation: Effects of Non-Rectangular Waveform Shapes

Friends of SfN Fund

D20

Theme E: Motor Systems

Ashwini Sansare

Texas A&M University

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Cerebellar neuromodulation led to improved standing balance in older adults

Friends of SfN Fund

D28

Theme E: Motor Systems

Hannah Stealey

The University of Texas at Austin

Trainee Professional

Development Award (TPDA)

Graduate Student

Neural variability during
neurofeedback adaptation

Friends of SfN Fund

D32

Theme E: Motor Systems

Joohwan Sung

University of Illinois

Urbana Champaign

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

The Expression of Flexion Synergy
Enhances Spasticity in Stroke

Friends of SfN Fund

D34

Theme F: Integrative Physiology and Behavior

Christopher Cook

University of California, Berkeley

Trainee Professional

Development Award (TPDA)

Graduate Student

Neuroimmune mechanisms of
coronavirus disease pathology

Friends of SfN Fund

E1

Theme F: Integrative Physiology and Behavior

Gretel Kamm

European Molecular

Biology Laboratory

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

The representation of PGE2-triggered
sickness in the mouse insular cortex

Friends of SfN Fund

E26

Theme F: Integrative Physiology and Behavior

Hyejoo Kang

University of Massachusetts Amherst

Trainee Professional

Development Award (TPDA)

Graduate Student

Influence of Neuroestrogens
on Auditory Circuit Dynamics
in Zebra Finches

Friends of SfN Fund

E27

Theme F: Integrative Physiology and Behavior

Rixing Lin

Princeton University

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Uncovering the impact of early life
stress on genomic organization across
development with single cell resolution

Friends of SfN Fund

E33

Theme F: Integrative Physiology and Behavior

Yihe Ma

Stanford University

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Sex differences in the neural circuit organization, physiological connectivity, and reward activity dynamics of cholecystokinin (CCK) neurons in the extended amygdala

Friends of SfN Fund

E36

Theme F: Integrative Physiology and Behavior

Sara Mederos

Sainsbury Wellcome Centre, UCL

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Visual cortex instructs learnt suppression of fear responses

Friends of SfN Fund

F5

Theme F: Integrative Physiology and Behavior

Sabrina Mederos

University of California, Davis

Trainee Professional

Development Award (TPDA)

Graduate Student

Exploring the seahorse brain: differential gene expression and neuroanatomical mapping

Friends of SfN Fund

F6

Theme F: Integrative Physiology and Behavior

Ana Mendes

Champalimaud Foundation

Trainee Professional

Development Award (TPDA)

Graduate Student

Spinal control of copulatory behavior and sexual excitation

Friends of SfN Fund

F8

Theme F: Integrative Physiology and Behavior

Patrick Monari

University of Auckland

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Chronic oxytocin signaling enduringly impairs communication and coordination in a monogamous rodent

Friends of SfN Fund

F9

Theme F: Integrative Physiology and Behavior

Ryan Neff

University of Michigan

Trainee Professional

Development Award (TPDA)

Graduate Student

DSCAM Heterozygosity Recapitulates Cognitive and Sensorimotor Phenotypes Observed in Autism Spectrum Disorder

Friends of SfN Fund

F13

Theme F: Integrative Physiology and Behavior

Chayarndorn Phumsatitpong
University of California, Berkeley

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Temporal coordination of female reproductive axis activity by vasoactive intestinal polypeptide (VIP) expressing cells in the suprachiasmatic nucleus in mice

Friends of SfN Fund

F20

Theme F: Integrative Physiology and Behavior

Kelley Power

UC Berkeley

Trainee Professional

Development Award (TPDA)

Graduate Student

Single-nuclei RNA sequencing reveals housing and photoperiod-dependent changes in hippocampal gene expression in seasonally social voles

Friends of SfN Fund

F22

Theme F: Integrative Physiology and Behavior

Elora Reilly

Seattle Children's Research Institute

Trainee Professional

Development Award (TPDA)

Postbaccalaureate

Modulating breathing: mapping inhibitory and excitatory projections to the preBotzinger complex

Friends of SfN Fund

F25

Theme F: Integrative Physiology and Behavior

Ishnoor Singh

University of Toronto

Trainee Professional

Development Award (TPDA)

Graduate Student

Connecting specific central GLP-1 receptors functionally with glucose homeostasis and energy balance

Friends of SfN Fund

F35

Theme F: Integrative Physiology and Behavior

Catherine Stapf

University of Maryland

School of Medicine

Trainee Professional

Development Award (TPDA)

Graduate Student

Dorsomedial Striatum CB1R signaling is required for Pavlovian outcome devaluation in male Long Evans rats and reduces inhibitory synaptic transmission in both sexes.

Friends of SfN Fund

F37

Theme F: Integrative Physiology and Behavior

Pedro Trevizan-Baú

University of Florida

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Effects of local sympathetic nerve depletion on airway function in an experimental model of allergic asthma

Friends of SfN Fund

G5

Theme F: Integrative Physiology and Behavior

Jacob White

Massachusetts Institute of Technology

Trainee Professional

Development Award (TPDA)

Graduate Student

Closed loop neurofeedback for studying motor memory consolidation in the songbird

Friends of SfN Fund

G12

Theme G: Motivation and Emotion

Yurim Chae

National Institute on Drug Abuse

Trainee Professional

Development Award (TPDA)

Postbaccalaureate

Effects of methylphenidate and R-modafinil on impulsive choice decision making in rats

Friends of SfN Fund

G27

Theme G: Motivation and Emotion

Seth David

University of New Mexico

Trainee Professional

Development Award (TPDA)

Postbaccalaureate

Investigating Anticipation for Alcohol Elicited by Cues Predicting its Availability and Associated Neural Circuitry in Mice.

Friends of SfN Fund

G30

Theme G: Motivation and Emotion

Ivette Gonzalez

University of Michigan

Trainee Professional

Development Award (TPDA)

Graduate Student

Sex differences in the effects of social housing on stimulated dopamine release after methamphetamine exposure

Friends of SfN Fund

H6

Theme G: Motivation and Emotion

Cassandra Hartsgrove

University of Massachusetts Boston

Trainee Professional

Development Award (TPDA)

Graduate Student

Estradiol effects on gut microbiome and ERK signaling mechanisms during fear extinction memory consolidation

Friends of SfN Fund

H10

Theme G: Motivation and Emotion

Nina Hedayati

Wilfrid Laurier University

Trainee Professional

Development Award (TPDA)

Graduate Student

Scoping review on the neural markers of resilience to trauma and adversity

Friends of SfN Fund

H11

Theme G: Motivation and Emotion

Montana Lara
University of California San Diego

*Trainee Professional
Development Award (TPDA)*

Postdoctoral Fellow

Genome-wide association
study of cocaine use in
Heterogeneous Stock rats

Friends of SfN Fund

H21

Theme G: Motivation and Emotion

Karina Marquez
California State University
San Marcos

*Trainee Professional
Development Award (TPDA)*

Graduate Student

The Role of NACHO in
Learning and Memory

Friends of SfN Fund

H30

Theme G: Motivation and Emotion

Persephone Miller
Carleton University

*Trainee Professional
Development Award (TPDA)*

Graduate Student

Zona incerta neurons release
GABA and dopamine in the
superior colliculus to mediate
fear responses during hunger

Friends of SfN Fund

H34

Theme G: Motivation and Emotion

Madaline Mocchi
Baylor College of Medicine

*Neuroscience Scholars Program
(NSP); Trainee Professional
Development Award (TPDA)*

Graduate Student

Blunted auditory and salience network
responses to non-emotional salient
stimuli in the depressed brain.

Friends of SfN Fund

H35

Theme G: Motivation and Emotion

Alexandra Ng
Boston College

*Trainee Professional
Development Award (TPDA)*

Graduate Student

Periaqueductal gray contributes
to social approach and
avoidance behaviors in rat

Friends of SfN Fund

H38

Theme G: Motivation and Emotion

Tanya Pareek
University of Mississippi
Medical Center

*Trainee Professional
Development Award (TPDA)*

Graduate Student

Increased expression of the L-type
voltage-gated calcium channel
CACNA1C in the hippocampus
of subjects with alcohol use
disorder and rhesus monkeys
with chronic alcohol use

Friends of SfN Fund

H40

Theme G: Motivation and Emotion

Emily Prantzos

University of Kentucky

Trainee Professional

Development Award (TPDA)

Graduate Student

Repurposing aripiprazole for anxiety reduction during nicotine withdrawal: Insights on transcription and affective behavior

Friends of SfN Fund

14

Theme G: Motivation and Emotion

Marissa Raskin

University of Texas at Austin

Trainee Professional

Development Award (TPDA)

Graduate Student

Carbon dioxide reactivity predicts extinction memory to fear, food, and alcohol cues in rats

Friends of SfN Fund

18

Theme G: Motivation and Emotion

Cristina Marie Rivera Quiles

Michigan State University

Trainee Professional

Development Award (TPDA)

Graduate Student

Determination of the role of ventral tegmental area Neuromedin-s expression and cellular activity in morphine behavior

Friends of SfN Fund

110

Theme G: Motivation and Emotion

Rosa Serrano

Yale University

Trainee Professional

Development Award (TPDA)

Graduate Student

Cortical brain areas involved in contextual tolerance to fentanyl in male C57BL/6 mice

Friends of SfN Fund

112

Theme G: Motivation and Emotion

Anna Tischer

The Pennsylvania State University

Trainee Professional

Development Award (TPDA)

Postbaccalaureate

Adolescent nicotine exposure alters adult dendritic complexity and spine density of prefrontal cortex subregions based on genetic background

Friends of SfN Fund

120

Theme G: Motivation and Emotion

Maria Sofia Villalba

Austral University

Trainee Professional

Development Award (TPDA)

Graduate Student

Serotonin receptor 2A deficiency alters thalamic gene expression induced by a single administration of the atypical psychedelic noribogaine in mice: evaluation of gender differences.

Friends of SfN Fund

124

Theme G: Motivation and Emotion

Jie Zhang

University of California, San Diego

Trainee Professional

Development Award (TPDA)

Graduate Student

Oxytocin Modulation of the
Social Transfer of Pain

Friends of SfN Fund

I28

Theme G: Motivation and Emotion

Alexa Zimelman

University of Iowa

Trainee Professional

Development Award (TPDA)

Graduate Student

Optogenetic and chemogenetic
inhibition of basolateral amygdala
projections to medial prefrontal
cortex subregions during cocaine
extinction learning and reinstatement

Friends of SfN Fund

I29

Theme H: Cognition

Dennis Arruda

Roger Williams University

Trainee Professional

Development Award (TPDA)

Undergraduate Student

Clock Δ 19 reversal learning deficits
translate to humans bipolar disorder

Friends of SfN Fund

I32

Theme H: Cognition

Assia Chericoni

Baylor College of Medicine

Trainee Professional

Development Award (TPDA)

Graduate Student

Neurons in the Hippocampus
and Anterior Cingulate Cortex
map the virtual space

Friends of SfN Fund

J2

Theme H: Cognition

Nithik Chintalacheruvu

Rutgers University

Trainee Professional

Development Award (TPDA)

Undergraduate Student

A cortical locus for modulation
of arousal states

Friends of SfN Fund

J3

Theme H: Cognition

Katherine Cotter

University Of Kentucky

Trainee Professional

Development Award (TPDA)

Graduate Student

Establishing salient rewards
for operant touchscreen tasks
in aged female mice

Friends of SfN Fund

J5

Theme H: Cognition

Melisa Gumus

University of Toronto

Trainee Professional

Development Award (TPDA)

Graduate Student

Category learning builds behaviourally relevant attentional templates

Friends of SfN Fund

J20

Theme H: Cognition

Stas Kozak

Tel Aviv University

Trainee Professional

Development Award (TPDA)

Graduate Student

Uncovering the dynamics of human visual memory representations over time through convolutional neural networks

Friends of SfN Fund

J32

Theme H: Cognition

Saima Malik-Moraleda

Harvard University

Trainee Professional

Development Award (TPDA)

Graduate Student

Proficiency, not age of acquisition, drives response in the language network: the case of heritage speakers.

Friends of SfN Fund

J37

Theme H: Cognition

Frieda Nemon

Cornell University

Trainee Professional

Development Award (TPDA)

Undergraduate Student

Examining the effect of audience on budgerigar social communication

Friends of SfN Fund

K8

Theme H: Cognition

Eunseo Oh

Ulsan National Institute of Science and Technology (UNIST)

Trainee Professional

Development Award (TPDA)

Graduate Student

Investigating beta-burst rate dynamics in motor Imagery: A comparative study with motor execution in a stop-signal task

Friends of SfN Fund

K10

Theme H: Cognition

Maxine Annel Pacheco-Ramírez

University of Houston,

IUCRC BRAIN center

Trainee Professional

Development Award (TPDA)

Graduate Student

Neural dynamics of social interaction during creative movements from a state of discord to "Meeting of Minds": A longitudinal art-science performance.

Friends of SfN Fund

K13

Theme H: Cognition

Keanna Rowchan

Queen's University

Trainee Professional

Development Award (TPDA)

Graduate Student

Visual statistical learning is associated with changes in low-dimensional cortical and subcortical architecture

Friends of SfN Fund

K29

Theme H: Cognition

Hayoung Song

University of Chicago

Trainee Professional

Development Award (TPDA)

Graduate Student

Comprehension of causal structure in narratives

Friends of SfN Fund

L2

Theme H: Cognition

Catherine Wang

Duke University

Trainee Professional

Development Award (TPDA)

Graduate Student

Tracking the emergence and robustness of persistent activity in the premotor cortex across learning

Friends of SfN Fund

L10

Theme H: Cognition

Yuhua Yu

University of Arizona

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Temporal dynamics of EEG oscillation as measured by spectral power volatility: rest-task stability and cognitive relevance

Friends of SfN Fund

L15

Theme I: Techniques

Amanda Buch

Weill Cornell Medicine,

Cornell University

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Cluster-aware machine learning of multiomics and neuroimaging for precision neuroscience and psychiatry

Friends of SfN Fund

L23

Theme I: Techniques

Shan Jiang

University of Virginia

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Multimodal Multidimensional Neural Interfaces

Friends of SfN Fund

L30

Theme I: Techniques

Noa Nuzov

Case Western Reserve University

*Trainee Professional
Development Award (TPDA)*

Graduate Student

Statistical variation of the branching pattern of the human cervical vagus nerve using 3D tracing

Friends of SfN Fund

M1

Theme I: Techniques

Skylar Suarez

University of Colorado -

Anschutz Medical Campus

*Trainee Professional
Development Award (TPDA)*

Graduate Student

Label-free Two Photon
Autofluorescence Imaging
of Amyloid-Beta Plaques

Friends of SfN Fund

M11

GATSBY CHARITABLE FOUNDATION
TRAINEE PROFESSIONAL
DEVELOPMENT AWARDS

SPONSORED BY

**GATSBY CHARITABLE
FOUNDATION**



Theme A: Development

Ivan Alex Lazarte

University of Oxford

*Trainee Professional
Development Award (TPDA)*

Graduate Student

Differential circuit and molecular profile of somatostatin interneurons in postnatal mouse neocortex across development

Gatsby Charitable Foundation

A29

Theme A: Development

Amar Ojha

University of Pittsburgh

*Trainee Professional
Development Award (TPDA)*

Graduate Student

Nuclei-specific functional maturation of fronto-amygdala circuitry through adolescence: longitudinal insights from 7 Tesla fMRI

Gatsby Charitable Foundation

A42

Theme A: Development

Reem Swaidan

American University of Beirut

Trainee Professional

Development Award (TPDA)

Graduate Student

Rb Predominately Compensates for the Double Loss of p130 and p107 in Adult and Embryonic Neural Stem Cell Lineages

Gatsby Charitable Foundation

A53

Theme A: Development

Branden Verosky

The Ohio State University

College of Medicine

Trainee Professional

Development Award (TPDA)

Graduate Student

Deciphering the Impact of Maternal Stress on Fetal Brain Development and Placental Function in Mice Through Single-Cell RNA Sequencing

Gatsby Charitable Foundation

A58

Theme B: Neural Excitability, Synapses, and Glia

Pawan Thapaliya

University of South Florida

Trainee Professional

Development Award (TPDA)

Graduate Student

Investigating the Reversal of GLUT1 Glutamate Transporter during Metabolic Stress

Gatsby Charitable Foundation

B61

Theme C: Neurodegenerative Disorders and Injury

April Fineberg

University of Colorado

Anschutz Medical Campus

Trainee Professional

Development Award (TPDA)

Post-baccalaureate

Delayed fluoxetine administration restores hippocampal function in a juvenile global cerebral ischemia mouse model in a sex specific manner

Gatsby Charitable Foundation

B120

Theme C: Neurodegenerative Disorders and Injury

Victor Omoniyi

Johns Hopkins University

School of Medicine

Neuroscience Scholars Program

(NSP); Trainee Professional

Development Award (TPDA)

Graduate Student

Non-surgical therapy suppresses gliopathy and white matter injury after post-traumatic hydrocephalus

Gatsby Charitable Foundation

C48

Theme D: Sensory Systems

Lucy Dowdall

University of Cambridge

Trainee Professional

Development Award (TPDA)

Graduate Student

Integration of Sensory Feedback for Wearable Devices

Gatsby Charitable Foundation

C104

Theme D: Sensory Systems

Kotaro Yamashiro

The University of Tokyo

Trainee Professional

Development Award (TPDA)

Graduate Student

Brief light deprivation modulates rat somatosensory cortical activity of sole tactile sensation during natural walking

Gatsby Charitable Foundation

C151

Theme E: Motor Systems

Leonardo Pollina

EPFL

Trainee Professional

Development Award (TPDA)

Graduate Student

Distinct yet overlapping neural spaces explain local field potential activity in motor execution and imagination

Gatsby Charitable Foundation

D22

Theme E: Motor Systems

Federico Tessari

MIT

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

The Synergy Expansion Hypothesis

Gatsby Charitable Foundation

D35

Theme F: Integrative Physiology and Behavior

Hazal Arpacı

University of Iowa

Trainee Professional

Development Award (TPDA)

Graduate Student

Non-rapid eye movement sleep oscillations, resting-state functional connectivity and mood symptoms in children with anxiety disorders

Gatsby Charitable Foundation

D44

Theme F: Integrative Physiology and Behavior

Asaf Benjamin

Weizmann Institute of Science

Trainee Professional

Development Award (TPDA)

Graduate Student

Prefrontal representations of social information and complex group dynamics

Gatsby Charitable Foundation

D52

Theme F: Integrative Physiology and Behavior

Gabriel Tofani

University College Cork

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Gut Microbiota Regulates Stress Responsivity via the Circadian System

Gatsby Charitable Foundation

G3

Theme G: Motivation and Emotion

Veronika Kondev

Icahn School of Medicine

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Role of dopaminoceptive cells in ventral hippocampus in cocaine action

Gatsby Charitable Foundation

H19

Theme G: Motivation and Emotion

Sophia Liang

University of New South Wales

Trainee Professional

Development Award (TPDA)

Graduate Student

Plasticity in Intratelencephalic Neurons in the Dorsomedial Prefrontal Cortex is Necessary for Goal-Directed Learning

Gatsby Charitable Foundation

H24

Theme G: Motivation and Emotion

Nuria Nadal-Gratacos

Universitat de Barcelona

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

The psychedelic 25C-NBF promotes neural plasticity and has fast-acting antidepressant properties

Gatsby Charitable Foundation

H37

Theme H: Cognition

Nina Dolfen

Ghent University

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Differentiation of object and movement representations in the hippocampus and in domain-specific regions after sequence learning

Gatsby Charitable Foundation

J9

Theme H: Cognition

Blair Jovellar

University of Tübingen

Trainee Professional

Development Award (TPDA)

Graduate Student

Real-time brain state-coupled network-targeted dual-site TMS enhances working memory

Gatsby Charitable Foundation

J29

Theme H: Cognition

Robert Kim

Cedars-Sinai Medical Center

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Elucidating the role of sensory cortical areas in short-term memory

Gatsby Charitable Foundation

J31

Theme H: Cognition

Jan Martini

**Hertie-Institute for Clinical Brain
Research University of Tuebingen**

*Trainee Professional
Development Award (TPDA)*

Graduate Student

Neural variability as an organizing principle of the cortical hierarchy that enables cognitive flexibility

Gatsby Charitable Foundation

K2

Theme H: Cognition

Gabriel Ocana Santero

University of Oxford

*Trainee Professional
Development Award (TPDA)*

Graduate Student

Understanding serotonin: gated Deep Neural Networks reveal a unified model across its role in learning, neurodevelopment and psychedelics

Gatsby Charitable Foundation

K9

Theme H: Cognition

Alma Rahimi

Western University

*Trainee Professional
Development Award (TPDA)*

Graduate Student

Passive exercise provides a simultaneous and postexercise executive function benefit

Gatsby Charitable Foundation

K19

Theme H: Cognition

Changmin Yu

University of Cambridge

*Trainee Professional
Development Award (TPDA)*

Postdoctoral Fellow

Goal-anticipatory firing and phase precession in place cells during rotational scanning on the honeycomb maze.

Gatsby Charitable Foundation

L14

Theme I: Techniques

Noemi Gozzi

ETH Zurich

*Trainee Professional
Development Award (TPDA)*

Graduate Student

AI closed loop optimization for vagus nerve stimulation

Gatsby Charitable Foundation

L27

Theme I: Techniques

Jihye Shin

Yonsei University

*Trainee Professional
Development Award (TPDA)*

Graduate Student

Magnetic nanoparticle characterization for wireless and remote neuromodulation by magneto-mechanical-genetics (MMG)

Gatsby Charitable Foundation

M9

SPONSORED BY
**RAINWATER CHARITABLE
FOUNDATION**



THE
RAINWATER
PRIZE
For Advances in Neurodegenerative Disease Research

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

Hannah Lichtenstein
Georgia State University

*Trainee Professional
Development Award (TPDA)*

Graduate Student

Early-life adversity alters microglia-mediated synaptic refinement of corticotropin-releasing hormone-expressing neurons in the central nucleus of the amygdala

Rainwater Charitable Foundation

B29

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

Ryo Nakatani
Okinawa Institute of Science and
Technology Graduate School

*Japan Neuroscience Society
(JNS); Trainee Professional
Development Award (TPDA)*

Graduate Student

Elucidating mechanisms of astrocytic depolarization

Rainwater Charitable Foundation

B40

**Theme C: Neurodegenerative
Disorders and Injury**

Behnaz Akbarian
Vanderbilt University

*Trainee Professional
Development Award (TPDA)*

Graduate Student

Microstructural but not macrostructural damage is associated with antisocial behavior in bvFTD patients

Rainwater Charitable Foundation

B75

**Theme C: Neurodegenerative
Disorders and Injury**

Mikaley Bolden
Georgetown University

*Medical Center
Trainee Professional
Development Award (TPDA)*

Postbaccalaureate

Lower gray matter volume and worse white matter hyperintensity burden are associated with faster cognitive decline in adults living with HIV

Rainwater Charitable Foundation

B83

**Theme C: Neurodegenerative
Disorders and Injury**

Alyssa Janes
Memorial University of
Newfoundland

*Trainee Professional
Development Award (TPDA)*

Graduate Student

Lipidomic analyses in a pre-tangle rat model to develop a peripheral blood biomarker of disease progression

Rainwater Charitable Foundation

C1

Theme C: Neurodegenerative Disorders and Injury

Fabio Ribeiro Rodrigues
University College London
Trainee Professional Development Award (TPDA)

Postdoctoral Fellow

Age-dependent changes in brain rhythms and visual responses in a humanised mouse model of tauopathy

Rainwater Charitable Foundation

C60

Theme C: Neurodegenerative Disorders and Injury

Said Salehe
Florida International University
Trainee Professional Development Award (TPDA)

Graduate Student

Impact of Long-Term Partial Drp1 Knockout in Aging Brain

Rainwater Charitable Foundation

C65

Theme E: Motor Systems

Rachel Mendelsohn
Salk Institute for Biological Studies
Trainee Professional Development Award (TPDA)

Postbaccalaureate

Towards a theoretical understanding of the control systems in speech perception and articulation

Rainwater Charitable Foundation

D17

Theme G: Motivation and Emotion

Benjamin Filio
NINDS/Brown University
Trainee Professional Development Award (TPDA)

Graduate Student

Investigating Cerebellar Representations of Reward Signals

Rainwater Charitable Foundation

H4

Theme H: Cognition

Jafar Bhatti
University of Pennsylvania
Trainee Professional Development Award (TPDA)

Graduate Student

Perceptual decision-related single-unit activity in the monkey substantia nigra pars reticulata.

Rainwater Charitable Foundation

I36

Theme H: Cognition

Steven Lamontagne
National Institutes of Health
Trainee Professional Development Award (TPDA)

Postdoctoral Fellow

Cortisol and emotional face processing in differing levels of suicide risk

Rainwater Charitable Foundation

J34

Theme I: Techniques

Hakki Orhun Akengin

Stanford University

Trainee Professional

Development Award (TPDA)

Undergraduate Student

Zoo of RNNs: A comprehensive analysis of recurrent neural networks trained on synthetic behavioral tasks

Rainwater Charitable Foundation

L21

Theme I: Techniques

Simran Singh

University of Illinois,

Urbana-Champaign

Trainee Professional

Development Award (TPDA)

Graduate Student

Establishing multiscale measures of myelin in the mouse auditory cortex

Rainwater Charitable Foundation

M10

JAMES L. ROBERTS TRAINEE
PROFESSIONAL DEVELOPMENT AWARDS

SPONSORED BY

THE JAMES L. ROBERTS FUND

The James L. Roberts Fund

Theme A: Development

Katrina Lin

The Ohio State University

Trainee Professional

Development Award (TPDA)

Graduate Student

Role of prefrontal parvalbumin cells on the development of social behaviors during adolescence

The James L. Roberts Fund

A31

Theme B: Neural Excitability, Synapses, and Glia

Arnab Biswas

University of Nevada, Reno

Trainee Professional

Development Award (TPDA)

Graduate Student

Mooshik: A python package for visualizing rodent behavior

The James L. Roberts Fund

A78

Theme B: Neural Excitability, Synapses, and Glia

Juan Taborda-Bejarano
Medical College Of wisconsin
Trainee Professional Development Award (TPDA)

Graduate Student

Identifying the role of microglia on matrix metalloproteinase activity during acute stress

The James L. Roberts Fund

B60

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

The James L. Roberts Fund

B88

Theme C: Neurodegenerative Disorders and Injury

Te-Hsuan Tung
University of Pittsburgh
Trainee Professional Development Award (TPDA)

Postdoctoral Fellow

Characterization of myelin and AD disease markers in a novel hypermyelinating App knock-in mouse

The James L. Roberts Fund

C91

Theme D: Sensory Systems

Christian Arntsen
University of Vermont
Trainee Professional Development Award (TPDA)

Graduate Student

Insulin and dopamine receptors modulate sweet sensitivity in drosophila melanogaster

The James L. Roberts Fund

C100

Theme E: Motor Systems

Hannah Goldbach
Brown University & National Institutes of Health
Trainee Professional Development Award (TPDA)

Graduate Student

Spatial and temporal changes in mouse striatal dopamine signals during visual learning

The James L. Roberts Fund

D6

Theme F: Integrative Physiology and Behavior

King Fang
Baylor College of Medicine
Trainee Professional Development Award (TPDA)

Postdoctoral Fellow

Perifornical area of the anterior hypothalamus regulates metabolic balance

The James L. Roberts Fund

E11

Theme F: Integrative Physiology and Behavior

Jessica Maltman
Virginia Commonwealth University
Trainee Professional Development Award (TPDA)

Graduate Student
Characterization of the psychedelic quipazine analog VCU-1012 in mice
The James L. Roberts Fund
E38

Theme F: Integrative Physiology and Behavior

Devashish Pande
University of Delaware
Trainee Professional Development Award (TPDA)

Graduate Student
Investigating the activity of CA2 hippocampal neurons in freely interacting mice
The James L. Roberts Fund
F19

Theme H: Cognition

Jonathan Indajang
Cornell University
Trainee Professional Development Award (TPDA)

Undergraduate Student
Adaptation of counter-strategies by mice in matching pennies task
The James L. Roberts Fund
J28

Theme H: Cognition

Asako Mitsuto
Rutgers University
Trainee Professional Development Award (TPDA)

Postdoctoral Fellow
Mental Effort Learning, unlike Reward Learning, Requires Direct Experience
The James L. Roberts Fund
K5

Theme I: Techniques

Hyeonjeong Jeong
University of Minnesota
Trainee Professional Development Award (TPDA)

Graduate Student
Visual detection of misfolded alpha-synuclein and prions via capillary-based quaking-induced conversion assay (Cap-QulC)
The James L. Roberts Fund
L29

Theme J: History, Education, and Society

Claire Robey
Uniformed Services University
Early Career Policy Ambassadors (ECPA); Trainee Professional Development Award (TPDA)

Graduate Student
Advocating for Neuroscience: My Experience as an Early Career Policy Ambassador
The James L. Roberts Fund
M28

SPONSORED BY
**SCIENCE TRANSLATIONAL
MEDICINE/AAAS**

Science Translational Medicine



Theme I: Techniques

Ibrahim Oladepo
University of Minnesota Twin Cities
*Trainee Professional
Development Award (TPDA)*
Graduate Student

Computer vision guided open
source active commutator for neural
imaging in freely behaving animals
Science Translational Medicine/AAAS

M2

Theme C: Neurodegenerative Disorders and Injury

Jamie Henry
University of Colorado
School of Medicine
*Trainee Professional
Development Award (TPDA)*

Undergraduate Student
Exploring AMPAkinases in Pediatric
Brain Recovery: Harnessing BDNF
Signaling to Restore Synaptic
and Cognitive Function Following
Juvenile Global Cerebral Ischemia
Science Translational Medicine/AAAS

B135

Theme F: Integrative Physiology and Behavior

Alexia Crockett
University of South Carolina
*Trainee Professional
Development Award (TPDA)*

Graduate Student
Sex-dependent effects of chronic stress
on HPA axis mitochondrial function
Science Translational Medicine/AAAS

E4

JOHN I. SIMPSON TRAINEE
PROFESSIONAL DEVELOPMENT AWARDS

SPONSORED BY
THE JOHN I. SIMPSON FUND

The John I. Simpson Fund

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

The John I. Simpson Fund
A9

Theme A: Development

Yiding Gui
University of North
Carolina at Chapel Hill
*Trainee Professional
Development Award (TPDA)*

Graduate Student
Associations between sleep
and brain development in
infants aged 0-27 months

The John I. Simpson Fund
A19

Theme A: Development

Kaeli Vandemark
University of California Berkeley
*Trainee Professional
Development Award (TPDA)*

Graduate Student
Rescue of degraded tactile coding in
the Scn2a+/- mouse model of ASD

The John I. Simpson Fund
A56

Theme A: Development

Sara Westbrook
Washington State University
*Trainee Professional
Development Award (TPDA)*

Postdoctoral Fellow
Adolescent vaporized cannabis-
induced medial prefrontal cortex
dysfunction in adult rats: Cognitive
flexibility, parvalbumin interneurons,
and perineuronal nets

The John I. Simpson Fund
A59

Theme A: Development

Miray Youssef
University of Western Ontario
*Trainee Professional
Development Award (TPDA)*

Graduate Student
The Impact of Adolescent Nicotine
Vapour Exposure on Cognition in
Mood and Anxiety Disorders

The John I. Simpson Fund
A62

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

**Naga Nitin Sai Chandra
Anisetty**

**Indian Institute of Technology
(IIT), Bombay**

Trainee Professional

Development Award (TPDA)

Graduate Student

Computational exploration leading to incremental calcium currents across up-states in dendritic spines of biophysically detailed striatal neurons

The John I. Simpson Fund

A72

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

Meghan Connolly

University of Illinois

Urbana-Champaign

Trainee Professional

Development Award (TPDA)

Graduate Student

Single-nucleus RNA sequencing of striatal microglia reveals distinct transcriptomic signatures of acute stress and chronic exercise

The John I. Simpson Fund

B8

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

Jordyn Czarny

Washington University in St. Louis

Trainee Professional

Development Award (TPDA)

Graduate Student

Glp-1 receptor agonist exendin-4 reduces optogenetically evoked dopamine in the nucleus accumbens

The John I. Simpson Fund

B12

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

Paul Derr

Harvard Medical School

Trainee Professional

Development Award (TPDA)

Graduate Student

Distinct molecular subtypes and anatomical projections of rhombomere 4-derived Pet1 neurons in the mouse brain

The John I. Simpson Fund

B13

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

Giuseppina Di Salvo

Icahn School of Medicine At Mount

Sinai Maastricht University

Trainee Professional

Development Award (TPDA)

Graduate Student

Dissecting regional and cell-type specific roles for Histone H3 serotonylation in stress-mediated dysregulation of neural transcription

The John I. Simpson Fund

B14

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

Marla Frick

University of South Carolina

Trainee Professional

Development Award (TPDA)

Graduate Student

Neuroinflammatory measures following orexin/hypocretin expression manipulation in young and aged rats

The John I. Simpson Fund

B19

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

Emily Hurley

**Memorial University of
Newfoundland**

Trainee Professional

Development Award (TPDA)

Graduate Student

Excitatory glycine receptors
and synaptic dysfunction in
neurodegenerative disease

The John I. Simpson Fund

B23

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

Renato Willian Martins Sá

University of São Paulo

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Astrocytes of the lateral parafacial
region are sensitive to high CO₂
but play no major role in controlling
pulmonary ventilation in mice

The John I. Simpson Fund

B35

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

Andrea (Jihee) Nam

University of Texas at Austin

Trainee Professional

Development Award (TPDA)

Graduate Student

Astrocytic processes remain closely
associated with >80% of excitatory
synapses during synaptic plasticity
in the hippocampal dentate gyrus

The John I. Simpson Fund

B41

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

Maria Roznovcova

University of Reading

Trainee Professional

Development Award (TPDA)

Graduate Student

The MIDAS motif of CACHD1 is
important for CACHD1 expression
and function as a CaV3.1 voltage-
gated calcium channel modulator.

The John I. Simpson Fund

B52

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

Tarek Shaker

University of Alberta

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Investigating claustrum processing
of anterior cingulate inputs

The John I. Simpson Fund

B56

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

Gaokhia Yang

University of New Mexico

Trainee Professional

Development Award (TPDA)

Graduate Student

Plasticity in feedback inhibition
affects CA1 assembly membership

The John I. Simpson Fund

B70

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

Nelufar Yasmen

University of Tennessee

Health Science Center

Trainee Professional

Development Award (TPDA)

Graduate Student

Siglec-E is required for the generation of seizures

The John I. Simpson Fund

B71

**Theme C: Neurodegenerative
Disorders and Injury**

Eric Brengel

Northeastern University Center

for Translational Neuroimaging

Trainee Professional

Development Award (TPDA)

Graduate Student

Psilocybin as a treatment for microstructural and functional alterations following repetitive mild head injury: A preclinical MRI study

The John I. Simpson Fund

B86

**Theme C: Neurodegenerative
Disorders and Injury**

Jack Browning

Virginia Tech

Trainee Professional

Development Award (TPDA)

Graduate Student

Utilizing voluntary wheel running to attenuate cerebral blood flow in the J20 mouse model

The John I. Simpson Fund

B87

**Theme C: Neurodegenerative
Disorders and Injury**

Saumya Digraskar

University of Alabama at Birmingham

Trainee Professional

Development Award (TPDA)

Graduate Student

Deciphering the role of heparan sulfate in the progression of α -synuclein pathology

The John I. Simpson Fund

B113

**Theme C: Neurodegenerative
Disorders and Injury**

Veronica Domyslawski

University of Pittsburgh

Trainee Professional

Development Award (TPDA)

Undergraduate Student

Effects of a non-amphetamine central nervous system stimulant on sustained attention after controlled cortical impact injury in males and females

The John I. Simpson Fund

B114

**Theme C: Neurodegenerative
Disorders and Injury**

Emely Gazarov

University of Florida

Trainee Professional

Development Award (TPDA)

Graduate Student

Effects of chronic cannabis smoke exposure on peripheral and brain inflammatory markers and tau pathology in mice

The John I. Simpson Fund

B123

Theme C: Neurodegenerative Disorders and Injury

Melania González Torres
Institut de Neurociències, Universitat Autònoma de Barcelona (UAB)

Trainee Professional Development Award (TPDA)

Graduate Student

Dissecting the role of an antiviral immune response in a mouse model of Mitochondrial Disease

The John I. Simpson Fund

B127

Theme C: Neurodegenerative Disorders and Injury

Hugo Kim
University of California, San Diego

Trainee Professional Development Award (TPDA)

Postdoctoral Fellow

Understanding spinal cord injury site dynamics with spatial transcriptomics

The John I. Simpson Fund

C12

Theme C: Neurodegenerative Disorders and Injury

Allison Martinez Mejia
Washington University in St. Louis

Trainee Professional Development Award (TPDA)

Graduate Student

Intravital imaging of neuronal energy metabolism in APP/PS1 at single cell resolution

The John I. Simpson Fund

C23

Theme C: Neurodegenerative Disorders and Injury

Jenna McCloskey
The Ohio State University

Trainee Professional Development Award (TPDA)

Postbaccalaureate

Frontal traumatic brain injury drives unique decision-making deficits in gambling-related behaviors.

The John I. Simpson Fund

C26

Theme C: Neurodegenerative Disorders and Injury

Shatha Mufti
Purdue University

Trainee Professional Development Award (TPDA)

Graduate Student

Alterations in Neuronal Network Dynamics, Astrocyte Reactivity, and Oxidative Stress Post-Traumatic Brain Injury

The John I. Simpson Fund

C39

Theme C: Neurodegenerative Disorders and Injury

Shahriar Nasiri
University of Ottawa

Trainee Professional Development Award (TPDA)

Undergraduate Student

Electrophysiological and optogenetic mapping of connectivity patterns and locomotor function of dl3 interneurons in the lumbar spinal cord

The John I. Simpson Fund

C41

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

The John I. Simpson Fund

C42

Theme C: Neurodegenerative Disorders and Injury

Aleandra Ortiz Santiago

University of Puerto Rico-
Medical Sciences Campus
Trainee Professional
Development Award (TPDA)

Graduate Student

Characterization of Monocyte-
Derived Microglia from HIV-
Seropositive Patients to Assess
Alpha 7-nAChR Activation Against
HIV-induced Neuroinflammation

The John I. Simpson Fund

C49

Theme C: Neurodegenerative Disorders and Injury

Tae-Yoon Park

Harvard Medical School /
McLean Hospital
Trainee Professional
Development Award (TPDA)

Postdoctoral Fellow

Exploring the functional roles of host
immune responses in cell replacement
therapy for Parkinson's disease

The John I. Simpson Fund

C52

Theme C: Neurodegenerative Disorders and Injury

Emma Pineau

University of Toronto
Trainee Professional
Development Award (TPDA)

Graduate Student

Deep brain phenotyping of
time-dependent response
variability in BOLD fMRI

The John I. Simpson Fund

C55

Theme C: Neurodegenerative Disorders and Injury

Tabitha Rodriguez

Thomas Jefferson University
Trainee Professional
Development Award (TPDA)

Graduate Student

Alterations in the microvascular
environment of the SNpc in response
to voluntary exercise in a mouse
model of Parkinson's Disease

The John I. Simpson Fund

C61

Theme C: Neurodegenerative Disorders and Injury

Juao-Guilherme Rosa

Boston University

Trainee Professional

Development Award (TPDA)

Graduate Student

Disruption of astrocyte lysosome function and lipid metabolism by Alzheimer's disease risk variant APOE E4

The John I. Simpson Fund

C63

Theme C: Neurodegenerative Disorders and Injury

Matthew Rozak

University of Toronto

Trainee Professional

Development Award (TPDA)

Graduate Student

Cerebrovascular Networks Coordination Following Traumatic Brain Injury (TBI)

The John I. Simpson Fund

C64

Theme C: Neurodegenerative Disorders and Injury

Lianne Sánchez-Rodríguez

University of Houston

Trainee Professional

Development Award (TPDA)

Graduate Student

At-home Stroke NeuroRehabilitation with the NeuroEXO Brain-Machine Interface System

The John I. Simpson Fund

C66

Theme C: Neurodegenerative Disorders and Injury

Savannah Tallino

Arizona State University

Trainee Professional

Development Award (TPDA)

Graduate Student

Adulthood dietary choline supplementation modestly lowers metabolic symptoms related to Alzheimer's disease risk in the Ts65Dn model of Down syndrome

The John I. Simpson Fund

C83

Theme C: Neurodegenerative Disorders and Injury

Brooke Yeager

University of Iowa

Trainee Professional

Development Award (TPDA)

Graduate Student

Sex differences in the neural dynamics underlying cognitive impairments in Parkinson's disease

The John I. Simpson Fund

C97

Theme C: Neurodegenerative Disorders and Injury

Zhengrong Zhang

Mayo Clinic Florida

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Microglial-specific Tsg101 deletion restricts microglia activation and ameliorates extracellular vesicle-mediated tau propagation in Alzheimer's disease

The John I. Simpson Fund

C98

Theme D: Sensory Systems

Natalie Choi

University of Hawaii at Manoa

Trainee Professional

Development Award (TPDA)

Graduate Student

Hyper-olfactory sensing, compensating for vision loss, may evolve through fluid-flow dynamics at the olfactory pit but not the expansion of olfactory receptor gene families.

The John I. Simpson Fund

C102

Theme D: Sensory Systems

Debarghya Dutta Banik

Stark Neurosciences Research

Institute, Indiana University

School of Medicine

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Identification of putative oral mechanosensory end-organs

The John I. Simpson Fund

C106

Theme D: Sensory Systems

Mathilda Froesel

KU Leuven

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

High-resolution fmri reveals a large cortical network responding to conspecific emotional vocalization in macaques

The John I. Simpson Fund

C108

Theme D: Sensory Systems

Veronica Hong

University of Texas at Dallas

Trainee Professional

Development Award (TPDA)

Graduate Student

Loss of Sigma-2/TMEM97 is associated with increased mechanical hypersensitivity during the inflammatory pain resolution in both germline and nociceptor specific knockout mice

The John I. Simpson Fund

C115

Theme D: Sensory Systems

Rebecca Hornung

University of Utah

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Sex differences in development of persistent post-surgical pain in consomic SS-BN13 rats

The John I. Simpson Fund

C116

Theme D: Sensory Systems

Franklin Leong

Neuro-X, EPFL

Trainee Professional

Development Award (TPDA)

Graduate Student

Self-optimizing framework for natural sensory feedback through transcutaneous electrical nerve stimulation

The John I. Simpson Fund

C125

Theme D: Sensory Systems

Jonathan Muheim

EPFL

Trainee Professional

Development Award (TPDA)

Graduate Student

Investigation of individual differences explaining the presence/absence of thermal phantom maps in upper-limb amputees

The John I. Simpson Fund

C128

Theme D: Sensory Systems

Anuththara Rupasinghe

Princeton Neuroscience Institute

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Continuous partitioning of neuronal variability

The John I. Simpson Fund

C137

Theme D: Sensory Systems

Christina Schmitter

Philipps-University of Marburg

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

How do we adapt to sensorimotor and inter-sensory delays? Findings from fMRI and tDCS suggest critical roles of the hippocampus and the cerebellum

The John I. Simpson Fund

C139

Theme E: Motor Systems

Anwasha Das

Leibniz Institute for Neurobiology

/ Otto-von-Guericke

University Magdeburg

Trainee Professional

Development Award (TPDA)

Graduate Student

Can we learn while doing nothing? -

A probe into 'micro-offline gains' in early motor skill acquisition in humans

The John I. Simpson Fund

D1

Theme E: Motor Systems

Perla González-Pereyra

Instituto de Neurobiología, UNAM

Trainee Professional

Development Award (TPDA)

Graduate Student

Preconfigured cortico-thalamic neural dynamics constrain movement-associated thalamic activity.

The John I. Simpson Fund

D7

Theme E: Motor Systems

Sina Javadzadeh No

University of California Irvine

Trainee Professional

Development Award (TPDA)

Graduate Student

Go/nogo experiment reveals involvement of basal ganglia regions in initiation and canceling hand reach in human subjects

The John I. Simpson Fund

D11

Theme E: Motor Systems

Megan Nelson

Arizona State University

Trainee Professional

Development Award (TPDA)

Undergraduate Student

Social memory and interactive behaviors are sex-dependent and modulated by the cerebellum in mice

The John I. Simpson Fund

D19

Theme E: Motor Systems

PRARTHANA SAIKIA

UNIVERSITY COLLEGE

DUBLIN, IRELAND

Trainee Professional

Development Award (TPDA)

Graduate Student

Simulation of extracellular action potentials detected by an intracortical NeuroNexus neurotrophic electrode (NXNE).

The John I. Simpson Fund

D27

Theme E: Motor Systems

Sumire Sato

University of Florida

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Differential association of cerebrospinal fluid-interstitial fluid exchange and walking speed in young and older adults

The John I. Simpson Fund

D30

Theme F: Integrative Physiology and Behavior

Abneil Alicea Pauneto

The Sidney Kimmel Medical College
at Thomas Jefferson University

Trainee Professional

Development Award (TPDA)

Graduate Student

Long-term effects of adolescent risperidone treatment on behavior and pre-frontal cortex activity in mice

The John I. Simpson Fund

D41

Theme F: Integrative Physiology and Behavior

Amelia Cuarenta

Georgia State University

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Resource scarcity-induced genomic alterations in the basolateral amygdala: a focus on retrotransposons

The John I. Simpson Fund

E5

Theme F: Integrative Physiology and Behavior

Sixtine Fleury

Dartmouth College

Trainee Professional

Development Award (TPDA)

Graduate Student

The non-hallucinogenic serotonin 1B receptor is necessary for some of the persisting behavioral effects and neural mechanisms of psilocybin in mice

The John I. Simpson Fund

E14

Theme F: Integrative Physiology and Behavior

Grace Lower

University of Florida

Trainee Professional

Development Award (TPDA)

Graduate Student

Investigating the neurophysiological connectivity basis of tic generation

The John I. Simpson Fund

E34

Theme F: Integrative Physiology and Behavior

Laiklyn Luther

West Virginia University

Trainee Professional

Development Award (TPDA)

Undergraduate Student

Lasting epigenetic programming in the hypothalamus due to stress during puberty

The John I. Simpson Fund

E35

Theme F: Integrative Physiology and Behavior

Samantha Malmberg

Boston University

Trainee Professional

Development Award (TPDA)

Graduate Student

A subset of egocentric boundary cells in the retrosplenial cortex show preferential tuning to circumventable barriers in an environment.

The John I. Simpson Fund

E37

Theme F: Integrative Physiology and Behavior

Simone Mellert

University of Colorado Denver

Trainee Professional

Development Award (TPDA)

Graduate Student

A Nucleus Accumbens-to-Dorsal Raphe Pathway Mediates Exercise-Induced Stress Resistance in Female Rats

The John I. Simpson Fund

F7

Theme F: Integrative Physiology and Behavior

Chloe Orsini

Stanford University

Trainee Professional

Development Award (TPDA)

Graduate Student

Insights Into Depression in Chronic Pain: An Exploration of EEG-Based Biomarkers

The John I. Simpson Fund

F16

Theme F: Integrative Physiology and Behavior

Beatriz Rocha

Ariel University

Trainee Professional

Development Award (TPDA)

Graduate Student

Enriched maternal care combined with Sodium Propionate supplementation reverses outcome of inherited stress vulnerability in mice

The John I. Simpson Fund

F29

Theme F: Integrative Physiology and Behavior

Katy Celina Sandoval

McMaster University

Trainee Professional

Development Award (TPDA)

Graduate Student

Sex differences in calcium activity of oxytocin neurons and neighboring astrocytes in the hypothalamic paraventricular nucleus during social and stress stimuli

The John I. Simpson Fund

F32

Theme F: Integrative Physiology and Behavior

Navid Tavakoli

University of Kentucky

Trainee Professional

Development Award (TPDA)

Graduate Student

Astrocyte Ca²⁺ in the dorsal striatum suppresses neuronal activity to oppose cue-induced reinstatement of cocaine seek

The John I. Simpson Fund

G2

Theme F: Integrative Physiology and Behavior

Julia Tom

University of Toronto

Trainee Professional

Development Award (TPDA)

Graduate Student

What's touch got to do with musicians' motor performance: the interaction between tactile suppression, expertise and difficulty in piano key presses

The John I. Simpson Fund

G4

Theme F: Integrative Physiology and Behavior

Mengjie (Emma) Wang

Baylor College of Medicine

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

apMPOA neurons regulate male sexual behavior

The John I. Simpson Fund

G11

Theme F: Integrative Physiology and Behavior

Takashi Yamaguchi

New York University

Neuroscience Institute

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Plasticity in a limbic-hypothalamic circuit for the periodic expression of aggressive behaviors in lactating female mice.

The John I. Simpson Fund

G15

Theme G: Motivation and Emotion

Alev Ecevitoglu

University of Connecticut

Trainee Professional

Development Award (TPDA)

Graduate Student

Investigating the neural mechanisms of effort-based behaviors: Effects of local response rate and tetrabenazine on theta local field potential recordings in prefrontal cortex, nucleus accumbens, and dorsal hippocampus.

The John I. Simpson Fund

G35

Theme G: Motivation and Emotion

Marle Jahnke

Institute of Neurophysiology,

Goethe University Frankfurt

Trainee Professional

Development Award (TPDA)

Graduate Student

Differential Kv4 channel

function in projection-defined

dopamine VTA neurons

The John I. Simpson Fund

H14

Theme G: Motivation and Emotion

Tammy Nguyen

California State University,

Long Beach

Trainee Professional

Development Award (TPDA)

Graduate Student

Exendin-4, a glucagon-like peptide-1

receptor agonist, attenuates the

acquisition of oxycodone preference in

male and female Sprague-Dawley rats

The John I. Simpson Fund

H39

Theme G: Motivation and Emotion

Brandon Richardson

McGill University

Trainee Professional

Development Award (TPDA)

Graduate Student

Psilocybin vs. lisuride: similarities

and differences in their serotonergic,

dopaminergic, sedative-, anxiogenic-,

and antidepressant-like effects

The John I. Simpson Fund

19

Theme G: Motivation and Emotion

Adrienne Santiago

Columbia University

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Dentate gyrus granule neuron plasticity

evoked by electroconvulsive shock:

functional and transcriptomic effects

The John I. Simpson Fund

111

Theme G: Motivation and Emotion

Bryan Uceda-Alvarez

Columbia University

Trainee Professional

Development Award (TPDA)

Post-baccalaureate

Oxytocin-mediated circuit connectivity

and its role in social motivation

The John I. Simpson Fund

122

Theme H: Cognition

Yasmine Bassil

Emory University

Trainee Professional

Development Award (TPDA)

Graduate Student

Investigating aging-related deficits

in human spatial navigation through

naturalistic navigation ability and

reference frame utilization

The John I. Simpson Fund

133

Theme H: Cognition

Jhilik Das

Indian Institute of Science

Trainee Professional

Development Award (TPDA)

Graduate Student

Familiarity or recognition: what makes readers discriminate upright letters better?

The John I. Simpson Fund

J6

Theme H: Cognition

Ana Belen de Landeta

Kavli Institute for Systems

Neuroscience, Norwegian University of Science and Technology (NTNU).

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Relevance of entorhinal cortex input to CA1 neuronal activity and behavioral performance in olfactory and visuospatial associative memory

The John I. Simpson Fund

J7

Theme H: Cognition

Sungje Kim

Seoul National University

Trainee Professional

Development Award (TPDA)

Graduate Student

Sensory and working memory representations are separated in low-dimensional state space of the human early visual cortex

The John I. Simpson Fund

J30

Theme H: Cognition

Charles Micou

Department of Engineering,

University of Cambridge

Trainee Professional

Development Award (TPDA)

Graduate Student

Control of spatial navigation by an optical hippocampal brain-machine interface induces rapid reconfiguration of cognitive maps

The John I. Simpson Fund

K3

Theme H: Cognition

Fernanda Morales-Calva

Rice University

Trainee Professional

Development Award (TPDA)

Graduate Student

Cross-Cultural Differences in Emotion Perception and Memory Specificity

The John I. Simpson Fund

K6

Theme H: Cognition

Zuzanna Osiecka

Rutgers University–Newark

Trainee Professional

Development Award (TPDA)

Graduate Student

Distinct recovery patterns of words and pseudowords from left-hemisphere stroke as revealed by geodesic clustering of functional connectivity

The John I. Simpson Fund

K11

Theme H: Cognition

Karla Margarita Padilla Olvera

Universidad de Chile

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Neural correlates of Mental Imagery

During Decision Deliberation:

EEG and Eye-Tracking Analysis

The John I. Simpson Fund

K14

Theme H: Cognition

Aasrita Tulluri

Loyola University Chicago

Trainee Professional

Development Award (TPDA)

Undergraduate Student

Fear Engrams in the Dorsal Dentate

Gyrus During Fear Learning and

Fear Generalization: Implications
for Post-Traumatic Stress Disorder

The John I. Simpson Fund

L5

Theme I: Techniques

Alex Busch

Western University

Trainee Professional

Development Award (TPDA)

Graduate Student

A mathematical language for spike

patterns in large-scale recordings

from Utah arrays and Neuropixels

The John I. Simpson Fund

L24

Theme I: Techniques

Anal Kumar

National Centre for Biological

Sciences, Bangalore

Trainee Professional

Development Award (TPDA)

Graduate Student

Decoding the mechanisms

behind a commonly ignored

electrophysiological feature – the

Depolarization Baseline Offset

The John I. Simpson Fund

L33

Theme I: Techniques

Yucheng (Jacky) Tian

University of Michigan

Trainee Professional

Development Award (TPDA)

Graduate Student

Development of Bionic Exoskeleton

Control via the Muscle Cuff-

Regenerative Peripheral Nerve

Interface (MC-RPNI) in a Rat Model

The John I. Simpson Fund

M13



Theme A: Development

Changuk Chung
University of California San Diego

*Trainee Professional
Development Award (TPDA)*

Postdoctoral Fellow

Cell-type-resolved mosaicism
reveals clonal dynamics of
the human forebrain

Society for Neuroscience

A7

Theme A: Development

Justin Koesterich
Rutgers University

*Trainee Professional
Development Award (TPDA)*

Graduate Student

Network analysis of enhancer-
promoter interactions highlights
cell-type specific mechanisms of
transcriptional regulation variation

Society for Neuroscience

A28

Theme A: Development

Charmaine Natasha Nyakonda
**Neuroscience Institute,
University of Cape Town**

*Trainee Professional
Development Award (TPDA)*

Graduate Student

White matter microstructural
changes in 6-year-old children
who are HIV-exposed uninfected
in a South African birth cohort - A
Diffusion Tensor Imaging Study

Society for Neuroscience

A40

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

Xhoela Bame
Dartmouth College

*Trainee Professional
Development Award (TPDA)*

Graduate Student

Mitochondrial network reorganization
and transient expansion during
oligodendrocyte generation

Society for Neuroscience

A74

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

Eugene Berezovski
Uniformed Services University

*Trainee Professional
Development Award (TPDA)*

Graduate Student

Store Operated Calcium Entry
in iPSC-derived Astrocytes

Society for Neuroscience

A76

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

ANKAN BISWAS

Indian Institute of Science

Trainee Professional

Development Award (TPDA)

Graduate Student

Enhanced stimulus-induced
and stimulus-free gamma in
open-eye meditators

Society for Neuroscience

A77

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

Caitlyn Cody

Northeastern University

Trainee Professional

Development Award (TPDA)

Graduate Student

Revealing activity signatures of
early life adversity in the basolateral
amygdala driving behavior

Society for Neuroscience

B7

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

Annabelle Flores Bonilla

University of Massachusetts Amherst

Trainee Professional

Development Award (TPDA)

Graduate Student

A history of adolescent drinking
increases myelination of axons
within the corticotropin releasing
factor-enriched subregion of the
central amygdala in adult mice

Society for Neuroscience

B17

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

Costanza Lo Cascio

Dana-Farber Cancer Institute

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

The Spatio-Temporal Landscape
of Synaptic Diversity Across
Pediatric Brain Tumors

Society for Neuroscience

B30

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

Summer Paulson

Uniformed Services University
of the Health Sciences

Trainee Professional

Development Award (TPDA)

Graduate Student

Determining actin cytoskeleton's
role in iC3b-mediated
synaptic pruning in mice

Society for Neuroscience

B47

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

Shweta Shrotri

Indian Institute of Science

Education and Research Pune

Trainee Professional

Development Award (TPDA)

Graduate Student

Astrocytes modulate operating point
of long-term plasticity induction
in hippocampal synapses

Society for Neuroscience

B57

Theme B: Neural Excitability, Synapses, and Glia

Clara Xi Wang

University of Pennsylvania

Trainee Professional

Development Award (TPDA)

Undergraduate Student

Dysregulation of inhibitory-serotonergic pathways in the dorsal raphe-prefrontal cortex circuit in an animal model of Dravet syndrome

Society for Neuroscience

B66

Theme C: Neurodegenerative Disorders and Injury

Juliet Akkaoui

Herbert Wertheim College

of Medicine, Florida

International University

Trainee Professional

Development Award (TPDA)

Graduate Student

IQCK, a novel Alzheimer's disease risk gene, significantly reduces postsynaptic density protein 95 in the mouse brain

Society for Neuroscience

B76

Theme C: Neurodegenerative Disorders and Injury

Chia Hsin Cheng

Boston University School of Medicine

Trainee Professional

Development Award (TPDA)

Graduate Student

Increased blood-brain barrier (BBB) permeability and white matter structural damage detected in vivo using non-contrast MRI in the hippocampus of young APOE4 mice

Society for Neuroscience

B94

Theme C: Neurodegenerative Disorders and Injury

Ka Hang Karen Chung

The University of Queensland

Trainee Professional

Development Award (TPDA)

Graduate Student

Gut-bacteria can control the ultra-structure, pathogenicity and self-replication of amyloid-plaques in Alzheimer's disease

Society for Neuroscience

B98

Theme C: Neurodegenerative Disorders and Injury

Roberto de Freitas

University of Pittsburgh

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Characterization of motor improvements enabled by cervical epidural spinal cord stimulation in individuals affected by chronic hemiparesis after stroke

Society for Neuroscience

B107

Theme C: Neurodegenerative Disorders and Injury

Anne Huntemer-Silveira

University of Minnesota

Trainee Professional

Development Award (TPDA)

Graduate Student

Generation of 3D printed spinal neural progenitor cell scaffolds for spinal cord injury

Society for Neuroscience

B137

Theme C: Neurodegenerative Disorders and Injury

Laura Kondrataviciute

University of Toronto

Trainee Professional

Development Award (TPDA)

Graduate Student

A53T alpha-synuclein overexpression rat model of Parkinson's disease: behaviour and electrophysiology phenotyping

Society for Neuroscience

C14

Theme C: Neurodegenerative Disorders and Injury

Pauline Michel-Flutot

Thomas Jefferson University

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Pten inhibition promotes robust growth of bulbospinal respiratory axons and partial recovery of diaphragm function in a chronic model of cervical contusion spinal cord injury

Society for Neuroscience

C30

Theme C: Neurodegenerative Disorders and Injury

Paulina Michor

University of Warwick

Trainee Professional

Development Award (TPDA)

Graduate Student

Measuring purine salvage for hypoxic-ischemic brain tissue metabolic support using a newly developed liquid chromatography-mass spectrometry method.

Society for Neuroscience

C31

Theme C: Neurodegenerative Disorders and Injury

Tayna Rody Souza Ferreira

Federal University of Rio de Janeiro (UFRJ)

Trainee Professional

Development Award (TPDA)

Graduate Student

Investigating the role of exercise linked-irisin and extracellular vesicles in Alzheimer's disease

Society for Neuroscience

C62

Theme C: Neurodegenerative Disorders and Injury

Sandeep Sathyanandan Nair

Indian Institute of technology Madras

Trainee Professional

Development Award (TPDA)

Graduate Student

Modeling the exploratory dynamics of the Indirect Pathway in the Basal Ganglia using a network of chaotic attractors

Society for Neuroscience

C68

Theme C: Neurodegenerative Disorders and Injury

Yuhan Sun

University of California, Los Angeles

Trainee Professional

Development Award (TPDA)

Undergraduate Student

The Functional Role of microRNAs in the Pathogenesis of Alpha-Synuclein and Tau Protein in Alzheimer's Disease

Society for Neuroscience

C78

Theme C: Neurodegenerative Disorders and Injury

Isabella Triana

University of California, Davis

Trainee Professional

Development Award (TPDA)

Undergraduate Student

Acute Organophosphate Intoxication in Juvenile Rats Results in the Development of Spontaneous Recurrent Seizures and Altered Cognition

Society for Neuroscience

C88

Theme C: Neurodegenerative Disorders and Injury

Antonia Wehn

Department of Neurosurgery,

LMU Munich University

Hospital, Munich, Germany

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Characterization of microthrombi-mediated blood-brain-barrier dysfunction following traumatic brain injury

Society for Neuroscience

C94

Theme C: Neurodegenerative Disorders and Injury

Silin Wu

The University of Texas Health

Science Center at Houston

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Elucidating the Role of miR-335-3p and ATP1A2 in Cerebral Edema Following Subarachnoid Hemorrhage: Insights from In Vivo and In Vitro Models

Society for Neuroscience

C96

Theme D: Sensory Systems

Ambra Ferrari

CIMEC, University of Trento, Italy

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Audiotactile encoding of music in the human brain

Society for Neuroscience

C107

Theme D: Sensory Systems

Jordan Gregory

University of Pittsburgh

Trainee Professional

Development Award (TPDA)

Graduate Student

Immature olfactory sensory neurons provide complementary odor information

Society for Neuroscience

C112

Theme D: Sensory Systems

Dianna Hidalgo

Harvard Medical School

Trainee Professional

Development Award (TPDA)

Graduate Student

Inter-areal interactions in visual cortex in the presence or absence of a visual stimulus

Society for Neuroscience

C114

Theme D: Sensory Systems

Ya-Yu Hu

The University of Texas at Dallas

Trainee Professional

Development Award (TPDA)

Graduate Student

The role of HPA axis and melanocortin signaling in repeated stress-induced migraine-like behaviors in mice.

Society for Neuroscience

C117

Theme D: Sensory Systems

Bengisu Solgun

Hacettepe University

Trainee Professional

Development Award (TPDA)

Graduate Student

Does spreading depression rewire cortical pain networks?

Society for Neuroscience

C144

Theme D: Sensory Systems

Hari Srinivasan

Vanderbilt U

Trainee Professional

Development Award (TPDA)

Graduate Student

Navigating the Near: VR Investigations of Peripersonal Space in Autism

Society for Neuroscience

C146

Theme D: Sensory Systems

Daniel Taub

Boston Children's Hospital

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Distinct Populations of Neurons in the Secondary Somatosensory Cortex Drive Discrete Somatosensory Behaviors to Noxious Stimuli.

Society for Neuroscience

C148

Theme E: Motor Systems

Mehrnaz Asadi

University of California Irvine

Trainee Professional

Development Award (TPDA)

Graduate Student

Capturing Temporal Dynamics in Human Basal Ganglia Using Low-Dimensional Dynamic Computational Networks

Society for Neuroscience

C154

Theme E: Motor Systems

Reagan Bullins

University of North
Carolina at Chapel Hill

*Trainee Professional
Development Award (TPDA)*

Graduate Student

The effect of behavioral state
on motor cortex optogenetic
stimulation outcomes

Society for Neuroscience

C158

Theme E: Motor Systems

Henrique de Oliveira Amaral
University of Alabama at Birmingham

*Trainee Professional
Development Award (TPDA)*

Graduate Student

Single-cell transcriptomic analysis
of genetic and phenotypic
dystonia mouse models

Society for Neuroscience

D3

Theme E: Motor Systems

Namrata Dhungana
California State University, East Bay

*Trainee Professional
Development Award (TPDA)*

Graduate Student

Mommy Knows Best: Genetic
and Circuit Basis of Female
Drosophila Decision-Making

Society for Neuroscience

D4

Theme E: Motor Systems

Anna Korol

West Virginia University

*Trainee Professional
Development Award (TPDA)*

Graduate Student

Comparing the effectiveness of
synchronous and asynchronous
neuromuscular electrical stimulation
in controlling human arm movement

Society for Neuroscience

D13

Theme E: Motor Systems

Marianna Rizzo
University of Parma

*Trainee Professional
Development Award (TPDA)*

Postdoctoral Fellow

Quantitative and qualitative
analysis of the callosal connectivity
in the macaque brain.

Society for Neuroscience

D25

Theme E: Motor Systems

Hailey Welch
University of Texas at Dallas

*Trainee Professional
Development Award (TPDA)*

Graduate Student

Comparing the effects of right
and left vagus nerve stimulation
on motor performance

Society for Neuroscience

D39

Theme F: Integrative Physiology and Behavior

Meenakshi Asokan

Princeton University

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Hormone-mediated reorganization of cortical dynamics during female social choice

Society for Neuroscience

D48

Theme F: Integrative Physiology and Behavior

Owura-Serebour Berko

NIDA

Trainee Professional

Development Award (TPDA)

Undergraduate Student

Brain-wide activation patterns of persistent discriminative stimulus-controlled cocaine seeking in rats

Society for Neuroscience

D54

Theme F: Integrative Physiology and Behavior

Richard Kim

Virginia Commonwealth University

Trainee Professional

Development Award (TPDA)

Graduate Student

Social recognition requires TRIM28-mediated transcriptional regulation in mouse prefrontal cortex

Society for Neuroscience

E28

Theme F: Integrative Physiology and Behavior

Anna McMillen

Flinders University

Trainee Professional

Development Award (TPDA)

Graduate Student

Investigating the role of dopamine in the process of forgetting in *C. elegans*

Society for Neuroscience

F4

Theme F: Integrative Physiology and Behavior

Amanda Namchuk

CAMH

Trainee Professional

Development Award (TPDA)

Graduate Student

Examining sex-specific activation of immature neurons during chronic stress-induced negative cognitive bias

Society for Neuroscience

F12

Theme F: Integrative Physiology and Behavior

Marco Pagliusi Jr.

University of São Paulo

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Involvement of the projections from lateral habenula to RVM in the social defeat stress-induced behavioral impairments

Society for Neuroscience

F18

Theme F: Integrative Physiology and Behavior

Natalie Truby
Virginia Commonwealth University
Trainee Professional Development Award (TPDA)
Graduate Student
A Novel Role for Transcriptional Regulators of Transposable Elements in Social Behaviors
Society for Neuroscience
G6

Theme F: Integrative Physiology and Behavior

Pei Hsuan Wu
University of British Columbia
Trainee Professional Development Award (TPDA)
Graduate Student
The neurobiology of visually-guided ambush behavior in South American horned frogs (*Ceratophrys*)
Society for Neuroscience
G14

Theme G: Motivation and Emotion

Kenneth Amaya
Tufts University School of Medicine
D-SPAN; Trainee Professional Development Award (TPDA)
Postdoctoral Fellow
Basolateral amygdala interneuron-driven oscillatory states engage valence-specific ensembles and distinct downstream circuits
Society for Neuroscience
G18

Theme G: Motivation and Emotion

Connor Brenna
University of Toronto
Trainee Professional Development Award (TPDA)
Graduate Student
Modulation of GABA-A receptors in the antidepressant effect of nitrous oxide
Society for Neuroscience
G23

Theme G: Motivation and Emotion

Megan Greener
University of Nottingham
Trainee Professional Development Award (TPDA)
Graduate Student
Unravelling the role of dopamine and cAMP-regulated phosphoprotein, Mr 32 kDa (DARPP-32) in addiction
Society for Neuroscience
H7

Theme G: Motivation and Emotion

Klaiten Kermoade
University of Minnesota
Trainee Professional Development Award (TPDA)
Graduate Student
CHEMOGENETIC MANIPULATION OF VENTRAL PALLIDAL PROJECTIONS TO THE LATERAL HABENULA ALTERS AVERSION-RESISTANT ALCOHOL CONSUMPTION
Society for Neuroscience
H17

Theme G: Motivation and Emotion

Jinah Lee

The Graduate Center, City
University of New York

*Trainee Professional
Development Award (TPDA)*

Graduate Student

Sex Differences in Serotonin
Signaling in the Bed Nucleus
of the Stria Terminalis

Society for Neuroscience

H22

Theme G: Motivation and Emotion

Ignitius Lim

Louisiana State University

*Trainee Professional
Development Award (TPDA)*

Graduate Student

Neural encoding of valencies
in the BNST-CeA-DRN circuits,
and the implications for stress-
linked behavioral responses.

Society for Neuroscience

H25

Theme G: Motivation and Emotion

Haocheng Ma

New York University

*Trainee Professional
Development Award (TPDA)*

Graduate

Multivariate Pattern Analysis of
Amygdala Predicts Psychopathy
in Incarcerated Females
During an Empathy Task

Society for Neuroscience

H27

Theme G: Motivation and Emotion

Robin Magnard

Johns Hopkins University

*Trainee Professional
Development Award (TPDA)*

Postdoctoral Fellow

Dysregulation of mesolimbic
dopamine signaling negative
reward prediction error and its
impact on behavioral flexibility

Society for Neuroscience

H28

Theme G: Motivation and Emotion

Austin Pothikamjorn

University of Pennsylvania

*Trainee Professional
Development Award (TPDA)*

Undergraduate Student

Unraveling the Role of Interpeduncular
Nucleus GLP-1R Agonism in Fentanyl-
Induced Striatal Dopamine Signaling

Society for Neuroscience

I3

Theme G: Motivation and Emotion

Elora Williams

University of Colorado Boulder

*Trainee Professional
Development Award (TPDA)*

Graduate Student

Midbrain circuitry controls
threat processing and innate
defensive adaptive learning

Society for Neuroscience

I27

Theme H: Cognition

Fahimeh Arab

University of California Riverside

Trainee Professional

Development Award (TPDA)

Graduate Student

A meta-study of whole-brain causal connectivity during decoded neurofeedback

Society for Neuroscience

I31

Theme H: Cognition

Julio Esparza

Instituto Cajal - CSIC

Trainee Professional

Development Award (TPDA)

Graduate Student

Cell-type-specific geometric transformations in the hippocampal spatial code

Society for Neuroscience

J11

Theme H: Cognition

Jing-Jing Li

UC Berkeley

Trainee Professional

Development Award (TPDA)

Graduate Student

An algorithmic account for how humans efficiently learn, transfer, and compose hierarchically structured decision policies

Society for Neuroscience

J35

Theme H: Cognition

Kritika Ramesh

University of Texas Southwestern

Medical Center

Trainee Professional

Development Award (TPDA)

Graduate Student

Roles of mediodorsal thalamus on observational fear-responding activity in anterior cingulate cortex

Society for Neuroscience

K21

Theme H: Cognition

Sanikaa Thakurdesai

University of Maryland

Trainee Professional

Development Award (TPDA)

Postbaccalaureate

Within-subject comparison across neurological lesion cases reveals the functional relevance of the medial temporal lobe in visual short-term memory precision

Society for Neuroscience

L4

Theme H: Cognition

Guochun Yang

University of Iowa

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Dynamics of multi-form task representations during sequence learning

Society for Neuroscience

L12

Theme I: Techniques

Domokos Meszena

Institute of Cognitive Neuroscience
and Psychology, HUN-REN
Research Centre for Natural
Sciences, Budapest, Hungary

*Trainee Professional
Development Award (TPDA)*

Postdoctoral Fellow

Unraveling the individual membrane
current components and local
microcircuit states of CA1 pyramidal
cells using ground-truth recordings

Society for Neuroscience

L36

Theme I: Techniques

Felix Schwock

University of Washington

*Trainee Professional
Development Award (TPDA)*

Graduate Student

Identifying dynamic functional
connectivity biomarkers for
Alzheimer's disease detection using
graph diffusion autoregression

Society for Neuroscience

M8

Theme I: Techniques

Kaylee Taylor

Central Michigan University

*Trainee Professional
Development Award (TPDA)*

Graduate Student

Developing and optimizing
bioluminescent neurotransmitter
sensors and neurotransmitter
dependent neuromodulators

Society for Neuroscience

M12

Theme J: History, Education, and Society

Jacob Liu

University of California, Irvine

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

Undergraduate Student

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

Society for Neuroscience

M24

NANCY RUTLEDGE ZAHNISER TRAINEE
PROFESSIONAL DEVELOPMENT AWARDS

SPONSORED BY
**THE NANCY RUTLEDGE
ZAHNISER FUND**

The Nancy Rutledge Zahniser Fund

Theme B: Neural Excitability, Synapses, and Glia

Brittney Boubil
University of California, Irvine
*Trainee Professional
Development Award (TPDA)*
Postdoctoral Fellow

Hippocampal representation of
a new environment in a rodent
model of temporal lobe epilepsy
The Nancy Rutledge Zahniser Fund

A79

Theme B: Neural Excitability, Synapses, and Glia

Ashley Copenhaver
University of Maryland,
Baltimore County (UMBC)
*Neuroscience Scholars Program
(NSP); Trainee Professional
Development Award (TPDA)*
Graduate Student

Sex-specific mechanisms
underlying long-term potentiation at
hippocampus-nucleus accumbens
medial shell synapses

The Nancy Rutledge Zahniser Fund

B10

Theme B: Neural Excitability, Synapses, and Glia

Annette Fernandez Oropeza
University of New Mexico
*Trainee Professional
Development Award (TPDA)*
Graduate Student

ONE-HOUR ISOLATION STRESS
ALTERS CORTICOLIMBIC MRNA
EXPRESSION OF STRESS, CLOCK,
AND PROINFLAMMATORY
IMMUNE FACTORS IN PAE
FEMALE ADOLESCENT MICE.

The Nancy Rutledge Zahniser Fund

B15

Theme C: Neurodegenerative Disorders and Injury

Rachel Boyd
Johns Hopkins University
School of Medicine
*Trainee Professional
Development Award (TPDA)*
Graduate Student

Protection against motor deficits in
a Parkinson's disease mouse model,
achieved by CRISPR-mediated
deletion of a neuronal α -synuclein
(Snca) intronic enhancer.

The Nancy Rutledge Zahniser Fund

B85

Theme C: Neurodegenerative Disorders and Injury

Yuejiao (Camelia) Zheng
Stony Brook University
*Trainee Professional
Development Award (TPDA)*
Graduate Student

Taste processing in a mouse model
of frontotemporal dementia

The Nancy Rutledge Zahniser Fund

C99

Theme F: Integrative Physiology and Behavior

Yeeun Bae

Virginia Tech

Trainee Professional

Development Award (TPDA)

Graduate Student

RPN13 as a potential sex-specific regulator of proteasome function during fear memory formation

The Nancy Rutledge Zahniser Fund

D50

Theme F: Integrative Physiology and Behavior

Shannon Bennett

Princeton University

Trainee Professional

Development Award (TPDA)

Postbaccalaureate

Effects of pharmacological manipulation of thyroid hormone signaling during development

The Nancy Rutledge Zahniser Fund

D53

Theme F: Integrative Physiology and Behavior

Nadia McLean

Washington State University

Trainee Professional

Development Award (TPDA)

Graduate Student

Selectively targeting cerebellar adaptations during withdrawal reduces alcohol withdrawal severity

The Nancy Rutledge Zahniser Fund

F2

Theme G: Motivation and Emotion

Yorkiris Marmol Contreras

The University of Texas

Medical Branch

Trainee Professional

Development Award (TPDA)

Graduate Student

Operant tasks of emotional reactivity: Force and duration of pressing are sensitive to distinct psychological constructs

The Nancy Rutledge Zahniser Fund

H29

Theme G: Motivation and Emotion

Chiho Sugimoto

Michigan State University

Trainee Professional

Development Award (TPDA)

Graduate Student

Androgen receptor dependent regulation of projection-specific hippocampal neuronal excitability

The Nancy Rutledge Zahniser Fund

I15
