



Early Career Poster Session Trainee Professional Development Award (TPDA) Posters

Saturday, November 15
6:45—8:45 p.m. PST
San Diego Convention Center, Hall E

The Early Career Poster Session features winners of the Trainee Professional Development Award (TPDA). Through the TPDA, the Society for Neuroscience 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.



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

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Richard Gast

Scripps Research

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Computation with heterogeneous neural substrates

American Brain Foundation

Theme B: Neural Excitability, Synapses, and Glia

B32

Alireza Seyyed Mousavi

University of California Irvine

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Synchronous Bursting in the Basal Ganglia-Thalamic Circuit: Evidence of Seizure-Like Dynamics in Human Dystonia

American Brain Foundation

Theme B: Neural Excitability, Synapses, and Glia

C2

Lingxiao Shao

Cornell University

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Psilocybin's lasting action requires pyramidal cell types and 5-HT_{2A} receptors

American Brain Foundation

Theme B: Neural Excitability, Synapses, and Glia

C3

Thalis Asimakopoulos

Johns Hopkins School of Medicine

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Triple pharmacological targeting of Wallerian degeneration pathways preserves sciatic and optic axons in ex vivo models of central and peripheral nerve injury

American Brain Foundation

Theme C: Neural Aging and Degeneration

C23

Ya-Yun Chen

Virginia Tech

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Attentional plasticity and associated neurophysiological changes in locus coeruleus-salience network connectivity between domain-general and unimodal training paradigms

American Brain Foundation

Theme C: Neural Aging and Degeneration

C31

Valeria de Seta

Lausanne University Hospital (CHUV)

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Adaptive DBS controlled by neural gait signatures alleviates locomotor deficits in people with Parkinson's disease

American Brain Foundation

Theme C: Neural Aging and Degeneration

C38

Banafsheh Dolatyar

University of Iowa
Trainee Professional Development Award (TPDA)
Postdoctoral Fellow
Tau Expression is Necessary for Maturation of Human Stem Cell-Derived Neurons

American Brain Foundation
Theme C: Neural Aging and Degeneration
C41

Joy Franco

Harvard University
Trainee Professional Development Award (TPDA)
Postdoctoral Fellow
A genetic dissection of neuronal vulnerability in the cochlea

American Brain Foundation
Theme C: Neural Aging and Degeneration
C43

Yuhua Huang

Gladstone Institutes
Trainee Professional Development Award (TPDA)
Postdoctoral Fellow
Genetic and antibody-mediated enhancements of TREM2 activity ameliorate Alzheimer's disease-related network hyperexcitability and brain dysfunction

American Brain Foundation
Theme C: Neural Aging and Degeneration
C56

Marko Joerg

Johannes Gutenberg University Mainz
Trainee Professional Development Award (TPDA)
Postdoctoral Fellow
Sex-specific angiogenin regulation in alzheimer's disease reveals divergent inflammatory profiles and molecular subtypes in females

American Brain Foundation
Theme C: Neural Aging and Degeneration
C61

Cheuk Ni Kan

Nanyang Technological University
Trainee Professional Development Award (TPDA)
Postdoctoral Fellow
Neural correlates of frailty and their effects on progression to dementia and mortality

American Brain Foundation
Theme C: Neural Aging and Degeneration
C64

Huan Liao

University of Melbourne
Trainee Professional Development Award (TPDA)
Postdoctoral Fellow
Microglia mediate the cognitive benefits of environmental enrichment in wild-type mice and the 5xFAD transgenic mouse model of Alzheimer's disease

American Brain Foundation
Theme C: Neural Aging and Degeneration
D11

Noemi Orsini

National Research Council (Italy)

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

The role of Extracellular vesicles in the spreading of tauopathies

American Brain Foundation

Theme C: Neural Aging and

Degeneration

D27

Joseph Picone

University of California Irvine

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Investigating the interface between epigenetics and metabolism underlying memory formation in the adult and aging brain

American Brain Foundation

Theme C: Neural Aging and

Degeneration

D28

Giulia Puliatti

Universit Cattolica del Sacro Cuore

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Lithiated gold nanoparticles as promising therapy for Alzheimer's disease

American Brain Foundation

Theme C: Neural Aging and

Degeneration

D31

Gwooon Son

Mayo Clinic

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Spatially resolved molecular signatures of selective tau vulnerability in the human master circadian clock in Alzheimer's disease

American Brain Foundation

Theme C: Neural Aging and

Degeneration

D40

Jun Tanimura

Emory National Primate

Research Center

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Projection- and region-specific firing alterations in the motor cortex of parkinsonian macaques

American Brain Foundation

Theme C: Neural Aging and

Degeneration

D44

Bhupesh Vaidya

Baylor College of Medicine

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Examining the effects of GLP-1 receptor agonists in Parkinson's disease reveals functional benefits and reduction in neuroinflammation

American Brain Foundation

Theme C: Neural Aging and

Degeneration

D45

Kofi Agyeman

University of Southern California
Trainee Professional
Development Award (TPDA)
Postdoctoral Fellow

Revealing effects of responsive neurostimulation and epilepsy-foci resection in the human brain using functional ultrasound imaging of interictal activity

American Brain Foundation
Theme D: Neuroimmunity, Neurovasculature, and Neural Injury
D53

Brijesh Singh Chauhan

Penn State Hershey
College of Medicine
Trainee Professional
Development Award (TPDA)
Postdoctoral Fellow

A novel Drosophila model of dementia based on C9orf72-associated G4C2 hexanucleotide repeat expression in mushroom body neurons identifies Dally-like protein as a disease modifier

American Brain Foundation
Theme D: Neuroimmunity, Neurovasculature, and Neural Injury
D59

Brent Young

Stanford University
Trainee Professional
Development Award (TPDA)
Postdoctoral Fellow

Vision improvement without neuroprotection in a mouse model of NF1

American Brain Foundation
Theme D: Neuroimmunity, Neurovasculature, and Neural Injury
E41

Priscilla Ambrosi

Oregon Health & Science University
Trainee Professional
Development Award (TPDA)
Postdoctoral Fellow

In vivo dynamics of dopaminergic circuits in the mouse olfactory bulb

American Brain Foundation
Theme E: Sensory Systems
E46

Ki-Soo Jeong

Cleveland Clinic Lerner
Research Institute
Trainee Professional
Development Award (TPDA)
Postdoctoral Fellow

Time-resolved and optogenetically-induced behavioral model of corneal pain in transgenic mice

American Brain Foundation
Theme E: Sensory Systems
F14

Elora Midavaine

University of California, San Francisco
Trainee Professional
Development Award (TPDA)
Postdoctoral Fellow

Meningeal regulatory T cells gate nociception through an endogenous opioid circuit

American Brain Foundation
Theme E: Sensory Systems
G11

Fenfen Qin

**The University of Alabama
at Birmingham**

*Trainee Professional
Development Award (TPDA)*
Postdoctoral Fellow

Tiam1-mediated synaptic plasticity
in NAc D2-MSNs as a brain memory
mechanism for neuropathic pain

American Brain Foundation
Theme E: Sensory Systems
H2

Indie Garwood

University of Pennsylvania
*Trainee Professional
Development Award (TPDA)*
Postdoctoral Fellow

Neural population dynamics in
posterior parietal cortex coordinate
visuomotor behavior

American Brain Foundation
Theme F: Motor Systems
J4

Pankaj Pandey

St. Jude Children's Research Hospital
*Trainee Professional
Development Award (TPDA)*
Postdoctoral Fellow

Neurophysiological correlates of sleep
and memory in long-term pediatric
cancer survivors

American Brain Foundation
Theme F: Motor Systems
K3

Rabab Rangwala

University of California San Francisco
*Trainee Professional
Development Award (TPDA)*
Postdoctoral Fellow

Enhanced Pitch Centering in Individuals
with Laryngeal Dystonia

American Brain Foundation
Theme F: Motor Systems
K4

Goretti Espana Irla

Northeastern University
*Trainee Professional
Development Award (TPDA)*
Postdoctoral Fellow

Menopausal Status and Hormone
Therapy Influence Brain Volume in
Females with Traumatic Brain Injury

American Brain Foundation
**Theme G: Integrative Physiology
and Behavior**
M14

Yongxiang Li

Baylor College of Medicine
*Trainee Professional
Development Award (TPDA)*
Postdoctoral Fellow

Experience-dependent Trpc5 Expression
in MPOA Esr1 Neurons Governs
Parental Behavior in Male mice

American Brain Foundation
**Theme G: Integrative Physiology
and Behavior**
O1

Suifang Mao

the University of California,
San Francisco

*Trainee Professional
Development Award (TPDA)*
Postdoctoral Fellow

Mir-34/449s regulate choroid plexus
ciliogenesis to gate cerebrospinal
fluid (csf) in and out

American Brain Foundation
**Theme G: Integrative Physiology
and Behavior**
O3

Yury Lages

Université Grenoble Alpes
(INSERM U1216)

*Trainee Professional
Development Award (TPDA)*
Postdoctoral Fellow

miR-10a-5p Modulates Impulsive Choice
in Rats: Insights into the Role of PI3K
and the AKT/MTOR Pathway

American Brain Foundation
Theme H: Motivation and Emotion
T16

Valeria Robleto Montealegre

University of Minnesota

*Trainee Professional
Development Award (TPDA)*
Postdoctoral Fellow

Missed by G protein Heterotrimer
Dissociation Assays, Neurotensin
Receptor 1 Activates GαS to elevate
cellular cAMP levels

American Brain Foundation
Theme H: Motivation and Emotion
W8

Sabina Sroкова

University of Arizona

*Trainee Professional
Development Award (TPDA)*
Postdoctoral Fellow

Ambulation improves memory for
rotated scenes

American Brain Foundation
Theme H: Motivation and Emotion
X11

Qisheng Wang

University of Alabama at Birmingham

*Trainee Professional
Development Award (TPDA)*
Postdoctoral Fellow

Tiam1-mediated synaptic plasticity in
the NAc for opioid addiction

American Brain Foundation
Theme H: Motivation and Emotion
Y12

Stacey Gould

University of Cambridge

*Trainee Professional
Development Award (TPDA)*
Postdoctoral Fellow

Chemogenetic activation of
orbitofrontal cortex impairs action-
outcome understanding in marmoset
model of OCD: Remediation by mGluR2
positive allosteric modulator

American Brain Foundation
Theme I: Cognition
AA14

Zhe Zhao

Max Planck Florida Institute for Neuroscience, Jupiter

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Direct interoceptive input to the insular cortex shapes learned feeding behavior

American Brain Foundation

Theme I: Cognition

FF12

Hakjoo Kim

McLean Hospital,

Harvard Medical School

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Correlation between TMS-evoked potentials (TEPs) and mental health outcomes

American Brain Foundation

Theme J: Techniques

GG13

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Cure in Mind. Cure in Sight.

Cristal Ahmed

East Tennessee State University

Trainee Professional

Development Award (TPDA)

Graduate Student

Adolescent Nicotine Exposure Enhances Alcohol Use and Withdrawal in a Heritable Rat Model of Psychosis

BrightFocus Foundation

Theme A: Development

A1

Likhit Akotkar

**Poona College of Pharmacy,
Bharati Vidyapeeth Deemed
to be University Pune**

Trainee Professional

Development Award (TPDA)

Graduate Student

Boldine Attenuates Chronic Unpredictable Stress-Induced Depression-Like Behavior via Modulation of Neuroinflammation and 5-HT_{3A} Receptor in Rats

BrightFocus Foundation

Theme A: Development

A2

Samantha Harker

Arizona State University

Trainee Professional

Development Award (TPDA)

Graduate Student

Alzheimer's disease genetic risk dosage in autistic individuals

BrightFocus Foundation

Theme A: Development

A27

Karina Meyer-Acosta

University of Texas at San Antonio

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

APOE4 impacts cortical neurodevelopment and alters network formation in human brain organoids

BrightFocus Foundation

Theme A: Development

A44

Manuela Velez

Arizona State University

Trainee Professional

Development Award (TPDA)

Graduate Student

Age-related differences in behavioral and brain predictors of parkinsonism in autistic adults

BrightFocus Foundation

Theme A: Development

A60

Sally Horton

The Francis Crick Institution

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Genetic causes of epilepsy and therapeutic targets for CDKL5 Deficiency Disorder: Exploring CDKL5-mediated phosphorylation in synaptic formation, function, and plasticity

BrightFocus Foundation

Theme B: Neural Excitability, Synapses, and Glia

B35

Paul Lie

Texas Tech University Health Sciences Center

Trainee Professional

Development Award (TPDA)

Graduate Student

The Retinoic Acid Hypothesis in Alzheimer's Disease: Transcriptomic Profiling Reveals Cell Clusters in the Dentate Gyrus Implicated in Regulation of Excitation/Inhibition Balance

BrightFocus Foundation

Theme B: Neural Excitability, Synapses, and Glia

B43

Bronwyn Riley

The University of Auckland

Trainee Professional

Development Award (TPDA)

Graduate Student

Distinct electrophysiological properties and dopaminergic modulation of medium spiny neurons across divisions of the tail striatum and in comparison to the dorsolateral striatum

BrightFocus Foundation

Theme B: Neural Excitability, Synapses, and Glia

B54

Krystal Santiago Colon

University of Michigan

Neuroscience Scholars Program

(NSP); Trainee Professional

Development Award (TPDA)

Graduate Student

What Makes a "High-risk" Scn1a+/- Mouse? Linking Seizure Burden, Respiratory Physiology, and Brainstem Networks to Understand SUDEP Risk in Dravet Syndrome

BrightFocus Foundation

Theme B: Neural Excitability, Synapses, and Glia

B59

Prince Kumar Singh

The Hebrew University of Jerusalem

Trainee Professional

Development Award (TPDA)

Graduate Student

Activity dependent antioxidant gene therapy for epilepsy

BrightFocus Foundation

Theme B: Neural Excitability, Synapses, and Glia

C5

Deborah Villafranca-Baughman

Stanford University

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Compartmentalized camp signaling in optic nerve head astrocytes modulates neurodegeneration in glaucoma

BrightFocus Foundation

Theme B: Neural Excitability, Synapses, and Glia

C9

Aurélien Badina

University of Geneva

Trainee Professional

Development Award (TPDA)

Post-baccalaureate

Spatial transcriptomics analysis of glial activation dynamics throughout the progression of Alzheimer's disease

BrightFocus Foundation

Theme C: Neural Aging and Degeneration

C24

Pei-Yun Chuang

Baylor College of Medicine

Trainee Professional

Development Award (TPDA)

Graduate Student

Ablation of Bach1 improves memory and reduces pathology in human amyloid precursor protein transgenic mice

BrightFocus Foundation

Theme C: Neural Aging and Degeneration

C33

Rachel Doser

Colorado State University

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Mitochondria-derived double-stranded RNA may contribute to neuroinflammation in brain aging and Alzheimer's disease

BrightFocus Foundation

Theme C: Neural Aging and Degeneration

C42

Nellie Kwang

University of California, Irvine

Trainee Professional

Development Award (TPDA)

Graduate Student

Bridging the gap between mouse and human APOE with a next-generation model of Alzheimer's disease

BrightFocus Foundation

Theme C: Neural Aging and Degeneration

D8

Neus Rabaneda Lombarte

Harvard Medical School

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Examination of Twin Astrocytes in the Hippocampus Along the Normal Aging to Severe Alzheimer's Disease Continuum

BrightFocus Foundation

Theme C: Neural Aging and Degeneration

D32

Frank Raven

University of Michigan
Trainee Professional
Development Award (TPDA)
Postdoctoral Fellow

The night watch: how midlife sleep guards neural networks underlying memory in Alzheimer's

BrightFocus Foundation
Theme C: Neural Aging and Degeneration
D33

Isis So

University of Western Ontario
Trainee Professional
Development Award (TPDA)
Graduate Student

Trajectories of neurodevelopmental and neurodegenerative outcomes in genetic frontotemporal degeneration

BrightFocus Foundation
Theme C: Neural Aging and Degeneration
D38

Sheeny Vo

The Ohio State University
Trainee Professional
Development Award (TPDA)
Graduate Student

Ectodermal-neural cortex 1 interacts with tau's microtubule-binding domain and promotes its autophagic clearance

BrightFocus Foundation
Theme C: Neural Aging and Degeneration
D47

Annetta Yuwono

University of Pittsburgh
Trainee Professional
Development Award (TPDA)
Undergraduate Student

The role of the amyloid precursor protein (APP) on tau pathogenesis in Alzheimer's Disease (AD)

BrightFocus Foundation
Theme C: Neural Aging and Degeneration
D51

Jason Bae

Johns Hopkins University
Trainee Professional
Development Award (TPDA)
Undergraduate Student

Investigating the role of NOGAR1 (NMDAR-Oxygen & Glucose-Associated Regulator 1) phosphorylation in inflammation during ischemic preconditioning

BrightFocus Foundation
Theme D: Neuroimmunity, Neurovasculature, and Neural Injury
D55

Erika Cabrera Ranaldi

University of Miami Miller School of Medicine
Trainee Professional
Development Award (TPDA)
Graduate Student

Targeting Gasdermin-D improves secondary injury mechanisms and pro-inflammatory signaling post-traumatic brain injury

BrightFocus Foundation
Theme D: Neuroimmunity, Neurovasculature, and Neural Injury
D56

Whitney Simon

Mayo Clinic Graduate School of
Biomedical Sciences

Trainee Professional

Development Award (TPDA)

Graduate Student

Immunomodulatory and pro-regenerative effects of therapeutic PAR1 inhibition in experimental autoimmune encephalomyelitis

BrightFocus Foundation

**Theme D: Neuroimmunity,
Neurovasculature, and Neural Injury
E30**

Bhadrapriya Sivakumar

University of Saskatchewan

Trainee Professional

Development Award (TPDA)

Graduate Student

Boosting peripheral nerve repair with mesencephalic astrocyte-derived neurotrophic factor (MANF) secreting Schwann cells

BrightFocus Foundation

**Theme D: Neuroimmunity,
Neurovasculature, and Neural Injury
E31**

Rodney Williams

Johns Hopkins University

Trainee Professional

Development Award (TPDA)

Graduate Student

Neurotropic alphaviruses induce PARP-1 dependent mechanisms of motor neuron dysfunction and cell death

BrightFocus Foundation

**Theme D: Neuroimmunity,
Neurovasculature, and Neural Injury
E37**

Ryosuke Yokosawa

Virginia Tech

Trainee Professional

Development Award (TPDA)

Graduate Student

High-rate mechanical insult alters oligodendrocyte precursor cell proliferation- and differentiation-related gene and protein expressions

BrightFocus Foundation

**Theme D: Neuroimmunity,
Neurovasculature, and Neural Injury
E39**

Emmanuel Acquah

Gwangju Institute of Science
and Technology

Trainee Professional

Development Award (TPDA)

Graduate Student

Igfbp1 in drg nociceptors drives neuropathic pain and neuroimmune crosstalk via igf1r-perk signaling

BrightFocus Foundation

**Theme E: Sensory Systems
E43**

Youssef Faragalla

Stanford University

Trainee Professional

Development Award (TPDA)

Graduate Student

The contribution of eye movements to retinal and cortical variability in the mouse

BrightFocus Foundation

**Theme E: Sensory Systems
F6**

Antonio Manuel Lozano Ortega

Miguel Hernandez University

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Human-in-the-loop optimisation for efficient intracortical microstimulation temporal patterns in visual cortex

BrightFocus Foundation

Theme E: Sensory Systems

G5

Briana Bernstein

Georgetown University

Trainee Professional

Development Award (TPDA)

Graduate Student

The superior colliculus strongly excites cholinergic and glutamatergic neurons in the pedunculopontine nucleus

BrightFocus Foundation

Theme F: Motor Systems

H16

Daniela Coutiño

Universidad Nacional Autónoma de México (UNAM)

Trainee Professional

Development Award (TPDA)

Graduate Student

Detection of white matter degeneration of the visual pathway via diffusion-weighted MRI

BrightFocus Foundation

Theme F: Motor Systems

I7

Stefan Lemke

University of North Carolina -

Chapel Hill

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Selective coupling-decoupling prepares motor network for precise motor action

BrightFocus Foundation

Theme F: Motor Systems

J13

Lindsey Russ

Georgetown University

Trainee Professional

Development Award (TPDA)

Undergraduate Student

Cholinergic neurons in the pedunculopontine nucleus receive local glutamatergic input

BrightFocus Foundation

Theme F: Motor Systems

K5

Joseph Gogola

University of Chicago

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Beyond male enhancements: a synaptic mechanism for the evolution of sexually dimorphic singing

BrightFocus Foundation

Theme G: Integrative Physiology and Behavior

N5

Grant Mannino

Stanford University

Trainee Professional

Development Award (TPDA)

Graduate Student

Sleep-based biomarkers enable early detection of traumatic brain injury in mice

BrightFocus Foundation

Theme G: Integrative Physiology and Behavior
O2

Brandy Routh

University of Texas at Austin

Trainee Professional

Development Award (TPDA)

Graduate Student

Sex-specific circadian dysregulation of synaptic rhythms in a 3xTg-AD mouse model of Alzheimer's disease

BrightFocus Foundation

Theme G: Integrative Physiology and Behavior
P8

Arvie Rodriguez Abiero

The University of Sydney

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Positive experience shifts the fear circuit away from the basolateral amygdala

BrightFocus Foundation

Theme H: Motivation and Emotion
Q16

Denise Romero

University of Florida

FUN; Trainee Professional

Development Award (TPDA)

Undergraduate Student

ApoE4 genotype in a rat model mimics aging and Alzheimer's disease-like patterns of executive function and decision making

BrightFocus Foundation

Theme I: Cognition
DD7

Alexis Stutzman Lewis

Columbia University

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Interrogating the Role for Extracellular Vesicles in Intergenerational Inheritance of Olfactory Fear Conditioning

BrightFocus Foundation

Theme I: Cognition
DD14

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Alexandria Anding

University of Nebraska Medical Center

Neuroscience Scholars Program

(NSP); Trainee Professional

Development Award (TPDA)

Graduate Student

Investigating the role of astrocytes in deficient sleep in Fragile X syndrome mouse model

Burroughs Wellcome Fund

Theme A: Development
A3

Rebecca Littlehale

Agnes Scott College
Trainee Professional
Development Award (TPDA)
Undergraduate Student

Sex-dependent alterations in endosomal trafficking proteins in a mouse model of Autism

Burroughs Wellcome Fund
Theme A: Development
A39

Danni Wang

National Institute on Drug Abuse
Trainee Professional
Development Award (TPDA)
Postdoctoral Fellow

Delayed Maturation of White Matter Tracts during Preadolescence Links to Lower Cognitive Performance and Higher Transdiagnostic Psychopathology

Burroughs Wellcome Fund
Theme A: Development
B2

Ryan Alexander

University of California, San Francisco
Trainee Professional
Development Award (TPDA)
Postdoctoral Fellow

Role for Rem2 in dopaminergic regulation of transmitter release

Burroughs Wellcome Fund
Theme B: Neural Excitability, Synapses, and Glia
B11

Susana Itriago Freites

Univeristy of Puerto Rico,
Rio Piedras Campus
Trainee Professional
Development Award (TPDA)
Undergraduate Student

Establishing a fast-track screening method for rufinamide derivatives using Drosophila melanogaster to identify potential antiepileptic drugs in genetically at-risk populations

Burroughs Wellcome Fund
Theme B: Neural Excitability, Synapses, and Glia
B37

Sarah McCallum

Cedars Sinai Medical Center
Trainee Professional
Development Award (TPDA)
Postdoctoral Fellow

Lesion-remote astrocytes govern microglia-mediated white matter repair

Burroughs Wellcome Fund
Theme B: Neural Excitability, Synapses, and Glia
B44

Kevin Zhang

Vanderbilt University
Trainee Professional
Development Award (TPDA)
Graduate Student

Spatiotemporal regulation of asynchronous neurotransmission

Burroughs Wellcome Fund
Theme B: Neural Excitability, Synapses, and Glia
C16

Ryan Anderson

University of Wisconsin
School of Veterinary Medicine
*Trainee Professional
Development Award (TPDA)*
Graduate Student

A naturally occurring canine model of peripheral neuropathy: genetic basis, transcriptomic profiling, and in vitro modeling through direct reprogramming

Burroughs Wellcome Fund
Theme C: Neural Aging and
Degeneration
C20

Katherine Brown

Harvard Medical School
*Trainee Professional
Development Award (TPDA)*
Graduate Student

Neurons accumulate disease-specific somatic genomic changes across tau pathologic states in Alzheimer's disease

Burroughs Wellcome Fund
Theme C: Neural Aging and
Degeneration
C27

Salvatore Caradonna

Case Western Reserve University
*Trainee Professional
Development Award (TPDA)*
Graduate Student

Cereblon homeostasis is perturbed by traumatic brain injury and critical for mitochondrial dynamics

Burroughs Wellcome Fund
Theme C: Neural Aging and
Degeneration
C29

Roger Garcia

Texas A&M University
College of Medicine
*Trainee Professional
Development Award (TPDA)*
Graduate Student

strogen-dependent endoplasmic reticulum-exit site upregulation protects against dopaminergic neuron loss in a mouse model of Parkinson's Disease

Burroughs Wellcome Fund
Theme C: Neural Aging and
Degeneration
C46

Rizaldi Fadli

University of Miami
*Trainee Professional
Development Award (TPDA)*
Graduate Student

Non-invasive brain-controlled spinal stimulation restores locomotor function and corticospinal plasticity after incomplete spinal cord injury

Burroughs Wellcome Fund
Theme D: Neuroimmunity,
Neurovasculature, and Neural Injury
E1

Karen Malacon

Stanford University
*Neuroscience Scholars Program (NSP);
Summer Program in Neuroscience,
Excellence and Success (SPINES);
Trainee Professional Development
Award (TPDA)*
Graduate Student

Early life influenza infection results in multicellular neural dysregulation and disrupted myelin development

Burroughs Wellcome Fund
Theme D: Neuroimmunity,
Neurovasculature, and Neural Injury
E18

Andrea Thompson

University of Kentucky

Trainee Professional

Development Award (TPDA)

Graduate Student

Edaravone and glibenclamide mitigate hippocampal brain damage associated with insulin-induced severe hypoglycemia

Burroughs Wellcome Fund

Theme D: Neuroimmunity, Neurovasculature, and Neural Injury
E34

Elisa Damo

New York University

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Inhibition of Neuropilin-1 and Nerve Growth Factor interaction as a non-opioid strategy for pain modulation

Burroughs Wellcome Fund

Theme E: Sensory Systems
F1

Isabel Fernandez

University of Maryland, College Park

Trainee Professional

Development Award (TPDA)

Graduate Student

Functional mapping of neurons in primary visual cortex using computational barcodes

Burroughs Wellcome Fund

Theme E: Sensory Systems
F8

Kaitlyn Fouke

Duke University

Trainee Professional

Development Award (TPDA)

Graduate Student

Dissecting neural circuits underlying visuomotor transformations in larval zebrafish

Burroughs Wellcome Fund

Theme E: Sensory Systems
F9

Ignacio Montoya

Georgia Institute of Technology

Trainee Professional

Development Award (TPDA)

Graduate Student

Transcutaneous Spinal Neuromodulation Combined with Task-Specific Training Restores Sensorimotor and Autonomic Function After 12 Years of Clinically Complete SCI

Burroughs Wellcome Fund

Theme E: Sensory Systems
G12

Elizaveta Okorokova

University of California, Davis

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Decoding face and hand gestures from intracortical activity for emotional expression

Burroughs Wellcome Fund

Theme E: Sensory Systems
H1

Maitreyee Wairagkar

University of California, Davis

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

A voice synthesis neuroprosthesis with prosody decoding

Burroughs Wellcome Fund

Theme F: Motor Systems

L3

Seonghyun Yoon

Stanford University

Trainee Professional

Development Award (TPDA)

Undergraduate Student

Improving brain-to-text decoding via late-fusion ensembling and test-time augmentation

Burroughs Wellcome Fund

Theme F: Motor Systems

L8

Olivia Reilly

Harvard University

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Plasma oxytocin levels in the Russian farm foxes

Burroughs Wellcome Fund

Theme G: Integrative Physiology and Behavior

P4

Rachele Rimondini

National Institutes of Health

Trainee Professional

Development Award (TPDA)

Post-baccalaureate

Abstinence from repeated cocaine exposure strengthens prefrontal cortex regulation over striatal dopamine in mice

Burroughs Wellcome Fund

Theme G: Integrative Physiology and Behavior

P7

Cory White

Emory University

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Dietary stressors and sex exacerbate the impact of antiretroviral prophylaxis use on the brain metabolome

Burroughs Wellcome Fund

Theme G: Integrative Physiology and Behavior

Q8

Brooke Bender

University of North Carolina at Chapel Hill

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Stress-coping behavior during predator odor exposure is associated with differences in reliance on habitual behavior and motivation for sucrose and alcohol in rats

Burroughs Wellcome Fund

Theme H: Motivation and Emotion

R11

Clementine Blaschke

Icahn School of Medicine
at Mount Sinai

Trainee Professional

Development Award (TPDA)

Undergraduate Student

Chronic cocaine exposure alters the balance of sex-specific approach/avoidance decision-making

Burroughs Wellcome Fund

**Theme H: Motivation and Emotion
R12**

Suzannah De Almeida

Icahn School of Medicine
at Mount Sinai

Trainee Professional

Development Award (TPDA)

Graduate Student

Cross-ancestral gene-target prioritization for opioid use disorder

Burroughs Wellcome Fund

**Theme H: Motivation and Emotion
S6**

Hannah Elam

Vanderbilt University

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Characterizing the impact of cocaine on spatial patterns of striatal dopamine release

Burroughs Wellcome Fund

**Theme H: Motivation and Emotion
S10**

Ryan Jafri

Rice University

Trainee Professional

Development Award (TPDA)

Undergraduate Student

Differences between white and gray matter spectral content in stereo-electroencephalography

Burroughs Wellcome Fund

**Theme H: Motivation and Emotion
T10**

Zilu Ma

National Institutes of Health

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Role of frontostriatal circuits in relapse to opioid seeking after voluntary abstinence

Burroughs Wellcome Fund

**Theme H: Motivation and Emotion
U10**

Fangmiao Sun

University of California, Los Angeles

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Neural substrates of prosocial behaviors

Burroughs Wellcome Fund

**Theme H: Motivation and Emotion
X12**

Benjelene Sutherland

Florida International University

Trainee Professional

Development Award (TPDA)

Graduate Student

Mesocortical and mesolimbic associations with anhedonia and impulsivity: A path to adolescent e-cigarette use

Burroughs Wellcome Fund

**Theme H: Motivation and Emotion
X14**

Nina Baumgartner

University of Alabama at Birmingham
Trainee Professional
Development Award (TPDA)
Postdoctoral Fellow

The rostral lateral septum orchestrates state-dependent inhibition of cued threat memory across the estrous cycle

Burroughs Wellcome Fund
Theme I: Cognition
Z5

Anne Billot

Massachusetts General Hospital
Trainee Professional
Development Award (TPDA)
Postdoctoral Fellow

Side-by-Side Regions in Dorsolateral Prefrontal Cortex Robustly Dissociate Salience and Working Memory

Burroughs Wellcome Fund
Theme I: Cognition
Z6

Elizabeth Castro

State University of New York, Buffalo
Trainee Professional
Development Award (TPDA)
Graduate Student

Including the brainstem in a neuroimaging investigation of sports-related concussion

Burroughs Wellcome Fund
Theme I: Cognition
Z10

Mrugank Dake

New York University
Trainee Professional
Development Award (TPDA)
Graduate Student

Working memory synchronizes oscillations within and across cortical areas

Burroughs Wellcome Fund
Theme I: Cognition
AA1

Anup Das

Columbia University
Trainee Professional
Development Award (TPDA)
Postdoctoral Fellow

Planar, Spiral, and Concentric Traveling Waves Distinguish Cognitive States in Human Memory

Burroughs Wellcome Fund
Theme I: Cognition
AA3

Amelia Johnson

Yale University
Trainee Professional
Development Award (TPDA)
Post-baccalaureate

Understanding social cooperation in rats with multi-agent reinforcement learning

Burroughs Wellcome Fund
Theme I: Cognition
BB7

Jinsu Lee

**Brigham and Women's Hospital/
Harvard Medical School**
Trainee Professional
Development Award (TPDA)
Postdoctoral Fellow

Phospholipase beta 1 in the dentate gyrus regulates fear memory formation

Burroughs Wellcome Fund
Theme I: Cognition
BB11

Marishka Manoj Mehta

University of Tulsa

Trainee Professional

Development Award (TPDA)

Graduate Student

Neurocomputational mechanisms of cognitive avoidance during prospective planning: effects of interoceptive anxiety induction in affective disorders

Burroughs Wellcome Fund

Theme I: Cognition

CC6

Jonathan Mo

University of California, Davis

Trainee Professional

Development Award (TPDA)

Graduate Student

Neurons Reflect Memory-Based Prediction in Humans

Burroughs Wellcome Fund

Theme I: Cognition

CC8

Tadaaki Nishioka

**Icahn School of Medicine
at Mount Sinai**

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Cholinergic modulation of frontal sensory cortical projections supports post-error attentional adjustment

Burroughs Wellcome Fund

Theme I: Cognition

CC13

Jia Shen

Columbia University

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Premotor cortical circuits support contextual decision-making through flexible stimulus-response mapping

Burroughs Wellcome Fund

Theme I: Cognition

DD11

Vaibhav Thakur

University of Washington

Trainee Professional

Development Award (TPDA)

Graduate Student

Visual Decision-Making in Mice Reveals Evidence Accumulation Strategies Similar to Primates

Burroughs Wellcome Fund

Theme I: Cognition

EE3

Aaron Hendrickson

University of Washington

Trainee Professional

Development Award (TPDA)

Graduate Student

Tissue processing influences brain perineuronal net analyses across species

Burroughs Wellcome Fund

Theme J: Techniques

GG11

McKenna Romac

Emory University

Trainee Professional

Development Award (TPDA)

Graduate Student

Synthetic Serum Markers Enable
Noninvasive Monitoring of Gene
Expression in Primate Brains

Burroughs Wellcome Fund

Theme J: Techniques

HH6

Neda Sardaripour

Vanderbilt University

Trainee Professional

Development Award (TPDA)

Graduate Student

Multiview Integration of Brain
Morphometry, Connectivity, and
Transcriptomics Reveals Shared
Gene-Regional-Network Pathways

Burroughs Wellcome Fund

Theme J: Techniques

HH7

Lily Torp

University of Washington

Trainee Professional

Development Award (TPDA)

Graduate Student

Structure-guided engineering of a
genetically encoded fluorescent opioid
sensor for characterizing fentanyl
pharmacology in vivo

Burroughs Wellcome Fund

Theme J: Techniques

HH10

Sukanya Gakare

Louisiana State University Health

Sciences Center, New Orleans

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Characterizing adolescent
alcohol's effect on corticothalamic
neurotransmission in a Latrophilin-3
mouse model of ADHD

Burroughs Wellcome Fund

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

II5

Adele Myers

University of California, Santa Barbara

Trainee Professional

Development Award (TPDA)

Graduate Student

A digital twin of the pregnant brain:
modeling structural brain changes
during human gestation

Burroughs Wellcome Fund

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

II12



Aliya Hashim

Arizona State University

Trainee Professional

Development Award (TPDA)

Undergraduate Student

Cerebellar Perineuronal Net Dysfunction
in Alzheimer's Disease

TCCI

**Theme C: Neural Aging and
Degeneration
C52**

Yuan Zhou

Johns Hopkins University

Trainee Professional

Development Award (TPDA)

Graduate Student

Impact of Huntington's Disease
pathology on meningeal bridging
veins and immune cells

TCCI

**Theme C: Neural Aging and
Degeneration
D52**

Oluwamuyiwa Ayanshina

Louisiana State University

Trainee Professional

Development Award (TPDA)

Graduate Student

Contralateral corticothalamic projections
from cortical layer 6b

TCCI

**Theme E: Sensory Systems
E48**

Zachary Boogaart

University of Miami

Trainee Professional

Development Award (TPDA)

Graduate Student

Brain Controlled Epidural Spinal Cord
Stimulation Modulates Descending
Motor Control After Spinal Cord Injury

TCCI

**Theme F: Motor Systems
I1**

Arantzazu San Agustín

University of Chicago

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

The interface of semantic and episodic
memory in eye movements and
hippocampal intracranial electrophysiology

TCCI

**Theme I: Cognition
DD10**

Biyong Peng

Beijing Normal University

Trainee Professional

Development Award (TPDA)

Graduate Student

Decoupling MCI-Specific Brain and
Cognitive Pathologies via Deep Learning

TCCI

**Theme J: Techniques
HH5**



Ohad Lewin-Epstein

Massachusetts General Hospital
and Harvard Medical School

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Competition-induced microbiome
dysbiosis may promote addictions

Developmental Studies

Hybridoma Bank (DSHB)

**Theme H: Motivation and Emotion
U5**

Laurel Seemiller

Pennsylvania State University

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Adolescent alcohol consumption
disrupts adult prefrontal somatostatin
functioning and aversion-resistant
alcohol preference in mice

Developmental Studies

Hybridoma Bank (DSHB)

**Theme H: Motivation and Emotion
X2**

Praachi Tiwari

Johns Hopkins School of Medicine

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Exploring the therapeutic potential of
psilocybin for Obsessive-Compulsive
Disorder - A translational approach

Developmental Studies

Hybridoma Bank (DSHB)

**Theme H: Motivation and Emotion
Y1**

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Kiersten Bell

The University of Texas at Austin

Trainee Professional

Development Award (TPDA)

Graduate Student

Dim light at night during adolescence
in mice induces persistent changes in
anxiety-related physiology and behaviors

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Theme A: Development

A6

Ya-Han Chang

National Taiwan University

Trainee Professional

Development Award (TPDA)

Graduate Student

Analysis of Repetitive Behaviors,
Social Interaction, and Empathy in
Dlgap2 Mutant Mice, a Mouse Model
of Autism Spectrum Disorder

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Theme A: Development

A13

Qi Cheng

Yale Univeristy

Trainee Professional

Development Award (TPDA)

Undergraduate Student

Converging Mechanisms in

Lissencephaly Spectrum Disorders

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Theme A: Development

A15

Hayley Dingsdale

University of Virginia

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Cellular context matters: Use of a genetic mosaic mouse model to identify autonomous and non-autonomous effects of cytokinesis gene mutations in the developing cortex

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Theme A: Development

A19

Sarah Gagnon

University of Pennsylvania

Trainee Professional

Development Award (TPDA)

Graduate Student

Toll-7 acts via distinct signaling axes to promote midline crossing in *Drosophila*

Friends of SfN Fund

Theme A: Development

A23

Stephanie Gutierrez

Universidad Andr s Bello

Trainee Professional

Development Award (TPDA)

Graduate Student

R-spondin 2 signaling regulates proliferation of NSCs in the adult mouse hippocampus

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Theme A: Development

A26

Javed Iqbal

Stony Brook University

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Translational control of prelimbic neuron ensembles during systems consolidation of pavlovian threat memories

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Theme A: Development

A31

Zarion Marshall

University of Chicago

Trainee Professional

Development Award (TPDA)

Graduate Student

Birth order-dependent modulation of Collier (EBF/Olf1/UNC-3 homolog) activity drives acquisition of cell identity in a *Drosophila* lineage

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Theme A: Development

A41

Federica Mosti

Duke University

Trainee Professional

Development Award (TPDA)

Graduate Student

Species-specific chromatin architecture and neurogenesis mediated by a human enhancer

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Theme A: Development

A45

Erica Nebet

Stony Brook University

Trainee Professional

Development Award (TPDA)

Graduate Student

NMDA receptors in neurodevelopment and seizure pathogenesis

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Theme A: Development

A46

Megan Perez

University of Pittsburgh

Trainee Professional

Development Award (TPDA)

Undergraduate Student

Patterns of Differential Splicing and Associated Putative Effects on Protein-Protein Interactions in the Striatum in Psychosis

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Theme A: Development

A50

Ellie Pritchard

University of Massachusetts Boston

Trainee Professional

Development Award (TPDA)

Graduate Student

Sex specific androgen neuroprotection in the developing hippocampus

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Theme A: Development

A52

Ebenezer Quainoo

Augusta University

Trainee Professional

Development Award (TPDA)

Graduate Student

Rbpms is necessary for retinal ganglion cell development and function

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Theme A: Development

A53

Aleya Shedd

University of Texas,

Southwestern Medical Center

Trainee Professional

Development Award (TPDA)

Graduate Student

A cell type specific switch in GluN2C/D containing NMDA receptors drives cortical circuit hyperexcitability in a Fragile X Syndrome mouse model

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Theme A: Development

A57

Mahdi Aliomrani

North Carolina State University

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Progenitor Competition and Fate Bias in the EGFR-Deficient Mouse Forebrain

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Theme B: Neural Excitability,

Synapses, and Glia

B12

Bridget Boyle

Thomas Jefferson University

Trainee Professional

Development Award (TPDA)

Graduate Student

Astrocytic Chrdl1 reduces hippocampal neuronal death via GluA2-AMPA stabilization under ischemic conditions

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Theme B: Neural Excitability,

Synapses, and Glia

B17

Elizabeth Chung

University of California San Francisco

Trainee Professional

Development Award (TPDA)

Graduate Student

Psychedelic control of neuroimmune interactions governing fear

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Theme B: Neural Excitability,

Synapses, and Glia

B22

Sofia Del Fiol

Whitman College

Trainee Professional

Development Award (TPDA)

Undergraduate Student

Uncovering the mechanism by which Cannabidiol (CBD) decreases seizure burden in a mouse model of viral induced epilepsy

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Theme B: Neural Excitability,

Synapses, and Glia

B28

Monica Goncalves Garcia

University of New Mexico

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Histamine H3 Receptor Inverse Agonist Affects Frequency-Specific Network Responses Following Moderate Prenatal Alcohol Exposure

Friends of SfN Fund

Theme B: Neural Excitability,

Synapses, and Glia

B33

Pratiksha Kaur

Stony Brook University

Trainee Professional

Development Award (TPDA)

Undergraduate Student

Neuronal membrane expression of potassium channel Kv4.2 and sodium channel SCN1beta in the amygdala and hippocampus following auditory fear conditioning

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Theme B: Neural Excitability,

Synapses, and Glia

B39

Jessica Reinhardt

University of Florida

Trainee Professional

Development Award (TPDA)

Graduate Student

Prefrontal cortical cholinergic signaling in models of α -synucleinopathy

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Theme B: Neural Excitability, Synapses, and Glia
B53

Aseel Saadi

The Hebrew University of Jerusalem

Trainee Professional

Development Award (TPDA)

Undergraduate Student

Neuron-targeted Nrf2 gene therapy confers long-term antioxidant and neuroprotective effects in refractory epilepsy

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Theme B: Neural Excitability, Synapses, and Glia
B56

Aurosman Pappus Sahu

Pennsylvania State University

College of Medicine

Trainee Professional

Development Award (TPDA)

Graduate Student

Tumor-associated macrophages protect glioblastoma cells from ferroptotic stress in a sex-biased manner by inducing ferritin-bound iron release from cancer cells via exosomes

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Theme B: Neural Excitability, Synapses, and Glia
B57

Nishant Singh

Indian Institute of Science

Education and Research, Pune

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Short-term plasticity at DG-CA3 synapses enables phase precession, pattern separation, and place cell remapping

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Theme B: Neural Excitability, Synapses, and Glia
C4

Preston Withers

Brigham Young University

FUN; Trainee Professional

Development Award (TPDA)

Undergraduate Student

Spreading depolarizations in an ex vivo zebrafish model are preserved despite multi-channel inhibition: a comparative study with rodent slices

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Theme B: Neural Excitability, Synapses, and Glia
C13

Elizabeth Brewer

Columbia University

Trainee Professional

Development Award (TPDA)

Graduate Student

TDP43's role in synaptic metabolism in the adult mouse brain

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Theme C: Neural Aging and Degeneration
C26

Linh Chu

Icahn School of Medicine
at Mount Sinai

Trainee Professional

Development Award (TPDA)

Graduate Student

A Metacell-Integrated Network
Framework Reveals Cell-Type-Specific
Drivers of Parkinson's Disease

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**Theme C: Neural Aging and
Degeneration**

C32

Nicholas Constantino

University of Kentucky

Trainee Professional

Development Award (TPDA)

Graduate Student

Divergence of sleep phenotypes in
Alzheimer's disease: NREM alterations
emerge with amyloid-beta but increased
REM vulnerability occurs with age

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**Theme C: Neural Aging and
Degeneration**

C34

Viet Hoang Dinh

Loma Linda University,
School of Medicine

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Omega-3 fatty acid mitigate neuropathic
pain by modulating ferroptosis, glutamate,
and lipid remodeling

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**Theme C: Neural Aging and
Degeneration**

C40

Veronica Hernandez

University of California, San Diego

Trainee Professional

Development Award (TPDA)

Undergraduate Student

Rsi vs. nodd1: a head-to-head
comparison of multicompartment
diffusion mri models

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**Theme C: Neural Aging and
Degeneration**

C54

Katie James

Emory University

Trainee Professional

Development Award (TPDA)

Graduate Student

Increasing SCN8A activity exacerbates
multiple phenotypes in an amyloid beta
model of Alzheimer's disease

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**Theme C: Neural Aging and
Degeneration**

C59

Yanru Ji

Purdue University

Trainee Professional

Development Award (TPDA)

Graduate Student

Develop a Human Tauopathy Model
Using Human-Mouse Neuronal Chimeras

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**Theme C: Neural Aging and
Degeneration**

C60

Nicholas Kim

University of Southern California
Trainee Professional
Development Award (TPDA)
Undergraduate Student

Genome-wide clustering of allelic variants identifies distinct regional patterns of brain aging

Friends of SfN Fund
Theme C: Neural Aging and Degeneration
D6

Heloise Leblanc

Boston University
Trainee Professional
Development Award (TPDA)
Graduate Student

Aging alters neuronal-astrocyte dynamics across various behavioral states

Friends of SfN Fund
Theme C: Neural Aging and Degeneration
D10

Nicholas Manfred

Stanford University
Trainee Professional
Development Award (TPDA)
Graduate Student

Converging mechanisms of lysosomal dysfunction and compensation in murine models of Batten disease

Friends of SfN Fund
Theme C: Neural Aging and Degeneration
D14

Ayati Mishra

University of Southern California
Trainee Professional
Development Award (TPDA)
Undergraduate Student

Genome Wide Association Study Of Local Brain Age Gap Reveals Cellular Pathways Involved In Cortical Senescence

Friends of SfN Fund
Theme C: Neural Aging and Degeneration
D20

Dylan Murphy

Syracuse University
Trainee Professional
Development Award (TPDA)
Post-baccalaureate

Restoration of lysosomal acidification via acidic nanoparticles rescues neuronal viability in tauopathies

Friends of SfN Fund
Theme C: Neural Aging and Degeneration
D23

Emily Nickerson

Tufts University
Trainee Professional
Development Award (TPDA)
Graduate Student

Expressing humanized tau isoforms in the prelimbic cortex alters the synaptic connectivity of cortical neurons

Friends of SfN Fund
Theme C: Neural Aging and Degeneration
D24

Aoife O'Connell

University of Galway

Trainee Professional

Development Award (TPDA)

Graduate Student

Treatment of β -amyloid-induced increased tonic conductance and cognitive deficits by an $\alpha 5$ GABA inverse agonist

Friends of SfN Fund

Theme C: Neural Aging and Degeneration

D25

Paulina Saavedra Sieyes

Universidad de Concepción

Trainee Professional

Development Award (TPDA)

Graduate Student

Impaired excitability and neurotransmission properties in a cultured accumbal cell model derived from the Alzheimer's disease APP/PS1 mice

Friends of SfN Fund

Theme C: Neural Aging and Degeneration

D37

Kelsi Watkins

Arizona State University

Trainee Professional

Development Award (TPDA)

Graduate Student

Cellular and molecular signatures of sex-specific aging in the primate brain

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Theme C: Neural Aging and Degeneration

D48

Jerry Carr

University of Arizona

Trainee Professional

Development Award (TPDA)

Graduate Student

Terpenes from Cannabis sativa relieve neuropathic pain in mice via the Adenosine A2a Receptor expressed in Pax2+ spinal inhibitory interneurons

Friends of SfN Fund

Theme D: Neuroimmunity, Neurovasculature, and Neural Injury
D57

Batoul Darwish

Duke University

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Sting signaling in sensory neurons aids in host defense against Listeria monocytogenes

Friends of SfN Fund

Theme D: Neuroimmunity, Neurovasculature, and Neural Injury
D62

Alexandra de Coucy

University of Lausanne (UniL)

Trainee Professional

Development Award (TPDA)

Graduate Student

Defining the requirements for biological repair and restoration of neurological function across severity, age, and time following spinal cord injury

Friends of SfN Fund

Theme D: Neuroimmunity, Neurovasculature, and Neural Injury
D63

Victoria Fan

Yale School of Medicine

Trainee Professional

Development Award (TPDA)

Graduate Student

Experience-dependent adaptation and orientation tuning plasticity across cortical layers in mouse visual cortex

Friends of SfN Fund

**Theme D: Neuroimmunity,
Neurovasculature, and Neural Injury**
E2

Ilona Golynger

University of Pennsylvania

Trainee Professional

Development Award (TPDA)

Graduate Student

Harnessing lipid nanoparticles for post-stroke recovery: a novel therapeutic paradigm

Friends of SfN Fund

**Theme D: Neuroimmunity,
Neurovasculature, and Neural Injury**
E5

Hernan Guillen-Burgos

Pontificia Universidad Javeriana

Trainee Professional

Development Award (TPDA)

Graduate Student

Major Depressive Disorder in Long COVID and Exposure to Pro-inflammatory Cytokines During Infection by SARS-CoV-2

Friends of SfN Fund

**Theme D: Neuroimmunity,
Neurovasculature, and Neural Injury**
E7

Lavanya Gupta

University of California, Berkeley

Trainee Professional

Development Award (TPDA)

Undergraduate Student

Unraveling Arctic Ground Squirrel Metabolic Resilience: Transcriptomic and Mitochondrial Insights into ATP5G1-Mediated Neuroprotection in Stroke

Friends of SfN Fund

**Theme D: Neuroimmunity,
Neurovasculature, and Neural Injury**
E8

Colin Kelly

Virginia Tech

Trainee Professional

Development Award (TPDA)

Graduate Student

Traumatic brain injury induces T cell mediated neuroinflammation contributing to dopaminergic neurodegeneration and Lewy body pathology

Friends of SfN Fund

**Theme D: Neuroimmunity,
Neurovasculature, and Neural Injury**
E11

Kelena Klippel

University of Florida

Trainee Professional

Development Award (TPDA)

Graduate Student

Therapeutic Modulation of Neuroinflammation, Anxiety, and Cognitive Deficits Following Mild Traumatic Brain Injury: A Multimodal Approach

Friends of SfN Fund

**Theme D: Neuroimmunity,
Neurovasculature, and Neural Injury**
E13

Christopher Knapp

**Rowan-Virtua School
of Osteopathic Medicine**
*Trainee Professional
Development Award (TPDA)*
Postdoctoral Fellow

Effects of repetitive mild traumatic brain injury and methylphenidate treatment on cognitive flexibility in rodents

Friends of SfN Fund
**Theme D: Neuroimmunity,
Neurovasculature, and Neural Injury**
E14

Ziming Luo

Stanford University
*Trainee Professional
Development Award (TPDA)*
Postdoctoral Fellow

Enhancing Optic Nerve Head Axon Guidance of Transplanted Human Stem Cell-Derived Retinal Ganglion Cells

Friends of SfN Fund
**Theme D: Neuroimmunity,
Neurovasculature, and Neural Injury**
E17

Kellen McDonald

**Creighton University School
of Medicine**
*Trainee Professional
Development Award (TPDA)*
Graduate Student

Elevated inflammation in people with HIV is associated with aberrant neural oscillations serving selective attention

Friends of SfN Fund
**Theme D: Neuroimmunity,
Neurovasculature, and Neural Injury**
E19

Gloria Morales

Mayo Clinic
*Trainee Professional
Development Award (TPDA)*
Graduate Student

Role of neuronal ISG15 in neurodegeneration

Friends of SfN Fund
**Theme D: Neuroimmunity,
Neurovasculature, and Neural Injury**
E20

Sarah Rivero

**University of Mississippi
Medical Center**
*Trainee Professional
Development Award (TPDA)*
Graduate Student

Foot Shock Stress paired with CHIMERA-induced TBI suppresses exploratory behavior

Friends of SfN Fund
**Theme D: Neuroimmunity,
Neurovasculature, and Neural Injury**
E25

Kevin Silva Muller

University of Campinas
*Trainee Professional
Development Award (TPDA)*
Graduate Student

Motoneuron in Dire Straits: GLT1 upregulation following spinal ventral root axotomy improves neuronal survival by reducing glial reactions and muscle atrophy

Friends of SfN Fund
**Theme D: Neuroimmunity,
Neurovasculature, and Neural Injury**
E29

Ilayda Top

Brown University

Trainee Professional

Development Award (TPDA)

Graduate Student

Investigating dynamic changes to cell viability and morphology after ischemia-reperfusion injury in 3D cortical microtissues

Friends of SfN Fund

Theme D: Neuroimmunity, Neurovasculature, and Neural Injury
E36

Jingying Wu

Shanghai Sixth People's Hospital

Affiliated to Shanghai Jiao Tong

University School of Medicine

Trainee Professional

Development Award (TPDA)

Graduate Student

Hematopoietic stem cell transplantation halts the progression of CSF1R-related disorder in mice and human by microglia replacement

Friends of SfN Fund

Theme D: Neuroimmunity, Neurovasculature, and Neural Injury
E38

Zaki Ellis Alaoui

Stanford University

Trainee Professional

Development Award (TPDA)

Post-baccalaureate

Eye-tracking to correct gaze shifts in a natural virtual reality system for recording mouse visual cortical activity

Friends of SfN Fund

Theme E: Sensory Systems
E44

Ariadna Corredera Asensio

New York University

Trainee Professional

Development Award (TPDA)

Graduate Student

Auditory Processing of Self and Other in Freely Moving Mice Under Perceived Predatory Risk

Friends of SfN Fund

Theme E: Sensory Systems
E57

Holly Crowder

Georgetown University Medical Center

Trainee Professional

Development Award (TPDA)

Post-baccalaureate

Migraine symptoms and visual cortex thickness are significantly reduced following a 1-month low glutamate diet in veterans with Gulf War Illness

Friends of SfN Fund

Theme E: Sensory Systems
E58

Emily Dappen

The University of Iowa

Trainee Professional

Development Award (TPDA)

Graduate Student

Intracranial electrophysiology of cortical responses to speech in delirium

Friends of SfN Fund

Theme E: Sensory Systems
F2

G V S Devakinandan

**Tata Institute of
Fundamental Research**
*Trainee Professional
Development Award (TPDA)*
Graduate Student

A novel endoplasmic reticulum
chaperone plays an essential functional
role in vomeronasal neurons

Friends of SfN Fund
Theme E: Sensory Systems
F4

Marcela Gonzalez-Rubio

University of Pittsburgh
*Neuroscience Scholars Program
(NSP); Trainee Professional
Development Award (TPDA)*
Graduate Student

Split-belt walking adapts the active
perception of symmetric walking
while preserving sensitivity to
inter-leg speed difference

Friends of SfN Fund
Theme E: Sensory Systems
F11

Anna Kolstad

University of Rochester
*Trainee Professional
Development Award (TPDA)*
Graduate Student

Olfactory coding in ventral CA1 region
of the hippocampus

Friends of SfN Fund
Theme E: Sensory Systems
G2

Urusha Maharjan

State University of New York
*Trainee Professional
Development Award (TPDA)*
Post-baccalaureate
ON-pathway visuomotor deficits in
human myopia

Friends of SfN Fund
Theme E: Sensory Systems
G7

Negar Namdar

New Jersey Institute of Technology
*Trainee Professional
Development Award (TPDA)*
Graduate Student

Cortical Signatures of Central
Sensitization: TMS-EEG Responses
to Thermal Pain in Human Primary
Motor Cortex

Friends of SfN Fund
Theme E: Sensory Systems
G15

Andrew Strohman

Virginia Tech
*Trainee Professional
Development Award (TPDA)*
Graduate Student

Investigation of Intensity-Dependent
Behavioral, Neural, And Autonomic
Interactions During Tonic Pain

Friends of SfN Fund
Theme E: Sensory Systems
H9

Carolyn Atkinson

Washington University in St. Louis

Trainee Professional

Development Award (TPDA)

Graduate Student

Towards the clinical translation of a non-invasive brain spine interface utilizing biofeedback-enabled neural adaptation

Friends of SfN Fund

Theme F: Motor Systems

H15

Marjolaine Boulingre

Imperial College London

Trainee Professional

Development Award (TPDA)

Graduate Student

An organotypic model to study biohybrid interfaces ex vivo

Friends of SfN Fund

Theme F: Motor Systems

I2

Brittany Elliott

West Virginia University

Trainee Professional

Development Award (TPDA)

Graduate Student

Serum ghrelin concentrations vary across tumor progression: Implications for hypocretin/orexin neuronal activity and sleep

Friends of SfN Fund

Theme F: Motor Systems

I11

Sonny Jones

University of Utah

Trainee Professional

Development Award (TPDA)

Graduate Student

Predicting Walking Terrains Using Machine Learning and Predictions of Body-Worn Sensor Signals

Friends of SfN Fund

Theme F: Motor Systems

J9

Eva Kalajian

William & Mary

Trainee Professional

Development Award (TPDA)

Graduate Student

Ion channel targets of μ -opioid receptor signaling in the preBötzing Complex

Friends of SfN Fund

Theme F: Motor Systems

J10

Jonah Mudge

Case Western Reserve University

Trainee Professional

Development Award (TPDA)

Graduate Student

Perceived Joint Position and Force Sensation from Proprioceptive Peripheral Nerve Stimulation

Friends of SfN Fund

Theme F: Motor Systems

J16

Jonibek Muhsinov
University of Pennsylvania
Trainee Professional
Development Award (TPDA)
Undergraduate Student

Comprehensive mapping of SST+, TH+, PV+, and ChAT+interneurons across the mouse dorsal striatum

Friends of SfN Fund
Theme F: Motor Systems
K1

Krishna Sargur
University of Pennsylvania
Trainee Professional
Development Award (TPDA)
Graduate Student

Preferential Subspace Identification Extracts High Gamma Driven Latent Spaces That Are Highly Correlated With Movement Speed In Human M1 ECoG Recordings

Friends of SfN Fund
Theme F: Motor Systems
K8

Kaymie Shiozawa
Massachusetts Institute of Technology
Trainee Professional
Development Award (TPDA)
Graduate Student

Foot-ground force quantifies impaired balance control mechanisms post-stroke

Friends of SfN Fund
Theme F: Motor Systems
K11

Rahil Soroushmojdehi
University of California, Irvine
Trainee Professional
Development Award (TPDA)
Graduate Student

Disentangling shared and private neural dynamics with SPIRE: A latent modeling framework for deep brain stimulation

Friends of SfN Fund
Theme F: Motor Systems
K13

Ludovic Spaeth
Albert Einstein College of Medicine
Trainee Professional
Development Award (TPDA)
Postdoctoral Fellow

Locus Coeruleus-dependent modulation of the cerebellum

Friends of SfN Fund
Theme F: Motor Systems
K14

Laura Toni
Scuola Superiore Sant'Anna
Trainee Professional
Development Award (TPDA)
Graduate Student

Reconstructing the functional topography of peripheral nerves for selective neurostimulation

Friends of SfN Fund
Theme F: Motor Systems
L2

Gabriella Wheeler Fox

University of Chicago

Trainee Professional

Development Award (TPDA)

Graduate Student

Learning driven dynamics of cell type specific functional networks in mouse motor skill learning

Friends of SfN Fund

Theme F: Motor Systems

L5

Sami Agus

Augusta University

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Divergent Hypoxia- and Acidosis-Induced Responses in Parenchymal Arterioles of the Supraoptic Nucleus: An Activity-Dependent Neurovascular Mechanism

Friends of SfN Fund

Theme G: Integrative Physiology and Behavior

L11

Asaf Benjamin

Weizmann Institute of Science

Trainee Professional

Development Award (TPDA)

Graduate Student

Prefrontal representations of social information and complex group dynamics

Friends of SfN Fund

Theme G: Integrative Physiology and Behavior

L15

Pin-Chun Chen

University of Oxford

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Cortical signatures of hippocampal ripples in human sleep

Friends of SfN Fund

Theme G: Integrative Physiology and Behavior

M6

Taylor Dorman

Upstate Medical University

Trainee Professional

Development Award (TPDA)

Graduate Student

Maternal stress increases prenatal alcohol sensitivity and alters JAK/STAT activity

Friends of SfN Fund

Theme G: Integrative Physiology and Behavior

M11

Hallie Lazaro

University of Washington

Trainee Professional

Development Award (TPDA)

Graduate Student

Brainwide genetic capture of isoflurane-induced unconsciousness

Friends of SfN Fund

Theme G: Integrative Physiology and Behavior

N14

Brooklynn Merrill

University of Maine
Trainee Professional
Development Award (TPDA)
Graduate Student

Early Life Pain Alters Cellular Phenotypes of the Developing Amygdala and Hypothalamus

Friends of SfN Fund
Theme G: Integrative Physiology and Behavior
O7

Karissa Reyes

University at Buffalo
Trainee Professional
Development Award (TPDA)
Graduate Student

Psilocybin facilitates the effect of punishment on nicotine intake

Friends of SfN Fund
Theme G: Integrative Physiology and Behavior
P6

Minh Tran

Sungkyunkwan University
Trainee Professional
Development Award (TPDA)
Graduate Student

Pathogenic Aggregates Induce MAO-B/NF-κB-Mediated Inflammatory Polarization in Humanized Villus Choroid Plexus-on-a-chip

Friends of SfN Fund
Theme G: Integrative Physiology and Behavior
Q3

Zikai Wang

University of Southern California
Trainee Professional
Development Award (TPDA)
Graduate Student

Transcranial high-resolution functional ultrasound imaging enabled by skull acoustic transparency

Friends of SfN Fund
Theme G: Integrative Physiology and Behavior
Q6

Amber Baldwin

Christopher Newport University
Trainee Professional
Development Award (TPDA)
Undergraduate Student

Effects of Acetylcholine Receptor Antagonism via Dihydro-β-erythroidine on Nicotine Conditioned Place Preference Following Adolescent Nicotine Exposure

Friends of SfN Fund
Theme H: Motivation and Emotion
R8

Julia Alexandra Galiza Soares

Stanford School of Medicine
Trainee Professional
Development Award (TPDA)
Post-baccalaureate

Habenular μ-opioid ensembles contribute to opioid aversion and protracted withdrawal states

Friends of SfN Fund
Theme H: Motivation and Emotion
T1

Nicole Horan

University of Pittsburgh
Trainee Professional
Development Award (TPDA)
Graduate Student

Distinct dorsolateral prefrontal cortex and nucleus accumbens transcriptional signatures associated with phases of opioid use disorder withdrawal and remission

Friends of SfN Fund
Theme H: Motivation and Emotion
T5

Alicia Kao

University of California, Los Angeles
Trainee Professional
Development Award (TPDA)
Graduate Student

Prefrontostriatal terminal dynamics guide effort-based decision making

Friends of SfN Fund
Theme H: Motivation and Emotion
T13

Baeksun Kim

Korea Institute of Science and Technology
Trainee Professional
Development Award (TPDA)
Postdoctoral Fellow

Nucleus accumbens CDKN1A/p21 escalates sugar consumption and oxidative stress in a mouse model of chronic electric shock stress

Friends of SfN Fund
Theme H: Motivation and Emotion
T14

Annalisa Montemarano

Pennsylvania State University
College of Medicine
Trainee Professional
Development Award (TPDA)
Graduate Student

Ventral tegmental area projection neurons differentially encode aspects of fentanyl reward

Friends of SfN Fund
Theme H: Motivation and Emotion
V6

Maanasa Natrajan

Northwestern University
Trainee Professional
Development Award (TPDA)
Graduate Student

Learning general structure from old and new experiences through replay-guided learning

Friends of SfN Fund
Theme H: Motivation and Emotion
V8

Victoria Nudell

Pennsylvania State University
Trainee Professional
Development Award (TPDA)
Graduate Student

Intrinsic excitability of prelimbic somatostatin neurons across hormonal states following binge alcohol consumption

Friends of SfN Fund
Theme H: Motivation and Emotion
V9

Kelsey Person

University of Minnesota

Trainee Professional

Development Award (TPDA)

Graduate Student

Intracellular GPCR ligands change G protein subtype selectivity by restricting transducer access to the receptor core

Friends of SfN Fund

Theme H: Motivation and Emotion

W4

Sara Saavedra

University of Washington

Trainee Professional

Development Award (TPDA)

Graduate Student

Behavioral profiling of sequential opioid-stimulant polysubstance use in a translational rodent model

Friends of SfN Fund

Theme H: Motivation and Emotion

W14

Florian Schoukroun

Washington University

in St. Louis Missouri

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Motor slowness and reduced motivation in obesity - a cross-species investigation with impaired striatal dopamine transmission identified in mice

Friends of SfN Fund

Theme H: Motivation and Emotion

W15

Ruby Setara

Columbia University

Trainee Professional

Development Award (TPDA)

Graduate Student

Brain-wide signatures of alcohol withdrawal using two-timepoint activity labeling

Friends of SfN Fund

Theme H: Motivation and Emotion

X3

Dipti Singh

Indian Institute of Technology Roorkee

Trainee Professional

Development Award (TPDA)

Graduate Student

Examining Directed Forgetting in Emotional Associations

Friends of SfN Fund

Theme H: Motivation and Emotion

X7

Linbin Wang

University of Cambridge

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Close-loop neuromodulation for decision-making under risk and uncertainty

Friends of SfN Fund

Theme H: Motivation and Emotion

Y13

Adel Ardalan

Princeton University

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Composing Representations and Transformation to Enable Flexible and Generalizable Cognition

Friends of SfN Fund

Theme I: Cognition

Z3

Achinoam Blau

The Ruth and Bruce Rappaport research Institute and Faculty of Medicine, The Technion Israel Institute of Technology

Trainee Professional

Development Award (TPDA)

Undergraduate Student

Calcium imaging in the hippocampal formation of freely behaving Japanese quails (*Coturnix Japonica*)

Friends of SfN Fund

Theme I: Cognition

Z7

May Chan

University of California, Santa Barbara

Trainee Professional

Development Award (TPDA)

Graduate Student

Projection-specific interdependence of egocentric boundary coding between retrosplenial and posterior parietal cortices

Friends of SfN Fund

Theme I: Cognition

Z12

Anne Freelin

University of Texas Southwestern Medical Center

Trainee Professional

Development Award (TPDA)

Graduate Student

Investigating human memory signatures ex vivo

Friends of SfN Fund

Theme I: Cognition

AA11

Sy'Keria Garrison

University of North Carolina at Chapel Hill

Neuroscience Scholars Program

(NSP); Trainee Professional

Development Award (TPDA)

Graduate Student

Investigating the impact of perineuronal nets on behavioral flexibility and functional connectivity

Friends of SfN Fund

Theme I: Cognition

AA12

Isabel Gephart

University of Chicago

Trainee Professional

Development Award (TPDA)

Graduate Student

Predicting endocrine state from functional brain organization within and between individuals

Friends of SfN Fund

Theme I: Cognition

AA13

Roman Gutierrez

University of Missouri

Trainee Professional

Development Award (TPDA)

Graduate Student

Distinct electrophysiological patterns associated with forward and backward transitions in episodic memory retrieval

Friends of SfN Fund

Theme I: Cognition

AA15

Chris Hawkins

University of California, Davis

Trainee Professional

Development Award (TPDA)

Graduate Student

Age-related impairments in auditory working memory for tones are driven by a selective impairment in familiarity, not recollection

Friends of SfN Fund

Theme I: Cognition

BB1

Siddhant Iyer

Columbia University

Trainee Professional

Development Award (TPDA)

Graduate Student

Asymmetric influence of reward and punishment on human behavior and network models

Friends of SfN Fund

Theme I: Cognition

BB6

Luka Kazanjian

University of San Diego

Trainee Professional

Development Award (TPDA)

Undergraduate Student

Examining the role of the medial prefrontal cortex and sex-based differences in spatial navigation in rats performing the traveling salesperson problem

Friends of SfN Fund

Theme I: Cognition

BB8

Tae Ho Lim

University of Zurich

Trainee Professional

Development Award (TPDA)

Graduate Student

Synaptic, cellular, and network diversities govern membrane potential dynamics of CA1 pyramidal cells locked to awake hippocampal ripples

Friends of SfN Fund

Theme I: Cognition

BB15

Wing Ning

University of California, Irvine

Trainee Professional

Development Award (TPDA)

Graduate Student

Regional and laminar differences in spatial context versus content coding across the mouse hippocampus, posterior parietal, and primary somatosensory cortices

Friends of SfN Fund

Theme I: Cognition

CC12

Edgar Ocasio Arce

University of Florida

Trainee Professional

Development Award (TPDA)

Post-baccalaureate

Basolateral Amygdala Contributions to Social Decisions in 16p11.2 Duplication Mouse Model

Friends of SfN Fund

Theme I: Cognition

CC14

Maria Sol Ramos

Instituto de Investigación en

Biomedicina de Buenos Aires

(IBioBA)-CONICET-Partner Institute of the Max Planck Society

Trainee Professional

Development Award (TPDA)

Graduate Student

Reorganization of neural codes in the Dentate Gyrus and CA3 during odor-spatial learning

Friends of SfN Fund

Theme I: Cognition

DD6

Olivia Ruge

University of California San Francisco

Trainee Professional

Development Award (TPDA)

Graduate Student

Non-viral transfection techniques for targeting radial astrocytes in vivo

Friends of SfN Fund

Theme I: Cognition

DD9

Claire Sun

University of Rochester

Trainee Professional

Development Award (TPDA)

Graduate Student

Narrative Summarization Reflects Underlying Event Structure in Episodic Memory

Friends of SfN Fund

Theme I: Cognition

DD16

Jiayang Xiao

Cedars-Sinai Medical Center

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Persistent activity in visual axis-tuned neurons during working memory in human ventral temporal cortex and medial temporal lobe

Friends of SfN Fund

Theme I: Cognition

FF2

Fangfei Ye

University of Utah

Trainee Professional

Development Award (TPDA)

Graduate Student

Connectivity profile of Kirrel3+ GABAergic neurons revealed by serial block-face scanning electron microscopy

Friends of SfN Fund

Theme I: Cognition

FF4

Marium Yousuf

University of Arizona

Trainee Professional

Development Award (TPDA)

Graduate Student

Causality in Replay: Detecting Effective Connectivity from Spike Trains

Friends of SfN Fund

Theme I: Cognition

FF5

Zelin Yu

Columbia University

Trainee Professional

Development Award (TPDA)

Graduate Student

Two-state dynamics structure working memory in the human medial temporal lobe

Friends of SfN Fund

Theme I: Cognition

FF6

Lekang Yuan

Princeton University

Trainee Professional

Development Award (TPDA)

Graduate Student

A 1-gram wireless microscope for mesoscopic neural observation during fully unconstrained behavior

Friends of SfN Fund

Theme I: Cognition

FF7

Da Zhang

University of California, San Francisco

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Dissociating physiological ripples and epileptiform discharges with vision transformers

Friends of SfN Fund

Theme I: Cognition

FF11

Ruiying Cheng

University of Massachusetts Lowell

Trainee Professional

Development Award (TPDA)

Graduate Student

Intranasal deferiprone ameliorates behavioral abnormalities in mice with brain iron loading

Friends of SfN Fund

Theme J: Techniques

GG3

Arun Cherkkil

University of Minnesota

Trainee Professional

Development Award (TPDA)

Graduate Student

Cortex-wide cellular resolution imaging in freely locomoting mice

Friends of SfN Fund

Theme J: Techniques

GG4

Anna Corriveau

University of Chicago

Trainee Professional

Development Award (TPDA)

Graduate Student

Engagement strengthens functional attention networks and neural representations of naturalistic stimuli

Friends of SfN Fund

Theme J: Techniques

GG7

Jin Dou

University of Rochester

Trainee Professional

Development Award (TPDA)

Graduate Student

Estimating the Explainable Variance of EEG Responses to Natural Speech

Friends of SfN Fund

Theme J: Techniques

GG9

Francesco Negri

University of Genoa

Trainee Professional

Development Award (TPDA)

Graduate Student

Mapping cortico-subcortical connectivity with high-density probes

Friends of SfN Fund

Theme J: Techniques

HH4

Jessica Zhuo

Harvard University

Trainee Professional

Development Award (TPDA)

Undergraduate Student

Variability in the electric field intensity received in the lateral prefrontal cortex in transcranial magnetic stimulation

Friends of SfN Fund

Theme J: Techniques

HH14

Luisa Demarchi

Fordham University

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

X chromosome dynamics in the adult female brain across the estrous cycle

Friends of SfN Fund

Theme K: History, Education, and Society

II2

Stephanie Rodriguez

The University of Texas at Dallas

Trainee Professional

Development Award (TPDA)

Graduate Student

Effects of valence, arousal, and individual differences in an emotional stroop task: an fMRI study

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Theme K: History, Education, and Society

JJ2

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Kira Düsterwald

University College London

Trainee Professional

Development Award (TPDA)

Graduate Student

Autistic individuals learn to exploit temporary regularities in simple but not complex contexts

Gatsby Charitable Foundation

Theme A: Development

A21

Marwan Ghanem

Scripps Research

Trainee Professional

Development Award (TPDA)

Graduate Student

Micrnas direct purkinje cell development

Gatsby Charitable Foundation

Theme A: Development

A24

Aasta Gandhi

Swiss Federal Technology Institute

of Lausanne, École Polytechnique

Fédérale de Lausanne

Trainee Professional

Development Award (TPDA)

Graduate Student

Restoring hemodynamic stability
with spinal cord stimulation in
Parkinsonian syndromes

Gatsby Charitable Foundation

**Theme C: Neural Aging and
Degeneration**

C45

Justin Geier

Northwestern University Feinberg

School of Medicine

Trainee Professional

Development Award (TPDA)

Graduate Student

Bmp inhibition improves hippocampus-
dependent cognition and cellular
changes in multiple tauopathy models

Gatsby Charitable Foundation

**Theme C: Neural Aging and
Degeneration**

C47

Bindushree Kapu Radhakrishna

Centre for Brain Research

Trainee Professional

Development Award (TPDA)

Graduate Student

Group 1 mGluR stimulation rescues
apoe4-mediated translation defect
in neurons

Gatsby Charitable Foundation

**Theme C: Neural Aging and
Degeneration**

D1

Jade Mehta

Washington University in St. Louis

Trainee Professional

Development Award (TPDA)

Undergraduate Student

Cholinergic levels and hallucinations
in Parkinson disease

Gatsby Charitable Foundation

**Theme C: Neural Aging and
Degeneration**

D18

SoYoung Ahn

Seoul National University

Trainee Professional

Development Award (TPDA)

Graduate Student

Plasma pTau181 tracks cumulative
concussion load and forecasts
prefrontal hyperactivation in active
elite contact-sport athletes

Gatsby Charitable Foundation

**Theme D: Neuroimmunity,
Neurovasculature, and Neural Injury**

D54

Bayron Ian García Ordenes

Universidad Católica del Norte

Trainee Professional

Development Award (TPDA)

Graduate Student

Physical exercise modulates
neuroinflammatory markers gene
expression in a prenatal alcohol
exposure animal model

Gatsby Charitable Foundation

**Theme D: Neuroimmunity,
Neurovasculature, and Neural Injury**
E3

Zerrin Karaaslan

Istanbul University, Aziz Sancar

Institute of Experimental Medicine

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Peripheral Immune Trends Across
Autoimmune Encephalitis Subtypes
Identified by Single-Cell Protein Profiling

Gatsby Charitable Foundation

**Theme D: Neuroimmunity,
Neurovasculature, and Neural Injury**
E10

Anna Sparapani

Medical University of Vienna

Trainee Professional

Development Award (TPDA)

Graduate Student

Multimodal platform combining VR
and TENS for post-stroke subacute
rehabilitation - an RCT proposal

Gatsby Charitable Foundation

**Theme D: Neuroimmunity,
Neurovasculature, and Neural Injury**
E32

Sarah Bonnet

Aix-Marseille University

Trainee Professional

Development Award (TPDA)

Graduate Student

Physical determinants of perceived
vibration intensity: Insights from haptic
feedback at the human wrist

Gatsby Charitable Foundation

Theme E: Sensory Systems
E49

Andrea Cimolato

Medical University of Vienna

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Redefining pain assessment:
combining wearables technologies
and AI for continuous and
multidimensional monitoring

Gatsby Charitable Foundation

Theme E: Sensory Systems
E55

Asshen Dedigama Acharige

University of Manchester

Trainee Professional

Development Award (TPDA)

Graduate Student

Investigating photoreceptor-specific
modulation of amygdala activity as a
mechanism for light-induced effects on
affective state

Gatsby Charitable Foundation

Theme E: Sensory Systems
F3

Po-Ting Bertram Liu

National Taipei University of
Technology, and visiting
Stanford University later
*Trainee Professional
Development Award (TPDA)*
Graduate Student

Naturalistic speech perception
simulators using DNN models

Gatsby Charitable Foundation
Theme E: Sensory Systems
G4

Michela Cattabriga

Chalmers University of Technology
*Trainee Professional
Development Award (TPDA)*
Graduate Student

Single-neuron encoding of corporeal
and observed touch in the human
somatosensory cortex

Gatsby Charitable Foundation
Theme F: Motor Systems
I3

Yannick Bollmann

Universitat Autònoma de Barcelona
*Trainee Professional
Development Award (TPDA)*
Postdoctoral Fellow

Decoding Internal Representations
During Sleep Via Neural Population
Dynamics Across Cortical Regions

Gatsby Charitable Foundation
**Theme G: Integrative Physiology
and Behavior**
M2

Sian Nina Duss

Eidgenössische Technische
Hochschule Zürich
*Trainee Professional
Development Award (TPDA)*
Graduate Student

Stress and noradrenaline trigger distinct
response profiles in hippocampal
neurons and astrocytes

Gatsby Charitable Foundation
**Theme G: Integrative Physiology
and Behavior**
M12

Stacia Konow

Virginia Commonwealth University
*Trainee Professional
Development Award (TPDA)*
Undergraduate Student

Using virtual reality to characterize
the effects of nicotine on drug-place
associations in hippocampal CA1
and mouse behavior

Gatsby Charitable Foundation
**Theme G: Integrative Physiology
and Behavior**
N11

Giulia Mazzini

University of Zurich
*Trainee Professional
Development Award (TPDA)*
Graduate Student

From metabolism to memory: exploring
amylin's role in the hippocampus

Gatsby Charitable Foundation
**Theme G: Integrative Physiology
and Behavior**
O4

Brenna Williams

Columbia University

Trainee Professional

Development Award (TPDA)

Graduate Student

Early Life Adversity Modulates
Methamphetamine-Induced
Place Preference and Extinction:
Implications for Dopamine Dynamics
in the Nucleus Accumbens

Gatsby Charitable Foundation

Theme G: Integrative Physiology

and Behavior

Q10

Noor Arabshahi

George Fox University

Trainee Professional

Development Award (TPDA)

Undergraduate Student

Optogenetic stimulation of DRD1 cells
in the main intercalated nucleus of the
amygdala during extinction

Gatsby Charitable Foundation

Theme H: Motivation and Emotion

R3

Anna Bautista

Emory University

Trainee Professional

Development Award (TPDA)

Graduate Student

Understanding the role of the nucleus
accumbens in distinguishing social
preferences in the colonial spiny mouse

Gatsby Charitable Foundation

Theme H: Motivation and Emotion

R10

Naga Sumedha Nalluru

University of Oxford

Trainee Professional

Development Award (TPDA)

Graduate Student

Neural Mechanisms of Causal Inference

Gatsby Charitable Foundation

Theme H: Motivation and Emotion

V7

Meghan Ramirez

University of Nebraska Medical Center

Trainee Professional

Development Award (TPDA)

Graduate Student

Hippocampal Subfield Volume is
Associated with Relational Memory
Performance in Periadolescent
Development: Findings from the
PRANK study

Gatsby Charitable Foundation

Theme H: Motivation and Emotion

W5

Julia Treadway

Texas A&M University

Trainee Professional

Development Award (TPDA)

Undergraduate Student

Reinforcement schedules reveal a
dissociation between habitual cocaine
seeking and punishment resistance in
male and female rats

Gatsby Charitable Foundation

Theme H: Motivation and Emotion

Y4

Ziyao Zhang

University of Texas at Austin

Trainee Professional

Development Award (TPDA)

Graduate Student

Flexible replanning dissociates internal and external attention for distraction-resilient behaviors in dynamic environments

Gatsby Charitable Foundation

Theme I: Cognition

FF10

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Bethlehem Bekele

Emory University

Trainee Professional

Development Award (TPDA)

Graduate Student

Splicing Dysregulation and Behavioral Deficits in a Novel Neuronal Mouse Model of Myotonic Dystrophy Type 1

Lilly Foundation

Theme A: Development

A5

Akanksha Bhatnagar

University of Pennsylvania

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Splice-switching antisense oligonucleotide therapy in a mouse model of SYNGAP1 haploinsufficiency

Lilly Foundation

Theme A: Development

A7

Ana Gonzalez Ramos

Broad Institute of Massachusetts

Institute of Technology and Harvard

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Elevated voltage-gated sodium channel currents and altered synaptic connectivity in an in vitro model of schizophrenia and bipolar disorder

Lilly Foundation

Theme A: Development

A25

Yi Shen Lee

California State University, East Bay

Trainee Professional

Development Award (TPDA)

Graduate Student

Mommy Knows Best: Genetic and Circuit basis of female Drosophila decision-making

Lilly Foundation

Theme A: Development

A37

Jieyu Zheng

California Institute of Technology

Trainee Professional

Development Award (TPDA)

Graduate Student

Cognition Without Cortex: Rapid Learning, Generalization, and Long-Term Memory in Acortical Mice

Lilly Foundation

Theme A: Development

B9

Diane Bissen

Brandeis University

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Prey capture learning drives critical period-specific plasticity in mouse binocular visual cortex

Lilly Foundation

Theme B: Neural Excitability, Synapses, and Glia

B15

Ana Valeria Castro Romero

Colorado State University

Trainee Professional

Development Award (TPDA)

Graduate Student

Comparative analysis of synaptic dynamics in the ventrolateral and dorsomedial columns of the periaqueductal gray

Lilly Foundation

Theme B: Neural Excitability, Synapses, and Glia

B19

Sultan Khanfar

University of Florida

Trainee Professional

Development Award (TPDA)

Undergraduate Student

Pulmonary Hypertension Disrupts Inhibitory Synapse Integrity and Engages Synapse-Specific Microglial Remodeling in the Paraventricular Nucleus of the Hypothalamus

Lilly Foundation

Theme B: Neural Excitability, Synapses, and Glia

B41

Taylor Petrucci

Medical University of South Carolina

Trainee Professional

Development Award (TPDA)

Graduate Student

Histopathological Characterization of Non-Hydrocephalic Symptomatic Pineal Cysts through Digital Pathology

Lilly Foundation

Theme B: Neural Excitability, Synapses, and Glia

B50

Paul Philipsberg

Icahn School of Medicine at Mount Sinai

Trainee Professional

Development Award (TPDA)

Graduate Student

Medial entorhinal layer 2 stellate cell activity is sufficient to drive type 2 dentate spikes and pathological hypersynchronous events in healthy and epileptic mice

Lilly Foundation

Theme B: Neural Excitability, Synapses, and Glia

B51

Ethan Caiazza

University at Albany

Trainee Professional

Development Award (TPDA)

Undergraduate Student

Neuronal GLT1 mediates the early effects of AB42 on hippocampal activity and episodic memory

Lilly Foundation

Theme C: Neural Aging and Degeneration

C28

Jessica Hain

Imperial College London
Trainee Professional
Development Award (TPDA)
Graduate Student

Default mode network hyperconnectivity
and plasma pTau217 in retired elite
rugby players

Lilly Foundation
**Theme C: Neural Aging and
Degeneration**
C51

Prajakta Joshi

Case Western Reserve University,
Cleveland, Ohio
Trainee Professional
Development Award (TPDA)

Graduate Student
Neurophysiological response and
connectivity changes in the STN with
a month-long exercise intervention

Lilly Foundation
**Theme C: Neural Aging and
Degeneration**
C63

Xiaoxiao Sun

Columbia University
Trainee Professional
Development Award (TPDA)
Graduate Student

Uncovering Lifespan-Consistent Brain
Representations in Cognitive Function
via Task Decoding

Lilly Foundation
**Theme C: Neural Aging and
Degeneration**
D43

Victor Calbiague-Garcia

Institut de la Vision
Trainee Professional
Development Award (TPDA)
Postdoctoral Fellow

Uncovering Amacrine Cells Function
in Retinal Circuits with 2-Photon
Holographic Stimulation

Lilly Foundation
Theme E: Sensory Systems
E51

Jessie Jin

Upstate Medical University,
State University of New York
Trainee Professional
Development Award (TPDA)

Graduate Student
Photoswitch DENAQ restores wild-type
level retinal acuity in the blind retina

Lilly Foundation
Theme E: Sensory Systems
F15

Megan Lipton

Purdue University
Trainee Professional
Development Award (TPDA)
Graduate Student

A mechanism for encoding of multi-limb
proprioception

Lilly Foundation
Theme E: Sensory Systems
G3

Yaning Lu

Washington University in Saint Louis
Trainee Professional
Development Award (TPDA)
Undergraduate Student

Neural representational geometry of border features in macaque area V4

Lilly Foundation
Theme E: Sensory Systems
G6

Alessandro Marin Vargas

École Polytechnique Fédérale de Lausanne
Trainee Professional
Development Award (TPDA)
Graduate Student

Imitation learning of dexterous hand control reveals muscle-level encoding in primate motor and somatosensory cortex

Lilly Foundation
Theme E: Sensory Systems
G8

Nicholas Murphy

McGill University
Trainee Professional
Development Award (TPDA)
Graduate Student

Morphological modification of y cells in the lateral geniculate nucleus following perinatal auditory deprivation

Lilly Foundation
Theme E: Sensory Systems
G14

Zoe Sarafis

Harvard University
Trainee Professional
Development Award (TPDA)
Graduate Student

Structural and biomechanical basis of pacinian vibration tuning

Lilly Foundation
Theme E: Sensory Systems
H5

Nicole Cesca

University of Toronto
Trainee Professional
Development Award (TPDA)
Graduate Student

Gaze behaviour during walking tasks in ambulatory individuals with spinal cord injury/disease

Lilly Foundation
Theme F: Motor Systems
I4

Alexander Craik

Technical University of Munich
Trainee Professional
Development Award (TPDA)
Postdoctoral Fellow

Deep convolutional decoding of complete arm-hand kinematics from intercortical recordings

Lilly Foundation
Theme F: Motor Systems
I8

Hisham Elseweifi

Johns Hopkins University School of Medicine

Trainee Professional

Development Award (TPDA)

Graduate Student

Identifying potent vectors for the neurons of the cerebellum

Lilly Foundation

Theme F: Motor Systems

I12

Mohammad Amin Fakharian

Johns Hopkins University School of Medicine

Trainee Professional

Development Award (TPDA)

Graduate Student

Millisecond precision of spike timing in cerebellar Purkinje cells and interneurons

Lilly Foundation

Theme F: Motor Systems

J1

Archit Gupta

The University of Texas MD Anderson Cancer Center UTHealth Houston Graduate School of Biomedical Sciences

Trainee Professional

Development Award (TPDA)

Graduate Student

Tensor component analysis (TCA) of egestive priming in Aplysia

Lilly Foundation

Theme F: Motor Systems

J7

Taylor Hobbs

University of Pittsburgh

Trainee Professional

Development Award (TPDA)

Graduate Student

Efficacy and longevity of intracortical microstimulation of the human somatosensory cortex

Lilly Foundation

Theme F: Motor Systems

J8

Fernando Santos-Valencia

Duke University

Trainee Professional

Development Award (TPDA)

Graduate Student

Climbing fibers selectively recruit disinhibitory interneurons to enhance dendritic calcium signaling in cerebellar Purkinje cells

Lilly Foundation

Theme F: Motor Systems

K7

Joanna Komorowska-Müller

Okinawa Institute of Science and Technology (OIST)

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Early song learning experiences regulate developmental dynamics of the auditory to motor circuit in zebra finches

Lilly Foundation

Theme G: Integrative Physiology and Behavior

N10

Anna Lally

Boston College

Trainee Professional

Development Award (TPDA)

Graduate Student

Alterations in oxytocin and vasopressin systems in the developing gut-brain axis following prenatal exposure to air pollution and maternal stress: a role for milk

Lilly Foundation

Theme G: Integrative Physiology and Behavior

N13

Nicole Thompson

University College London

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Selective vagus nerve stimulation to target cardiac efferent activity in humans for the treatment of heart disease

Lilly Foundation

Theme G: Integrative Physiology and Behavior

Q2

Katharina Göke

University of Toronto

Trainee Professional

Development Award (TPDA)

Graduate Student

Repetitive transcranial magnetic stimulation (rTMS) for the treatment of MRI-defined vascular depression

Lilly Foundation

Theme H: Motivation and Emotion

T3

Marta Koperska

Wake Forest University School of Medicine

Trainee Professional

Development Award (TPDA)

Graduate Student

Acetate as a mediator of cocaine-related behaviors and gene expression

Lilly Foundation

Theme H: Motivation and Emotion

T15

Saheed Lawal

Stony Brook University

Trainee Professional

Development Award (TPDA)

Graduate Student

Tsc-mtorc1 signaling in prelimbic stress ensemble regulates maladaptive avoidance learning and memory

Lilly Foundation

Theme H: Motivation and Emotion

U1

Hyun-Woo Lee

University of Utah

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

The dorsolateral striatum and medial entorhinal cortex support learning of a complex timing task

Lilly Foundation

Theme H: Motivation and Emotion

U4

Vicki Li

University of Toronto

Trainee Professional

Development Award (TPDA)

Undergraduate Student

Direct thalamic recordings reveal evoked responses are associated with improved visual search performance and parietal alpha desynchronization

Lilly Foundation

Theme H: Motivation and Emotion

U7

Sebastian Malagon Perez

Northwestern University

Trainee Professional

Development Award (TPDA)

Graduate Student

Experience-Dependent Modulation of Aggression is Revealed by Behavioral Modeling

Lilly Foundation

Theme H: Motivation and Emotion

U13

Kaitlyn Dorst

Tufts University

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Network States Across Threat Behavioral Outcomes

Lilly Foundation

Theme I: Cognition

AA7

Gaia Molinaro

University of California, Berkeley

Trainee Professional

Development Award (TPDA)

Graduate Student

Reward function compression in human reinforcement learning

Lilly Foundation

Theme I: Cognition

CC9

Yotaro Sueoka

Johns Hopkins University

Trainee Professional

Development Award (TPDA)

Graduate Student

Recalibration of hippocampal path integration gain without angular head velocity gain recalibration of head direction cells

Lilly Foundation

Theme I: Cognition

DD15

Cyril Akafia

Yale University

Trainee Professional

Development Award (TPDA)

Post-baccalaureate

Functional Encoding Units represent interpretable attractor-like dynamics in neural ensembles

Lilly Foundation

Theme J: Techniques

GG2

The James L. Roberts Fund

Anthony Cuozzo

East Tennessee State University

Trainee Professional

Development Award (TPDA)

Graduate Student

Nicotine vapor conditioned place preference and genomic contributions in a heritable rodent model of dopamine dysregulation

James L. Roberts Fund

Theme A: Development

A17

Selimzhan Chalyshkan

Northwestern University

Trainee Professional

Development Award (TPDA)

Graduate Student

An Ensemble Modeling Approach To Predicting Synaptic Connections And Neural Activity From Pretectal Responses To Optokinetic Stimuli

James L. Roberts Fund

Theme B: Neural Excitability, Synapses, and Glia

B20

Scarlett Cheong

University of Minnesota

Trainee Professional

Development Award (TPDA)

Graduate Student

Identification of Radiologic Predictors for Post-Surgical Recurrence in Chronic Subdural Hematoma using Machine Learning

James L. Roberts Fund

Theme D: Neuroimmunity, Neurovasculature, and Neural Injury
D60

Madison Herrboldt

The University of Utah

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Utilizing receptor-defined glomeruli to investigate the organization of inhibition in the mammalian olfactory bulb

James L. Roberts Fund

Theme E: Sensory Systems
F12

Drew Schreiner

Duke University

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

A synaptic locus of song learning

James L. Roberts Fund

Theme E: Sensory Systems
H6

Alden Shoup

Johns Hopkins University School of Medicine

Trainee Professional

Development Award (TPDA)

Graduate Student

Population coding in the fastigial nucleus of the cerebellum

James L. Roberts Fund

**Theme F: Motor Systems
K12**

Christian Esquilin Rodriguez

Emory University

Trainee Professional

Development Award (TPDA)

Graduate Student

Steroidal mechanisms of group dynamics in spiny mice (*Acomys dimidiatus*)

James L. Roberts Fund

**Theme G: Integrative Physiology and Behavior
M15**

Dhanush Haspula Giridhar

National Institutes of Health

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Receptor-mediated activation of G12/13 signaling in AGRP neurons regulates key metabolic functions

James L. Roberts Fund

**Theme G: Integrative Physiology and Behavior
N7**

Emily Pickup

University of Pennsylvania

Trainee Professional

Development Award (TPDA)

Graduate Student

Prefrontal Cortex Regulation of Pontine Waves

James L. Roberts Fund

**Theme G: Integrative Physiology and Behavior
O15**

Shan Zhong

University of Southern California

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Machine Learning Enhanced Functional Ultrasound Imaging for predicting drug-induced brain activity changes

James L. Roberts Fund

**Theme G: Integrative Physiology and Behavior
Q14**

Davide Folloni

Icahn School of Medicine at Mount Sinai

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Expectancy violations influence affective states

James L. Roberts Fund

**Theme H: Motivation and Emotion
S12**

Lydia Rogerson

Columbia University

Trainee Professional

Development Award (TPDA)

Graduate Student

Identification of semaglutide-responsive ensembles driving reductions in palatable food and alcohol preference

James L. Roberts Fund

Theme H: Motivation and Emotion

W9

Emily Eiss

Johns Hopkins University School of Medicine

Trainee Professional

Development Award (TPDA)

Graduate Student

Identifying miRNA : mitochondrial RNA interactions using chimeric RNA sequencing

James L. Roberts Fund

Theme J: Techniques

GG10

Zachary Koh

University of Notre Dame

Trainee Professional

Development Award (TPDA)

Undergraduate Student

An ultrastructural map of a spinal sensorimotor circuit reveals the potential of astroglial modulation

James L. Roberts Fund

Theme J: Techniques

GG14

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**Science
Translational
Medicine**



Shreesh Karjagi

Georgia Institute of Technology

Trainee Professional

Development Award (TPDA)

Graduate Student

Distinct STN neural state dynamics revealed between adaptive and continuous DBS during chronic at-home monitoring in Parkinson's disease

Science Translational Medicine/AAAS

Theme C: Neural Aging and Degeneration

D2

Laila Ouldibbat

Fordham University

Trainee Professional

Development Award (TPDA)

Graduate Student

Molecular mechanisms underlying the regulation of metabolic function by ovarian hormones

Science Translational Medicine/AAAS

Theme G: Integrative Physiology and Behavior

O13

Faith Veenker

National Institutes of Health

Trainee Professional

Development Award (TPDA)

Post-baccalaureate

Neurobiological craving signature
expression in opioid use disorder

Science Translational Medicine/AAAS

Theme H: Motivation and Emotion

Y9

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**The John I.
Simpson Fund**

Gradi Bamfonga

Arizona State University

Trainee Professional

Development Award (TPDA)

Graduate Student

Investigating neurodevelopmental
changes in PTEN Autism-Megalencephaly
using cortical organoids

John I. Simpson Fund

Theme A: Development

A4

Katharina Brosch

**Feinstein Institutes for
Medical Research**

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Structural Disadvantage - Shared
Neural Signatures of Socioeconomic
Status, Scarcity, and Neighborhood
Threat in Youth

John I. Simpson Fund

Theme A: Development

A8

Komal Kaushik

**Washington University School
of Medicine**

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Exploring ZNF292 requirements
for brain development and
consequences of mutation for
neurodevelopmental disorders

John I. Simpson Fund

Theme A: Development

A32

Grace Vollmar

University of Michigan, Ann Arbor

Trainee Professional

Development Award (TPDA)

Undergraduate Student

Deletion of Plxna2 Impaired
Neuronal Network Synchrony
in Mouse Hippocampal Slices

John I. Simpson Fund

Theme A: Development

A62

Jiangshan Zhan

**Jan and Dan Duncan Neurological
Research Institute**

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Astrocytic TRIM9 Suppresses
STING/TBK1/NF- κ B-Mediated
Neuroinflammation in Multiple Sclerosis

John I. Simpson Fund

Theme A: Development

B7

Dingyue Zhang

Washington University in St Louis
Trainee Professional
Development Award (TPDA)
Graduate Student

Ultrasound stimulation of the hypothalamus evokes a hypothermia and hypometabolism state through activation of functionally and molecularly distinct neurons

John I. Simpson Fund
Theme A: Development
B8

Kiara Bachtle

University of Arizona
Trainee Professional
Development Award (TPDA)
Graduate Student

Investigating the role of mitochondrial transcellular transfer between glia and neurons in CNS injury

John I. Simpson Fund
Theme B: Neural Excitability, Synapses, and Glia
B13

Madison Chandler

Albany Medical College
Trainee Professional
Development Award (TPDA)
Graduate Student

Targeted deletion of the anion channel protein LRRC8A in GABAergic neurons modifies inhibitory signaling and animal behavior

John I. Simpson Fund
Theme B: Neural Excitability, Synapses, and Glia
B21

Parleen Pandher

University of California, Berkeley
Trainee Professional
Development Award (TPDA)
Graduate Student

Assessing the in vivo PKA activity status at primary cilia of neurons

John I. Simpson Fund
Theme B: Neural Excitability, Synapses, and Glia
B49

Emily Scott

East Carolina University
Trainee Professional
Development Award (TPDA)
Graduate Student

Structural and functional development of astrocytes in the central nervous system of embryonic zebrafish (*Danio rerio*)

John I. Simpson Fund
Theme B: Neural Excitability, Synapses, and Glia
B60

Abigael Weit

Vanderbilt University
Trainee Professional
Development Award (TPDA)
Graduate Student

Evaluating CaMKII β 's role in synaptic transmission and homeostatic plasticity

John I. Simpson Fund
Theme B: Neural Excitability, Synapses, and Glia
C11

Anna-Lena Wiessler

University Hospital Würzburg

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Glycine receptor autoantibody binding patterns to CNS tissue relate to symptoms in patients

John I. Simpson Fund

Theme B: Neural Excitability,

Synapses, and Glia

C12

Zhaoran Zhang

Massachusetts Institute of Technology

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Electrophysiological characterization of extracellular somatofugal and somatopetal signals along cortical dendrites in awake mice

John I. Simpson Fund

Theme B: Neural Excitability,

Synapses, and Glia

C17

Leonardo Aguilar-Hernandez

Benemérita Universidad Autónoma de Puebla

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Comparative effects of Cerebrolysin and Erythropoietin in dendritic spines and memory in an animal model of aging

John I. Simpson Fund

Theme C: Neural Aging and

Degeneration

C19

Teminijesu Aremu

Universidad Autonoma de Tlaxcala

Trainee Professional

Development Award (TPDA)

Graduate Student

N-Acetylcysteine Reverses Alterations in Redox Status, Expression of Myogenic miRNAs and Muscle Damage Induced by Subchronic Administration of Cisplatin in Female Rats

John I. Simpson Fund

Theme C: Neural Aging and

Degeneration

C22

Hannah Hudson

Washington University in St. Louis

Trainee Professional

Development Award (TPDA)

Graduate Student

Single-neuron spatial proteomics reveals distinct signatures of healthy and pathological brain aging

John I. Simpson Fund

Theme C: Neural Aging and

Degeneration

C57

Jinrui Lyu

University of Illinois

Urbana-Champaign

Trainee Professional

Development Award (TPDA)

Graduate Student

The $\alpha 5$ -GABAA Receptor Positive Allosteric Modulator MP-III-022 Attenuates Surgery-Induced Cognitive Impairment via Microglial Modulation in Aged Mice

John I. Simpson Fund

Theme C: Neural Aging and

Degeneration

D13

Riley McCoy

University of Iowa

Trainee Professional

Development Award (TPDA)

Undergraduate Student

Tau pathology leads to hyperactivity of noradrenergic neurons, potentially contributing to early Alzheimer's disease

John I. Simpson Fund

Theme C: Neural Aging and Degeneration

D15

Ghazaleh Soleimani

University of Minnesota

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Real-time optimization of tacs using closed-loop tes-fmri to modulate frontoparietal connectivity

John I. Simpson Fund

Theme C: Neural Aging and Degeneration

D39

Madan Ghimire

University of Pittsburgh

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Layer 5 and 6b extratelencephalic neurons encode distinct sound features in the auditory cortex

John I. Simpson Fund

Theme D: Neuroimmunity, Neurovasculature, and Neural Injury

E4

Srinidhi Naidu

University of Washington

Trainee Professional

Development Award (TPDA)

Post-baccalaureate

Retinal Ganglion Cells Show Cell-Type Specific Patterns of Kinetic Changes Across Light Levels

John I. Simpson Fund

Theme D: Neuroimmunity, Neurovasculature, and Neural Injury
E21

James Prusak Jr

Tulane University School

of Medicine - Biomedical

Sciences Graduate Program

Trainee Professional

Development Award (TPDA)

Graduate Student

Assessment of the effects of Plasmodium fragile malaria in pregnancy on neuroinflammation, blood-brain barrier integrity, and microglia morphology in the hippocampus of rhesus macaques

John I. Simpson Fund

Theme D: Neuroimmunity, Neurovasculature, and Neural Injury
E24

Kyra Schindler

University of Miami,

Miller School of Medicine

Trainee Professional

Development Award (TPDA)

Graduate Student

Investigating the Neuroimmune Basis of HIV Induced Cognitive and Neuropsychiatric Dysfunction

John I. Simpson Fund

Theme D: Neuroimmunity, Neurovasculature, and Neural Injury
E28

Takahiro Yokoyama

Sapporo Medical University

School of Medicine

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Repeated intravenous mesenchymal stem cell infusions enhance functional recovery beyond single mesenchymal stem cell infusion after acute cerebral ischemia in rats

John I. Simpson Fund

**Theme D: Neuroimmunity,
Neurovasculature, and Neural Injury
E40**

Marlen Alva

Universidad Nacional Autónoma
de México (UNAM)

Trainee Professional

Development Award (TPDA)

Undergraduate Student

Neuronal Correlates of Auditory
Discrimination in the Frontopolar
Cortex of Rhesus Monkeys

John I. Simpson Fund

**Theme E: Sensory Systems
E45**

Minel Arinel

Duke University

Trainee Professional

Development Award (TPDA)

Graduate Student

Decoding neural responses to gut-
mediated signals in larval zebrafish

John I. Simpson Fund

**Theme E: Sensory Systems
E47**

Chen Chen

University of Virginia

Trainee Professional

Development Award (TPDA)

Graduate Student

Decoding visual motion via distinct
molecular cell types in the mouse
superior colliculus

John I. Simpson Fund

**Theme E: Sensory Systems
E52**

Tzu-Yao Chiu

The Ohio State University

Trainee Professional

Development Award (TPDA)

Graduate Student

Dynamic read-out of spatial remapping
across saccades with time-resolved
EEG alpha band decoding

John I. Simpson Fund

**Theme E: Sensory Systems
E53**

Ahyeon Choi

University of Iowa

Trainee Professional

Development Award (TPDA)

Graduate Student

Decoding Illusory Melody from
Electroencephalography Using
Backward Temporal Response
Functions

John I. Simpson Fund

**Theme E: Sensory Systems
E54**

Maricruz Díaz-Fuentes

Universidad Nacional Autónoma de México (UNAM)

Trainee Professional

Development Award (TPDA)

Undergraduate Student

Peripheral antinociception induced by local administration of oxytocin receptor biased agonists in female and male rats

John I. Simpson Fund

Theme E: Sensory Systems

F5

Wiete Fehner

Washington University in St. Louis

Trainee Professional

Development Award (TPDA)

Graduate Student

Semantic Decoding of Naturalistic Movies using High-Density Diffuse Optical Tomography

John I. Simpson Fund

Theme E: Sensory Systems

F7

Minsu Kim

Harvard University

Trainee Professional

Development Award (TPDA)

Graduate Student

BANC: A Complete Brain and Nerve Cord Connectome Revealing Sensory-to-Motor Transformations in *Drosophila melanogaster*

John I. Simpson Fund

Theme E: Sensory Systems

G1

Haiyan Wang

Katholieke Universiteit Leuven

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Brain encoding analysis with naturalistic movie fMRI in humans and macaques

John I. Simpson Fund

Theme E: Sensory Systems

H11

Tushar Arora

Boston University

Trainee Professional

Development Award (TPDA)

Graduate Student

Towards 3d markerless pose tracking during reach to grasp in macaque monkeys

John I. Simpson Fund

Theme F: Motor Systems

H14

Srikanta Chowdhury

Columbia University

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Regulation of meal size and timing by a brainstem peptidergic population

John I. Simpson Fund

Theme F: Motor Systems

I5

Michaela de Kock

Maastricht University Medical Center
Trainee Professional
Development Award (TPDA)
Graduate Student

The VertiGO! Trial: current standings and next steps in evaluating the safety and efficacy of prolonged daily stimulation in a multi-canal vestibulo-cochlear implant (VCI) prototype

John I. Simpson Fund
Theme F: Motor Systems
I9

Moein Koohestani

University of Central Florida
Trainee Professional
Development Award (TPDA)
Graduate Student

Corticomuscular coherence of agonist and antagonist thigh musculature during graded-intensity isometric knee contractions

John I. Simpson Fund
Theme F: Motor Systems
J12

Matthew McGregor

University of Colorado Anschutz
Trainee Professional
Development Award (TPDA)
Postdoctoral Fellow

Different spatiotemporal modes of dopamine transmission drive motor output and motor learning

John I. Simpson Fund
Theme F: Motor Systems
J15

Fatemeh Salehi Shahrabaki

Pennsylvania State University
Trainee Professional
Development Award (TPDA)
Graduate Student

Interneuron Control of Arteriole Dilation During Sleep

John I. Simpson Fund
Theme F: Motor Systems
K6

Shadman Tahmid

West Virginia University
Trainee Professional
Development Award (TPDA)
Postdoctoral Fellow

Coordination, not load, drives the metabolic cost of walking with a powered knee prosthesis

John I. Simpson Fund
Theme F: Motor Systems
K15

X. Hermione Xu

Duke University
Trainee Professional
Development Award (TPDA)
Graduate Student

Dissecting the contribution of somatosensory corticofugal pathway to skilled reaching behavior

John I. Simpson Fund
Theme F: Motor Systems
L7

Mohammed Abuelem

**National Institutes of Health
and University of Oxford**

Trainee Professional

Development Award (TPDA)

Graduate Student

Cortical layer 6 Drd1a-Cre+ neurons serve as a neuromodulatory hub of cortical arousal by balancing dopaminergic, serotonergic, and orexinergic activation of the murine medial prefrontal cortex

John I. Simpson Fund

**Theme G: Integrative Physiology
and Behavior
L9**

Madalyn Critz

University of Washington

Trainee Professional

Development Award (TPDA)

Graduate Student

Imaging the neural encoding dynamics of chronic pain transition in the ventrolateral periaqueductal gray

John I. Simpson Fund

**Theme G: Integrative Physiology
and Behavior
M8**

Katherine Day

Cold Spring Harbor Laboratory

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Dopamine dynamics in the nucleus accumbens during maternal behavior in postpartum and virgin CBA/CaJ mice

John I. Simpson Fund

**Theme G: Integrative Physiology
and Behavior
M9**

Olimpia Díaz Barriga Ponce

National Institute of Psychiatry

Trainee Professional

Development Award (TPDA)

Undergraduate Student

Time restricted feeding as a non-pharmacological strategy for chronic stress-related obesity and hyperphagia in rodents

John I. Simpson Fund

**Theme G: Integrative Physiology
and Behavior
M10**

Princess Felix

University of Michigan

Trainee Professional

Development Award (TPDA)

Graduate Student

Glucocorticoid receptor knockdown in a cortico-striatal pathway alters cue-reward learning without affecting the stress response

John I. Simpson Fund

**Theme G: Integrative Physiology
and Behavior
N1**

Alena Lemeshova

Bowdoin College

Trainee Professional

Development Award (TPDA)

Undergraduate Student

Enduring effects of ketamine treatment are influenced by dose, sex, and cell specific mechanisms across two models of affective dysfunction

John I. Simpson Fund

**Theme G: Integrative Physiology
and Behavior
N15**

Sydney McGraw

Marquette University

Trainee Professional

Development Award (TPDA)

Graduate Student

Spatiotemporal gating of photic processing in the central circadian clock is regulated by the local network

John I. Simpson Fund

Theme G: Integrative Physiology and Behavior

O6

Maura Stoehr

Boston College

Trainee Professional

Development Award (TPDA)

Graduate Student

Microglial interactions with synapses on oxytocin receptor-expressing neurons in the anterior cingulate cortex following combined prenatal exposure to air pollution and maternal stress

John I. Simpson Fund

Theme G: Integrative Physiology and Behavior

P12

Lydia Bailey

Washington State University

Trainee Professional

Development Award (TPDA)

Graduate Student

Enhanced Prefrontal Inhibitory Tone Induced by the Incubation of High-Fat Food Craving is Reversed by Exercise

John I. Simpson Fund

Theme H: Motivation and Emotion

R7

Alison Bashford

Drexel University

Trainee Professional

Development Award (TPDA)

Graduate Student

Opioids modulate dopamine uptake in the nucleus accumbens through local circuit mechanisms

John I. Simpson Fund

Theme H: Motivation and Emotion

R9

Sneha Chandrashekar

University of Pennsylvania

Trainee Professional

Development Award (TPDA)

Undergraduate Student

A whole-brain functional connectivity model to guide transcranial magnetic stimulation targeting for post-traumatic stress disorder

John I. Simpson Fund

Theme H: Motivation and Emotion

R15

Yiru Chen

Washington University in St. Louis

Trainee Professional

Development Award (TPDA)

Graduate Student

A novel homepage operant task reveals dopaminergic modulation of social motivation in mice

John I. Simpson Fund

Theme H: Motivation and Emotion

R16

Lily Connolly

Miami University

Trainee Professional

Development Award (TPDA)

Undergraduate Student

Sex differences in activity-based anorexia development in adolescent mice

John I. Simpson Fund

Theme H: Motivation and Emotion

S2

Alana Darcher

Eberhard Karls University of Tübingen

Trainee Professional

Development Award (TPDA)

Graduate Student

Decoding movie content from neuronal population activity in the human medial temporal lobe

John I. Simpson Fund

Theme H: Motivation and Emotion

S5

Yufeng Du

Johns Hopkins University

Trainee Professional

Development Award (TPDA)

Undergraduate Student

Spatial molecular profiling of the macaque lateral septum reveals cross-species conserved and divergent neuronal subtypes from rodents and humans

John I. Simpson Fund

Theme H: Motivation and Emotion

S9

Natalie Dalton Fitzgerald

University of Alabama at Birmingham

Trainee Professional

Development Award (TPDA)

Graduate Student

Transcriptionally defined subpopulations of ventral tegmental area dopamine neurons exhibit distinct electrophysiological properties and response to cocaine

John I. Simpson Fund

Theme H: Motivation and Emotion

S11

Ariadna Garcia Vergara

University of Cambridge

Trainee Professional

Development Award (TPDA)

Graduate Student

Overactivation of subgenual anterior cingulate cortex induces both negative and positive judgment biases in the common marmoset: a computational analysis

John I. Simpson Fund

Theme H: Motivation and Emotion

T2

Akemi Ito

Boston University

Trainee Professional

Development Award (TPDA)

Graduate Student

Memory Stability and Representational Drift in Hippocampal Engram Cells

John I. Simpson Fund

Theme H: Motivation and Emotion

T9

Delainey Lewis

Miami University

Trainee Professional

Development Award (TPDA)

Post-baccalaureate

Differential influences of gonads and sex chromosome complement on intermittent access ethanol drinking and aversion resistance using the Four Core Genotypes mouse model

John I. Simpson Fund

**Theme H: Motivation and Emotion
U6**

Annabelle Li

Smith College

Trainee Professional

Development Award (TPDA)

Undergraduate Student

Neural encoding of response accuracy in a realistic recognition memory task

John I. Simpson Fund

**Theme H: Motivation and Emotion
U8**

Kanako Matsumura

University of Texas at Austin

Trainee Professional

Development Award (TPDA)

Graduate Student

Striatal enkephalin gates cocaine-induced GABA plasticity and excitability of the ventral pallidum

John I. Simpson Fund

**Theme H: Motivation and Emotion
V1**

Noah Miller

**University of North Carolina
at Chapel Hill**

Trainee Professional

Development Award (TPDA)

Graduate Student

Using Pupil-Light to measure pupil size in freely behaving mice

John I. Simpson Fund

**Theme H: Motivation and Emotion
V5**

Kelly Runyon

Virginia Tech

Trainee Professional

Development Award (TPDA)

Graduate Student

Mediodorsal thalamus projections to Prelimbic and Anterior Cingulate cortices are differentially modulated by predictive cues

John I. Simpson Fund

**Theme H: Motivation and Emotion
W13**

Rebecca Suthard

Boston University

Trainee Professional

Development Award (TPDA)

Graduate Student

A hippocampal astrocytic sequence emerges during learning and memory

John I. Simpson Fund

**Theme H: Motivation and Emotion
X13**

Xu Yan

The Pennsylvania State University
Trainee Professional Development Award (TPDA)
Graduate Student

Network connectivity supporting adaptive attentional control under nicotine withdrawal: a cognitive and affective demand manipulation

John I. Simpson Fund
Theme H: Motivation and Emotion
Y15

Soami Filippo Zenoni

Università degli Studi di Roma “La Sapienza”
Trainee Professional Development Award (TPDA)
Graduate Student

Drn’S vglut3+tp2+ neurons projecting to cea play a critical role in relapse after food-based voluntary abstinence from methamphetamine

John I. Simpson Fund
Theme H: Motivation and Emotion
Y16

Madison Casey

New York University
Trainee Professional Development Award (TPDA)
Undergraduate Student

A new behavioral phenotype in an Fmr1 KO rat model: Learning and perceptual deficits in an interval timing task

John I. Simpson Fund
Theme I: Cognition
Z9

Chelsey Damphousse

University of Minnesota
Trainee Professional Development Award (TPDA)
Postdoctoral Fellow

Running the gauntlet: dorsal hippocampal representations of predator threat

John I. Simpson Fund
Theme I: Cognition
AA2

Henry Denny

McGill University
Trainee Professional Development Award (TPDA)
Graduate Student

Excitatory-inhibitory coordination of the thalamic head direction signal

John I. Simpson Fund
Theme I: Cognition
AA5

Joel Diaz-Fong

Institute of Medical Science, University of Toronto; Brain Health Imaging Centre, Centre for Addiction and Mental Health; Semel Institute for Neuroscience & Human Behavior, University of California Los Angeles Neuroscience Scholars Program (NSP); Trainee Professional Development Award (TPDA)
Graduate Student

Investigating Relationships Between White Matter and Electrophysiological Markers of Aberrant Attentional and Perceptual Processes in Psychiatric Populations

John I. Simpson Fund
Theme I: Cognition
AA6

Jorge Flores

National Institutes of Health

Trainee Professional

Development Award (TPDA)

Post-baccalaureate

Alterations in parvalbumin cell distribution patterns within orbital prefrontal cortex area 11 after long standing crossed disconnection lesions of the amygdala and medial prefrontal cortex in macaque monkeys

John I. Simpson Fund

Theme I: Cognition

AA10

Ayaka Hachisuka

New York University Grossman

School of Medicine

Trainee Professional

Development Award (TPDA)

Graduate Student

Probing the neural geometry of conscious object category representation in time

John I. Simpson Fund

Theme I: Cognition

AA16

Anne Hoffmann

Donders Institute for Brain, Cognition, and Behaviour

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

The psychophysiology of human (self-) tickle sensations

John I. Simpson Fund

Theme I: Cognition

BB4

Daria Kussovskva

Columbia University

Trainee Professional

Development Award (TPDA)

Graduate Student

Neural heterogeneity shapes the temporal structure of human working memory

John I. Simpson Fund

Theme I: Cognition

BB10

Crystal Li

Johns Hopkins University

Trainee Professional

Development Award (TPDA)

Undergraduate Student

Intracranial traveling waves during sequential inspections in a multi-attribute decision task

John I. Simpson Fund

Theme I: Cognition

BB13

Clara Liff

Columbia University

Trainee Professional

Development Award (TPDA)

Graduate Student

Endogenous opioid neuromodulation of maternal care

John I. Simpson Fund

Theme I: Cognition

BB14

Liu Mengxing

**Basque Center On Cognition,
Brain and Language (BCBL)**

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

The thalamus reconfigures prefrontal substrates of hierarchical reasoning in humans

John I. Simpson Fund

Theme I: Cognition

CC7

Vladimir Omelyusik

University of Missouri, Columbia

Trainee Professional

Development Award (TPDA)

Graduate Student

Bursting in a frontotemporal circuit supports human working memory

John I. Simpson Fund

Theme I: Cognition

CC15

Alexis Pracar

University of California, Berkeley

Trainee Professional

Development Award (TPDA)

Graduate Student

Sensorimotor dynamics of singing and speaking

John I. Simpson Fund

Theme I: Cognition

DD5

Grace Ross

**University of North Carolina,
Chapel Hill**

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Increased sustained attention and neuronal entrainment by rhythmic optogenetic stimulation of the dorsal fronto-parietal network

John I. Simpson Fund

Theme I: Cognition

DD8

Bianca Sieveritz

New York University

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Decision-making requires active thalamic engagement, not just cortical integration

John I. Simpson Fund

Theme I: Cognition

DD12

Ria Sinha

University of California, Santa Barbara

Trainee Professional

Development Award (TPDA)

Undergraduate Student

Relationship between pupil size and visual working memory performance is stable across sex hormone fluctuations throughout the menstrual cycle

John I. Simpson Fund

Theme I: Cognition

DD13

Trevor Towner

Emory University

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Neurotrophin signaling is essential for socially-guided choice

John I. Simpson Fund

Theme I: Cognition

EE6

Katherine Yao

Yale University

Trainee Professional

Development Award (TPDA)

Graduate Student

Investigating the Internal States of Social Decision-Making in Macaques via Latent Variable Modeling

John I. Simpson Fund

Theme I: Cognition

FF3

Zaid Zada

Princeton University

Trainee Professional

Development Award (TPDA)

Graduate Student

Brains and language models converge on a shared conceptual space across different languages

John I. Simpson Fund

Theme I: Cognition

FF8

Arjun Vinayak Chikkankod

Technological University Dublin

Trainee Professional

Development Award (TPDA)

Graduate Student

Eeg microstates via deepcrostates: a web-based tool for accessible and scalable whole brain analysis

John I. Simpson Fund

Theme J: Techniques

GG5

Minhye Choo

Pohang University of Science and Technology

Trainee Professional

Development Award (TPDA)

Graduate Student

Collective Neural Dynamics of the Spinal Cord Medeled Through a Manifold Based Recurrent Framework

John I. Simpson Fund

Theme J: Techniques

GG6

Chinaza Dibia

University of Toronto

Trainee Professional

Development Award (TPDA)

Graduate Student

Gene delivery and regulation in the brain of mixed-strain mice: impact of the LY6A receptor on AAV.PHP:eB transduction and focused ultrasound on GFAP-driven transgene expression

John I. Simpson Fund

Theme J: Techniques

GG8

Ziwei Zhang

University of Chicago

Trainee Professional

Development Award (TPDA)

Graduate Student

Surprising narrative events elicit convergent responses in brain network dynamics, subjective reports, and large language models

John I. Simpson Fund

Theme J: Techniques

HH12

Da Zhi

Massachusetts General Hospital

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Precision functional mapping of individual human brain using resting-state and task-evoked fMRI data

John I. Simpson Fund

Theme J: Techniques

HH13

Oreoluwa Adeyiga

University of Colorado Anschutz

Medical Campus

Trainee Professional

Development Award (TPDA)

Post-baccalaureate

Neuroimaging's blindspot: underrepresented populations

John I. Simpson Fund

Theme K: History, Education, and Society

HH15

Labiba Aziz

Columbia University Irving

Medical Center

Trainee Professional

Development Award (TPDA)

Graduate Student

The Role of Parvalbumin Interneurons and Perineuronal Nets in Prefrontal Cortex Following Learned Helplessness

John I. Simpson Fund

Theme K: History, Education, and Society

II1

Jeevan Gochhayat

Indian Institute of Science Education

and Research, Pune, India

Trainee Professional

Development Award (TPDA)

Graduate Student

Uncovering the peripheral olfactory code using a simple ORN model

John I. Simpson Fund

Theme K: History, Education, and Society

II7

Elizabeth Kahn

Icahn School of Medicine

at Mount Sinai

Trainee Professional

Development Award (TPDA)

Graduate Student

Long-term fentanyl withdrawal reprograms nucleus accumbens gene networks and reward-related behavior

John I. Simpson Fund

Theme K: History, Education, and Society

II10



SOCIETY *for*
NEUROSCIENCE

Kate Herrema

Boston University

Trainee Professional

Development Award (TPDA)

Graduate Student

Biomaterial-directed patterning of human cortical organoids transplanted into rodent cortex

Society for Neuroscience

Theme A: Development

A29

Jacob Lentz

National Institute of Mental Health

Trainee Professional

Development Award (TPDA)

Post-baccalaureate

Adolescent Subgenual Anterior Cingulate Cortex Developmental Trajectory in ABCD

Society for Neuroscience

Theme A: Development

A38

Attalia McDowell

The University of North Carolina at Chapel Hill

Trainee Professional

Development Award (TPDA)

Undergraduate Student

Socioeconomic status in early childhood influences neural responses to social evaluation in adolescents

Society for Neuroscience

Theme A: Development

A43

Elizabeth Pattie

University of Maryland, Baltimore

Trainee Professional

Development Award (TPDA)

Graduate Student

Defining disease mechanisms in a rare neurodevelopmental disorder caused by variants in TANC2

Society for Neuroscience

Theme A: Development

A49

Anantha Maharasi Ramakrishnan

Indian Institute of Science, Bangalore

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

How do micropillar topographies influence neuronal growth?

Society for Neuroscience

Theme A: Development

A54

John Ratliff

University of California, Santa Cruz

Trainee Professional

Development Award (TPDA)

Post-baccalaureate

Development of Presynaptic Networks to Distinct Cortico-Cortical Projection Neuron Populations in Primary Visual Cortex

Society for Neuroscience

Theme A: Development

A55

Helene Vitali

Italian Institute of Technology

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Behavioral Multisensory Integration

Benefits in Children with ADHD

Society for Neuroscience

Theme A: Development

A61

Anna Voss

University of Pennsylvania

Trainee Professional

Development Award (TPDA)

Graduate Student

Elucidating the roles of histone
variant H2BE (H2BC21) in human
neurodevelopment

Society for Neuroscience

Theme A: Development

B1

Edna Weiss

Freie Universität Berlin, Berlin

Trainee Professional

Development Award (TPDA)

Graduate Student

Seizure-induced cell fate shifts: Tracking
neurogenesis in a viral encephalitis-
induced epilepsy model

Society for Neuroscience

Theme A: Development

B4

Wenjie Du

University Medical Center Utrecht

Trainee Professional

Development Award (TPDA)

Graduate Student

Stress attenuates the excitability
of accumbal neurons projecting to
the lateral hypothalamus: potential
consequences for binge eating

Society for Neuroscience

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

B29

Bao Nam Tran Hoang

Monash University

Trainee Professional

Development Award (TPDA)

Undergraduate Student

Topographic organisation of the
claustrum-amygdala-prefrontal circuitry in
the common marmoset (*Callithrix jacchus*)

Society for Neuroscience

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

B34

Sanjna Kumari

**Indian Institute of Science,
Bangalore, India**

Trainee Professional

Development Award (TPDA)

Graduate Student

Dorsoventral gradients in intrinsic
neuronal excitability of rat hippocampal
granule cells and mossy cells

Society for Neuroscience

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

B42

Karla Rodrigues

**Ribeirão Preto Medical School
(FMRP), University of São Paulo (USP)**
*Trainee Professional
Development Award (TPDA)*
Graduate Student

Adenosine A2B receptors modulate the respiratory rhythm and lactate release during hypoxia

Society for Neuroscience
**Theme B: Neural Excitability,
Synapses, and Glia**
B55

Rinichiro Teruya

University of Tsukuba
*Trainee Professional
Development Award (TPDA)*
Graduate Student

Purine salvage pathway regulates cerebrovascular formation and microglial dynamics

Society for Neuroscience
**Theme B: Neural Excitability,
Synapses, and Glia**
C7

Quentin Coppola

Northeastern University
*Trainee Professional
Development Award (TPDA)*
Graduate Student

Network-based latent modeling of brain health: predicting longitudinal change from task-evoked hemodynamic responses

Society for Neuroscience
**Theme C: Neural Aging and
Degeneration**
C35

Sabrina Kistler

**Boston University Chobanian &
Avedisian School of Medicine**
*Trainee Professional
Development Award (TPDA)*
Graduate Student

Apoer2 splicing and APOE isoforms drive distinct gene expression in the brain: understanding mechanisms underlying Alzheimer's disease risk

Society for Neuroscience
**Theme C: Neural Aging and
Degeneration**
D7

Sonam Mehak

Manipal Academy of Higher Education
*Trainee Professional
Development Award (TPDA)*
Graduate Student

Targeting CA2 perineuronal nets restores recognition memory and theta oscillations in aged mice

Society for Neuroscience
**Theme C: Neural Aging and
Degeneration**
D17

Katherine Green

University of Washington
*Trainee Professional
Development Award (TPDA)*
Graduate Student

The effect of motor-targeted epidural spinal stimulation on spinal cord injury induced neuropathic pain

Society for Neuroscience
**Theme D: Neuroimmunity,
Neurovasculature, and Neural Injury**
E6

Akira Toga

Keio University School of Medicine

Trainee Professional

Development Award (TPDA)

Graduate Student

Resting-state Functional Connectivity
Dynamics Associated with Motor
Recovery After Spinal Cord Injury
in the Marmoset Brain

Society for Neuroscience

**Theme D: Neuroimmunity,
Neurovasculature, and Neural Injury
E35**

Ariel Feldman

Carnegie Mellon University

Trainee Professional

Development Award (TPDA)

Graduate Student

Tendon vibration to enhance motor-
related activity on the Stentrodre

Society for Neuroscience

**Theme F: Motor Systems
J2**

Pramisha Thapa

University of Minnesota

Trainee Professional

Development Award (TPDA)

Graduate Student

Do younger and older adults employ
distinct strategies for online motor control
during unexpected perturbations?

Society for Neuroscience

**Theme F: Motor Systems
L1**

Anwesha Mukhopadhyay

University of Utah

Trainee Professional

Development Award (TPDA)

Graduate Student

Preadaptation in allopatry as a
foundation for reinforcement in
sympatry: Insights from auditory
midbrain single-unit recordings across
populations of chorus frogs

Society for Neuroscience

**Theme G: Integrative Physiology
and Behavior
O9**

Sophie Rewey

University of Minnesota, Twin Cities

Trainee Professional

Development Award (TPDA)

Graduate Student

Acute alcohol effects on cerebral-
cerebellar network topology

Society for Neuroscience

**Theme G: Integrative Physiology
and Behavior
P5**

Gowri Somasekhar

University of Arizona

Trainee Professional

Development Award (TPDA)

Graduate Student

Eliciting a sequence of orienting
behaviors by optogenetic manipulation
in an echolocating Bat

Society for Neuroscience

**Theme G: Integrative Physiology
and Behavior
P11**

Kevin Xu

Washington University in St. Louis

Trainee Professional

Development Award (TPDA)

Graduate Student

A prefrontal cortex-hypothalamus circuit for heart rate control in non-human primates

Society for Neuroscience

Theme G: Integrative Physiology and Behavior

Q11

Da Lu

University of Melbourne, The Florey

Institute of Neuroscience and Mental Health

IBRO; Trainee Professional

Development Award (TPDA)

Graduate Student

Epigenetic remodeling of sperm small RNAs by paternal chronic bacterial-like infection is associated with offspring anxiety and cognitive outcomes across generations

Society for Neuroscience

Theme G: Integrative Physiology and Behaviour

Q15

Kaneez Fatima Dar

Indian Institute of Technology Roorkee

Trainee Professional

Development Award (TPDA)

Graduate Student

Inhibitory control training improves fear extinction and extinction recall

Society for Neuroscience

Theme H: Motivation and Emotion

S4

Cristina María Ríos

University of Puerto Rico, Medical

Sciences Campus

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Ventral pallidal GABAergic neurons encode approach and avoidance during motivational conflict

Society for Neuroscience

Theme H: Motivation and Emotion

U15

Priyanka Jaipal Sigar

University of California Los Angeles

Trainee Professional

Development Award (TPDA)

Graduate Student

Brain signal variability and gene expression profiles underlying anxiety

Society for Neuroscience

Theme H: Motivation and Emotion

X5

Tavish Traut

University of Oxford

Trainee Professional

Development Award (TPDA)

Graduate Student

The neural basis of economic trading: reward exchange during social interaction

Society for Neuroscience

Theme H: Motivation and Emotion

Y3

Mia Trupiano

Florida State University

Trainee Professional

Development Award (TPDA)

Graduate Student

Long-term consequences of early-life nicotine exposure and the mesolimbic system

Society for Neuroscience

Theme H: Motivation and Emotion

Y5

Catherine Fengler

Dartmouth College

Trainee Professional

Development Award (TPDA)

Post-baccalaureate

Examining the acute and persisting effects of adolescent SSRI administration on motivated behaviors

Society for Neuroscience

Theme I: Cognition

AA9

Zitong Lu

Massachusetts Institute of Technology

Trainee Professional

Development Award (TPDA)

Graduate Student

Unfolding spatiotemporal representations of 3D visual perception in the human brain

Society for Neuroscience

Theme I: Cognition

CC3

Utsav Mukherjee

University of Iowa

Trainee Professional

Development Award (TPDA)

Graduate Student

Leveraging Molecular Chaperones as Therapeutic Tools Against Alzheimer’s Disease and Related Dementias

Society for Neuroscience

Theme I: Cognition

CC11

Renee Tung

Columbia University

Trainee Professional

Development Award (TPDA)

Graduate Student

Load-dependent reorganization of neural dynamics during working memory

Society for Neuroscience

Theme I: Cognition

EE7

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Zexi Chen

University of California, Irvine

Trainee Professional

Development Award (TPDA)

Undergraduate Student

Rethinking ADHD Diagnosis with fMRI functional connectivity data: Generalization and Bias Through a Hypergraph-Family Systems Lens

Nancy Rutledge Zahniser Fund

Theme A: Development

A14

Dennisha King

**University of Rochester
Medical Center**

*Trainee Professional
Development Award (TPDA)*
Graduate Student

Maternal Separation Alters Synaptic
Remodeling in the Paralaminar
Nucleus of the Amygdala

**Nancy Rutledge Zahniser Fund
Theme A: Development
A33**

Sarah Hurt

University of Missouri
*Trainee Professional
Development Award (TPDA)*
Postdoctoral Fellow

Understanding the function of the
IGHMBP2-ABT1 interaction and its
role in SMARD1/CMT2S

**Nancy Rutledge Zahniser Fund
Theme C: Neural Aging and
Degeneration
C58**

Jordan Johnson

Cornell University
*Neuroscience Scholars Program
(NSP); Trainee Professional
Development Award (TPDA)*
Graduate Student

Cardiorespiratory adaptability and
cognitive flexibility in aging

**Nancy Rutledge Zahniser Fund
Theme C: Neural Aging and
Degeneration
C62**

Megan Brickner

University of Minnesota
*Trainee Professional
Development Award (TPDA)*
Graduate Student

Basolateral amygdala
dopaminergic system tracks
dynamic drug seeking behavior

**Nancy Rutledge Zahniser Fund
Theme G: Integrative Physiology
and Behavior
M3**

Laura Hentig

**University of Colorado,
Colorado Springs**
*Trainee Professional
Development Award (TPDA)*
Undergraduate Student

Sleep Fragmentation Elevates Blood
Pressure via Increase Cortical Activation
During Slow Wave Sleep in Rats

**Nancy Rutledge Zahniser Fund
Theme G: Integrative Physiology
and Behavior
N8**

Shanthini Ragoonaden

**University of Minnesota Medical
School, Duluth Campus**
*Trainee Professional
Development Award (TPDA)*
Post-baccalaureate

Nucleus accumbens parvalbumin
interneurons encode fentanyl cues in
intravenous self administration

**Nancy Rutledge Zahniser Fund
Theme G: Integrative Physiology
and Behavior
P2**

Erin Riley

Rhodes College

Trainee Professional

Development Award (TPDA)

Undergraduate Student

The role of the ventral pallidum and kappa opioid receptors in decision-making with delayed punishment

Nancy Rutledge Zahniser Fund

Theme H: Motivation and Emotion

W6

Carlee Toddes

University of Washington

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Decoding pain mediated shifts in social behavior following neuropathic injury in mice

Nancy Rutledge Zahniser Fund

Theme H: Motivation and Emotion

Y2

Maryam Majeed

Allen Institute

Trainee Professional

Development Award (TPDA)

Postdoctoral Fellow

Barcoded connectomics in the mouse and macaque visual cortex reveals shared and distinct projection logic at cellular resolution

Nancy Rutledge Zahniser Fund

Theme J: Techniques

HH
