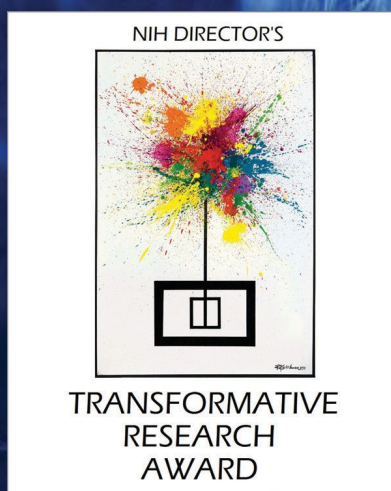
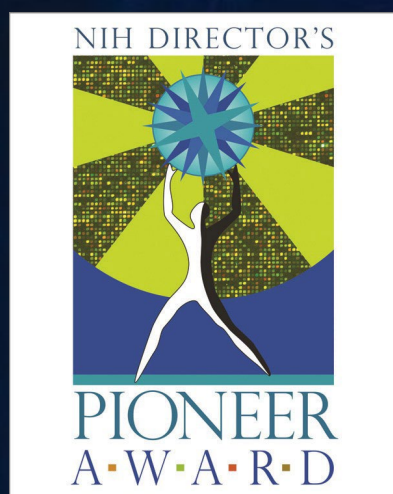




NIH Common Fund

2026 High-Risk, High-Reward Research Symposium

Program Book

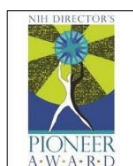


Program Description



The NIH Common Fund is a funding entity within NIH that supports bold scientific programs that catalyze discovery across all biomedical and behavioral research. These programs create a space where investigators and multiple NIH Institutes and Centers collaborate on innovative research expected to address high-priority challenges for NIH as a whole and to make a broader impact in the scientific community. More information is available at commonfund.nih.gov.

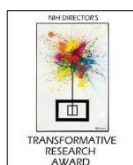
The NIH Common Fund's High-Risk, High-Reward Research program was created to accelerate the pace of biomedical discoveries by supporting exceptionally creative scientists who have highly innovative research ideas of unusually broad impact. Four initiatives within this program, the NIH Director's Pioneer, New Innovator, Transformative Research, and Early Independence Awards, serve distinct purposes in achieving this goal.



Pioneer Award: Supports scientists with outstanding records of creativity pursuing new research directions to develop pioneering approaches to major challenges in biomedical, social science, and behavioral research.



New Innovator Award: Supports unusually creative early-career stage investigators with highly innovative research ideas with the potential for broad impact.



Transformative Research Award: Supports individuals or teams proposing exceptionally innovative and/or unconventional research projects that have the potential to create or overturn fundamental paradigms.



Early Independence Award: Supports outstanding junior scientists who have the intellect, scientific creativity, drive, and maturity to bypass the traditional postdoctoral training period to launch independent research careers.

Agenda



Wednesday, March 4, 2026

Session 1

- 1:00 p.m. Welcome
- 1:05 p.m. **Jay Bhattacharya**, NIH Director
Remarks by the NIH Director
- 1:20 p.m. **Jalal Ahmed**, Icahn School of Medicine at Mount Sinai
Early Independence Award
A New Strategy to Advance CAR T Cell Therapy for Solid Tumors: Unlocking the Therapeutic Window Through Tumor Irradiation
- 1:40 p.m. **Alexandros Pouloupoulos**, University of Maryland School of Medicine
New Innovator Award
The Promise of Precision in Somatic Cell Genome Editing in Vivo
- 2:00 p.m. **Erica Korb**, University of Pennsylvania
New Innovator Award
Defining the Lasting Transcriptomic, Epigenetic, and Proteomic Signatures of Memory
- 2:20 p.m. **Annelise Barron**, Stanford University School of Medicine
Pioneer Award
Alzheimer's Disease Is Caused by Dysregulation of Innate Immunity by Unperceived, Undiagnosed, and Untreated Polymicrobial Co-Infections—And Can Be Prevented
- 2:40 p.m. **Aviad Hai**, University of Wisconsin - Madison
New Innovator Award
Bioelectronic Contrast Agents (BECAs) for Functional Magnetic Resonance Imaging of Neurophysiology
- 3:00 p.m. **BREAK**

Session 2

- 3:20 p.m. **Marcos Simoes-Costa**, Harvard University
New Innovator Award
Spatial Patterning of the Epigenome During Early Embryonic Development
- 3:40 p.m. **Patricia Clark**, University of Notre Dame
Pioneer Award
Protein Folding Success Depends on the Direction and Speed of Polypeptide Chain Appearance

Wednesday, continued

- 4:00 p.m. **Andrew Miri**, Northwestern University
New Innovator Award
Instructive Influence of Motor Cortex on Muscle Activity During Ethological Motor Behavior
- 4:20 p.m. **Peter Adams**, Sanford Burnham Prebys Medical Discovery Institute
Transformative Research Award
Nucleosome Stability Safeguards Cell Identity, Stress Resilience, and Healthy Aging
- 4:40 p.m. **Liam Holt**, New York University School of Medicine
Transformative Research Award
Hypoglycemia in Motor-Neurons Impairs Nuclear Import and Leads to ALS Molecular Pathology
- 5:30 p.m. **NETWORKING HAPPY HOUR**
The Bethesda Hotel, Fialova Bar (Hotel Lobby)
8120 Wisconsin Avenue
Bethesda, Maryland, 20814

Thursday, March 5, 2026

Session 3

- 9:00 a.m. **PROGRAM REMARKS**, NIH Staff
- 9:10 a.m. **Brian Litt**, University of Pennsylvania
Pioneer Award
Ghost in the Machine: An Implantable Device That Converses with Patients and Learns to Co-Manage Epilepsy
- 9:30 a.m. **Margaux Pinney**, University of California, Berkeley
Early Independence Award
Leveraging Evolutionary-Scale Enzymology to Map and Predict Catalytic Landscapes
- 9:50 a.m. **Lucas Cheadle**, Cold Spring Harbor Laboratory/Howard Hughes Medical Institute
New Innovator Award
Maternal-Fetal Immune Conflict in a Mouse Model of Neurodevelopmental Disorders
- 10:10 a.m. **Polina Anikeeva**, Massachusetts Institute of Technology
Pioneer Award
Fusion of Nanomagnetic and Viral Tools to Interrogate Brain-Body Circuits
- 10:30 a.m. **BREAK**
- 10:45 a.m. **POSTER SESSION 1**
(Upstairs Atrium)

Thursday, continued

11:45 a.m. **LUNCH (ON YOUR OWN)**

1:00 p.m. **POSTER SESSION 2**
(Upstairs Atrium)

Session 4

2:00 p.m. **Eunjung (Alice) Lee**, Boston Children's Hospital / Harvard Medical School
New Innovator Award

Landscape and Mechanisms of Transposon-Associated Alternative Splicing

2:20 p.m. **Susan Rosenberg**, Baylor College of Medicine
Pioneer Award

The DAMPRs: Human DNA Damage-Ameliorating Proteins for Slowing Age-Related Diseases

2:40 p.m. **Stephen Fried**, Johns Hopkins University
New Innovator Award

Protein Folding in the AI Era: What's Left to Discover?

3:00 p.m. **Joseph Nadeau**, Maine Medical Center
Andrew Pospisilik, Van Andel Institute
Transformative Research Award

The Non-Genetic Non-Environmental Origins of the Missing 50% of Disease Risk

3:20 p.m. **BREAK**

Session 5

3:40 p.m. **Steven Jonas**, University of California, Los Angeles
Early Independence Award

Lipid Nanoparticle-Based Delivery of CRISPR/Cas9 Machinery Enables Site-Specific Integration of CFTR and Mutation-Agnostic Disease Rescue

4:00 p.m. **Summer Thyme**, UMass Chan Medical School
New Innovator Award

Using Zebrafish to Study Neurodevelopmental Disorders and Discover Treatments

4:20 p.m. **Kafui Dzirasa**, Howard Hughes Medical Institute, Duke University
Pioneer Award

Precision Editing of Brain Circuits Using an Engineered Electrical Synapse

4:40 p.m. **Subhamoy Dasgupta**, Roswell Park Comprehensive Cancer Center
New Innovator Award

Metabolic Pathway in the Nucleus Controls Epigenetic Plasticity

5:00 p.m. **ADJOURNMENT**

Friday, March 6, 2026

Session 6

- 9:00 a.m. **Jia Niu**, Boston College
New Innovator Award
CRISPR-Hybrid: An Intracellular Directed Evolution Platform for Functional RNA Aptamers in Multiplexed Gene Regulation
- 9:20 a.m. **Ruaidhri Jackson**, Harvard Medical School
New Innovator Award
Discovery of Functional Chimeric mRNA Encoded Proteins in Mammalian Immunity
- 9:40 a.m. **Evgeny Kvon**, University of California, Irvine
New Innovator Award
Discovery of a Hidden DNA Element That Helps Switch on Genes from Afar
- 10:00 a.m. **Ksenia Krasileva**, University of California, Berkeley
New Innovator Award
Cross Kingdom Health: Evolutionary Innovations in Innate Immunity
- 10:20 a.m. **BREAK**
- 10:35 a.m. **Lei Stanley Qi**, Stanford University
Pioneer Award
Optogenetic RNA Relocalization Reveals Causal Pathological Drivers of Neural Function in Vivo
- 10:55 a.m. **Qun Lu**, University of South Carolina
Transformative Research Award
Small Molecule Homeostatic Modulation of Neurodegenerative Diseases
- 11:15 a.m. **Katherine Susa**, University of California, San Francisco
Early Independence Award
Structural Basis for Regulation of Frizzled-4 Signaling by the Co-Receptor Tetraspanin-12
- 11:35 a.m. **Thomas Longden**, University of Maryland, Baltimore
New Innovator Award
Vascular Signaling Plasticity Reprograms Brain Hemodynamics to Optimize Learning
- 11:55 a.m. **CLOSING REMARKS**

Poster Sessions



POSTER SESSION 1: Thursday, 10:45 – 11:45a.m.

Poster Number 1

Nicole DelRosso, University of California, San Francisco

Novel High-Throughput Approaches to Discover and Dissect Human Transcriptional Protein Interactions

Poster Number 3

Aditya Raguram, Whitehead Institute for Biomedical Research

Leveraging Engineered Cell-Derived Bioparticles for Protein and RNA Delivery

Poster Number 5

Violeta Rodriguez, University of Illinois, Urbana Champaign

Identifying Parenting Dimensions Through Structural Topic Modeling and Network Analysis

Poster Number 7

Janet Sorrells, Washington University, St. Louis

Observing Subcellular Metabolic Dynamics with Computationally-Accelerated Nonlinear Optical Microscopy

Poster Number 9

Mary Willis, Boston University School of Public Health

A Preconception Cohort Study of Oil and Gas Development and Adverse Pregnancy Outcomes

Poster Number 11

Farshid Alambeigi, The University of Texas at Austin

Robotic in Vivo Bioprinting for Conformal Volumetric Muscle Loss Repair

Poster Number 13

Danielle Arigo, Rowan University

Mapping the Mechanisms Linking Social Comparison to Health Behavior: An Intermediate 4-Study Series

Poster Number 15

Benjamin Bartelle, Arizona State University

Molecular Tools to Resolve Neuroimmune Signaling

Poster Number 17

Nick Burton, Van Andel Institute

Pyruvate Dehydrogenase Activity in Bacteria Antagonizes Insulin Signaling Dependent Phenotypes in a Model Animal

Poster Number 19

Xing Chen, University of Pittsburgh

Characteristics of Stimulation-Induced After-Discharges in the Visual Cortex

Poster Number 21

Kyle Cromer, University of California, San Francisco

Multiplex Base Editing Enhances Fetal Hemoglobin Production in Sickle Cell Disease Erythroid Cells

Poster Number 23

Kyle Daniels, Stanford University School of Medicine

Engineering Enhanced Immune Cells for a Synthetic Immune System

Poster Number 25

Maya Kasowski, Stanford University

Peanut Allergy Oral Immunotherapy Drives Single-Cell Multi-Omic Changes in Peanut-Reactive T Cells Associated with Sustained Unresponsiveness

Poster Number 27

Changyang Linghu, University of Michigan

Scalable and Multiplexed Continuous Recording of Gene Regulation Dynamics Over Weeks

Poster Number 29

Silvia Mangia, University of Minnesota

Obtaining Brain pCO₂, pH and pO₂ Maps via Measurements of Neurovascular Coupling: A Novel Non-invasive Approach to Identify the Culprits of Loss of Brain Function in Aging and Disease

Poster Number 31

Gregory Newby, Johns Hopkins University

Base Editing and Prime Editing to Correct Genetic Disease

Poster Number 33

Jia Niu, Boston College

CRISPR-Hybrid: An Intracellular Directed Evolution Platform for Functional RNA Aptamers in Multiplexed Gene Regulation

Poster Number 35

Danielle Schmitt, University of California, Los Angeles

Developing Genetically Encoded Biosensors for Acetyl-CoA Metabolism

Poster Number 37

Sihong Wang, The University of Chicago

Immunocompatible and Bioadhesive Polymer Bioelectronics for Implantable Sensors and Stimulators

Poster Number 39

Aaron Young, Georgia Tech

Deep Learning of Internal Physiological States for Exoskeleton Control in Stroke Gait

Poster Number 41

Nuo Li, Duke University

Brainstem Coordination of Drinking with Respiration

Poster Number 43

Terrence Sejnowski, Salk institute

Brains and AI

Poster Number 45

Julien Berro, Yale University

Genetically Encoded Mechano-Sensors with Versatile Readouts and Compact Size

Poster Number 47

Bianxiao Cui, [Stanford University](#)

Curvature-Induced Src Activation Promotes Cancer Cell Survival and Metastasis

Poster Number 49

Isha Jain, [Gladstone Institutes](#)

Nutritional Genomics Uncovers Vitamin B3 Therapy as Curative for NAXD Disease

Poster Number 51

Rong Lu, [University of Southern California](#)

Spatiomolecular Mapping of Dynamic and Coordinated Signaling Interactions in Bone Marrow Hematopoiesis

Poster Number 53

Hanna Stevens, [University of Iowa](#)

Brain-Wide Network Plasticity in Maternal Experience: From Pregnancy to Parenting

POSTER SESSION 2: Thursday, 1:00 – 2:00p.m.

Poster Number 2

Emily Presseller, [Dartmouth Geisel School of Medicine](#)

Rapid Innovation of Precision Psychiatry Digital Interventions Using Dynamical Systems Modeling and Ecological Quasi-Experiments

Poster Number 4

Shawn Rhoads, [Icahn School of Medicine at Mount Sinai](#)

Shared Neural Dynamics Underpin Social Belief Inference

Poster Number 6

Natasha Sheybani, [University of Virginia](#)

Immunoengineering Next-Generation Cancer Therapies with Focused Ultrasound

Poster Number 8

Leo Wang, [University of Pennsylvania](#)

Bioengineering Approaches to Promote Wound-induced Hair Neogenesis and Scarless Wound Healing

Poster Number 10

Shira Ziegler, [Johns Hopkins University School of Medicine](#)

Exploring Genetic Modifiers of Ectopic Calcification to Reveal Novel Therapeutic Targets

Poster Number 12

Kate Alexander, [Cold Spring Harbor Laboratory](#)

Uncovering What Regulates Nuclear Speckle Functions

Poster Number 14

Huan Bao, [University of Virginia](#)

DeFrND: Detergent-Free Reconstitution into Native Nanodiscs with Designer Membrane Scaffold Peptides

Poster Number 16

John Brooks, [Princeton University](#)

Epithelial Circadian Control of Antimicrobial Peptides Supports Metabolic Homeostasis

Poster Number 18

Xiaoyin Chen, [Allen Institute](#)

Barcoded Connectomics Reveals Conserved Wiring Rules Underlying Primate-Specific Circuits

Poster Number 20

Stacy Copp, University of California, Irvine

Novel NIR-LI Emitters for Deep Tissue Imaging Derived from DNA-Stabilized Silver Nanoclusters

Poster Number 22

Elizabeth Crouch, University of California, San Francisco

High-Resolution Pericyte Phenotyping in the Developing Brain

Poster Number 24

Maya Kaelberer, University of Arizona

A Neuropod Cell for All Seasons

Poster Number 26

Jessica Larsen, Clemson University

Delivery of Biologics Across the Blood-Brain Barrier

Poster Number 28

Cressida Madigan, University of California, San Diego

Mechanisms of Infection-Mediated Neurological Injuries

Poster Number 30

Maral Mousavi, University of Southern California

A Transformative Paradigm in Bio-Sensing: Engineering Bio-Orthogonal Fluorous Interfaces

Poster Number 32

Hadi Nia, Boston University

Crystal Ribcage: A Platform for Probing Real-Time Lung Mechanobiology and Mechano-Immunity at the Cellular Resolution in Health and Disease

Poster Number 34

Natalia Rodriguez, Purdue University

HPV Self-Sampling in Homeless Shelters: Improving Access to Cervical Cancer Screening for Women Experiencing Homelessness

Poster Number 36

Chao Wang, Arizona State University

Nanoparticle-Supported, Rapid, Electronic Detecting System for Accessible Infectious Diagnosis and Chronical Disease Screening

Poster Number 38

Xiao Yang, Johns Hopkins University

Bioinspired Electronics for Brain-Machine Interface

Poster Number 40

Jonathan Kao, University of California, Los Angeles

Brain-computer Interface Control with Artificial Intelligence Copilots

Poster Number 42

Tânia Reis, University of Colorado School of Medicine

Food for Thought: A Virus-Like Signal for Energetic Demands of Higher Cognitive Function

Poster Number 44

Johannes Schoeneberg, University of California, San Diego School of Medicine

Decoding 4D Mitochondrial Phenotypes via AI, Advanced Microscopy, and Whole-Cell Digital Twins

Poster Number 46

Faraz Bishehsari, McGovern Medical School at UTHealth Houston

Decoding Tumor-Specific Circadian Profiles for Personalized Chronotherapy in Cancer

Poster Number 48

Lizbeth Hedstrom, Brandeis University

Progress Toward Ubiquitin-Independent Targeted Protein Degradation

Poster Number 50

Sundeep Kalantry, University of Michigan

Evolution of Mammalian Dosage Compensation

Poster Number 52

Rodney Scott, Nemours Children's Hospital

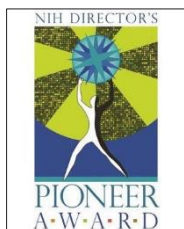
Convergent Hippocampal Neuronal Dynamics Across Multiple Diverse Diseases Associated with Learning and Memory Impairments

Poster Number 54

Aaron Wright, Baylor University

Selection and Characterization of Microbes Involved in Carbohydrate Metabolism and Mucin Degradation in the Gut Microbiome by Activity-Based Probes

2025 Awardees



NIH Director's Pioneer Awards

Ishmail Abdus-Saboor, Ph.D., Columbia University

Role of Social Touch and Social Memory in Organizing Naked Mole-Rat Colonies

Roberto Bonasio, Ph.D., University of Pennsylvania

Epigenetic Engrams in Planarians

Anne Brunet, Ph.D., Stanford University

Peripheral Nervous System Aging

Casey H. Halpern, M.D., University of Pennsylvania

Tuning the Anterior Cingulate from the Outside In: A New Way Forward for Treating Mental Health Disorders and Beyond

Kerwyn Casey Huang, Ph.D., Stanford University

Illuminating the Dark Matter of the Human Small Intestinal Microbiota

Jonathan Kao, Ph.D., University of California, Los Angeles

Restoring Complex Movement and Locomotion After Paralysis Through Collaborative Copilots

Tanja Kortemme, Ph.D., University of California, San Francisco

De Novo Design and Engineering of Biological Error Correction

Terrence Sejnowski, Ph.D., Salk Institute

Temporal Context in Brains and Transformers



NIH Director's New Innovator Awards

Katherine Alexander, Ph.D., Cold Spring Harbor Laboratory

Principles of Speckle-Based Gene Regulation

Julia Carnevale, M.D., University of California, San Francisco

Genetic Engineering of Myeloid Cells to Treat Cancer

Etienne Caron, Ph.D., Yale University

Building a Systems Immunopeptidomics Framework to Challenge the Current T Cell Activation Paradigm

Shuo Chen, Ph.D., New York University School of Medicine

Tailoring Nanocrystals as a Versatile Platform for Noninvasive Neuroengineering

**Co-funded with National Institute of Mental Health (NIMH)*

Kyle Cromer, Ph.D., University of California, San Francisco

Engineering Enhanced Erythropoiesis for Red Blood Cell Disorders

Kyle G. Daniels, Ph.D., Stanford University

Combinatorial Engineering of Multicellular Synthetic Immunotherapy Systems

Mark Draelos, M.D., Ph.D., University of Michigan at Ann Arbor

The Micro Made Macro: Microsurgery at Human Scales

Graham Erwin, Ph.D., Baylor College of Medicine

New Classes of Small, Cell Permeable Genome Regulators to Expand the Age of Genomic Medicine

Wilfredo F. Garcia-Beltran, M.D., Ph.D., Massachusetts General Hospital

Harnessing Natural Killer Cells for Cellular Immunotherapy Against Solid Tumors

Matthew Griffin, Ph.D., University of California, Irvine

Chemical Glycobiology Tools to Decipher Host-Microbiota Interactions

Ryoma Hattori, Ph.D., University of Florida

Neural Circuit Mechanisms that Support the Transformation of Sensory Inputs into Number Coding

Melanie Maya Kaelberer, Ph.D., University of Arizona

Unveiling the Guts Sensory Code: Implications for Food, Development, and Disease

Jessica Larsen, Ph.D., Clemson University

Transporting Stable RNA Across the Blood-Brain Barrier for On-Demand Translation

Richard Y. Liu, Ph.D., Harvard University

Organic Pseudometals to Sustain and Transform Small-Molecule Drug Synthesis

Michael P. Meers, Ph.D., Washington University

Time-Lapse Epigenome Profiling in Support of Next Generation Cellular Reprogramming

David Merrick, M.D., Ph.D., University of Pennsylvania

Optogenetic Engineering of Thermogenic Adipose Tissue as a Novel Cell Therapy for Obesity

Gregory Newby, Ph.D., Johns Hopkins University

Generalizing Genome Editing for Rare Disease-Causing Variants

Bridget Ostrem, M.D., Ph.D., University of California, San Francisco

Targeting Remyelination to Treat Preterm Brain Injury

Jacqueline A. Palmer, P.T., D.P.T., Ph.D., University of Minnesota

Neuroplasticity and Cerebral Blood Flow as Key Resilience Mechanisms in the Brains of Fast-Moving SuperAgers

Theodore Roth, M.D., Ph.D., Stanford University

Synthetic Cell State Engineering for Primary Human Cellular Therapies

David W. Sanders, Ph.D., UT Southwestern Medical Center

Disentangling Molecular Networks in RNA Homeostasis and Neuromuscular Diseases

Richard S Smith, Ph.D., Northwestern University at Chicago

Perinatal Brain Therapeutics: A High Throughput Biology Approach to Build Next Generation RNA Precision Medicines

Shang Song, Ph.D., University of Arizona

Response-Contingent Learning to Modulate Synaptic Plasticity for Spinal Cord Injury

Jonathan Strecker, Ph.D., Massachusetts General Hospital

Discovery and Characterization of Programmable Biological System

Helen Willsey, Ph.D., University of California, San Francisco

Pleiotropy of Autism-associated Chromatin Regulators

Min Yang, Ph.D., University of Washington

Learn from the Errors at the Start of Life: Dissect Cellular Fitness Through Dynamics of Chromosomal Instability in Embryogenesis

Meg Younger, Ph.D., Boston University

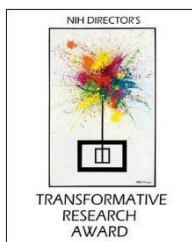
The Representation of Human Odor in the Mosquito Brain

Ellen D. Zhong, Ph.D., Princeton University

Algorithms and Software for Biomolecular Structure Determination at the Proteome Scale

Rachel K. Zwick, Ph.D., New York University School of Medicine

Small Intestinal Remodeling Across Pregnancy Cycles



NIH Director's Transformative Research Awards

Bianxiao Cui, Ph.D., [Stanford University](#)

Targeting Cancer Metastasis by Inhibiting Curvature-Induced Kinase Activation

Rainbo Hultman, Ph.D. & Hanna E. Stevens, M.D., Ph.D., [University of Iowa](#)

Networking the Parental Brain: Transformation of Brain-Wide Electrical Networks

Isha Jain, Ph.D., [Gladstone Institutes](#)

A Revitalized Framework for Vitamin Biology: New Sensors, Pathways, and Precision Therapies

Rodney Scott, M.D., Ph.D. & Matt Mahoney, Ph.D., [Nemours Children's Hospital, Delaware](#)

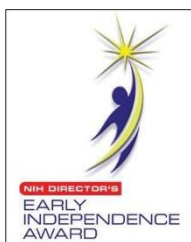
Restoring Cognitive Function Through Precision Neurostimulation: A Disease-Agnostic Approach Based on Convergent Hippocampal Dynamics

Ardem Patapoutian, Ph.D., Bosiljka Tasic, Ph.D., & Li Ye, Ph.D., [The Scripps Research Institute](#)

Building a Somatosensory Atlas for Interoception

Michael R. Williams, Ph.D. & Kimberly Ritola, Ph.D., [Henry Ford Health + Michigan State University Health Sciences](#)

I/O Tags: Genetically Encoded Tags for Trans-Neuronal Control Across Specific Synapse Classes



NIH Director's Early Independence Awards

Julia Bond, Ph.D., M.P.H., Boston University Medical Campus

Female Sexual Dysfunction and Distress in the Preconception and Perinatal Period

Nicole DelRosso, Ph.D., University of California, San Francisco

Novel High-Throughput Approaches to Discover and Dissect Human Transcriptional Protein Interactions

Lucie Guo, M.D., Ph.D., Stanford University

Building Precision Disease-Responsive Gene Therapy

Bill Jia, Ph.D., University of California, San Francisco

Decoding the Beat: Physiological Control Mechanisms for Robust Heart Development

Grant Jones, Ph.D., Massachusetts General Hospital

Examining the Effects of Naturalistic Hallucinogen Use on Internalizing Symptoms in a Longitudinal Sample of Young Adults

Yousuf A. Khan, Ph.D., M.S., M.Phil., Stanford University

Deciphering the Principles and Mechanism of RNA Structure

Matthew Kolar, M.D., Ph.D., University of California, San Diego

Chemoproteomics and Lipidomics for Identifying Dysregulated Enzymes and Lipids in Cutaneous Disorders

Emily Kelley Presseller, Ph.D., Drexel University

Rapid Innovation of Precision Psychiatry Interventions Using Dynamic Systems Modeling and Ecological Quasi-Experiments

Diana D. Shi, M.D., Massachusetts General Hospital

Molecular Mechanisms of Mutant IDH Inhibition and DNA Damage in IDH-Mutant Glioma

Janet Sorrells, Ph.D., Washington University

Illuminating the Spatial and Temporal Diversity of the Gastrointestinal Microbial Ecosystem with Label-Free Nonlinear Optical Microscopy

Elizabeth Traxler, M.D., Ph.D., University of Pennsylvania

Decoding Lineage-Specific Gene Regulation Across Hematopoiesis

Leo L. Wang, M.D., Ph.D., University of Pennsylvania

Multicomponent Hydrogels Activating Wound-Induced Hair Neogenesis for Scarless Wound Healing

Andrew Lee Young, M.D., Ph.D., Washington University

Understanding the Impact of Clonal Hematopoiesis on Aging Human Bone Marrow

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