By ensuring steady and sustainable annual increases to the

budget for the National Institutes of Health, Congress can

save and improve lives, advance innovation and fuel the economy.

When we invest in the NIH, we are investing in the knowledge and discoveries that will

Here are some other reasons why Congress must act to #keepNIHstrong.

improve health and cure disease and we are investing in PEOPLE — people who will go on to

be physicians, scientists, entrepreneurs, researchers and educators, helping to develop the

next generation of researchers and maintain America's leadership in biomedical innovation.

**Featured** O Anthony J. Baucum II • PhD

Indiana University

O Deanna Barch • PhD Washington University in St. Louis

O Sadiya Khan • MD, MSc Northwestern University

Adam Berger

MD-PhD student

O Megan Zuelsdorff • PhD University of Wisconsin-Madison

MIT and Harvard University

O Bonnielin Swenor • PhD, MPH Johns Hopkins University

O Deblina Sarkar • PhD

University of Maryland

O Brad Grueter • PhD Vanderbilt University

O Nicole Putnam • PhD



Researching the brain to better understand addiction, and engaging underrepresented minority students in the study of neuroscience



Helping to build the body of research on brain development and health, and training the next generation of scientists focusing on mental health



**Providing clinical** care and contributing to NIH's national **HeartShare study** 



outcomes for patients with diabetic ulcers



Alzheimer's disease and ensuring diverse communities are included in dementia research



paradigm of how disability is viewed in clinical and research settings



of medical technologies

biology to push the frontiers





Meet some of the people whose careers were shaped through NIH research and who are helping to launch the careers of others.

#### Anthony J. Baucum II • PhD **Associate Professor of Pharmacology and Toxicology**

**Indiana University School of Medicine** 

Indianapolis, IN

research laboratory that focuses on understanding how the brain works and how specific molecules within the brain control motor function, learning, and behaviors. I am also part of a faculty team at Indiana University-Purdue University Indianapolis with an NIH grant to run a program designed to increase the diversity of neuroscience scholars at the predoctoral, postdoctoral, and (ultimately) faculty levels — the Neuroscience Experience and Undergraduate Research Opportunities Program (NEUROP).

I am the principal investigator currently running a

This includes a training grant (T32) during my postdoctoral studies at Vanderbilt University School of Medicine that strengthened my interests and training in neurogenomics; a research career development award (K01) that aided in my transition to my first faculty position in the Department of Biology at Indiana University-Purdue University Indianapolis; and a research award (R21/R33) from the National Institute on Drug Abuse within the NIH that allowed me to generate new tools to further understand the function of a specific molecule within the brain that my laboratory works on.

The NIH has been critical at all stages of my career.

Learn more about Dr. Baucum and NEUROP.

## **Deanna Barch** • PhD

Professor and Chair of the Department of Psychological & Brain Sciences in Arts & Sciences Gregory B. Couch Professor of Psychiatry and Professor of Radiology in the School of Medicine **Washington University in St. Louis** 

Member, National Academy of Medicine St. Louis, MO

My goal is to better understand the development and longitudinal change in brain structure and function that support cognitive and affective function across the lifespan in both health and disease. To do this, my research focuses on the developmental interplay among cognition, emotion and brain function.

research and training grants, allowing me to support the development of the next generation of scientists addressing the most pressing problems in human health and wellbeing. NIH funding has helped me to train 100s of undergraduate and graduate students; postdoctoral fellows; and early career faculty whose work is focused on preventing and treating mental health challenges over a person's lifetime.

The NIH has been enormously helpful in funding

Learn more about Dr. Barch and recent research on adolescent brain cognitive development and suicidal thoughts in young people.

## Assistant Professor of Medicine (Cardiology) and Preventive Medicine (Epidemiology),

Sadiya Khan • MD, MSc

**Northwestern University Feinberg School of Medicine** Board Certified Physician of Cardiovascular Disease and Internal Medicine, Northwestern Medicine

Chicago, IL

the epidemiology of and risk for heart failure with the goal of translating research into clinical practice to improve cardiovascular outcomes and care on an individual and population level. I am a proud recipient of the Multidisciplinary Career

As a practicing cardiologist, my laboratory examines

Development Program, a NIH/NCATS-sponsored career development award (KL2) supporting earlycareer faculty at Northwestern, which enables

translating research findings into clinical practice. I additionally lead one of six clinical centers in a new NIH-funded study on patients with the most common type of heart failure, diastolic heart failure. The goal of the HeartShare study aims to create and monitor a cohort of patients across the United States with the disease to better understand it and ultimately, identify better treatment options.

my work as a physician-scientist committed to

Learn more about **Dr. Khan** and the **HeartShare** study.

#### **Adam Berger MD-PhD Student**

Massachusetts Institute of Technology and Harvard Medical School

Cambridge, MA

wounds are often unable to regenerate damaged tissue, leading to downstream complications and high rates of wounds reopening. My work aims to explore drug carriers for gene therapies that can promote tissue healing and regeneration.

Current treatments for non-healing diabetic

an NIH-funded lab and been awarded my own NIH fellowship (F30). These funds, particularly my NIH fellowship, have empowered me to craft and execute a well-tailored training plan to enable my success in becoming an independent physician-scientist and to accelerate solutions to a critical health problem.

During my time in graduate school, I have worked in

Learn more about Adam Berger and his passion for service.

### Megan Zuelsdorff • PhD Assistant Professor School of Nursing, University of Wisconsin-Madison

Madison, WI

modifiable sources of dementia risk and resilience. Specifically, I explore different aspects of our social environments — such as the challenges and stresses we have faced, as well as our connections with family, friends, and community resources and the role they play in shaping cognitive and brain health as we age.

I am an epidemiologist committed to illuminating

tribal partners and expanding my work to ensure that we're hearing the voices and representing the experiences of diverse communities across the state.

With NIH funding I am working with Wisconsin

Learn more about Dr. Zuelsdorff and the Wisconsin Alzheimer's Disease Research Center.

#### Associate Professor of Ophthalmology, Johns Hopkins University Director of the Johns Hopkins University Disability Health Research Center Baltimore, MD

Bonnielin Swenor • PhD, MPH

I am a recipient of an NIH Career Development Motivated by my personal experience with vision

vision and aging, access to care and disability inclusion. I am also very focused on making careers in research more accessible to people to people with disabilities. Learn more about **Dr. Swenor** and her efforts to make careers in research more accessible to people with disabilities.

approach to addressing health inequities for people

impairment, my research takes a data-driven

with disabilities. My work has centered around

NIH grant funding. I also have a two-year conference grant from NIH to develop best practices for making scientific and medical conferences accessible for individuals who are blind or have low vision.

Award (K01) from the National Institute on Aging,

and my research is currently supported by additional

**Deblina Sarkar** • PhD

# Cambridge, MA

remotely monitor health and detect diseases at an

early stage. The devices are wireless and coated

with biomolecules such that they can effectively

I make subcellular sized nanoelectronics that can be placed in the body to, for example, map neurons in the brain, modulate them for therapeutics,

**Massachusetts Institute of Technology** 

**Assistant Professor** 

Baltimore, MD

Nashville, TN

camouflage and trick the body into thinking that it is a part of its own biological system enabling a seamless nanomachine-bio hybrid. Learn more about Dr. Sarkar and her inventions.

research group. NIH makes my research possible!

NIH plays a critical role in my career, not the

least of which is the support I received from NIH

as a postdoc at MIT (K99) and the Pathway to

Independence Award (R00) to start my own

Nicole Putnam • PhD Assistant Professor of Pathology, University of Maryland School of Medicine

## I am part of the leadership team that oversees

teaching of residents and fellows while pursuing

My training in microbiology and immunology research clinical microbiology diagnostic testing for the was conducted in NIH-funded labs for my master's University of Maryland hospital system. This and doctorate degrees. I was granted an individual involves interpreting test results for the diagnosis pre-doctoral NIH Research Service Award (F31) that of infectious diseases. Academically, I assist with funded the last two years in my Ph.D. program. Also,

Assistant Director of Clinical Microbiology, University of Maryland Medical Center

research to advance diagnostic technology and clinical knowledge within microbiology.

Learn more about **Dr. Putnam** and the **ASPIRE** program. **Brad Grueter** • PhD **Assistant Professor of Anesthesiology** 

**Vanderbilt University Medical Center** 

My research program investigates the molecular and neural network mechanisms underlying motivation-to-

action behavior. The fundamental knowledge gained by our research seeks to help reduce the burden of neuropsychiatric diseases including substance use

disorders and major depressive disorder. My 20+ year career in science has been funded by the NIH, specifically the National Institute on Drug Abuse (NIDA). I have personally been funded by NIDA continuously from a postdoctoral National Research Service Award, Pathway to Independence Award (K99/R00) and a recently renewed research project grant (R01). Thus, funding for the NIH has been instrumental in my career as a neurobiologist.

my professional goal of pursuing clinical microbiology

was supported by the ASPIRE Program at Vanderbilt

University through the NIH Broadening Experiences in

Scientific Training (BEST) grant.

and undergraduate students.

NIH funding also has supported the next generation

of scientists training in my lab including graduate

Learn more about Dr. Grueter.

**Developing the Next** 

**Generation of Researchers** 

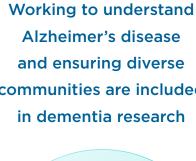
NIH-supported research is advancing our knowledge and developing the next generation of researchers.

**Making Amazing** 

**Things Possible** 











infectious diseases

depressive disorders

to COVID-19

Reducing the Human &

**Economic Toll of Disease**