



Brain Resilience Across the Lifespan

Krieger School of Arts and Sciences | School of Medicine | Whiting School of Engineering

LEADS:

Richard Huganir, *Bloomberg Distinguished Professor of Neuroscience & Brain Sciences, Director Solomon H. Snyder Department of Neuroscience*
Patricia Janak, *Bloomberg Distinguished Professor of Associative Learning and Addiction*

RECRUITING:

6 Bloomberg Distinguished Professors
6 junior faculty

ABOUT THE CLUSTER

New discoveries and knowledge about the human brain have provided researchers unprecedented opportunities to develop effective strategies to enhance and preserve brain function. This cluster will study brain resilience across the entire human lifespan and develop novel tools for observing and manipulating brain function on broad spatial and temporal scales.

Cluster research focus areas may include:

- **Neuroengineering:** Develop tools to better measure and manipulate brain function
- **Mechanisms of Brain Plasticity:** Discover the basic mechanisms of brain plasticity that underlie cognition and cognitive resilience
- **Development of Cognition:** Study the development of cognition and how stress and the environment impact cognition
- **Critical Periods of Plasticity:** Discover the mechanisms that define critical periods of learning across the lifespan
- **Genetics of Cognition:** Discover the genes that effect cognitive development and how mutations in these genes impact cognition
- **Ageing and Cognition:** Study the impact of aging on cognitive decline and cognitive resilience

Team members in this cluster will work within JHU's unique collaborative culture and receive additional administrative and financial support to ensure their interdisciplinary research is truly impactful and world-changing.



The Bloomberg Distinguished Professorships (BDP) Cluster Initiative at Johns Hopkins University is part of an ambitious investment in interdisciplinary research to bridge academic disciplines and open novel fields of inquiry to tackle society's most complex problems. Recruiting 130 researchers and scholars, the BDP program was established in 2013 and expanded in 2021 and 2023 with gifts from Michael R. Bloomberg, JHU alumnus and 108th mayor of New York City. Many of these positions are dedicated to the Cluster Initiative to recruit scholars and innovators who will draw on each other's unique strengths to make meaningful impact and generate solutions.

WANT TO LEARN MORE?

We have more detail on this cluster available on our website. You can also sign up for updates on future positions, news, and more.

research.jhu.edu/clusters

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