



**OSR** | OFFICE OF SCIENCE  
& RESEARCH

# 2024

END OF YEAR  
**REVIEW**



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# WELCOME, NEW FACULTY

**Jeremy R. Beitler, MD, MPH**

Associate Professor  
Medicine

**Anoma Nellore, MD**

Associate Professor  
Medicine

**Nadav Brandes, PhD**

Assistant Professor,  
Center for Human Genetics and Genomics

**Lynn Petukhova, PhD**

Assistant Professor  
Ronald O. Perelman Department of Dermatology

**Shridar Ganesan, MD, PhD**

Professor  
Perlmutter Cancer Center

**Nicholas Reed, PhD**

Assistant Professor  
Otolaryngology-Head and Neck Surgery

**Marcus Goncalves, MD, PhD**

Associate Professor  
Medicine

**Jonathan So, MD, PhD**

Assistant Professor  
Radiation Oncology

**Michal Melamed, MD**

Professor  
Medicine

**Meiling Ying, PhD**

Assistant Professor  
Foundations of Medicine

**Alexandra Miller, MD, PhD**

Associate Professor  
Perlmutter Cancer Center

**Rachel Zwick, PhD**

Assistant Professor  
Cell Biology

**Megan Morris, PhD**

Associate Professor  
Rehabilitation Medicine

# LEADERSHIP AND VISION:

## Newly Appointed NYU Langone Chairs



**Benjamin tenOever, PhD**  
Chair, Department of Microbiology

"The Department of Microbiology covers a diverse range of research areas, including bacteriology, virology, immunology, and parasitology, and has made some of the most transformative discoveries in the world, including one of the most successful licensed anti-inflammatory therapeutics in clinical use.

My vision is to build on these strengths while expanding the Department's scope into emerging areas that address other critical needs in the field. This will involve developing novel strategies to harness the immune system to combat disease, enhancing therapeutics, diagnostics, and surveillance for infectious diseases, and creating innovative vectors for biological delivery—an area central to my own research.

My ultimate goal is to foster a dynamic and inclusive community dedicated to advancing medicine and training the next generation of microbiologists, with the support of our outstanding existing faculty, the recruitment of new members, and the backing of the school's leadership."

**Lorna Thorpe, MPH, PhD**  
Chair, Department of Population Health



"In the Department of Population Health, we develop and test real-world solutions to improve the health of populations in partnership with healthcare systems, payers, communities, and policymakers. We investigate relationships at the intersection of health and nonmedical factors to improve health on a broad scale.

I began as Chair in March 2024, and my vision is to invest in the department's many areas of strength—including our innovative methods, strong partnerships, and our expertise in leading large national-scale research initiatives—while also growing in three key areas:

- First, we will foster translation of scientific discoveries into everyday clinical practice, bolstering our reputation as the nation's leading learning healthcare system.
- Second, we will deepen our research on the impacts of healthcare policy on health and models to address health-related social needs—informing policy at the local, state and national levels.
- Third, we will expand research in priority areas, such as maternal and women's health and the impact of climate on health.

It's a privilege and joy to lead this department and support the great work of so many faculty and staff."

# — Behind the Breakthrough —

NYU Langone Researchers Tell Their Stories in a New Video Series

Behind every groundbreaking discovery is a scientist whose personal journey, shaped by life's myriad experiences, led them to this moment of insight. This year a new video series launched that gives our investigators the opportunity to explain how their personal histories shape their research.



The inaugural episode features virologist **Benjamin tenOever, PhD**, chair of the Department of Microbiology, who explains what motivates his passion to deepen our understanding of how SARS-CoV-2 impacts the body's vital functions and his commitment to developing more effective treatments.

The second episode showcases the groundbreaking work of developmental neuroscientist **Moriah Thomason, PhD**, vice chair of research in the Department of Child and Adolescent Psychiatry and program director for the Neurodevelopmental Early Childhood Research Program, a leader in the emerging field of fetal brain imaging.



The third episode highlights **Shane Liddelow, PhD**, associate professor in the Department of Neuroscience and Physiology and his pioneering work developing of the first-ever therapies to target diseased astrocytes—a revolutionary approach with the potential to treat a wide range of neurological disorders.



[Watch the video series!](#)





## From the desk of **Ryan Branski, PhD**

Director of Research Faculty Development

I joined the faculty in 2010, and since then, have the unique distinction of serving as Vice Chair for Research in two different departments (Rehabilitation Medicine and Otolaryngology- Head and Neck Surgery). I also teach Grant Writing with Dr. Stu Katz and serve as founding Co-Director of the K to Independence program in the Clinical and Translational Science Institute with Dr. Aasma Shaukat. In December 2023, I was appointed director of research faculty development in the Office of Science and Research.

We set out to provide operational support for our faculty with a particular emphasis on new hires. Over the years, I've had the privilege to work with many faculty across the institution. I'm always surprised to hear our faculty aren't aware of the many resources available at NYU Langone to support our success. I saw a huge opportunity to increase awareness, and in parallel, engage with faculty to identify areas for OSR to improve faculty support.

Acutely, we targeted two key initiatives. In October, we held our first research faculty orientation program, **Breaking Ground**, and the response was overwhelming. In tandem, we developed the Research Faculty Resource Guide to provide a document that contained key information for faculty, but most importantly, contact information for faculty to seek assistance, if needed.

I seek to encourage our culture of exceptionalism. Our rapid growth combined with the pandemic increased academic

isolationism. Our faculty are truly amazing—incredible people doing impactful work. We launched **Common Ground** in 2023 to enhance our sense of community and highlight newly hired investigators. Common Ground provides new faculty members an opportunity to present their research and has served as an incubator for several collaborative projects, which is a real source of pride. It's a great opportunity to learn about the amazing work our colleagues are doing, socialize, and grab a great cup of coffee (we bring in a mobile barista service to caffeinate discussions).

In addition to these initiatives, I continue to meet with faculty, administrators, and leaders regularly. I also run a research program in both laboratory and patient-oriented research. I am faculty, helping other faculty. My office is in the Science Building and my door is always open.

When I'm not working, my wife and I enjoy traveling to watch our son play college lacrosse.



# Hitting the Ground Running

○ New Faculty Initiatives ○

## Common Ground

12

Faculty

5

Minutes

2

Events  
per year

Coming  
February 2025



Coming  
Spring 2025



## BREAKING GROUND

Getting Started as an NYU Langone Researcher

90

Minutes

8

Key  
Topics

2

Events  
per year

## Research Faculty Resource Guide

Check out the [Research Faculty Resource Guide](#) for useful resources and key contacts for conducting your research at NYU Langone! If you would like a physical copy, contact [Dr. Branski](#)!



# Research Digital Experience

## Research Navigator (RNav)

The Office of Science and Research and Research MCIT have implemented several upgrades in [RNav](#):



Agreements



IACUC



My Studies



AOPS



IBC Safety



PCC Protocol Review  
and Monitoring



Grants



IRB



iConnect Integration

## High Performance Computing (HPC) Core

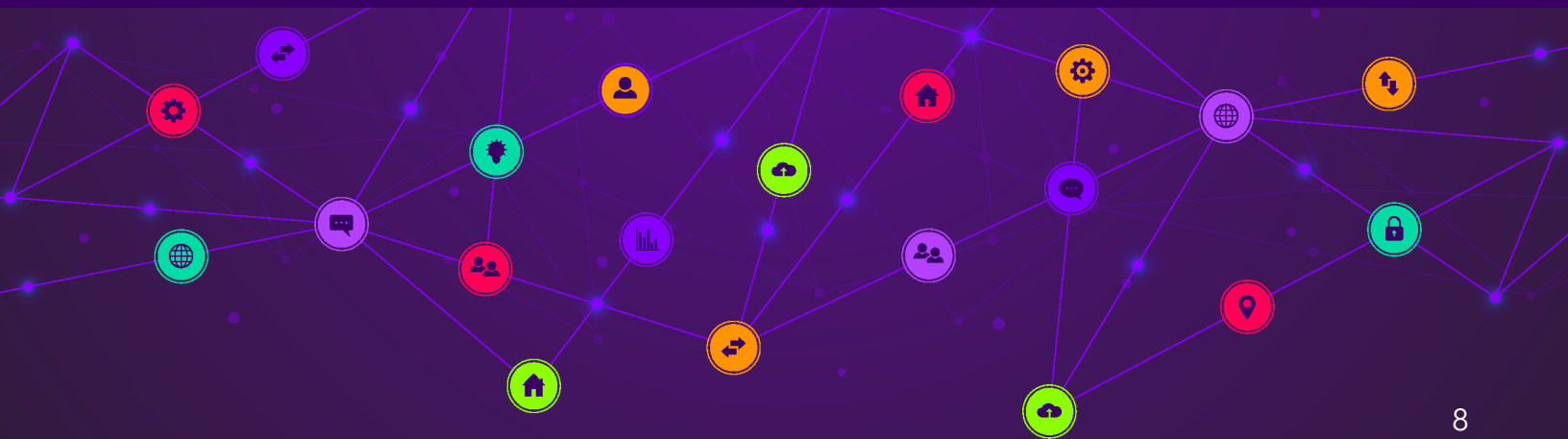
[HPC](#) is NYU Langone's central resource for performing computational research at scale and analyzing big data. Recent enhancements were made to accelerate the training of AI, Machine Learning, and Large Language Models.

- **193<sup>rd</sup>** fastest supercomputer on the **HPC top500** list
- **5.56 petaflops** per second performance
- Only system on the list dedicated wholly to the life sciences



## Data Hubs

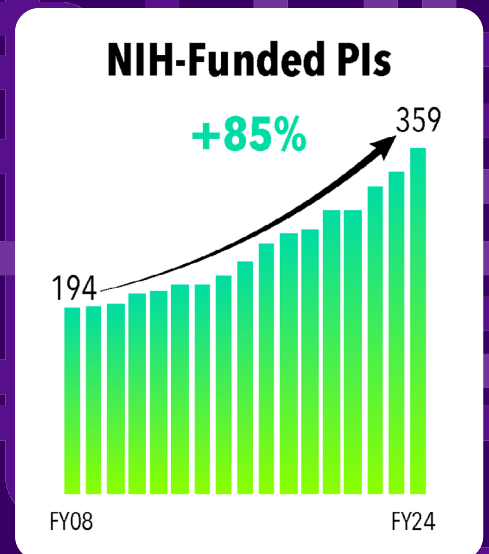
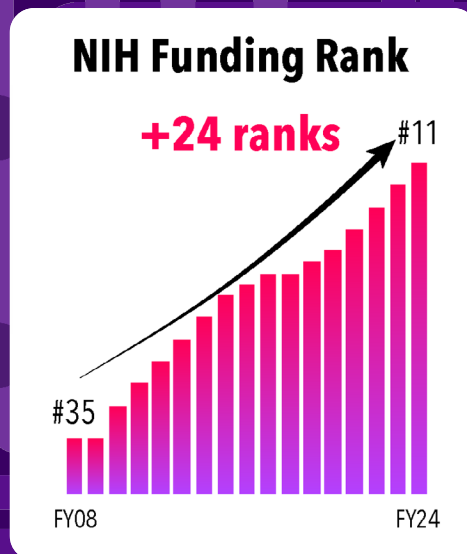
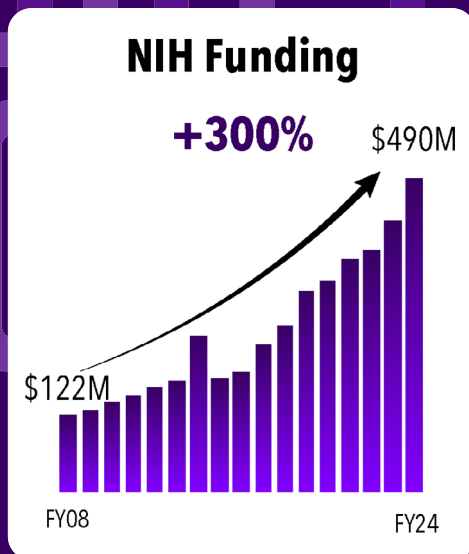
Our data ecosystem is a network of specially configured data hubs that provide data services to a specific area. The research data hub program now includes 14 active hubs with 6 more in development. MCIT recently developed a "data steward" program to formalize the responsibilities of those given access to enterprise data sets.





# BY THE NUMBERS

## NIH Funding



**>4,800 PAPERS PUBLISHED**  
BY NYU LANGONE RESEARCHERS

## VILCEK VICTORIES

**1,940**  
**COMPLETE APPLICATIONS**  
FOR THE PHD PROGRAM  
(UP 45% FROM 2022)

**58** THESIS DEFENSES  
**VILCEK INSTITUTE**  
OF GRADUATE BIOMEDICAL SCIENCES

**35** STUDENTS WITH  
F30 & F31 GRANTS

## FIRST STOP: Research Depot

You may have noticed that the Office of Science and Research has a new look! We invite you to start your research journey at [Research Depot!](#)

Navigate through the teams, tools, and resources available to help you conduct your research, now helpfully arranged by function rather than unit.

SETTING UP & MAINTAINING  
YOUR RESEARCH



FINDING  
FUNDING



AWARD SETUP  
& MANAGEMENT



BASIC  
RESEARCH



EDUCATION



CONDUCTING  
YOUR RESEARCH



DEVELOPING & SUBMITTING  
YOUR PROPOSAL



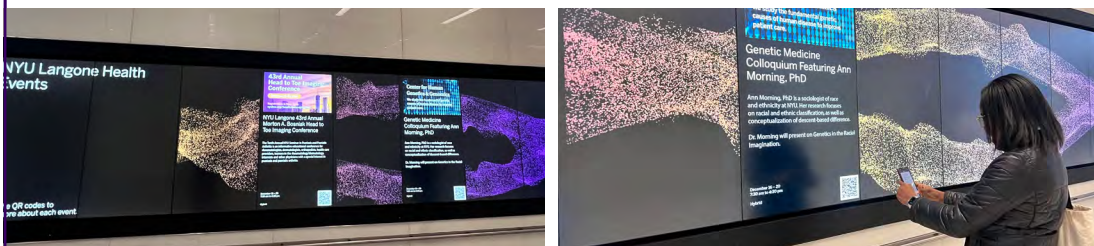
CLINICAL  
RESEARCH



COMMERCIALIZING  
YOUR RESEARCH



## Digital Signage



Submit your events to be listed on the Science Building and Alumni Hall Media Walls by emailing [OSRCommunications@nyulangone.org](mailto:OSRCommunications@nyulangone.org)!

## OSR Concierge

Have a question about your research or the website? Email the OSR Concierge at [osrcommunications@nyulangone.org](mailto:osrcommunications@nyulangone.org)! We are here to help in any capacity so you can focus on your research!