Undergraduate Summer Research Program in Single-Cell Genomics

The Center for Integrated Cellular Analysis invites undergraduate students interested in biology, computational biology, and genomics to participate in our 2022 Undergraduate Summer Research Program. Our center develops DNA sequencing technologies to analyze single cells, a field known as single cell genomics, and applies them to better understand development, cancer, and neurodegenerative disease. Our laboratories are based at multiple institutions across New York City, including the New York Genome Center (NYGC).

Research areas

Satija lab

New York Genome Center/ New York University

Computational analysis for single-cell genomics

Tosches lab

Columbia University

Developmental & evolutionary neurobiology

Landau lab

New York Genome Center/ Weill Cornell School of Medicine

Cancer genomics & evolutionary dynamics

Cao lab

The Rockefeller University

Technology development for single-cell genomics

Phatnani lab

New York Genome Center/ Columbia University

Genomics of neurodegenerative diseases

Rabadan lab

Columbia University

Mathematical genomics

Shah lab

Memorial Sloan Kettering Cancer Center

Cancer evolution, single-cell genomics and transcriptomics

Olah lab

Columbia University

Translational & computational neuroimmunology

- Learn to design and perform single-cell sequencing experiments
- Receive introductory training in R and python programming languages
- Discover new imaging and sequencing-based technologies
- Perform data analysis and interpretation

Program highlights

- 8-week hands-on research
- Work with a mentor to develop a research project
- Attend lab meetings & journal clubs
- Career counseling & mentoring
- Highly competitive stipend

Who are we looking for?

- Students with strong interest in Biology, Genomics or Computational Biology.
- Students from groups traditionally underrepresented in STEM fields
- Students interested in entering an MS or PhD program in Biology, Genomics or Computational Biology.

Application website: www.multimodalintegration.org/usrp

Program dates: June 6 - July 29, 2022 Application deadline: February 1, 2022 Questions? Contact us: cegs.ica.internship@gmail.com

