



EMORY

WOODRUFF
HEALTH
SCIENCES
CENTER

10X Single Cell Sequencing Seed Grant Funding

Request for Proposals
Fall 2019

September 19, 2019

Dear Woodruff Health Sciences Center Colleagues:

As part of the Innovative Discovery component of the [FY18-22 strategic plan](#), the Woodruff Health Sciences Center (WHSC) of Emory University is pleased to announce a pilot research fund program for early-career investigators to use new single cell sequencing technology platforms.

Background

In 2018, WHSC acquired two 10X Chromium Controller instruments that enable the rapid generation of massively parallel encapsulated sequencing libraries that enable single cell sequencing. One instrument is located in the Emory Integrated Genomics Core on Emory's main campus and the second is located at the Yerkes Nonhuman Primate Genomics Core. This state-of-the-art technology provides WHSC investigators the ability to analyze the expression of thousands of genes in single cells, allowing them to identify new cell types and functions that have previously been unrecognized. The 10X platform decreases sequencing costs per cell and allows the analysis of thousands of cells in a single run to accurately analyze gene expression in cell populations from experimental samples.

WHSC will support up to five (5) early-career investigators with funding of \$5,000 each for sequencing costs, with an expectation that these funds will be matched by \$5,000 from other sources (e.g., junior faculty startup or departmental funds).

Eligibility

Investigators at the instructor, research associate, and assistant professor levels (or their equivalents) with a primary appointment in WHSC (School of Medicine, Nell Hodgson Woodruff School of Nursing, Rollins School of Public Health, Yerkes National Primate Research Center) are invited to apply.

Submission Process

The proposal must contain the following items, in order, attached as a single PDF:

- A letter of support from investigator's department chair (or equivalent), including the source of the \$5,000 in matching funding. The letter should be addressed to Jonathan S. Lewin, MD, Executive Director, Woodruff Health Sciences Center, and David S. Stephens, MD, Vice President for Research, Woodruff Health Sciences Center.
- A description of the project, not to exceed three (3) pages, which will include:
 - Background, Significance, and Hypothesis
 - Expected impact of the project, including what future work and funding would be enabled by obtaining preliminary data
- A National Institutes of Health-style [biosketch](#) for the investigator that includes all current and pending support from all sponsored and non-sponsored sources. Each biosketch is limited to five (5) pages.

Reporting and Citation Requirements

Return on investment will be tracked. Awardees are required to submit notification to the WHSC Innovative Discovery Steering Committee via email to innovative.discovery@emory.edu all on all products (external funding, publications, patents, presentations, etc.) resulting from this award. Awardees are also required to cite institutional support of the Emory WHSC on all products resulting from this award.

Timeline

Submissions must be received by no later than Monday, October 14 at 5:00 p.m. via e-mail to innovative.discovery@emory.edu. Awardees will be notified in late October 2019, and funds must be utilized prior to the end of the fiscal year on August 31, 2020.

Contact Information

Please contact Ashley Freeman at innovative.discovery@emory.edu for questions about the proposal or eligibility. For any technical questions about the sequencing platforms, contact Steven Bosinger, PhD, at steven.bosinger@emory.edu (Yerkes) or Lyra Griffiths, PhD at lyra.maria.griffiths@emory.edu (Emory Integrated Genomics Core).

I look forward to seeing your innovative and collaborative ideas.

Best,



Jonathan S. Lewin, MD, FACR
Executive Vice President for Health Affairs, Emory University
Executive Director, Robert W. Woodruff Health Sciences Center
President, CEO, and Chairman of the Board, Emory Healthcare