Computational Research Assistant/Specialist
Laboratory of Chemical Immunology and Proteomics

The Rockefeller University is the world's leading biomedical research University. Our groundbreaking discoveries in basic and clinical research are transforming medicine. We share a singular commitment to advancing science for the benefit of humanity. Our collaborative culture drives each of us to achieve a higher level, fueling the breakthroughs for which we are known.

We seek a Computational Research Assistant/Research Specialist to join the newly established Laboratory of Chemical Immunology and Proteomics. This role will have a significant impact on the long-term design and culture of the Laboratory and will have evolving responsibilities. As a founding member of the laboratory, you will have an opportunity to work directly with the Head of the Laboratory establishing both the organization and culture of the Laboratory and will have extensive opportunities to gain new skills through interactions with colleagues and collaborators in other labs.

Responsibilities

- During the full length of the appointment, the candidate will work closely with the Head of the Laboratory and other lab members with an overall objective of facilitating proteomics workflows and production of high-quality data.
- In particular, the candidate will support general laboratory operations through augmentation and development of data processing workflows for large proteomics datasets, development and application of data analysis and visualization tools, including integrative analyses of omics data;
- Generation of a web-based data portal for large proteomics dataset storage, searching and visualization;
- During the lab set up phase you will help set-up equipment, order and receive reagents, help to establish and maintain lab organization and perform experiments to validate cell lines, reagents, equipment and mass-spectrometry procedures;
- After initial setup, you will work with the Head of Laboratory, graduate students and postdocs on lab work including tissue culture, flow cytometry, mass-spectrometry, and standard molecular biology to support ongoing projects;
- You will have the opportunity to develop an independent research project within the scope of the Laboratory's interests, under the mentorship of the Head of Laboratory.

Job Requirements/Qualifications

- Strong organizational, record-keeping, and interpersonal skills;
- Excellent critical thinking, research, and analytical skills;
- Experience in large scale data analysis;
- Proficiency in R, Python, and other relevant computer languages, with working knowledge of statistical methods and data analysis methods;
- Must be able to work independently as well as part of a team in a fast-paced, highly collaborative environment;
- Bachelor's, Master's or PhD degree in Computational Biology, Computer Science, Bioinformatics, Biostatistics, Mathematics, or related field required.

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<u>Laboratory Description</u>

The Laboratory of Chemical Immunology and Proteomics applies synthetic chemistry, chemical biology, and proteomics methods toward the goals of discovering and characterizing (a) novel selective chemical probes that perturb the functions of key proteins regulating immunological and neuroimmunological processes; (b) new mechanisms for small molecule-induced protein degradation; and, more broadly, (c) the pharmacological landscape and signal transduction pathways in immune and neuroimmunological disorders. Achieving these objectives is enhanced through the development of new chemical scaffolds targeting cysteine and other nucleophilic residues. By developing and applying innovative chemical proteomic profiling technologies, we aim to enrich our understanding of the molecular differences between pathologic and physiologic states in immune cells and cells of the nervous system (including microglia and oligodendrocytes, which are implicated in the autoimmune disorder multiple sclerosis). The lab also plans to explore how those differences can be further leveraged from a pharmacological perspective for the development of new therapies that not only target specific immune cell subtypes, but also the defined activation states of these cells. Please see www.vinogradovalab.com for more information.

<u>How to Apply</u>

We offer a competitive salary, comprehensive benefits, and a collaborative work environment.

Please email your resume to Elizabeth Ventura, Talent Acquisition Associate, at eventura@rockefeller.edu. Please find additional job opportunities here: https://www.rockefeller.edu/human-resources/staff-opportunities/

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