



## Post-Doctoral Fellow: Immunology/Rheumatology

**PROJECT:** The Anolik laboratory is in the Allergy, Immunology and Rheumatology Division of the Department of Medicine at the University of Rochester. The lab focuses on the role of B cells in the autoimmune disease and the pathways that lead to aberrant cell activation. Over the past several years our work in the Accelerating Medicines Partnership Consortium has discovered novel populations of B cells and other cell populations in the joint and kidney tissue in lupus and rheumatoid arthritis. Next key steps are to define the function of these cells, including T-bet and NR4A expressing B cells, their interactions with other cell populations, and how pathogenic function is shaped by the tissue micro-environment. We hypothesize that one critical driver of aberrant cell function and tissue damage is hypoxia—the role of hypoxia in altering T and B cells in lupus and the effects of a novel therapy with Sodium **GL**ucose **T**ransporter**2** inhibitors (SGLT2i) in lupus nephritis will be investigated.

**JOB DESCRIPTION:** Under the direction of the principal investigator, the post-doc designs, conducts, and analyzes immunology research while receiving advanced training in professional skills and research independence. The post-doc may develop new ideas to further current research. Prepares writing and figures for scientific manuscripts. May train and supervise other research staff and students. The initial appointment is for one year, with renewal expected if satisfactory and funds are available. Appointments cannot exceed five years. We are particularly interested in a postdoctoral candidate with research experience in flow cytometry, molecular biology, and RNA sequencing. Experience with bioinformatics and interest in spatial transcriptomic approaches is a plus. This position is available immediately.

**QUALIFICATIONS:** Doctoral degree or equivalent (Ph.D., M.D., ScD., D.V.M., DDS) in Immunology, Pathology, Molecular Biology, Biochemistry, Bioinformatics, and/or related field. Excellent scientific writing and oral communication skills, proven ability to present and publish research data, and ability to work effectively with colleagues are required.

**LOCATION:** The laboratory is within the Center for Musculoskeletal Research at the University of Rochester (UR) Medical Center. Rochester is an affordable city of 200,000 people in upstate New York with easy access to the Finger Lakes Region. By car, 1 hour from Buffalo, 3 hours from Toronto, and 5 hours from New York City. The University of Rochester has an active Postdoc Association that provides a highly enriched environment for postdocs including career development workshops and social opportunities to get to know other postdocs. More information about postdoc activities and opportunities are available on this webpage: <https://ccc.rochester.edu/pda/home/>

UR is committed to fostering, cultivating, and preserving a culture of equity and inclusion. The University believes that a diverse workforce and inclusive workplace culture enhance the performance of our organization and our ability to fulfill our important missions. The University is committed to fostering and supporting a workplace culture inclusive of people regardless of their race, ethnicity, national origin, gender, sexual orientation, socio-economic status, marital status, age, physical abilities, political affiliation, religious beliefs or any other non-merit fact, so that all employees feel included, equal valued and supported.

Please send CV and cover letter to [Jennifer.Anolik@urmc.Rochester.edu](mailto:Jennifer.Anolik@urmc.Rochester.edu)