Post-graduate Associate

Cancer Immunology

Yale SCHOOL OF MEDICINE
Department of Pathology

Yale CANCER CENTER
A Comprehensive Cancer Center Designated by the National Cancer Institute

The LaMarche Lab is a highly collaborative, friendly, and supportive environment in the Department of Pathology and the Yale Cancer Biology Institute (YCBI) within Yale Cancer Center.

We are recruiting a highly motivated post-graduate associate to join our group. We are a **cancer immunology lab** combining high-dimensional profiling of cancer patient tissues with detailed mechanistic studies in mouse models to develop **new immunotherapies for solid tumors.** We study **myeloid cells** – monocytes, macrophages, granulocytes, and dendritic cells – which often comprise up to 50% of total tumor cellularity. Apart from dendritic cells, most studies have demonstrated that myeloid cells promote cancer development through diverse mechanisms, largely by suppressing the antitumor immune response. Working with both clinicians and basic scientists, we are developing strategies to target myeloid cells in solid tumors, enhance antitumor immunity, and ultimately save patients' lives. Our lab integrates themes of hematopoiesis, metabolism, physiology, and tissue biology into our research. Our studies emphasize the concept that **cancer is a systemic disease**, and we analyze how tumors alter organ physiology which, in turn, controls the antitumor immune response. For more information on our research, please see our latest publication: **LaMarche, et al., 2024, *Nature*.**

Training and Responsibilities: The candidate will assist the Principal Investigator (PI) in performing research, contributing to daily laboratory operations, and analyzing data. The candidate will receive **mentorship** from the PI and become part of an **inclusive** environment that supports **creativity**, professional **development**, and scientific **discovery**. The candidate should display a high level of initiative and be able to organize their time effectively to tackle both short- and long-term goals. The candidate will **perform bench-level experiments** that involve operating analytical instruments, compiling research data, preparing graphs, and performing statistical analyses.

Education: B.A./B.S. required. Experience working in a research lab and exceptional organizational skills. The candidate should be able to work responsibly with others and have excellent listening skills and strong verbal and written communication skills, with the ability to keep accurate and informative lab notebooks and create and deliver in-person presentations.

Preferred Qualifications: Experience working with mice and/or computational analysis of transcriptional datasets (ie single-cell RNA-seq) is strongly desired. Experience performing flow cytometry and cell isolation, using GraphPad Prism and Adobe Illustrator, and maintaining and ordering materials is preferred, in addition to excellent record-keeping skills.

Mentoring and Professional Development: Mentorship and career development are a priority in the lab, and trainees will have frequent formal and informal meetings with the PI, Dr. Nelson LaMarche. The candidate will develop laboratory technical skills as well as expertise in data presentation and scientific writing. **Mentoring will be tailored to individual needs based on long-term career goals**.

Inquiries: Please contact **Dr. Nelson LaMarche** at **nelson.lamarche@yale.edu**. Include "Post-graduate Associate" in the subject of the email. Include your CV and a cover letter stating your motivation for pursuing the opportunity, your research interests and experience, and your formal qualifications. The CV should include the contact information of 2-3 referees.