Post-doctoral Fellow

Position Summary

The Dries lab in the Sections of Hematology and Medical Oncology & Computational Biomedicine is looking for a postdoctoral fellow to join their research team. Our lab focuses on using cutting edge omics technologies to gain novel insights into cancer. We offer a unique inclusive environment and the opportunity to explore and work with new cutting edge tools, both experimental and computational, to grow as a scientist and develop the skills necessary for transdisciplinary research.

The fellow would primarily be working on a project investigating the spatial drivers of the lung (pre-)metastatic niche in osteosarcoma. Osteosarcoma is the most common childhood bone tumor, and despite recent advances, is associated with a poor prognosis. Understanding the metastatic process from the primary bone location to the lungs will be essential to identify and target novel vulnerabilities. Using the resources of the newly established Spatial Imaging Core, including an *in situ* spatial omics platform, the fellow will study the microenvironmental influences of lung metastasis. This exciting project would involve working with renowned collaborators across multiple institutions including bioinformaticians, wet-lab scientists, and clinicians.

Boston University School of Medicine is a dynamic research institution in the heart of Boston, a global center for biomedical innovation. In collaboration with its partner hospital, Boston Medical Center, the largest safety-net hospital in New England, BUSM is committed to providing consistently excellent and accessible health services to all.

Essential Responsibilities
- Design, conduct, troubleshoot, and validate experiments
- Data generation, interpretation, and presentation
- Development of computation pipelines for data analysis
- Training and mentorship of junior lab members
- Stay up to date with the latest developments in cancer biology and spatial transcriptomics
- Develop and write research and review papers, present at scientific conferences, and assist in grant writing
- Conduct deep and thorough reviews of subject literature
- Communicate and discuss progress in a timely manner

Education
PhD in Biomedical Sciences, or a related field

Knowledge and Skills
- Proactive and self-motivated

- Teamplayer
- Interest in pediatric oncology research
- Previous experience with generating next generation sequencing data (e.g. Visium 10X, ChIPseq, RNAseq, single cell analyses, etc…)
- Data analysis skills, especially experience with R and/or Python
- A record of peer-reviewed publications, including a first or co-first publication
- Clear thinking, writing, and presentation skills
- Organizational ability to perform multiple tasks efficiently and to prioritize duties