Postdoctoral Fellow in the Macauley Lab at the University of Alberta

The Macauley lab is accepting applications for a Postdoctoral Fellow in the general areas of Glycobiology and Glycomics. Research in the lab focuses on the role of the Siglec family of immunomodulatory glycan-binding receptors in human health and disease. The lab is located in the Gunning/Lemieux Chemistry center at University of Alberta and is part of the Canadian Glycomics Network (GlycoNet) and Alberta Glycomics Institute (GIA). Additionally, we have strong collaborations with other glycoscience experts within the Department of Chemistry (Mahal, Derda, Cairo, and Klassen), the University of Alberta, and across Canada.

Working within a highly interdisciplinary environment, the fellow will lead projects related to discovering roles for Siglec in cancer. Of primary important is understanding the biological ligands of Siglecs on cancer cells using tools developed in our laboratory (PMID: 41223255, PMID: 33037195) and coupling this to new and innovative glycomics approaches, such as proximity labelling and mass spectrometry. Funding through multiple sources – National and Societal – is in place to advance our goal of understanding the cellular and molecular mechanisms by which Siglecs thwart anti-cancer immunity. Moreover, this position will be connected to GlycoNet Integrated Services (GIS) to advance technologies that can be offered as future services to the broader research community.

The position requires a Ph.D. in one of the following disciplines: chemical biology, biochemistry, or other related fields. Candidates should have a record of completed graduate research that can be directly applied to the field of interest described above. Prior experience with cell culture, glycomics (mass spectrometry or related techniques), microscopy (including immunohistochemical techniques), and biochemical techniques are highly desirable. The ideal candidate must demonstrate excellent laboratory skills, independence, and resourcefulness. Candidates must possess strong communication and organizational skills manifested with proven track records including peer-reviewed publications. The position will be appointed at the level that is commensurate with the education and experience of the individual candidate and is for a period of one year with the possibility of renewal.

We are committed to an equitable, diverse, and inclusive workforce, and therefore welcome applications from all qualified persons. Please email your CV and a brief cover letter to Dr. Macauley (macauley@ualberta) along with the names of 3 potential references.