



**University
of Manitoba** | Rady Faculty of
Health Sciences

Department of Immunology
Max Rady College of Medicine
471 Apotex Centre
750 McDermot Avenue
Winnipeg, MB R3R-0T5
T: 204-789-3509

We are seeking a post-doctoral research fellow to lead research projects in the area of B lymphocyte biology and signal transduction in the context of humoral immunity, autoimmunity and B cell malignancies. Dysregulated B cell activation underpins several disease states, including B cell malignancies and autoantibody-mediated diseases. Our focus is on the phosphatidylinositol 3-kinase (PI3K) signal transduction pathway, which is critical for B cell function. One critical aspect of cell biology controlled by PI3Ks is metabolic reprogramming, which is required for B cells to function optimally in different microenvironments. Our goals are to functionally dissect the regulators and downstream targets of PI3K in B cells and identify specific signaling and metabolic enzymes as novel therapeutic targets. Projects utilize novel mouse models to assess the functional roles of signal transduction molecules and downstream metabolic targets as well as human cell studies working with samples from patients.

Our highly collaborative research team is located in the Department of Immunology's well equipped open-concept laboratory which hosts core facilities for flow cytometry, live cell confocal imaging and lentiviral vector work. The University of Manitoba is comprised of close to 30,000 students and 9,000 faculty and staff. Winnipeg is a vibrant, prairie city with a population exceeding 700,000, and provides world-class arts and entertainment, professional sports teams and an affordable, balanced lifestyle.

A strong academic background and experience in relevant areas such as immunology, molecular/cellular biology and/or working with mouse models of disease are important assets for this position. Candidates within 5 years of completing their PhD are preferred.

Candidates may submit their cover letter, CV and references to the address below. Applications will be considered until the position is filled.

Dr. Aaron J. Marshall
Professor and Head, Department of Immunology
Rady Faculty of Health Sciences, University of Manitoba
Room 473 Apotex Centre, 750 McDermot Avenue, Winnipeg, MB, R3E-0T5
Ph. 204 272-3082; Fax 204 789-3921
Email: aaron.marshall@umanitoba.ca
Webpage: <https://www.marshall-lab.ca/>