



UNIVERSITY OF ALBERTA

Postdoctoral fellowship in the laboratory of Dr. Maya Shmulevitz at the Medical Microbiology and Immunology Department, University of Alberta.

The Shmulevitz laboratory invites applications for postdoctoral fellows to lead collaborative projects between Dr. Shmulevitz (virology and oncolytic virus expert) and Dr. Baldwin (immunology and oncolytic virus expert). The projects aim to advance genetically-engineered reovirus and vaccinia virus variants as vaccine vectors and oncolytic therapies. The projects will expose PDFs to a wide variety of scientific questions and approaches, including exploring changes in immunological responses and understanding mechanistic relationships between virus characteristics and activity *in vitro* and *in vivo*. Of the two PDF positions available, one seeks an individual with a genomics background to spearhead single cell sequencing as an approach to decipher reovirus-associated immunological changes. The fellows will work in the Shmulevitz lab with routine access to expertise from Dr. Baldwin. The Shmulevitz lab prides itself on a very collegial environment that collectively strive for high quality innovative scientific discoveries.

Dr. Shmulevitz and Baldwin have adjacent labs, situated in the [Medical Microbiology and Immunology Department](#) and the [Li Ka Shing Institute of Virology](#) at the [University of Alberta](#). Both laboratories are well established with equipment, reagents and funding. The PDF will have access to many state-of-the art equipment at core facilities such as the [cell imaging core](#), the [flow cytometry core](#), and the [high content analysis core](#). We are also closely affiliated with the [Cross Cancer Institute](#), which provides access to biorepository banks and additional cancer-related technologies.

Position Requirements:

- Ph.D. level degree in biomedical-related fields such as microbiology, immunology, virology, biochemistry, cell biology, or cancer biology.

Desired skills, experience and competencies:

- Experience with genomics-based research
- Experience with immunology research
- Experience with virus research
- Experience with molecular techniques
- Experience with animal experiments
- Strong verbal and written communication skills
- Strong work ethic and motivation skills
- Strong problem-solving and critical thinking skills
- Strong collaborative and interpersonal skills
- Detail oriented

How to Apply: To be considered, candidates must apply for this position by sending directly to shmulab@ualberta.ca. Please include (1) letter of research interest and accomplishments that clearly describes also the experience with desired skills and attributes; (2) CV; (3) Academic transcripts; (4) contact information of three references.

The review of applications will begin November 1st 2022 and continue until positions are filled.

Start dates will be jointly decided by discussion with shortlisted applicants.