



Alberta RNA Research
and Training Institute



Graduate Student (MSc/PhD) Opportunities

The Medicinal Biophysics Laboratory, led by Dr. Patel, is a part of the Alberta RNA Research and Training Institute (ARRTI), one of the leading Canadian centers with a focus on RNA-based research and training. ARRTI is home to 8 groups with diverse research portfolios, who work in close collaborations and provide a solid platform for skills development and scientific training.

We are looking for the candidates for the following research programs.

Host Protein - Viral RNA Interactions: A variety of host proteins interact with viral RNAs as a part of an innate immune system. On the other hand, often viral RNAs recognize and employ host proteins to facilitate their replication and propagation. The main focus of our group is to understand, in fine detail, how viral RNAs recognize DEAD-box helicases to develop novel mechanisms to inhibit viral replication.

Role of Focal Adhesion (FA) Proteins in Diseases: We are also interested in investigating the role Zyxin and WTIP proteins that are primarily located at the FAs but also able to travel to the nucleus. Our goal is to study how they mediate the transfer of signals from outside of the cell to inside, to understand their nuclear functions and their role in diseases such as cancer.

Highly motivated candidates with a background in biochemistry/biophysics are encouraged to contact **Trushar Patel (trushar.patel@uleth.ca)**. A cover letter, Curriculum Vitae (including contact details of three professional references), and a copy of transcripts are required. Positions will remain open until filled.

For more information, please visit www.trpatel.com and www.uleth.ca/research/arrti