

MSc Position in Viral Immunology

Université 
de Montréal



Laboratory: Dr. Neda Barjesteh (DVM, PhD)

Département de pathologie et microbiologie

Faculté de médecine vétérinaire

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MicroRNA regulation of innate antiviral responses

Project description: MicroRNAs (miRNAs) have critical roles in host immune defense against infections. miRNAs are evolutionarily conserved small (~22 nucleotides) non-coding RNAs which directly regulate immune responses, the function of cells of the immune system by their immune-suppression and immune-activation activities during infections. They also direct the fate of host cells by regulating cellular signalling pathways and gene expression. These examples highlight the significant roles of cellular miRNAs in gene expression, cell differentiation, and elimination of infections. In this study, we aim to identify the profile of expressed miRNAs following viral infection and the immunoregulatory functions of candidate miRNAs.

Highly qualified and motivated students can send their applications to Dr. Neda Barjesteh (neda.barjesteh@umontreal.ca).

The research project is cross-disciplinary which will provide opportunities for the student to gain experience and knowledge in the fields of viral-immunology and biology.

Deadline : August 15th, 2019

Starting date: September 2019 or until a suitable applicant is identified

The Barjesteh laboratory is located at the Centre intégré des maladies infectieuses animales (CIMIA) research platform at the Faculty of Veterinary Medicine and is affiliated with research group on infectious diseases in production animals (GREMIP), swine and poultry infectious diseases research center (CRIPA) and Quebec respiratory health network.