

## Postdoctoral Fellow – Immunology and Virology

**Description:** A postdoctoral position is available at the Department of Pathology & Microbiology at the faculty of Veterinary Medicine, Université de Montréal, in the lab of Dr. Neda Barjesteh. The laboratory is focused on understanding and defining molecular mechanisms that regulate innate antiviral responses in the respiratory system against Infectious Bronchitis Virus. Areas of focus include the communication of host cells through extracellular vesicles and the regulatory functions of microRNAs. The Barjesteh Lab is just expanding, so this is a unique opportunity to join a new lab with lots of different project options. Barjesteh Lab is located at the BSL-2 Integrated Center for Animal Infectious Diseases at the Faculty of Veterinary Medicine.

The postdoctoral fellow will participate in research focused on the development of novel and alternative approaches using microRNAs for the control of Infectious Bronchitis Virus. The successful candidate will join a vibrant and collaborative laboratory team where there is also an opportunity to participate in the mentoring and training of the next generation of research scholars. Preference will be given to candidates with a strong background in cellular immunology, poultry infectious diseases, as well as those with expertise in cell culture, working with infectious bronchitis virus, poultry infectious disease models.

The position is a Mitacs industrial fellowship with the possibility to extend for a maximum of three years. Therefore, the candidate will have an opportunity to work with Dr. Martine Boulianne, who holds an Industrial Research Chair in poultry at Université de Montréal.

**Successful candidate** should have areas of experience as below:

- Transcriptome analysis
- *In silico* target gene prediction and pathway analysis
- Coronaviruses or other infectious diseases (strongly encouraged to apply)
- Primary cell culture (strongly encouraged to apply)
- Transfection of cells with miRNAs
- *in vivo* trials working with chickens

### Responsibilities

- To lead specific projects, execute experiments, analyze data, and interpret results
- To present results at scientific conferences, prepare manuscripts, and publish findings in peer-reviewed journals
- To communicate well with other lab members and collaborators
- Respect to the internal deadlines

**Qualifications:** The candidate should have DVM, a Ph.D. in a relevant life science discipline, a track record of scientific productivity, as well as excellent oral, written, and interpersonal communication skills.

**How to submit your application:** Please submit a CV, including three references and their contact details, as well as a cover letter to Dr Neda Barjesteh (neda.barjesteh@umontreal.ca). All highly motivated and qualified applicants are encouraged to apply.

Deadline: 11/15/2021.

**About our organisation:** The *Faculté de médecine vétérinaire* (FMV) of the *Université de Montréal* is located in Saint-Hyacinthe, the agricultural capital of Quebec, with 57 000 inhabitants. The FMV is located 60 km (37 miles) from Montreal, a vibrant city with an international airport and excellent flight connections to Europe and the USA. The FMV is also within easy reach of the beautiful, historic Quebec City and Ottawa, the capital of Canada. The FMV is located off-campus but maintains strong collaborative ties to other faculties at the *Université de Montréal* and other universities within the province.