The Department of Pathobiology is dedicated to the advancement of knowledge in veterinary and comparative pathology, infectious diseases and immunology. Research in the department addresses such diverse areas as the pathogens of animals and how they interact with their hosts, emerging and zoonotic pathogens, antimicrobial resistance, the immunologic and genetic bases of resistance to infectious disease, development and progression of cancer, and mechanisms of immune-mediated and inflammatory diseases. We work on diseases of domestic mammals, poultry, laboratory animals, fish, wildlife, zoo and companion animals, from the molecular level to that of the population.

**Programs**

Research-based MSc or PhD degrees are offered to veterinarians and non-veterinarians in all fields of study in the department. Veterinary specialty training is offered through DVSc and Graduate Diploma programs in anatomic pathology, clinical pathology, comparative pathology, laboratory animal science, fish disease, and zoo medicine/pathology for applicants with a DVM degree. Our graduate students typically continue their career in a diversity of positions, including academics, the public sector in Canada (provincial and federal government) and abroad, private industry and laboratories, as well as in specialty practice.

**Faculty and Laboratories**

At the present time, there are 25 faculty, 42 staff members, and 60 graduate students who work in a new building with well-equipped shared laboratories and state-of-the-art equipment for quantitative RT-PCR, flow cytometry, fluorescent and optical microscopy, analysis of microarrays, 2D protein gel electrophoresis, multiplex ELISA, laser capture microdissection, and tissue microarray. As well, our investigators have close interactions with other departments and other universities, and with the Animal Health Laboratory, Center for Public Health and Zoonoses, and the Public Health Agency of Canada.

**Admission Requirements and Funding**

Applicants should have at least a ‘B’ average in a relevant undergraduate degree. A DVM degree is not required for MSc or PhD programs. Prior to applying, students should identify an advisor who will provide funding for a minimum of 2 years (MSc) or 3 years (PhD, DVSc). Numerous scholarships and awards are available on a competitive basis.

**Pathobiology is:**

- Anatomic, clinical and comparative pathology
- Infectious diseases: viral, bacterial, and parasitic disease
- Immunology
- Cancer biology

**CONTACT INFORMATION**

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