The Department of Biomedical Sciences provides unique opportunities for translating fundamental research into practical applications that enhance animal and human health. Our expertise spans several disciplines including biomechanics, cancer biology, endocrinology, neuroscience, pharmacology and toxicology, reproductive biotechnology, cardiovascular biology, and stem cell and regenerative biology.

Programs

We offer two Master’s options and a Doctoral program. Master’s students can choose between a course-work plus a major research project/paper Master of Biomedical Sciences, MBS, (approximately three semesters) or a course-work and the preparation and defense of a research-based thesis option Master of Science, MSc (approximately six semesters). The PhD program requires the successful completion of a qualifying exam and the completion and defense of a research-based thesis.

Faculty and Laboratories

There are currently 25 faculty and 60 graduate students in the department. Facilities include individual labs, multi-investigator labs and common equipment areas that have been renovated with the aid of funding from the Canadian Foundation for Innovation. Research equipment includes an Applied Biosystems ViiA7 and multiple Bio-Rad CFX96 Real-Time PCR Detection Systems, NanoDrop Spectrophotometers, Accuri C6 System Flow cytometers, a full Proteomics suite consisting of a Typhoon scanner, spot picker and DeCyder analysis Software, ChemiDoc XRS+ Systems, a Histology core facility, Fluoview FV1200 Laser Scanning Confocal Microscope, fluorescent microscopes, a Neuronal Cell Imaging System, fluorescent plate readers, an Analytical HPLC Facility and as well as specialized laboratory equipment.

Admission Requirements and Funding

Applicants should have an Honours BSc in biological sciences or a degree in veterinary medicine (or equivalent), with a minimum average “B+” standing for the last four semesters completed prior to entry into the graduate program. Letters of reference from two of the applicant’s professors must be provided with the application. Students who do not meet this “B+” minimum requirement but do meet the University minimum of “B-” may be admitted into a “provisional” category if there is additional evidence to suggest that the applicant is capable of successfully completing the graduate program (e.g. exemplary letters of recommendation, or evidence of prior work or research experience). PhD students and 2-year MSc students receive a guaranteed minimum level of funding.

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