MSc Position in Pharmacology (Biomedical Sciences)

A 2-year MSc pharmacology graduate position is available in the Department of Biomedical Sciences, being offered by Dr. Ron Johnson and Dr. Gord Kirby, commencing Sept 1, 2017 on the in vitro assessment of drug interactions in poultry hepatocytes grown in culture. The successful candidate will receive training in tissue culture techniques, molecular techniques, and high pressure liquid chromatography.

The research project is part of the newly established CgFARAD food safety research laboratory at the Ontario Veterinary College. The project will i) establish and validate poultry (chicken and turkey) primary hepatocyte monolayer culture systems for metabolism studies, ii) use the validated hepatocyte culture systems to evaluate potential drug metabolism interactions that may arise when veterinary approved drugs are used in combination. Veterinary approved drugs are used regularly in combination in poultry and other food producing animal feeds. However, this practice can constitute extra label drug usage that can result in changes to drug withdrawal periods (time from last administration of drug to time that animals can be slaughtered for food). Extra label drug usage from combinations of drugs used in animal feeds can increase the risk of violative drug residues in the human food chain. The research outlined will provide key stakeholders (CgFARAD, commodity groups, pharmaceutical companies, veterinary associations, feed mills and processors, government) with valuable information that can be used to mitigate risks of drug residues when drugs are used in combination in animal feeds.

To be considered, a formal application should be submitted through OUAC by May 26, 2017 at the following link: https://www.uoguelph.ca/graduatestudies/future/applying-guelph

A completed application package must have the following components: An Application Summary submitted through the OUAC website, Official transcripts from all post-secondary educational institutions, Two letters of reference using the University of Guelph form, A resume/Curriculum Vitae, A Statement of Intent stating your career goals, motivation and interest in the above research project area, and Proof of English Proficiency if first language is anything other than English.

Dr. Johnson and Dr. Kirby will review completed applications only.

Inquiries related to the project should be directed to Dr. Johnson at rjohns03@uoguelph.ca. Inquiries related to general application/admission/program procedures can be directed to Christina Voll, OVC Graduate Program Assistant at bmsgrad@uoguelph.ca

The University of Guelph is committed to an Employment Equity Program that includes special measures to achieve diversity among its faculty and staff. We therefore particularly encourage applications from qualified aboriginal Canadians, members of the LGBTQA community, women, veterans, persons with disabilities, and members of visible minorities.