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 January 1, 2018 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 hepatocyte cultures 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 December 1, 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. Only the successful applicant will be notified.
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

All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.

The University of Guelph acknowledge the Attawandaron people on whose traditional territory the University of Guelph resides and offer our respect to our Anishinaabe, Haudenosaunee and Métis neighbours as we strive to strengthen our relationships with them.

At the University of Guelph, fostering a culture of inclusion is an institutional imperative. The University invites and encourages applications from all qualified individuals, including from groups that are traditionally underrepresented in employment, who may contribute to further diversification of our Institution.