



MSc. Defence

Safety of Dietary Camelina Oil Supplementation in Healthy Adult Dogs and Horses

Scarlett Burron

Date: August 5th 2022 at 9:00am

The MSc Defence for Scarlett Burron has been scheduled for August 5th, 2022 at 9:00am. The defence will be held online via Teams and room 141: [https://teams.microsoft.com/l/meetup-join/19%3ameeting\\_NzVmZDA0NDgtZjdiMi00NDYxLWI3M2UtNmM3NTY0MzdiZWVm%40thread.v2/0?context=%7b%22Tid%22%3a%22be62a12b-2cad-49a1-a5fa-85f4f3156a7d%22%2c%22Oid%22%3a%22efd0fc96-c177-48e3-9e37-73ab2f64dde4%22%7d](https://teams.microsoft.com/l/meetup-join/19%3ameeting_NzVmZDA0NDgtZjdiMi00NDYxLWI3M2UtNmM3NTY0MzdiZWVm%40thread.v2/0?context=%7b%22Tid%22%3a%22be62a12b-2cad-49a1-a5fa-85f4f3156a7d%22%2c%22Oid%22%3a%22efd0fc96-c177-48e3-9e37-73ab2f64dde4%22%7d)

**The exam committee will consist of:**

Examining Chair: Dr. Julang Li

Advisor: Dr. Kate Shoveller

Adv. Committee Member: Dr. Wendy Pearson

Additional Graduate Member: Dr. Mike Steele

**Abstract:**

Due to the growing population and depletion of resources, the demand for economically and environmentally sustainable ingredient alternatives has increased. As a result, this thesis sought to investigate the health impacts of supplementing of an alternative plant-based oil, *Camelina sativa* oil, to the diets of healthy adult dogs and horses to determine whether it is safe for inclusion in commercial feeds formulation for these animals. Throughout the 16-week feeding period for both species, no differences were observed when evaluating body weight, body condition score, food intake, or biochemical and hematological analytes as compared to the control groups, flaxseed oil and canola oil, which are already considered safe for consumption in dogs and horses. These results support the conclusion that camelina oil provides a sustainable ingredient alternative that can be included in the diets of dogs and horses with no negative impacts on gross safety measures.