UNIVERSITY of GUELPH

ONTARIO AGRICULTURAL COLLEGE

DEPARTMENT OF ANIMAL BIOSCIENCES

MSc. Defence

Comparison of Different Protein Sources in a Starter Feeding Program for Broiler Chickens Raised Without Antimicrobials

Anastasia Tsementzis

Date: May 5th 2023 at 1:00pm

The MSc Defence for Anastasia Tsementzis has been scheduled for May 5th, 2023 at 1:00pm. The defence will be held online via Teams and in 141: https://teams.microsoft.com/l/meetup-join/19%3ameeting_MDk1ZTJmYmYtZTI5Mi00NzgxLWI2YmUtNDk0MTYwNDg1MzNh%40thread.v2/0?context=%7b%22Tid%22%3a%22be62a12b-2cad-49a1-a5fa-85f4f3156a7d%22%2c%22Oid%22%3a%22fbd28915-dda5-478f-8ecb-a3682dcf0c3a%22%7d

The exam committee will consist of:

Examining Chair: Dr. Jen Ellis

Advisor: Dr. Elijah Kiarie

Adv. Committee Member: Dr. Lee-Anne Huber

Additional Graduate Member: Dr. Wilfredo Mansilla

Abstract:

Formulating broiler starter diets incorporates specialty highly digestible protein feedstuffs (SPF) in partial replacement of soybean meal (SBM) and antibiotic growth promoters (AGP) in alignment with immature digestive capacity. There is limited comparative data on the effectiveness of SPF on lifetime growth performance, gastrointestinal function and metabolism. Experiments were conducted to assess impacts of 4 SPF (enzyme treated soybean meal, soy protein concentrate, pork meal, and black soldier fly larvae meal) in starter on these parameters. Six starter diets included SPF to compare to SBM, and SBM + AGP, as the controls, were followed by common diet to 49 days. Metabolism and intestinal ecology effects of SPF and AGP in starter were transient, and partial replacement of SBM with SPF was commensurate to AGP in bolstering growth in starter phase, resulting in heavier market weights.