

PHD GRADUATE RESEARCH ASSISTANTSHIP IN PHARMACOLOGY
COLLEGE OF VETERINARY MEDICINE
KANSAS STATE UNIVERSITY
Manhattan, Kansas

We are seeking a PhD student to begin **Summer 2023** to work on a USDA-funded project investigating the impact of species, breed and sex on drug disposition and effects in cattle. The student will have the opportunity to collaborate with a dynamic and supportive interdisciplinary team of veterinarians, pharmacologists, and animal behavior and welfare experts. The project is supervised by [Dr. Stephanie Martinez](#) and the student will be based in the [Department of Anatomy & Physiology](#) within the Kansas State University College of Veterinary Medicine.



Project Description: A single dose of the drug, meloxicam, has been shown to help alleviate pain from castration and disbudding in cattle for up to several days but studies also show that blood levels and measured outcomes related to pain following meloxicam administration to cattle are highly variable. This variability could be due, in part, to sex and genetics as well as inconsistencies in what, when, and how pain outcomes are measured. The goal of this study is to evaluate the impact of species, breed, and sex on meloxicam blood levels and efficacy in mitigating procedural pain in calves using standardized pain measurement outcomes. The project will involve extensive fieldwork with calves to collect samples and data, lab work with sensitive analytical equipment, and pharmacokinetic modeling. The student will be a vital and valued member of the research team and will have the opportunity to develop their own research interests throughout their PhD and collaborate on projects involving other veterinary species (large and small) as well.

Location: Our host community of Manhattan, consistently ranked as one of the best college towns in America, is situated in the scenic Flint Hills of northeast Kansas and offers a high quality of life with an abundance of opportunities for outdoor recreation, dining, vibrant cultural experiences, top public schools, and close proximity to larger urban centers.

Requirements: The successful candidate will ideally possess a research-based Master's degree OR Honors Bachelor's degree (or equivalent) with research experience AND a GPA above 3.0 in the last two full years of study in Animal Science, Food Science, Biological or Biomedical Sciences, Pharmaceutical Sciences, Pharmacy, Pharmacology, Veterinary Medicine, or related discipline. Candidates with cattle handling experience are preferred.

Interested candidates should email the following to Dr. Stephanie Martinez (stephaniemartinez@ksu.edu): 1) a brief letter outlining your research interests and career goals; 2) curriculum vitae; 3) unofficial academic transcripts; 4) contact information for two references (including a research supervisor); and 5) unofficial copies of TOEFL, IELTS or PTE scores if your native language is not English. **Please send all materials to Dr. Martinez by no later than March 10, 2023.**

For additional questions or for further information, please contact Dr. Martinez.

