BIOGRAPHICAL SKETCH

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NAME: Kim, Jeffrey

eRA COMMONS USER NAME (credential, e.g., agency login): j0kim067

POSITION TITLE: Assistant Professor, Clinical Veterinarian

EDUCATION/TRAINING *(Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable. Add/delete rows as necessary.)*

INSTITUTION AND LOCATION	DEGREE (if applicable)	END DATE MM/YYYY	FIELD OF STUDY
University of California, Davis	BS	06/2012	Animal Biology
The Ohio State University	MPH	05/2016	Veterinary Public Health
The Ohio State University	DVM	05/2020	Veterinary Medicine
Sue VandeWoude Research Group, Colorado State University, Fort Collins, CO	Postdoctoral Fellow	06/2022	Retroviral Therapy
Colorado State University, Fort Collins, CO	Resident	06/2022	Comparative Medicine Residency

A. Personal Statement

I am an Assistant Professor and a board-certified Laboratory Animal Veterinarian with a research background on the toxicity, clinical efficacy, and pharmacokinetics of analgesia in mice, and the antiviral treatment and oral microbiome impacts of feline immunodeficiency virus and HIV patients. I established a rigorous and repeatable analgesia toxicity and efficacy model performing ovariectomy surgeries in laboratory mice to address the important knowledge gap of their pain assessment and treatment. Currently, I am administering a project (e.g. staffing, research protections, budget) to assess the transmammary exposure and neonatal toxicity of analgesia drugs in mice. Furthermore, from my postdoctoral training with the Sue VandeWoude Research Group that has received over 24 million dollars in funding, I have expertise in digital quantification and immunophenotyping of feline retroviruses and HIV models. I established an HIV model using feline immunodeficiency virus and I used their homologous pathophysiology to address the important clinical knowledge gap of treating oral disease in HIV patients. I simultaneously focused on highly impactful research that bridges human and animal health. With an expansive One Health impact, I investigated novel antiretroviral therapies for feline immunodeficiency virus, which has a large global prevalence with no treatment. During 2021-2022, my research career was disrupted due to my clinical residency training. However, I immediately resumed my research projects and successfully completed and published resultant projects described above and cited below. Together, my experiences equip me with proficiency in communication, team management, and stewardship to realistically achieve our goals within the timeline and budget outlined in this grant proposal.

Citations:

1. McKenna B, Weaver H, **Kim J,** Bowman M, Knych H, Kendall L. A Pharmacokinetic and Analgesic Efficacy Study of Carprofen in Female CD1 Mice. Journal of the American Association for Laboratory Animal Science. 2023 November 11; 62(6):545-552. Available from: https://www.ingentaconnect.com/content/10.30802/AALAS-JAALAS-23-000041 DOI: 10.30802/AALAS-JAALAS-23-000041

2. **Kim J,** Behzadi E, Nehring M, Carver S, Cowan S, Conry M, Rawlinson J, VandeWoude S, Miller C. Combination Antiretroviral Therapy and Immunophenotype of Feline Immunodeficiency Virus. Viruses. 2023 March 24; 15(4):822-. Available from: https://www.mdpi.com/1999-4915/15/4/822 DOI: 10.3390/v15040822

3. **Kim J,** Cannon B, Freeman L, Tan S, Knych H, Kendall L. High-dose Meloxicam Provides Improved Analgesia in Female CD1 Mice: A Pharmacokinetic and Efficacy Study. Journal of the American Association for Laboratory Animal Science. 2023 January 01; 62(1):74-80. Available from: https://www.ingentaconnect.com/content/10.30802/AALAS-JAALAS-22-000064 DOI: 10.30802/AALAS-JAALAS-22-000064

B. Positions, Scientific Appointments and Honors

Positions and Scientific Appointments

2023 - Present	Diplomate, American College of Laboratory Animal Medicine
2023 - Present	Adjunct Professor, Lincoln Memorial University College of Veterinary Medicine
2022 - Present	Assistant Professor, Clinical Veterinarian, University of Louisville School of Medicine, Louisville, KY
2022 - 2023	Consultant, Regulatory Expert, Bellarmine University, Louisville, KY
2022 - Present	Member, Kentucky Veterinary Medical Association, Frankfort, KY
2021 - 2022	Clinical Veterinarian, The Centers for Disease Control and Prevention, Fort Collins, CO
2020 - Present	Member, American Veterinary Medical Association
2020 - 2022	Fellow, Sue VandeWoude Research Group, Colorado State University, Fort Collins, CO
2020 - 2022	Comparative Medicine Resident, Colorado State University, Fort Collins, CO
2018 - 2018	Fellow, The American Society of Laboratory Animal Practitioners, Colorado State University, Fort Collins, CO
2016 - Present	Member, American Society of Laboratory Animal Practitioners
2015 - Present	Member, American Association for Laboratory Animal Science
2014 - 2019	Surgery Nurse, University Laboratory Animal Resources, The Ohio State University, Columbus, OH
2013 - 2014	Veterinary Nurse, University of California, San Diego, San Diego, CA
2013 - 2013	Veterinary Nurse, Valley Biosystems, Sacramento, CA
2011 - 2013	Veterinary Nurse, University of California, Davis, Davis, CA

C. Contribution to Science

1. My early publications addressed an important knowledge gap of antimicrobial resistance of zoonotic pathogens in nonhuman primates. Humans continue to have high levels of contact with nonhuman primates worldwide in biomedical research, zoological gardens, and wild settings. This high human-animal interface presents considerable risks to public health because nonhuman primates are frequently infected with zoonotic pathogens and their transmissibility and pathogenicity to humans are threatening. They are even more threatening if resistant to antimicrobials, which is increasingly dangerous and will likely soon become the greatest killer of humans globally. These publications report the emerging and neglected threat of antimicrobial resistance in nonhuman primates. They document to physicians and veterinarians recent prevalences of resistance, and they offer guidance on antimicrobial use practices. Collectively, I have published the most comprehensive literature on antimicrobial use and resistance of zoonotic pathogens in humans and nonhuman primates.

a. **Kim J**, Habing G, Salyards G, Coble D. Antimicrobial Stewardship in Captive Monkeys. In: Knauf S, Jones-Engel L, editors. Neglected Diseases in Monkeys [Internet] Cham: Springer International Publishing; 2020. Chapter Chapter 7141-170p. Available from: https://link.springer.com/10.1007/978-3-030-52283-4_7 DOI: 10.1007/978-3-030-52283-4_7

b. **Kim J**, Coble DJ, Salyards GW, Habing GG. Comparative Review of Antimicrobial Resistance in Humans and Nonhuman Primates. Comp Med. 2018 Apr 2;68(2):124-130. PubMed Central PMCID: PMC5897968.

c. **Kim J**, Coble DJ, Salyards GW, Bower JK, Rinaldi WJ, Plauche GB, Habing GG. Antimicrobial Use for and Resistance of Zoonotic Bacteria Recovered from Nonhuman Primates. Comp Med. 2017 Feb 1;67(1):79-86. PubMed Central PMCID: PMC5310628.