**KELLY KIRKENDALL-MERRITT**

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  Professional Summary

Highly skilled senior biological scientist and lab manager with 32 years of experience in clinical research, assay development, and data collection. Well-organized with good communication and problem-solving skills.

  Skills

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| * Laboratory / project management
* Protocol development and validation
* Budget management
 | * Data management
* Published researcher
* Safety and compliance
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  Employment History

Senior Biological Scientist and Lab Manager, 01/1988 to Current

University of Florida, College of Veterinary Medicine – Gainesville, FL.

* Laboratory management, oversight of source document completion for clinical studies, uploading of forms into electronic data management systems.
* Manage grants by reviewing protocols, formulation, and negotiation of budgets with internal and external sponsors. Initiating IACUC and regulatory submissions in compliance with GCP standards.
* Participated in the development of a non-terminal, translational animal model for osteoarthritis
* Determine concentrations of cartilage, bone, and inflammatory biomarkers with enzyme-linked immunosorbent assays (ELISA)
* Train residents and technicians from collaborating labs in research techniques and interpretation
* Analyze and manage all data collected during pre-clinical trials.

 Education

Bachelor of Science: Food Science and Human Nutrition

University of Florida - Gainesville, FL

 Licenses/ Certifications

**Introduction to Principle and Practice of Clinical Research**: NIH , May 2021

**Good Clinical Practice Course**: CITI Program, June 2021

**Clinical Research Coordinator ( CRC ) Foundations**: CITI Program, June 2021

**IRB-01 Mandatory Training**: CITI Program, June 2021

  Publications

* Zertuche JML, Brown MP, Gronwall R, Merritt K. The effect of probenecid on the pharmacokinetics of
flunixin meglumine and phenylbutazone in healthy mares. Am J Vet Res 1992;53:372-374.
* Pohlenz-Zertuche HO, Brown MP, Gronwall RR, Kunkle GA, Merritt K. Trimethoprim-sulfadiazine in the
dog: Serum and skin concentrations after multiple-dose oral administration. Am J Vet Res
1992;53:1273-1276.
* Meyer JC, Brown MP, Gronwall RR, Merritt K. Pharmacokinetics of ceftiofur sodium in neonatal foals
after intramuscular injection. Equine Vet J 1992; 24:485-486.
* Cervantes CC, Brown MP, Gronwall RR, Merritt K. Pharmacokinetics and body fluid and endometrial
concentrations of ceftiofur in mares after repeated intramuscular injection. Am J Vet Res 1993;54:573-575.
* Garber JL, Brown MP, Gronwall RR, Merritt K. Pharmacokinetics of metronidazole after rectal
administration to horses. Am J Vet Res 1993; 54:2060-2063.
* Brown MP, West LA, Merritt KA, Plaas AHK. Changes in sulfation patterns of chondroitin sulfate in
equine articular cartilage and synovial fluid in response to aging and osteoarthritis. Am J Vet Res 1998;
59:786-791.
* Bryant JE, Brown MP, Gronwall RR, Merritt KA. Pharmacokinetic and body fluid and endometrial
concentrations of doxycycline after repeated intragastric administration to 6 mares and minimum inhibitory
concentrations of doxycycline for equine bacterial pathogens. Equine Vet J 2000; 32(3): 233-238.
* Haines GR, Brown MP, Gronwall RR, Merritt KA. Serum concentrations and pharmacokinetics of
enrofloxacin after intravenous and intragastric administration to mares. Can J Vet Res 2000;64(3):171-177.
* Haines GR, Brown MP, Gronwall RR, Merritt KA. Pharmacokinetics of orbifloxacin and its concentration
in body fluids and in endometrial tissues of adult horses. Can J Vet Res 2001;65(3):181-187.
* Jacks S, Giguere S. ,Gronwall RR, Brown MP, Merritt KA. Pharmacokinetics of azithromycin in foals and
concentration of the drug in serum, body fluids and bronchoalveolar cells. Am J Vet Res 2001
Dec;62(12):1870-1875.
* Haines GR, Brown MP, Gronwall RR, Merritt KA, Baltzley LK. Pharmacokinetics of orbifloxacin and its
concentration in body fluids and in endometrial tissues of mares. Can J Vet Res 2001;65:181-187.
* Biros DJ, Brooks DE, Brown MP, Merritt KA, Kubilis PS, Regional and zonal variations in the sulfation
patterns of chondroitin sulfate in the normal equine corneal stroma. Am J Vet Res 2002;63:143-146.
* Broome TA, Brown MP, Gronwall RR, Casey MF, Merritt KA. Pharmacokinetics and plasma
concentrations of acetylsalicylic acid after intravenous, rectal and intragastric administration to horses. Can J Vet Res 2003 Oct;67(4):297-303.
* Canapp SO, Cross AR, Brown MP, Lewis DD, Hernandez J, Merritt KA, Tran-Son-Tay R. Examination of
synovial fluid and serum following intravenous injections of hyaluronan for the treatment of osteoarthritis
in dogs. Vet Comp Orthop Traumatol. 2005;18(3):169-174.
* Adams AR, Haines GR, Brown MP, Gronwall RR, Merritt KA. Pharmacokinetics of difloxacin and its
concentration in body fluids and endometrial tissues of mares after repeated intragastric administration. Can J Vet Res 2005;69:229-235.
* Brown MP, Trumble TN, Plaas AH, Sandy JD, Romano M, Hernandez J, Merritt KA. Exercise and injury
increase chondroitin sulfate chain length and decrease hyaluronan chain length in synovial fluid.
Osteoarthritis Cartilage. 2007 Nov;15(11):1318-25.
* Brown MP, Trumble TN, Sandy JD, Merritt KA. A simplified method of determining synovial fluid
chondroitin sulfate chain length. Osteoarthritis Cartilage. 2007 Dec;15(12):1443-5.
* Trumble TN, Brown MP, Merritt KA, Billinghurst RC. Joint dependent concentrations of bone alkaline
phosphatase in serum and synovial fluids of horses with osteochondral injury: an analytical and clinical
validation. Osteoarthritis Cartilage. 2008 16:779-786.
* Brown MP, Trumble TN, Merritt KA. High mobility group box chromosomal protein 1 as a potential
inflammatory biomarker of joint injury in Thoroughbreds. Am J Vet Res 2009 Oct;70(10):1230-5.
* Cleary OB, Trumble TN, Merritt KA, Brown MP. Effects of exercise and osteochondral injury on synovial
fluid and serum concentrations of carboxy-terminal telopeptide fragments of type II collagen in racehorses.
Am J Vet Res 2010 Jan;71(1):33-40.
* Nicholson AM, Trumble TN, Merritt KA, Brown MP. Association of age, presence of injury and joint
sampled on serum and synovial fluid concentrations of type II collagen biomarkers in Thoroughbred horses. Am J Vet Res 2010 Jul;71(7):741-9.
* Boyce MK, Trumble TN, Carlson CS, Groschen DM, Merritt KA, Brown MP. Non-terminal animal model
of post-traumatic osteoarthritis induced by acute joint injury. Osteoarthritis and Cartilage 2013;21:746-755
* Dymock DC, Brown MP, Merritt KA, Trumble TN. Concentrations of stromal cell-derived factor-1 in
serum, plasma, and synovial fluid in horses with osteochondral injury. Am J Vet Res 2014
Aug;75(8):722-30