



Megan Jacob



Assistant Professor, Clinical Microbiology
Director, Clinical Microbiology Laboratory

EDUCATION:

B.S., Microbiology, University of Wyoming

M.S., Veterinary Pathobiology, Kansas State University

Ph.D., Veterinary Pathobiology, Kansas State University

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Regenerative Medicine of Musculoskeletal Soft Tissue

Research emphasis:

Dr. Jacob's research interests encompass several areas of applied veterinary microbiology including the transmission of zoonotic or foodborne pathogens, epidemiology and development of antimicrobial resistance, and infection control and transmission within the veterinary hospital setting. In addition, in collaboration with the Clinical Microbiology Laboratory, she is involved with research of interest to veterinary clinicians and as well evaluation of new diagnostic assays.

Application:

- Antimicrobial Use and Resistance
- Infectious Disease Control and Prevention
- Microbial Detection

Collaboration potential:

- Antimicrobial use and resistance
- Bacterial zoonotic disease
- Foodborne pathogens

Selected publications: (limit 4)

Jacob, M.E. *, M. D. Crowell, M. B. Fauls, E. H. Griffith, and K. K. Ferris. 2016. Evaluation of a rapid immunoassay for point-of-care detection of canine urinary tract infection. *Amer J. Vet. Res.* 77:162-166.

Jacob, M. E. *, J. A. Hoppin, N. Steers, J. L. Davis, G. Davidson, B. Hansen, K. F. Lunn, K. M. Murphy, and M. G. Papich. 2015. Attitudes of clinical veterinarians at a U. S. veterinary teaching hospital toward antimicrobial use and antimicrobial-resistant infections. *J. Amer. Vet. Med. Assoc.* 247:938-944.

Jacob, M. E. *, J. Bai, D. G. Renter, A. T. Rogers, X. Shi, and T. G. Nagaraja. 2014. Comparing real-time and conventional PCR to culture-based methods for detecting and quantifying *Escherichia coli* O157 in cattle feces. *J. Food Prot.* 77:314-319

Jacob, M. E. *, D. M. Foster, A. T. Rogers, C. C. Balcomb, and M. W. Sanderson. 2013. Prevalence and relatedness of *E. coli* O157:H7 in the feces and on the hides and carcasses of U. S. meat goats at slaughter. *Appl. Environ. Microbiol.* 79:4154-4158.