**Abstract:**

**Veterinary & Comparative Models for Food Safety Research**

Societal and market driven dynamics, along with a continually progressing regulatory environment have resulted in a novel food handling, preparation, storage, and production practices. Congruently, businesses and consumers have increased their expectations of producers at each segment of the food chain, from farm to fork. This new found intimacy between consumers and their food has established the tangible need for a consistent approach to food safety management that includes multifactorial and holistic methods, including production, research, and intervention implementation strategies for a large and diverse industry. As such, we have developed well characterized veterinary and comparative models for foodborne pathogens including *Salmonella* sp., and *Escherichia coli*, to appropriately assess the efficacy and safety of therapeutics and vaccines.

**Bio Summary:**

**Dr. Charley Cull** received his Doctor of Veterinary Medicine degree and his Ph.D. degree in epidemiology/food safety, both from Kansas State University. He is recognized and has received multiple honors for his food safety research in commercial feedlot cattle. Dr. Cull is a clinical research associate of Midwest Veterinary Services, Inc. of Oakland, NE and Veterinary Biomedical Research Center, Inc. of Manhattan, KS. In addition to providing data to support the FDA and USDA approval of animal health products, a significant amount of his time and energy is focused on biomedical research, production animal consulting, and internal food production operations. Dr. Cull is a member of the Academy of Veterinary Consultants, the American Association of Bovine Practitioners, American Association of Swine Veterinarians, and the American Veterinary Medical Association.