

CSAS Award for Technical Innovation in Enhancing Production of Safe Affordable Food

Denis Krause, PhD

University of Manitoba

Dr. Krause was not able to attend the meeting. Dr. Karin Wittenberg accepted the award on his behalf from Dr. Robert Berthiaume, CSAS President.

Dr. Krause was born in South Africa and received his BSc at the University of Stellenbosch and Masters and PhD degrees from the University of Illinois. Dr. Krause is currently Professor jointly appointed in the Departments of Animal Science and Medical Microbiology at the University of Manitoba.

Dr. Krause's expertise in the gut microbiome has improved our understanding of the movement of pathogens in the farm ecosystem; identified solutions to stressors in the animal's intestinal tract, improving mitigating food safety issues; and has contributed to several medical science networks focused on the etiology and prevention of inflammatory bowel disease in humans.

Dr. Krause has emphasized the need for stronger linkages between animal agriculture and medicine as a means of advancing food safety. He successfully established research networks in swine gut microbiology and rumen microbiology that stretch across Canada, including researchers not only at the U of Manitoba but also across Canada and internationally. Dr. Krause has received over \$3 million in research funding over the last 5 years and his work has resulted in 3 patents.

Over the most recent six years, he has supervised 5 post-doctoral fellows, 8 PhD, 8 MSc, and numerous undergraduate students as well as technical staff, and has served on committees for 16 PhD and MSc students. Many of these individuals have been recognized through NSERC postgraduate and industry awards, and have gone on to discipline-related positions as academics, scientists and experts within government.

He has co-authored 84 peer-reviewed publications, as well as numerous book chapters and abstracts. He has contributed to four book chapters and edited the recently published book *Zoonotic pathogens in the food chain*.

The CSAS Award for Technical Innovation in Enhancing Production of Safe Affordable Food is sponsored by Elanco