

2020 ANNUAL T.K. CHEUNG LECTURE IN ANIMAL SCIENCE

GUT HEALTH: THE PARADIGM IN ANIMAL HEALTH AND DISEASE

PRESENTED BY
DR. MICHAEL H. KOGUT
USDA AGRICULTURAL RESEARCH SERVICE



TUESDAY, FEBRUARY 25, 2020
11:30 AM - 12:45 PM
219 Animal Science Building - 12 Dafoe Road

Dr. Michael H. Kogut is a Research Microbiologist and Lead Scientist within the Food and Feed Safety research Unit at the Southern Plains Agricultural Research Center, College Station, TX, USA. Dr. Kogut has published over 200 peer-reviewed scientific papers, 11 book chapters, and has received 5 patents. Dr. Kogut's research is centered on gut health of poultry and alternatives to antibiotics to control disease and increase production. Specifically, Dr. Kogut's research has concentrated on the development of cost-effective immunological interventions to improve gut health by studying the role of the microbiota in immunity to infection; the role of dietary metabolites in promoting immune regulation and immune responses to pathogens; tissue specific regulatory responses to infection; characterizing novel molecular targets that mediate the actions of dietary compounds and botanicals in inflammation and immunity; investigating how diet modulates the gut microbiome and mucosal immune responses; and understanding the integration of central metabolic pathways and nutrient sensing with antimicrobial immunity and how it alters cellular energy homeostasis and contributes to the prevention or resolution of infectious diseases.

This annual lecture recognizes and honours **Dr. Tsang Kay (Stan) Cheung's** enduring support for the Department of Animal Science and agricultural research at the University of Manitoba. Dr. Cheung obtained his B.Sc., M.Sc., and Ph.D. in Animal Science from the U of M. His graduate training was in Animal Breeding/Genetics under the supervision of the late Dr. Bob Parker. He was also awarded a Doctor of Laws from the U of M in 1991. Dr. Cheung returned to his family business in Hong Kong in 1975 and is currently the Executive Chairman/Director of Herald Holdings Ltd. Dr. Cheung's many contributions include support of the TK Cheung Center for Animal Science Research, the National Center for Livestock and the Environment, the TK Cheung Reading Room and recent contributions to education and research in Animal Science. In recognition of his generosity and commitment to education and research, at the time of his 65th birthday, the Department established this annual seminar in his honour.

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