



Alberta Association for Food Protection

You are invited to attend our first virtual seminar in our new seminar series;

Topic: Emerging Foodborne Pathogens and Emerging Food Safety Issues in General
Speaker: Jeff Farber, PhD
Senior Corporate Scientist, Food Safety & Public Health
Director of the Canadian Research Institute for Food Safety and head of the University of Guelph's Food Safety and Quality Assurance M.Sc. program

Emerging Pathogens and Megatrends in Microbial Food Safety – Dr. J.M. Farber

Emerging pathogens pose a substantial risk to animal and human health. Pathogens can emerge due to the acquisition of virulence factors through genetic mutation and horizontal gene transfer and due to ecological processes, that alter their host range. Some of these factors are increasing due to agricultural intensification, demographic shifts, human insurgence into natural ecosystems and global environmental changes. Furthermore, improved diagnostic methods can facilitate the detection and characterization of new pathogens and their genetic make-up.

This presentation will cover some of the older established bacterial foodborne pathogens in which interesting new findings have been made, for example, the emergence of *Bacillus cereus* group bacteria containing anthrax toxin genes typically associated with *Bacillus anthracis*. It will also address the ever-expanding list of new pathogen-food vehicle outbreak combinations, such as *Salmonella* in peaches and *Brucella melitensis* in unpasteurized camel milk.

Foodborne viruses and protozoan parasites will also be addressed. We continue to observe large number of illnesses due to foodborne protozoan parasites such as *Cyclospora cayetanensis*. In fact, researchers in the EU have recognized the need for a special European focus on foodborne parasites.

Besides dealing with the emergence and re-emergence of foodborne pathogens, there are also many other issues that are impacting food safety now, as well as into the future. Some of the major ones will be discussed, along with addressing how we need to take a holistic/One Health approach to help tackle many of the emerging food safety issues that will likely challenge us for many years to come.

Since this is part of an Affiliate meeting, the talk will also include an overview of and benefits to being part of the International Association for Food Protection.

Date: Thursday, September 29th, 2022
Place: Zoom Meeting
<https://ualberta-ca.zoom.us/j/93996126198?pwd=ajVBb3JwQzI0eGFicG1ueUNTRmRRUT09>
Time: 12:30-1:50 PM MT

*There is NO cost for this event but you must RSVP and attend to be entered in the **draw for a \$100 Amazon gift card and Hygiene swag bag.***

RSVP by: September 28th to lynn.mcmullen@ualberta.ca