

MICROBIOLOGY
&

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Applied genomics approaches for understanding pathogenic and beneficial microbes from farm to fork

Metagenomic description of agricultural microbiomes has led to the identification of interesting bacterial and fungal taxonomic consortia that play important roles in both crop health and food safety issues. Metagenomic approaches in agro-ecologies have also helped to identify critical control points and important drivers of phyllosphere microbiota. All of these data are advancing recommendations for data based Good Agricultural Practices and FSMA regulations.

Biography

At CFSAN (Center for Food Safety and Applied Nutrition), Dr. Ottesen has served as a Research Area Coordinator for Metagenomics and Food Microbiomes since 2009 in the Molecular Methods and Subtyping Branch (MMSB) of the Division of Microbiology. Ottesen's work focuses on supporting source tracking programs such as GenomeTrakr by providing molecular fingerprints to contribute to source tracking efforts as well as describe the microbial farm to fork continuum to identify critical control points for food safety. She is also working to implement a MetaGenomeTrakr program to expedite source tracking and continue to provide baseline microbial profiles for food and food ecologies.

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