



Speaker:

Dana Nayduch

Research Leader of the Arthropod-Borne Animal Diseases Research Unit at USDA-ARS in Manhattan, KS

Date: Monday, March 13, 2023

Time: 4:00 pm - 4:50 pm

Format: In-Person Seminar & Virtual Access

Location: Genomics Auditorium 1102A

Zoom: 938 1040 4405

Passcode: 833289

Title:

House flies and the “Farm-to-Table” Experience You Didn’t Ask For

Abstract:

House flies associate with microbes throughout their life history. Flies create public and animal health and sanitation concerns when they bridge the gap between microbe-rich breeding environments and animal/human habitations. Research by our group and others has demonstrated that house flies carry a wide variety of bacterial pathogens that pose a significant threat to humans and animals. Some pathogens can persist in flies for extended periods and even replicate before being excreted, further increasing the risk of transmission. In addition to carrying pathogens, house flies also harbor microbes that contain genes responsible for antimicrobial resistance, which is a more extensive and dangerous problem than previously realized. As a result, house flies play a crucial but potentially underappreciated role in transmitting microbial threats to both animal and human health. However, flies also may prove valuable as sentinels for monitoring these same threats which can be accomplished through extensive molecular or culture-based surveys of their microbial communities.

Refreshments will be served in the Entomology Building Lobby at 3:30pm