Medical Microbiology and Immunology MMI 291 Seminar Series
Emerging Challenges in Microbiology and Immunology
Current Theme: Interdisciplinary Research

Kimberley D. Seed, Ph.D.
Assistant Professor
Department of Plant & Microbial Biology
University of California, Berkeley

“Recurring conflicts with a single predatory phage drive the evolution of Vibrio cholerae”

Friday, May 11, 2018 – 12:10-1:00 PM
Genome and Biomedical Sciences Facility, Auditorium Room 1005

Research work: Dr. Seed studies how lytic phages impact the evolution and selection of epidemic Vibrio cholerae, the causative agent of cholera. Her previous work characterizing phages recovered from cholera patient samples in Bangladesh revealed that only a few unique phages pose a persistent threat to V. cholerae. Using these clinical samples, her group has discovered novel mechanisms underpinning reciprocal adaptations in clinical V. cholerae-phage populations. Her current work highlights the role of mobile genetic elements in facilitating bacterial escape from predation, and seeks to provide mechanistic insight into how such elements protect V. cholerae from phage attack.

Publication references:

Please contact Dr. Yael Litvak if you’d like to meet with this guest speaker at ylitvak@ucdavis.edu