UCDAVIS HEALTH | SCHOOL OF MEDICINE

Medical Microbiology & Immunology
MMI 291 Seminar Series
Emerging Challenges in Microbiology and Immunology

MMI 291 Seminar Series

Current Theme: Interdisciplinary Research
Spring Quarter 2020 – CRN 41538

Friday Seminar – 12:10-1 PM

"'The complex daily rhythms of the squid-vibrio symbiosis"

Research / Bio

My research program has combined training experiences in both organismal and molecular biology to develop two major focuses: 1) host-bacterial symbiosis; and, 2) the 'design' of tissues that interact with light. The experimental strategy for both areas of research relies on methods that have been developed for the study of the squid-vibrio association over the past 30+ years. In addition, I have a continuing interest in the history and development of the field of microbial symbiosis and its impact on biology; a focused effort in this area promises to drive an unprecedented integration across biology as a whole. Such integration will revolutionize the way we think about all aspects of the biosphere.

Publications

Transcriptional patterns in both host and bacterium underlie a daily rhythm of anatomical and metabolic change in a beneficial symbiosis. Wier AM, Et al. PNAS Direct, 2009 Jan

Bacterial Bioluminescence Regulates Expression of a Host Cryptochrome Gene in the Squid-Vibrio Symbiosis, Heath-Heckman EAC, Et al. MBio, 2013 April

Divining the Essence of Symbiosis: Insights from the Squid-Vibrio Model. McFall-Ngai, M., Et al. PLOS Biology, 2014 Feb

Oct 16

Margaret McFall-Ngai, PhD

Professor, Kewalo Marine Laboratory
Pacific Biosciences Center, SOEST
University of Hawaii at Manoa

Oct 16, 2020
12:10 – 1 PM
ZOOM Meeting

Medical Microbiology & Immunology
School of Medicine

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We hope to see you there!