



Pacific Center for
Emerging Infectious Diseases
Research



UNIVERSITY
of HAWAII
MĀNOA

2019 COBRE MINI-SYMPOSIUM



Measles in the 21st Century

Diane E. Griffin, M.D., Ph.D.
*Johns Hopkins University
Baltimore, Maryland*

Measles remains an important cause of childhood morbidity and mortality in developed and developing countries, despite the availability of a safe and effective live attenuated measles vaccine. Barriers to vaccination include: lack of political will; logistical difficulties of vaccine delivery; and unfounded fears of diseases caused by vaccines.



Unrest at Home: Diversity and Disturbance in Mammalian Microbiomes

David A. Relman, M.D.
*Stanford University
Stanford, California*

We have undertaken longitudinal studies in humans with the goals of describing the temporal dynamics of the microbiome and of identifying features associated with stability in the face of disturbances or changes in the environment. A predictive understanding of the human microbiome will inform effective strategies to prevent and/or mitigate disease.



Microbial and Host Behaviors Underlie Colonization Success

Edward G. Ruby, Ph.D.
*University of Hawaii at Manoa
Honolulu, Hawaii*

The association between the bacterium *Vibrio fischeri* and the light-organ of the sepiolid squid, *Euprymna scolopes*, provides a model system to gain insights into mechanisms by which beneficial bacteria optimize tissue colonization. Bacterial behaviors (such as aggregation, chemotaxis and flagellar motility) have evolved, in coordination with host responses, to promote specificity, mutualistic activity and population stability.



Critical Informatics in a Complex Humanitarian Emergency: Assessing Puerto Rico after Maria

Eric Rasmussen, M.D.
*Infinitum Humanitarian Systems
Seattle, Washington*

After recent deployments to Supertyphoon Haiyan in the Philippines, the Kathmandu earthquake in Nepal, Hurricane Odile in Mexico, and Hurricane Mathew in Haiti, the Global Disaster Response Team for the Roddenberry Foundation concluded that gaps in assessment and shortfalls in resource allocation could be mitigated by developing free and open-source apps designed to guide the reporting of damage to streamline care and accelerate recovery.

March 20, 2019 at 9:00–11:30 A.M.

Medical Education Building (Kaka'ako), Room 315

For further information, please call 692-1654

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