

2019 COBRE MINI-Stanford, California

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| <p>Measles remains an important cause of child 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 disease caused by vaccine.</p> | <p>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.</p> |
| <p style="text-align: center;">Microbial and Host Behaviors Underlie Colonization Success</p> <p style="text-align: center;">Edward G. Ruby, Ph.D. University of Hawaii at Manoa Honolulu, Hawaii</p> | <p style="text-align: center;">Critical Informatics in a Complex Humanitarian Emergency: Assessing Puerto Rico after Maria</p> <p style="text-align: center;">Eric Rasmussen, DM. Infinitum Humanitarian Systems Seattle, Washington</p> |
| <p>The association between the bacterium <i>Vibrio fischeri</i> and the light organ of the cephalopod squid, <i>Euprymna scolopes</i>, 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, mutual activity and population stability.</p> | <p>After recent deployments to Super Typhoon Haiyan in the Philippines, the Kathmandu earthquake in Nepal, Hurricane Odile in Mexico, and Hurricane Matthew 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 and open source apps designed to guide the reporting of damage to streamline care and accelerate recovery.</p> |
| <p>March 20, 2019 at 9:00-11:30 A.M. Medical Education Building (Kaka'ōakō), Room 315 For further information, please call 692-1654</p> | |

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