

Genetics and Genomics (G2) Seminar Series



**INSTITUTE FOR GENOME
SCIENCES AND SOCIETY**
TEXAS A&M UNIVERSITY

The Interdisciplinary Faculty of Genetics
Genetics Graduate Student Association



Cholera Beats the Competition: Understanding Clonal Expansion of Pandemic *Vibrio cholerae*

Dr. Stefan Pukatzki

**Department of Immunology & Microbiology
University of Colorado**

Dr. Pukatzki research focuses on understanding how pathogenic bacteria interact with their human host. To cause infections, bacteria use sophisticated strategies, some of which involve virulence factors that interact with cellular components and signaling pathways of host cells. Dr. Pukatzki pioneered use of the genetically tractable amoeba *Dictyostelium discoideum* that identified the type VI secretion system (T6SS) as a virulence trait in the cholera bacterium *Vibrio cholerae* and almost all major Gram-negative pathogens. His lab aims to understand how the T6SS contributes to bacterial pathogenicity, persistence, and transmission. This knowledge can be used to devise treatment strategies in which virulence is discouraged and resistant pathogens do not emerge. This understanding is a chief endeavor in light of the growing multidrug resistance threat.



Monday, April 9, 2018

4:00 p.m.

Auditorium/Room 108

BioBio Building

Refreshments at 3:30 p.m. in the lobby.

Host: Dr. Paul Straight
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—Genetics

Texas A&M Institute for Genome
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