Yale SCHOOL OF PUBLIC HEALTH Epidemiology of Microbial Diseases

Brandon Brei Memorial Lecture

Thomas W. Scott, PhD

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"Epidemiologically relevant heterogeneities in dengue virus transmission"

Increasing capacity to capture epidemiologically relevant complexity of pathogen transmission – human social interactions and mosquito ecology – will enhance prevention of vector-borne disease. Focusing on dengue, a mosquito transmitted virus, I will review the development of novel concepts in pathogen transmission dynamics that my colleagues and I are testing. I will explain why exploration of mosquito ecology and behavior, mosquito and human movement, spatial heterogeneity in complex epidemiological landscapes, and the way those factors lead to key encounters between mosquitoes and hosts are among the most promising frontiers for improved mosquito-borne disease prevention.

Thursday, January 30, 2014 12:00 PM, LEPH 115 Host: D. Fish