Medical Microbiology and Immunology
MMI 291 Seminar Series
Emerging Challenges in Microbiology and Immunology
Current Theme: Interdisciplinary Research

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“Phenotypic and Genetic Plasticity in a Human Fungal Pathogen”

Friday, June 1, 2018
Genome and Biomedical Sciences Facility, Auditorium Room 1005
12:10 PM – 1:00 PM

Research work: Dr. Noble studies the molecular mechanisms responsible for the virulence and commensalism of Candida albicans, the most common fungal pathogen of humans and a normal component of mammalian gut microbiota. Using genetic approaches, animal models of virulence and commensalism, and techniques such as whole-genome chromatin immunoprecipitation and high-throughput sequencing, her group has characterized transcriptional regulatory networks that control fungal fitness in the host gastrointestinal tract and bloodstream, as well as a fungal cell type is specialized for commensalism. Current interests include the use of regulated chromatin instability for rapid adaptation to stresses.

Publication references:


Pande K, Chen C, and Noble SM (2013). “Passage through the mammalian gut triggers a phenotypic switch that promotes Candida albicans commensalism.” Nature Genetics 45 (9): 1088-1091


Please contact Dr. Bennett Penn if you’d like to meet with this guest speaker at bhpenn@ucdavis.edu