





Mark Goulian Charles and William L. Day Distinguished Professor in the Natural Sciences Department of Biology University of Pennsylvania Philadelphia, PA

Seminar

"Hedging bets in bacterial signal transduction"

E. coli, like most bacteria, sense a wide variety of physical and chemical signals, a feature that enables them to adapt to diverse changes in their environment. The response to specific signals usually elicits a relatively uniform response among cells in a bacterial culture. In some cases, however, the response is very heterogeneous across the population. We have uncovered one example of such a signal transduction system with the unusual twist that an environmental cue—oxygen—regulates the cell-to-cell variability of the system output without affecting the mean. I will describe our work to understand the causes and consequences of this behavior.

Friday, November 8, 2019

2:30 PM

Laufer Center Lecture Hall 101

Host: Jin Wang

Refreshments following the seminar Laufer Hub 110