Discovery Science
Emerging Scholars Lecture

"Bet Hedging as a Survival Strategy in Complex Biological Systems and Cancer"

Leonard Alfredo Harris
Postdoctoral Fellow, Quaranta Lab
Vanderbilt University

To survive catastrophic external challenges, bacterial populations exploit phenotypic diversity – a strategy known as "bet hedging." Cancer cells may employ a similar strategy to survive the initial onslaught of anticancer therapeutics. Here, I describe the biochemical basis for phenotypic plasticity within the framework of "Waddington landscapes," present evidence for its role in anticancer drug resistance, and discuss initial work toward constructing a computational model of the biochemical machinery underlying cellular responses to external perturbations.

Wednesday
October 10, 2018
4:00 p.m.
512 Light Hall

This lecture series features the most promising young scientists who are making notable discoveries as postdoctoral fellows or early career faculty.

Sponsored by

VANDERBILT
School of Medicine
Basic Sciences