

Department of Applied and Computational Mathematics and Statistics Colloquium

Ching-Shan Chou


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will give a lecture entitled:

Cell Polarization in Budding Yeast

Abstract

Cell polarization, in which intracellular substances localize to a particular spot in response to external stimuli or internal cues, is central to cell physiology, and it underlies processes such as cell motility, cell division and cell differentiation. In this talk, I will present our recent works, using budding yeast as a model system, on how cells initiate symmetry breaking preceding the new bud emergence or mating projection. Along with experimental data, our mathematical modeling and simulations reveal potential mechanisms which underlie a biased cell polarity and pheromone concentration dependent cell morphology.



**Monday, October 28, 2013
3:00 p.m. to 4:00 p.m.
127 Hayes-Healy Center**

Colloquium Tea

2:30 p.m. to 3:00 p.m. 154 Hurley Hall