MCB 315: Key Concepts in Quantitative Biology

Fall 2013; 4 units
Lecture: TR 9:30-10:45; Discussion: F 11:00-11:50

Instructor: **Ryan Gutenkunst, Dept of Molecular and Cellular Biology**
Named the 2013 Distinguished Early-Career Teacher in the College of Science

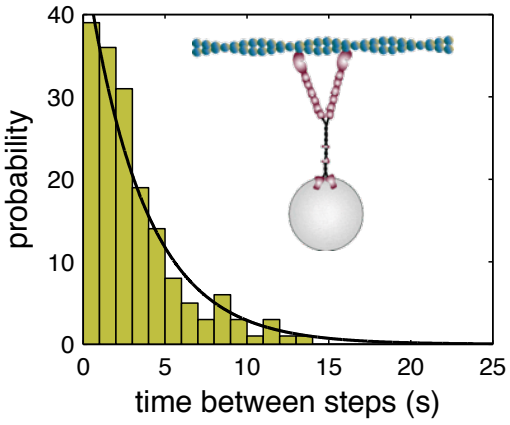
Biology and medicine are being revolutionized by quantitative methods from mathematics, engineering, physics, and computer science. To engage UA students in quantitative biology, MCB 315 focuses on developing mathematical and computational models in molecular and evolutionary biology and comparing those models with systems biology and genomic data. MCB 315 is intended both for **students in the life sciences** interested in quantitative methods and for **students outside the life sciences** curious about biology.

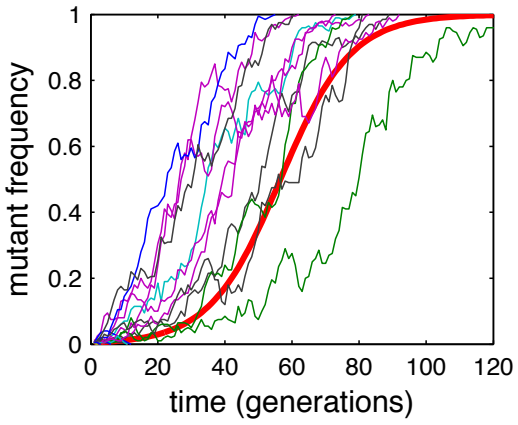
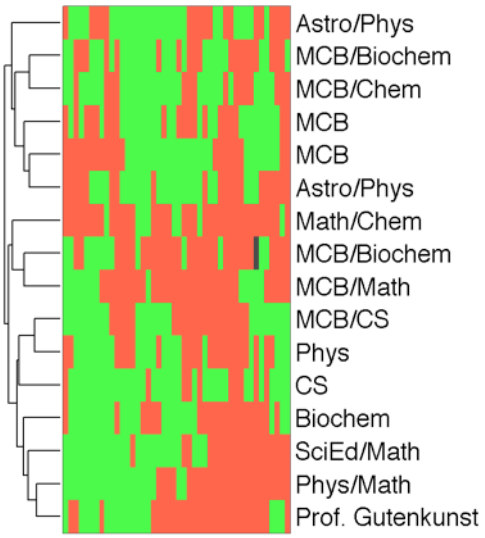
To learn more, visit http://bit.ly/MCB315, or email rgutenk@email.arizona.edu.

Biological topics covered include:

- Cellular growth control and cancer
- HIV infection, treatment, and evolution
- Molecular evolution and the tree of life
- Human population genomics

Course prerequisite: Calculus I





Cluster analysis of learning styles for Spring 2012 class