BIOL-GA 2003 Bio Core III: Molecules and Cells

Instructor:
Sevinc Ercan

Course Description:
Bio Core III is designed to train students to pose new research questions, to formulate clear hypotheses, and to design appropriate experiments to test those hypotheses. The course also trains students to think critically about current biological research through close reading and discussion of landmark papers across the field.

Pre-requisite:
N/A

Textbook and Required Materials:
Weekly readings as assigned

Grading:
Discussions 50%
Mini Aims (2) 40%
Final Exam 10%

Topics:
Genome organization
Protein-DNA Binding
Transcription Factors
Enhancers
DNA replication
Stem Cells
IncRNA
Mitochondria
Post-transcriptional regulation
High-throughput Screens
cis-Regulatory Networks Selection