BIOL-GA 2005 Current Topics in Biology I: Epigenetics and Diseases

Instructor:
Fei Li

Course Description:
This course aims to provide students with the skills to critically read and evaluate primary literature articles in a small class setting. In addition, it provides students with an in-depth look into the field of chromatin and epigenetics, including recent discoveries relevant to human health.

Pre-requisite:
N/A

Textbook and Required Materials:
Weekly readings as assigned

Grading:
Class discussion 80%
Final presentation 20%

Topics:
Nucleosome
Chromosome territories
Chromosome architecture
Histone modifications
Histone variants
DNA methylation
Polycomb complex
Small RNAs
Long non-coding RNAs
Centromere
Nuclear envelope