

# Advanced Gene Regulation

BCH 7410: Fall 2016

Tuesdays and Thursdays from 9:35am to 11:30am in Room CGRC 133

September 27 Basal Transcription Complex Bungert

September 29 Gene Regulation, Role of Mediator  
and other Co-regulators Huang

Discussion Leader:

October 04 Chromatin Structure Huang

Discussion Leader:

October 06 Insulators and Matrix Attachment Huang

Discussion Leader:

October 11 Gene Regulation from a Distance Bungert

Discussion Leader:

October 13 Nuclear Transcription Domains Bungert

Discussion Leader:

October 18 Gene Regulation During Differentiation  
and Development Bungert

Discussion Leader:

October 20 Noncoding RNA Huang

**Discussion Leader:**

October 25

Splicing

Lewin

**Discussion Leader:**

October 27

RNA Export

Aris

**Discussion Leader:**

**Format:** This class consists of a series of lectures by experts in the field followed by student led discussions of current literature. The emphasis is on the discussion of the articles; every student is expected to read the articles and be prepared to present parts of the articles. Towards the end of the course the students will prepare and submit a critique of one of the papers discussed in class. The critique should be one to two pages long and should provide a summary of the major findings and a discussion of the strengths and weaknesses of the article. The final grade will be based on the performance in class and the quality of the written critique.