

# Advanced Gene Regulation

BCH 7410: Fall 2019

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

Biochemistry Library, R3-131

September 24	Basal Transcription Complex	Jörg Bungert
September 26	Mediator and other Co-regulators	Jörg Bungert
	<b>Discussion Paper:</b>	
	<b><u>Discussion Leader:</u></b>	
October 01	Enhancers and Super-Enhancers	Jörg Bungert
	<b>Discussion Paper:</b>	
	<b><u>Discussion Leader:</u></b>	
October 03	Chromatin Structure	Thomas Yang
	<b>Discussion Paper:</b>	
	<b><u>Discussion Leader:</u></b>	
October 08	Nuclear Transcription Domains	Jörg Bungert
	<b>Discussion Paper:</b>	
	<b><u>Discussion Leader:</u></b>	
October 10	Noncoding RNA	Mingyi Xie
	<b>Discussion Paper:</b>	
	<b><u>Discussion Leader:</u></b>	
October 15	RNA Export	John Aris
	<b>Discussion Paper:</b>	
	<b><u>Discussion Leader:</u></b>	

October 17	RNA Modifications	Zhijian Qian
	<b>Discussion Paper:</b>	
	<b><u>Discussion Leader:</u></b>	
October 22	Gene Regulation in Response to Stress Signals	Mike Kilberg
	<b>Discussion Paper:</b>	
	<b><u>Discussion Leader:</u></b>	
October 24	Gene Regulation During Differentiation and Development	Jörg Bungert
	<b>Discussion Paper:</b>	
	<b><u>Discussion Leader:</u></b>	

**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.