

**MCB 110/ Spring 2016 - ZHOU**  
**SECTION II: REGULATION OF GENE EXPRESSION**

<b>LEC</b>	<b>DATE</b>	<b>TOPIC</b>
1.	Feb. 22 (Mon)	Prokaryotic Transcription: Promoters and Polymerase (Chapter 8. p. 296-327)
2.	Feb. 24 (Wed)	Prokaryotic Transcriptional Regulation: Part I (Chapter 9. p. 340-345; 352-355)
3.	Feb. 26 (Fri)	Prokaryotic Transcriptional Regulation: Part II (Chapter 9. p. 340-345; 352-355)
4.	Feb. 29 (Mon)	Eukaryotic Transcription Apparatus & Methods for Analyzing Individual and Global Gene Transcription: Part I (Chapter 8. p. 296-327)
5.	Mar. 2 (Wed)	Eukaryotic Transcription Apparatus & Methods for Analyzing Individual and Global Gene Transcription: Part II (Chapter 8. p. 296-327)
6.	Mar. 4 (Fri)	Eukaryotic Transcription Regulation: Chromatin and Its Impact on Transcription: Part I (Chapter 9. p. 330-340)
7.	Mar. 7 (Mon)	Eukaryotic Transcription Regulation: Chromatin and Its Impact on Transcription: Part II (Chapter 9. p. 330-340)
8.	Mar. 9 (Wed)	Eukaryotic Transcription Regulation: Polymerase Pausing and Elongation (Chapter 8. p. 319-323)
9.	Mar. 11 (Fri)	Eukaryotic Transcription Regulation: Interpreting and Integrating Upstream Signals (Chapter 9. p. 360-365)
10.	Mar. 14 (Mon)	RNA processing: Capping and Polyadenylation (Chapter 10. p. 385-388)
11.	Mar. 16 (Wed)	RNA Processing: Mechanism and Control of Splicing I (Chapter 10. p. 388-405)
12.	Mar. 18 (Fri)	RNA Processing: Mechanism and Control of Splicing II (Chapter 10. p. 388-405)

----- Spring Break -----

13. Mar. 28 (Mon) RNA Interference and Degradation: Part I (Chapter 10. p. 410-415)
14. Mar. 30 (Wed) RNA Interference and Degradation: Part II (Chapter 10. p. 410-415)

- **Email: qzhou@berkeley.edu**
- **Office hours – Fridays, 11:00 am - 12:45 pm in 1<sup>st</sup> floor lobby “office hour space” of LKS.**
- **2<sup>nd</sup> midterm exam: Friday, Apr. 1, 7:00-9:00 pm in 2050 VLSB.**

For this part of the course, the textbook reading is OPTIONAL. Information in parentheses above refer to materials from “Molecular Biology: Principles of Genome Function” 2<sup>nd</sup> edition by Craig et al. These are intended to provide a second source of explanation for materials that you may not fully understand in class. You can also consult relevant online materials from sources such as Wikipedia. You are not responsible for any textbook or online content that is not covered in the lectures.