

Molecular and Cell Biology

Molecular and Cell Biology for Fall 2014 <small>NEW</small>	
Course code	302410
Credits	four (lectures: 4 hr per week)
Organizers	Dr. Hsou-min Li
Reference	Alberts et al. Molecular Biology of the Cell 5th ed. Lodish et al. Molecular Cell Biology 7th ed.
Evaluation	<p>1. A two-hour exam will be conducted in a close-book and in-class format for both the mid-term and final exams. The questions could be true-false, multiple choice or essay questions.</p> <p>2. Each lecture will weight the same in the exam.</p> <p>3. Students with a final grade ≥ 70 are regarded as "pass". Students who fail the course cannot be granted the course credits and should retake the course if the course required by their program.</p>
Time	Monday 10-11:50 am; Thursday 2:30-4:20 pm
Place	1F Auditorium, Institute of Molecular Biology, Academia Sinica

	Date	Topic	Lecturer
1	09/11 (T)	DNA Structure and Protein-DNA Interactions	Hanna Yuan
2	09/15 (M)	Protein Structure	David Hsiao
3	09/18 (T)	Protein Folding, Physical Principle and Chaperones/Chaperonin	Chih-Yen King
4	09/22 (M)	Chromosomes and Genome	Chung-Ju Wang
5	09/25 (T)	DNA Replication	Liu-Yow Chen
6	09/29 (M)	DNA Repair and Recombination	Ting-Fang Wang
7	10/02 (T)	Basic Transcription	Hung-Ta Chen
8	10/06 (M)	RNA Processing	Soo-Chen Cheng
9	10/09 (T)	RNA Structure/Topology and Ribozymes	Huey-Nan Wu
10	10/13 (M)	Regulation of Gene Expression (I): Transcriptional Control	Su-May Yu
11	10/16 (T)	Regulation of Gene Expression (II): Epigenetics and RNAi	Jun-An Chen

12	10/20 (M)	Eukaryotic mRNA Metabolism: Splicing Regulation, Nuclear Export and Decay (<i>@B1 auditorium</i>)	Woan-Yuh Tarn
	10/23 (T)	(IUBMB meeting)	
13	10/27 (M)	Translation and Regulation	Woan-Yuh Tarn
14	10/30 (T)	Mechanism and Control of Protein Degradation	Cheng-Ting Chien
	11/03 (M)	Midterm	Course organizer
15	11/06 (T)	Transmembrane Transport of Ions and Small Molecules	Yi-Fang Tsay
16	11/10 (M)	Intracellular Compartments and Protein Transport into Organelles	Hsou-min Li
17	11/13 (T)	Intracellular Vesicular Traffic	Chi-Kuang Yao
18	11/17 (M)	Energy Conversion: Mitochondria and Chloroplasts	Jychian Chen
19	11/20 (T)	Autophagy	Wei-Pang Huang
20	11/24 (M)	Signal Transduction (I)	Nien-Jung Chen
21	11/27 (T)	Signal Transduction (II)	Pei-Lin Cheng
22	12/01 (M)	Cytoskeleton	Chin-Yin Tai
	12/04 (T)	(ASCB meeting)	
23	12/08 (M)	Apoptosis	Jong-Young Yen
24	12/11 (T)	Cell-Cell and Cell-ECM Interaction: Integration from Cells to Tissues	Yi-Ping Hsueh
25	12/15 (M)	Cancer	Sheau-Yann Shieh
26	12/18 (T)	Evolution	Jun-Yi Leu
27	12/22 (M)	Cell Cycle	Tang Tang
	12/25 (T)	Final Exam	Course organizer