

TIGP Molecular and Cell Biology for Fall 2023 (tentative on 2023/5/15)

Code	3024101
Credits	4 (lectures: 4 hr per week, in English)
Organizer	Dr. Hsou-min Li
References	Alberts et al. Molecular Biology of the Cell 7th ed.
Evaluation	<ol style="list-style-type: none"> 1. There are three exams scheduled. Each exam is 3 hours. The format is in-class and open-book but with no electronic devices allowed. Some instructors may also use in-class quiz or homework for grading. 2. Each lecture will weigh the same in your final grade 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 is required by their program.
Time	Monday 10:00-11:50 ; Thursday 14:30-16:20

Date	Week	Topic	pages	Instructor
9/4	(M)	Chapter 3 Protein Structure	115-140	Hung-Ta Chen
9/7	(T)	Chapter 3 Protein Function	140-179	See-Yeun Ting
9/11	(M)	Chapter 4 DNA, Chromosomes, and Genome	185-228	Chung-Ju Wang
9/14	(T)	Chapter 4 How Genomes Evolve	229-248	Jun-Yi Leu
9/18	(M)	Chapter 6 From DNA to RNA	323-357	Chien-Ling Lin
9/21	(T)	No class		
9/25	(M)	Chapter 5 DNA Replication, Repair, and Recombination	chap 5	Liuh-Yow Chen
9/28	(T)	Chapter 5 DNA Replication, Repair, and Recombination	chap 5	Liuh-Yow Chen
10/2	(M)	Chapter 6 From RNA to Protein and the RNA World	358-393	Tien-Hsien Chang
10/5	(T)	Exam 1 (13:30-16:30)		
10/9	(M)	National Birthday (No class)		
10/12	(T)	Chapter 7 Control of Gene Expression: transcriptional control	chap 7	Jun-An Chen
10/16	(M)	Chapter 7 Post-transcriptional Controls	chap 7	Jun-An Chen
10/19	(T)	Chapter 7 Non-coding RNA	chap 7	Jun-An Chen
10/23	(M)	Chapter 8 Mathematical Analysis of Cell Function	542-558	Sheng-hong Chen
10/26	(T)	Chapter 11 Small-Molecule Transport and Electrical Properties of Membranes	chap 11	Yi-Fang Tsay
10/30	(M)	Chapter 12 Intracellular Compartments and Protein Sorting	chap 12	Hsou-min Li
11/2	(T)	Chapter 12 Intracellular Compartments and Protein Sorting	chap 12	Hsou-min Li
11/6	(M)	Chapter 13 Intracellular Membrane Traffic	chap 13	Chi-Kuang Yao
11/9	(T)	Chapter 14 Energy Conversion:	chap 14	Jychian Chen

		Mitochondria and Chloroplasts		
11/13	(M)	No class		
11/16	(T)	Exam 2 (13:30-16:30)		
11/20	(M)	Chapter 16 The Cytoskeleton – Actin and Myosin	957-986	Yu-Ling Shih
11/23	(T)	Chapter 16 The Cytoskeleton – Microtubules	987-1023	Kuo-Chiang Hsia
11/27	(M)	Chapter 15 Cell Signaling – Principles and GPCR	873-910	Yen-Ping Hsueh
11/30	(T)	Chapter 15 Cell Signaling – Enzyme Coupled Receptors and Alternative Signaling	911-939	Cheng-Ting Chien
12/4	(M)	Chap 15 Signaling in Plants	940-945	Paul Verslues
12/7	(T)	No Class		
12/11	(M)	Chapter 17 The Cell Cycle	chap 17	Jen-Hsuan Wei
12/14	(T)	Chapter 18 Cell Death	chap 18	Guang-Chao Chen
12/18	(M)	Chapter 20 Cancer	chap 20	Sheng-hong Chen
12/21	(T)	Chapter 24 The Innate and Adaptive Immune Systems	chap 24	Kuo-I Lin
12/25	(M)	No class		
12/28	(T)	Final Exam (13:30-16:30)		

Note: Future ASCB Meetings: December 2-6, 2023

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