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 6 <sup>th</sup> ed.			
Evaluation	<ol> <li>A 2-hour exam will be conducted in a close-book and in-class format for both the mid-term and final exams. Some instructors may also use in-class quits or homework for grading.</li> <li>Each lecture will weigh the same in your final grade</li> <li>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.</li> </ol>			
Time	Monday 10:00-11:50 ; Thursday 14:30-16:20			
Place	R123, Institute of Molecular Biology, Academia Sinica			

Date		Торіс	pages	Instructor
9/2		(IMB retreat)		
9/5		MCB student orientation		
9/9	(M)	Chapter 3 Proteins	chap 3	Hung-Ta Chen
9/12	(T)	Chapter 3 Proteins	chap 3	Hung-Ta Chen
9/16	(M)	Chapter 4 DNA, Chromosomes and genome	175-216	Chung-Ju Wang
9/19	(T)	Chapter 4 How genomes evolve and evolution	216-236	Jun-Yi Leu
9/23	(M)	Chapter 5 DNA Replication, Repair, and Recombination	chap 5	Liuh-Yow Chen
9/26	(T)	Chapter 5 DNA Replication, Repair, and Recombination	chap 5	Liuh-Yow Chen
9/30	(M)	Chapter 6 From DNA to RNA	299-333	Chien-Ling Lin
10/3	(T)	Chapter 6 From RNA to protein and the RNA world	333-368	Tien-Hsien Chang
10/7	(M)	Chapter 7 Control of Gene Expression: transcriptional control	369-392	Su-May Yu
10/10	(T)	National Holiday (no class)		
10/14	(M)	Chapter 7 Control of Gene Expression: post- transcriptional controls, cell types, epigenetics, and non-coding RNA	392-438	Jun-An Chen
10/17	(T)	No class		
10/21	(M)	Chapter 7 Control of Gene Expression: cell types, epigenetics, and non-coding RNA	392-438	Jun-An Chen
10/24	(T)	No class		
10/28	(M)	Midterm Exam		
10/31	(T)	Chapter 11 Membrane Transport of Small Molecules and the Electrical Properties of Membranes	chap 11	Yi-Fang Tsay
11/4	(M)	Chapter 12 Intracellular Compartments and Protein Sorting	chap 12	Hsou-min Li
11/7	(T)	Chapter 12 Intracellular Compartments and Protein Sorting	chap 12	Hsou-min Li
11/11	(M)	Chapter 13 Intracellular Membrane Traffic	chap 13	Chi-Kuang Yao
11/14	(T)	Chapter 14 Energy Conversion: Mitochondria and Chloroplasts	chap 14	Jychian Chen
11/18	(M)	Chap 15 Signaling in plants (chap 15)	880-888	Jychian Chen
11/21	(T)	Chapter 16 The Cytoskeleton – actin and myosin	889-925	Yu-Ling Shih
11/25	(M)	Chapter 16 The Cytoskeleton – microtubules	925-962	Kuo-Chiang Hsia
11/28	(T)	Chapter 15 Cell Signaling – principles and GPCR	813-849	Yen-Ping Hsueh
12/2	(M)	Chapter 15 Cell Signaling – enzyme coupled	850-879	Cheng-Ting Chien

		receptors and alternative signalings		
12/5	(T)	Chapter 17 The Cell Cycle	chap 17	Jen-Hsuan Wei
12/9	(M)	Chapter 19 Cell Junctions and the Extracellular Matrix	chap 19	Yi-Ping Hsueh
12/12	(T)	Chapter 20 Cancer	chap 20	Sheng-hong Chen
12/16	(M)	Chapter 18 Cell Death	chap 18	Guang-Chao Chen
12/19		No Class		
12/23		Final Exam		Organizer

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