

國立中正大學生物醫學系分子生物博士班 課程大綱

課程名稱(中文)：	高等細胞分子生物學 (二) 週四 10:00-13:00 生醫系 Rm228
先修科目或 先備能力：	
課程概述：	Introduction of basic cellular functions of eukaryotic cells, including the structures and their functions, intracellular trafficking of molecules, signaling, growth and death of the cells, and specific emphasis on cancer.
學習目標：	To understand the structure-function cellular mechanisms of eukaryotic cells
教科書：	Molecular Biology of the Cell, 6th edition, Editors: Alberts et al. (ISBN: 9780815344643) (請尊重智慧財產權，不得非法影印教師指定之教科書籍)

教學要點概述：

1. 教材編選：☒自編教材 ☒教科書作者提供

2. 教學方法：☒投影片講述 ☐板書講述

3. 評量方法：☐上課點名 0%，☐小考 0%，☐作業 0%，☐程式實作 0%，
☐實習報告 0%，☐專案 0%，☒期中考 50%，☒期末考 50%，
☐期末報告 0%，☐其它 0%

4. 教學資源：☐課程網站 ☒教材電子檔供下載 ☐實習網站

5. 教學相關配合事項：

課程進度：

2/17	Introduction
2/24	Ch. 8/9 Techniques for Cell Biology Research (Chan)
3/3	Ch. 10 Membrane Structure (Chan)
3/10	Ch. 11 Membrane Transport of Small Molecules and Electrical Properties (Chan)
3/17	Ch. 12 Protein Sorting (Hsiao)
3/24	Ch. 12 Protein Sorting (Hsiao)
3/31	校際活動
4/7	Ch. 13 Intracellular Membrane Trafficking (Hsiao)
4/14	Mid-term Exam
4/21	Ch. 13 Intracellular Membrane Trafficking (Hsiao)
4/28	Ch. 15 Cell Signaling (Hsiao)
5/5	Ch. 15 Cell Signaling (Hsiao)
5/12	Ch. 16 The Cytoskeleton (Hsiao)
5/19	Ch. 17 The Cell Cycle (Chan)
5/26	Ch. 18 Cell Death (Chan)
6/2	Ch. 19 Cell Junctions and the Extracellular Matrix (Chan)
6/9	Ch. 20 Cancer (Chan)
6/16	Final Exam

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