

國立清華大學 101 學年第 1 學期課程大綱

科號	DMS 320100	組別		學分	3	人數限制	限醫科系及院學士班學生修習
修課年級	<input checked="" type="checkbox"/> 大學部 3 年級以上 <input type="checkbox"/> 碩士班一年級以上(含博士班) <input type="checkbox"/> 碩士班二年級以上(含博士班)						
上課時間	T7T8T9			教室	生二館 107 室		
科目中文名稱	細胞生物學						
科目英文名稱	Cell Biology						
任課教師	陳令儀、彭明德、王慧菁						
擋修科目				擋修分數			

※下列各欄由任課教師提供※

一、課程說明	The main goal of this course is to provide accessible introduction to the fundamental concepts of cell biology.
二、指定用書	Essential Cell Biology (Garland Science)
三、參考書籍	Literature reports
四、教學方式	Based on the chapters in the textbook with up to date reports from recent literature to fill in the gap of knowledge
五、教學進度	By 陳令儀: 1. Introduction to Cells 2. Chemical Components of Cells 11. Membrane Structure 12. Membrane Transport 15. Intracellular Compartments and Transport 16. Cell Communication 20. Tissues and Cancer By 彭明德: 3. Energy, Catalysis, and Biosynthesis 4. Protein Structure and Function

	<p>10. Manipulating Genes and Cells</p> <p>13. How Cells Obtain Energy from Food</p> <p>14. Energy Generation in Mitochondria and Chloroplasts</p> <p>17. Cytoskeleton</p> <p>By 王慧菁</p> <p>5. DNA and Chromosomes</p> <p>6. DNA Replication, Repair, and Recombination</p> <p>7. From DNA to Protein: How Cells Read the Genome</p> <p>8. Control of Gene Expression</p> <p>9. How Genes and Genomes Evolve</p> <p>18. The Cell Division Cycle</p> <p>19. Genetics, Meiosis, and the Molecular Basis of Heredity</p>
六、成績考核	<p>2 midterm</p> <p>1 final exam</p>
七、講義位址 http://	University e-learning system