

生命科學系 97 學年度上學期課程大綱

科號	LS 324100	組別		學分	2	人數限制	50
科目中文名稱	基礎細胞生物學			教室			
科目英文名稱	Fundamental Cell Biology						
任課教師	葉世榮 藍忠昱 高茂傑 汪宏達						
上課時間	7 8 節 星期四						
擋修科目				擋修分數			

一、課程說明	對象為本校非生科系之大學部學生及本院原非生科主修之研究生。啟發學生對於細胞生物學之興趣及初步瞭解，以協助銜接爾後生科系各類之高階課程。
二、指定用書	The world of the cell Becker, Kleinsmith & Hardin (6th edition)
三、參考書籍	
四、教學方式	
五、教學進度	<p>SR, Yeh</p> <ol style="list-style-type: none"> 1. Cells and Organelles (9/18/08) 2. Membranes: their structure, function, and chemistry (9/25/08) 3. Transport across membrane; overcoming the permeability barrier (10/2/08) 4. Signal transduction mechanism: electrical signals in nerve cells (10/9/08) <p>CY, Lan</p> <ol style="list-style-type: none"> 5. Signal transduction mechanism; messengers and receptors (10/16/08) 6. Beyond the cell; extracellular structures, cell adhesion and cell junctions (10/23/08) 7. Cytoskeletal systems (10/30/08) 8. Cellular movement: motility and contractility (11/6/08) <p><u>The 1st midterm examination (11/13/08)</u></p>

	<p>MC, Kao</p> <p>9. Intracellular compartments: the endoplasmic reticulum, Golgi complex, endosomes, lysosomes, and peroxisomes (11/20/08)</p> <p>10. Chemotrophic energy metabolism: glycolysis and fermentation (11/27/08)</p> <p>11. Chemotrophic energy metabolism” Aerobic respiration (12/4/08)</p> <p>12. Phototrophic metabolism: photosynthesis (12/11/08)</p> <p>HD, Wang</p> <p>13. Sexual reproduction, meiosis and gene recombination (12/18/08)</p> <p>14. Gene expression I: The genetic code and transcription (12/25/08)</p> <p>15. <u>January 1st: no class</u></p> <p>16. Gene expression II: Protein synthesis and sorting (01/08/09)</p> <p><u>Final examination: 01/15/09</u></p>
六、成績考核	期中期末兩次筆試; 各佔 50%
七、講義位址 http://	