

日期	主題	備註
2/23	<b>Lecture:</b> 介紹助教、分組；看實驗室安全錄影帶；儀器、器材、實驗室介紹；學期評分說明；介紹動物細胞培養及培養基成分 <b>Lab:</b> Clean culture room, 練習使用 pipet aid, pipetman, 練習 sterile techniques	陳令儀老師
3/2-3/5	<b>Lecture:</b> Methods for counting, freezing and thawing cells、介紹光學顯微鏡 (助教) <b>Lab:</b> 配製培養基, 觀察細胞, feed cells, 看影片 (空檔時間) ※週間需和助教約時間 feed cells	
3/9-3/12	<b>Lab:</b> 觀察細胞、細胞繼代培養、細胞計數、凍細胞、決定細胞生長曲線、growth curve and doubling time 計算練習+看影片 (空檔時間) ※週間需和助教約時間，於不同時間點作細胞計數	
3/16,17	<b>Lecture:</b> Introducing membrane protein and actin cytoskeleton structure of cells and immunofluorescence staining technique Introducing immunofluorescence microscope (助教) <b>Lab:</b> 解凍細胞, 觀察細胞 recovery rate 計算練習 (空檔時間) ※隔天作細胞計數估計存活率	
3/23,24	<b>Lecture:</b> 操作考 (2hr) <b>Lab:</b> Perform wound-healing assays to measure cancer cell migration ※隔天觀察 cell migration 結果	
3/30,31	<b>Lab:</b> Immunofluorescence staining of mitochondria and actin cytoskeleton structure of COS-7 cells, taking images (please make reservation ahead of time and show up to use the microscope on time), 課程內容複習 (空檔時間) ※隔天觀察染色結果	
4/13	<b>Presentation</b>	
4/20	<b>mid-term exam (1.5hr)</b>	
4/27	<b>Plasmid DNA extraction</b>	林玉俊老師
5/4	<b>DNA transfection and live-cell imaging</b>	
5/11	<b>Calcium imaging</b>	
5/18	<b>Promoter activity assay</b>	
5/25	<b>Image J analysis</b>	
6/1	<b>Presentation</b>	
6/8	<b>Final exam</b>	