

日期	主題	備註
2/20	<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 sterile techniques	
2/27	<b>Lecture:</b> Methods for counting, freezing and thawing cells、介紹光學顯微鏡(助教) <b>Lab:</b> 練習使用 pipetman, 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	
3/5	<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	
3/12	<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	陳令儀老師
3/19	<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	
3/26	<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	
4/2	<b>Presentation</b>	
4/9	<b>mid-term exam (1.5hr)</b>	
4/16	<b>Plasmid DNA extraction</b>	林玉俊老師
4/23	<b>DNA transfection and live-cell imaging</b> ※隔天照live-cell imaging	
4/30	<b>Calcium imaging</b>	
5/7	<b>Promoter activity assay</b> ※週間回來做induction及看結果	
5/14	<b>Image J analysis</b>	
5/21	<b>Presentation</b>	
5/28	<b>Final exam</b>	