

朝陽科技大學 099學年度第2學期教學大綱
Cell Biology Technologies for Advanced Study 進階細胞學技術

當期課號	7231	Course Number	7231
授課教師	李孟真	Instructor	LEE,MENG JEN
中文課名	進階細胞學技術	Course Name	Cell Biology Technologies for Advanced Study
開課單位	生化科技研究所博士班二A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	生物醫學之研究常使用活體外細胞培養之技術，期望可了解分子層級的機制。研究生執行論文實驗計畫前應該對相關種種技術之理論及實際操作面多加了解。本課程希望提供即將從事進階生物醫學相關計畫之不同學習背景的博士班學生的訓練。	Objectives	In vitro cultures of the cells were frequently used in biomedical research for the study of mechanism at the molecular level. Graduate students should be equipped with knowledge of this technology before carrying out their research project. This course is designed for training PhD students of different background that would take on advanced study in the field of biomedical research.
教材	Culture of animal cells: a manual of basic technique and specialized application. by R Freshney. published by Wiley inc.	Teaching Materials	Culture of animal cells: a manual of basic technique and specialized application. by R Freshney. published by Wiley inc.
成績評量方式	考試及平常成績	Grading	test and presence
教師網頁	-		
教學內容	相關理論 實驗室 無菌操作 氣體 培養基 細胞株一般培養 分離細胞株 不同 分子與胞器的分離 細胞生長與轉化 汙染源 定量及試驗 初代細胞培養 (一) 初代細胞培養 (二) 組織切片染色技術 免疫螢光染色技術 血球細胞的分離 流式細胞儀分析	Syllabus	the theoretical aspects, the lab layout, aseptic techniques, the gas, the media maintenance of the cell lines cloning and selection of cells physical methods of cell separation cell growth and transformation contmination quantification and experimental design culture of primary cells (1) culture of primary cells (2) histology immunostaining separation of blood cells flow cytometry

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