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②國玄東華大學

課 網 Course Outline 生化暨分子醫學科學系碩士班一般組

中文課程名稱 Course Name in Chinese		幹細胞核心技術					
英文課程名稱 Course Name in English		Core Techniques in Stem Cell Research					
科目代碼 Course Code		BMM_58960	班 別 Degree		碩士班 Master's		
修別 Type		選修 Elective	學分數 Credit(s)	3.0	時 數 Hour(s)	3. 0	
1	多課程 requisite						
課程目標							
Course Objectives							
 熟習幹細胞研究領域核心技術之原理與實作 培養學生從事幹細胞生物科技相關領域研究之知能。 							
系教育目標 Dept.'s Education Objectives							
1	培養從事生化及生物醫學之專業人才。 Cultivating professionals engaged in biochemistry and molecular medicine.						
2	培育學生具有自我學習、獨立思考與創新之能力。 Fostering students to acquire the capabilities of self-learning, independent thinking, and innovation.						
系專業能力 Basic Learning Outcomes					力相關性 Correlati between (課程目標與系專業能 力相關性 Correlation between Course Objectives and	
					1 -	Dept.'s Education Objectives	
A	具備生物技術相關學科之基礎知識。 Having a fundamental understanding of subjects related to biotechnological techniques.					•	
В	具備邏輯分析與解決問題的能力。 Having the capabilities of logical analysis and problem solving.						
С	具備資料整合、數據分析與書面及口頭報告能力。 Having the capabilities of data integration and analysis, and the skills of written and poster presentation.						
D	具備終生學習的能力。 Having the capability of lifelong learning.						

溝通協調能力與團隊合作之精神,及生物醫學工作人員專業倫理。
E The spirit of communication, coordination, and teamwork, as well as professional ethics for biomedical workers.

圖示說明Illustration :● 高度相關 Highly correlated ○中度相關 Moderately correlated

課程大綱

Course Outline

本課程著眼於幹細胞研究領域核心技術之原理與實作,主題包括:

- 1. 不同種類幹細胞之取得
- 2. 幹細胞的定向分化
- 3. 幹細胞的特性鑑定與分析
- 4. 幹細胞擴增系統與生物反應器

資源需求評估 (師資專長之聘任、儀器設備的配合···等)

Resources Required (e.g. qualifications and expertise, instrument and equipment, etc.)

現有合宜專任師資;購置訂閱幹細胞生物技術相關圖書及期刊,提供單槍投影機等教學用具。

課程要求和教學方式之建議

Course Requirements and Suggested Teaching Methods

本課程除主題講授外,適時進行幹細胞生物技術領域代表性新發表期刊學術論文之選讀與討論。

其他

Miscellaneous

口頭考試 50%

書面報告 50%