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②國玄東華大學

課 綱 Course Outline 海洋生物研究所碩士班生物科技組

Cou	文課程名稱 rse Name in nese	高階細胞培養技術					
英文課程名稱 Course Name in English		Cell Culture Application					
科目代碼 Course Code		MBT_56480	班 別 碩士班 Degree Master's				
修为 Typ		選修 Elective	學分數 Credit(s)	3. 0	時 數 Hour(s)	3. 0	
	多課程 erequisite						
		Cou	課程目標 rse Objectives				
		包培養方法及細胞實驗。 E題連貫性之課程,培					
		Dept.'s E	系教育目標 Education Object	tives			
1	培育海洋生命科學領域之研究人才 Nurture an international outlook of marine biotechnology research talent.						
2	培養基礎理論與應用研究兼備之人才 Cultivation of biotechnology industry specific skills and research talent.						
3	培養具國際觀之海洋生物科技研究人才 Cultivation of marine life sciences research talent.						
4	培養生物科技產業所需之技術或研究人才 Basic training in both theory and applied research talent.						
5	培養團隊合作能力之研究人才 Develop teamwork skills of research talent.						
カ相關 系専業能力 Correl betwee Basic Learning Outcomes Object					力相關性 Correlat between (Objective	Course	
A	具備海洋生命科學		noo is nooded		Objective		
В	Basic knowledge of marine life science is needed. 具備獨立、創新及執行研究的能力 Independent innovation and the research ability are needed.						
С	具備邏輯思考、問]題分析與問題解決的怠 g, problem analysis	<u>.</u> も力				

D	具備領導、溝通協調與團隊合作的能力 Good team communication, coordination and leadership skills are needed.					
Е	具備國際視野以及外語溝通的能力 International vision and ability to communicate in foreign languages.					
F	善用資訊科技進行資訊蒐集、資料分析與統整 Use of information technology for information collection, analysis and integration.					
G	對於學術倫理及專業倫理有正確的認知與堅持 For professional ethics and academic responsibility have a correct understanding and persistence.					
圖示說明Illustration : ● 高度相關 Highly correlated ○中度相關 Moderately correlated						
課程大綱						
Course Outline						
2. 3.	 Basic cell culture Establishment, maintenance, and cloning of himan dermal fibroblasts Aging of cultured human skin fibroblasts 					
5.	4. Ex vivo maintenance of differentiated mammalian cells 5. Scale-up of suspension and anchorage-dependent animal cells 6. Hollow-fiber cell culture					
7. 8.	7. Separation and maintenance of primary T and B-lymphoacytes 8. Human pilosebaceous culture					
	9. Keratinocyte culture 10. Tissue culture of skeletal muscle					
	11. Isolation of Rat liver hepatocytes					
	12. Primary kidney cells					
1	13. Human thyroid cells 14. Long-term B-lymphoid cultures from murine bone marrow					
	I and torm D lymphoid outtured from musica have marrow					

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.)

> 課程要求和教學方式之建議 Course Requirements and Suggested Teaching Methods

> > 其他 Miscellaneous

15. High proliferation potential colony-forming cells

16. Culturing primitive hemopoietic cells