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Course Outline 課

		生化暨分子醫學	P科學系博士				
中文課程名稱 Course Name in Chinese		高等分子細胞生物學					
英文課程名稱 Course Name in English		Advanced Molecular Cell Biology					
科目代碼 Course Code		BMM_D0040	班 別 Degree	博士班 Ph. D.			
修別 Type		必修 Required	學分數 Credit(s)	3. 0	時 數 Hour(s)	3. 0	
先修課程 Prerequisite							
課程目標 Course Objectives The course aims to guide students to understand cell biology, molecular cell biology, knowledge, scientific rationale, and methodology; in addition, students can learn the ability to gain comprehensive understanding of scientific issues related to cell biology.							
系教育目標 Dept.'s Education Objectives							
1		養從事生化及生物醫學之高階專業人才。 ltivating high-level professionals engaged in biochemistry and molecular dicine.					
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.						
京專業能力					Course es and Education		
A	具備執行生物醫學專業研究及解決問題的能力。 Have the ability to conduct biomedical professional research and solve problems.						
В		身學習及創新應用能力。 e ability to absorb ne		engage in		•	

lifelong learning, and apply innovation.

perspective.

具備專業領域的研究素養,並具有國際視野之科學涵養。

Having expertise in the professional field of study and possessing a scientific cultivation with an international

D	具備計畫書與論文撰寫之能力。					
	Possessing the ability to write project proposals and papers.					
Е	具備培養年輕生物醫學工作人員之能力。					
E	Have the ability to cultivate young 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						
1. The work and molecules of cells						
2. Biomembrane and membrane transport						
3. Membrane trafficking						
4. Cytoskeleton and microtubules						
5. Biosignaling in cells						
6. Cell cycle and cell growth control						
7. In vivo cell biology and development						
8. Integrating cells into tissues						
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.)						
Computer-aided projector						
課程要求和教學方式之建議						
Course Requirements and Suggested Teaching Methods						
其他						
	Miscellaneous					