處理學期(Current Semester)：1091

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1091學期所開設課程『免疫學』的課程內容

課程代碼(Course Number)		B3A04667	
授課老師(Instructor)		龔瑞林(Zwe-Ling Kong)	
中文課名(Chinese Course Title)		免疫學	
英文課名(English Course Title)		Immunology	
開課年班(Grade and Class)		4A	
選課人數(Quantity)		11	
選課類別(Course Type)		選修(Elective Course)	
上課時間(Course Meeting Days/Times)		502,503,504	
上課地點(Classroom)		000,000,000	
開課系所(Department/Institute Office of Course)		食品科學系生物科技組(Food Science, Division of B	
學分(Credit(s))	3	時數(Course Hour(s))	3
人數上限(Maximum Number of Students)	50	人數下限(Minimum Number of Students)	10
開課期別(Course Type)		單學期(semester course)	
是否實習		否	
備註(Note)	吳彰哲老師和龔瑞林老師合上,食科組合班上課.上課地點生科館群海廳108. 課程雖然開在生技組，但食科組學生一樣歡迎選修，歷年來學習效果基本上是一樣的。		

課程綱要

教學目標	中 文	為日間部學院生物技術學程課程，宗旨是期待能增加生命科技的發展性及因應國際間免疫科技之教學趨勢，教授及探討基本學術原理及日常生活性、產業研發的免疫機制議題，因此本課程為有志進入生技產學界的必要選擇考慮。
Objective	English	This course was designed through seminar presentation, that will extend the basic knowledge of immunology. The lectures will focus on intensively active areas of cellolar immunology research. Basic principles will be reinforced by considering disease states in which basic cell biological processes as well as immune response are defective.
先修科目	中 文	最好修過生物化學、微生物學或細胞生物學
Pre Course	English	Prefer biochemistry, microbiology, cell biology background.
教材內容	中 文	1. Immunity and Biodefense Mechanisms2. Factors, Cells and Organs of the Immune System3. Complement and Kinin System4. Hematopoietic Tree and Lymphocytes Anatomy5. Immune Response, RES and Regulation6. Inflammation and Granunocytes7. Immunogenicity involved to Antigen Discrimination8. Effectors and ECM involved to Immune Reactions9. MHC, Recognition Molecules and Transplantation10. T cell Receptor, Maturation and Selection11. B cell Maturation and Clonal Selection12. Genetics in Antibody Production13. Cyt
Outline	English	AS show on website
教學方式	中 文	盡量提供充分討論時間，著重在基本免疫機制原理上的認知
Teaching Method	English	mutual interactive teaching and discussion. strengthen the acknowledge and thinking power in theoritical learning of basic Immunology
參考書目	中 文	The Immmune System, 2nd., 2005, Peter Parham 偉明圖書
Reference	English	AS show on website
教學進度	中 文	如網頁登載安排進度
Syllabus	English	AS show on website
評量方式	中 文	平時考核50%，期末考50%。平時考核為出席率及期中考
Evaluation	English	50% manner attitude, attendance, and mid exam, 50% final exam

參考網址

http://ind.ntou.edu.tw/~kongzl/biostudy.htm