處理學期(Current Semester)：1092

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1092學期所開設課程『分子免疫學』的課程內容

| | |
|---|---|
| 課程代碼(Course Number) | D3201169 |
| 授課老師(Instructor) | 龔瑞林(Zwe-Ling Kong) |
| 中文課名(Chinese Course Title) | 分子免疫學 |
| 英文課名(English Course Title) | Molecular Immunology |
| 開課年班(Grade and Class) | 1A |
| 選課人數(Quantity) | 5 |
| 選課類別(Course Type) | 選修(Elective Course) |
| 上課時間(Course Meeting Days/Times) | 202,203,204 |
| 上課地點(Classroom) | 000,000,000 |
| 開課系所(Department/Institute Office of Course) | 食品科學系博士班(Food Science) |
| 學分(Credit(s)) 3 | 時數(Course Hour(s)) 3 |
| 人數上限(Maximum Number of Students) 5 | 人數下限(Minimum Number of Students) 3 |
| 開課期別(Course Type) | 單學期(semester course) |
| 是否實習 | 否 |
| 備註(Note) 博碩士班合開課程. | |

## 課程綱要

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| 教學目標 | 中 文 | 本課程提供碩博士班學生細胞分子免疫方面的基礎理論知識及應用發展思想空間，期助於食品科學研究領域中，有較深廣的視野包括特重在疾病醫學相關議題上。授課由基礎觀念導至研究和應用，因此也適合無基本免疫學背景者，非常歡迎各實驗室研究生想藉由討論方式學習的同學選修。 |
| 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 | 最好具備生物化學、細胞生物學或分子生物學知識 |
| Pre Course | English | Prefer biochemistry, molecular biology, cell biology background. |
| 教材內容 | 中 文 | 如英文所列議題皆可為口頭發表內容 |
| Outline | English | Properties of Immunity and Biodefense Mechanism, Factors, Cells and Organs of Immune System, Imune Response and Regulation Network, Lymphicytes Anatomy, MHC, Recogniting Molecules and Transplantation, T Cell Receptor, Maturation and Selection, B Cell Maturation and Clonal Selection, Genetics in Antibody Production, Antigen Discrimination, Inflammation and Granunocytes, Cytokine Network, Antibody Structure and Function, Complement and Kinin System, Effectors and ECM involved to Immune Reactions, infection |
| 教學方式 | 中 文 | 以細胞分子生物學的觀點，來討論免疫的現象和機轉，並藉以介紹實驗操作法。上課為seminar開放討論方式，並指導學生選定主題完成專題報告訓練, 約每人兩次機會 |
| Teaching Method | English | All attendee need training by turn, then instructor give comments and suggestion. |
| 參考書目 | 中 文 | Cellular and Molecular Immunolgy, 5td ed.,2003, A.K. Abbas-藝軒圖書 |
| Reference | English | As show on website |
| 教學進度 | 中 文 | 期中考前及期末考前為專題報告訓練各一次 |
| Syllabus | English | all attendee need training by turn, and at least two times oral presentation |
| 評量方式 | 中 文 | 平時考核50%，50%口頭發表。平時考核為出席率、兩次以上口頭發表(Powerpoint),沒有期中或期末考試 |

Evaluation English 50% manner attitude and attendance, 50% oral presentation. No any exam.

參考網址

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