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②国玄東華大學

課 綱 Course Outline 生化暨分子醫學科學系學士班

中文課程名稱 Course Name in Chinese		免疫學					
英文課程名稱 Course Name in English		Immunology					
科目代碼 Course Code		BMM_30300	班 別 學士班 Degree Bachelor's				
修別 Type		學程 Program	學分數 Credit(s)	3. 0	時 數 Hour(s)	3. 0	
先修課程 Prerequisite		無					
課程目標 Course Objectives							
建立免疫學之基本概念及知識。							
系教育目標							
Dept.'s Education Objectives 1 培養生化及生物醫學相關領域之人才。							
1	Cultivating talents 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 Correlat between Objectiv Dept.'s	課程目標與系專業能 力相關性 Correlation between Course Objectives and Dept.'s Education Objectives	
A	具備生命科學相關學科之基礎知識。 Having the basic knowledge of life science.						
В	具備邏輯分析與解決問題的能力。 Having the capabilities of logical analysis and problem solving.					0	
С	具備資料整合、數據分析與書面及口頭報告之能力。 Having the capabilities of data integration and analysis, and the skills of written and poster presentation.					0	
D	具備終生學習的能力。 Having the capability of lifelong learning.						
圖示說明Illustration : ● 高度相關 Highly correlated ○中度相關 Moderately correlated							
課程大綱							

Course Outline

- (1) Introduction to Vertebrate Immunity
- (2) The Origins of Immune Response
- (3) Cells of the Immune System
- (4) Immunoglobulins and B-Cell Receptors
- (5) T-Cell Factors and Receptors
- (6) The Major Histocompatibility Complex
- (7) Complement and Other Activation Systems
- (8) Lymphocyte-Activating Substances
- (9) Immune Responses Dominated by Cells of the Monocytic Series
- (10) Responses Dominated by T Lymphocytes
- (11) Responses Dominated by B Lymphocytes
- (12) Systemic and Regional Immune Responses
- (13) Immunological Tolerance
- (14) Allergies and Other Antibody-Mediated Hypersensitivities
- (15) Autoimmunity and Autoimmune Diseases
- (16) Immunodeficiency Diseases

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;購置訂閱免疫學相關圖書及期刊,提供幻燈機,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,並說明重要實驗設計方法及指導相關儀器設備操作

。另外,適時進行免疫學領域代表性新發表期刊學術論文之選讀與討論。

其他

Miscellaneous