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## ②國玄東華大學

# 教學計劃表 Syllabus

課程名稱(中文) Course Name in Chinese	免疫學				學年/學期 Academic Year/Se	113/2		
課程名稱(英文) Course Name in English	Immunology							
科目代碼 Course Code	BMM_30300	系級 Department 學三 & Year		開課單位 Course-Offering Department	生化暨分子醫學科學系			
修別 Type	學程 Program	學分數/時間 Credit(s)/Hour(s)			3.0/3.0			
授課教師 Instructor	/彭致文/黃靖惠							
先修課程 Prerequisite								

#### 課程描述 Course Description

該專業旨在為學生提供免疫學的基本概念和詞彙。目的是使來自不同背景的學生對免疫學有基本的了解,並能夠欣賞 和分析設計用於治療疾病的免疫學療法的新發展。藉由介紹免疫系統與微生物的互動機制,以及免疫系統對於感染症 的正向與反向的影響。瞭解免疫系統在自體免疫,過敏反應及其他免疫相關疾病的病理機制探討。

#### 課程目標 Course Objectives

建立免疫學之基本概念及知識。

圖示說明Illustration : ● 高度相關 Highly correlated ○中度相關 Moderately correlated

#### 授課進度表 Teaching Schedule & Content

週次Week	內容 Subject/Topics	備註Remarks
1	Chapter 1 Elements of the Immune System and their Roles in Defense	
2	Chapter 2 Innate Immunity: the Immediate Response to Infection	
3	Chapter 3 Innate Immunity: the Induced Response to Infection	
4	Chapter 4 Antibody Structure and the Generation of B-Cell Diversity	
5	Chapter 5 Antigen Recognition by T Lymphocytes	
6	Chapter 6 The Development of B Lymphocytes	
7	Chapter 7 The Development of T Lymphocytes	
8		
9	期中考試週 Midterm Exam	
10	Chapter 8 T Cell-Mediated Immunity	
11	Chapter 9 Immunity Mediated by B Cells and Antibodies	

12	Chapter 10 Preventing Infection at Mucosal Surfaces						
13	Chapter 11 Immunological Memory and Vaccination						
14	Chapter 12 Coevolution of Innate and Adaptive Immunity						
15	Chapter 13 Failures of the Body's Defenses						
16	Chapter 14 IgE-Mediated Immunity and Allergy						
17	期末考試週 Final Exam						
18	Discussion and feedback						
	教學策略 Teaching Strategies						
✓ 課堂講	授 Lecture						
其他Mi	scellaneous:						
	教學創新自評 Teaching Self-Evaluation						
創新教學(	Innovative Teaching)						
問題導向學習(PBL) ■ ■ 解決導向學習(SBL)							
翻轉教室 Flipped Classroom							
社會責任(Social Responsibility)							
在地實踐Community Practice							
跨域合作(Transdisciplinary Projects)							
■ 跨界教學Transdisciplinary Teaching ■ 跨院系教學Inter-collegiate Teaching							
業師合授 Courses Co-taught with Industry Practitioners							

學期成績計算及多元評量方式 Grading & Assessments									
配分項目	配分比例	多元評量方式 Assessments							
Items	Percentage	測驗 會考	實作 觀察	口頭 發表	專題 研究	創作 展演	卷宗 評量	證照 檢定	其他
平時成績(含出缺席) General Performance (Attendance Record)	20%		<b>~</b>	<b>~</b>					
期中考成績 Midterm Exam	30%	<b>~</b>							
期末考成績 Final Exam	30%	~							
作業成績 Homework and/or Assignments	20%		~		~				
其他 Miscellaneous									

評量方式補充說明

Grading & Assessments Supplemental instructions

### 教科書與參考書目(書名、作者、書局、代理商、說明)

Textbook & Other References (Title, Author, Publisher, Agents, Remarks, etc.)

The Immune System, Fourth Edition 5th 版本, Kindle Edition

課程教材網址(含線上教學資訊,教師個人網址請列位於本校內之網址)

Teaching Aids & Teacher's Website(Including online teaching information.

Personal website can be listed here.)

其他補充說明(Supplemental instructions)