



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/Semester	114/2	
課程名稱(英文) Course Name in English	Immunology				
科目代碼 Course Code	BMM_30300	系級 Department & Year	學三	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					
<p>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。</p>					
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
 分組討論 Group Discussion
 參觀實習 Field Trip
 其他 Miscellaneous:

教學創新自評 Teaching Self-Evaluation

創新教學 (Innovative Teaching)

- 問題導向學習 (PBL)
 團體合作學習 (TBL)
 解決導向學習 (SBL)
 翻轉教室 Flipped Classroom
 磨課師 Moocs

社會責任 (Social Responsibility)

- 在地實踐 Community Practice
 產學合作 Industry-Academia Cooperation

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

其它 other:

學期成績計算及多元評量方式 Grading & Assessments

配分項目 Items	配分比例 Percentage	多元評量方式 Assessments							
		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%		✓	✓					
期中考成績 Midterm Exam	30%	✓							
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)