



教學計劃表 Syllabus

課程名稱(中文) Course Name in Chinese	高階藥效評估		學年/學期 Academic Year/Semester	112/2
課程名稱(英文) Course Name in English	Introduction of Pharmaceutical Function			
科目代碼 Course Code	MBT_56490	系級 Department & Year	碩士	開課單位 Course-Offering Department 海洋生物研究所
修別 Type	選修 Elective	學分數/時間 Credit(s)/Hour(s)	3.0/3.0	
授課教師 Instructor	/呂美津			
先修課程 Prerequisite				
課程描述 Course Description				
藥效評估對於國際性地新藥開發仍是最主要的一門課題，本課程著重在討論各種天然物的藥用治療特性及其作用機制，包括抗菌、抗發炎、抗癌、抗病毒及抗氧化等之現今臨床用藥物，使研究生能獲得較新的理論及應用方法，充當新藥設計與開發之借鏡。				
課程目標 Course Objectives				
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	Drugs and drug targets: an overview			
2	Enzymes as drug targets			
3	Receptors as drug target			
4	Nucleic acids as drug targets			
5	Miscellaneous drug target			
6	Pharmacokinetics and related topics			
7	Drug discovery: finding a lead			
8	Drug discovery: finding a lead			
9	期中考試週 Midterm Exam			
10	Drug design: optimizing target interactions			
11	Drug design: optimizing access to the target			
12	Getting the drug to market			
13	Antibacterial agent			
14	Antiviral agents			
15	Anticancer agents			

16	Anticancer agents	
17	Antioxidant agents	
18	期末考試週 Final Exa	

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 General Performance	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.)

An Introduction to Medicinal Chemistry, Edited by Graham L. Patrick. Oxford university press.

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)