



教學計劃表 Syllabus

課程名稱(中文) Course Name in Chinese	高階活性天然物			學年/學期 Academic Year/Semester	113/2
課程名稱(英文) Course Name in English	Special Topics of Bioactive Natural Products				
科目代碼 Course Code	MBT_56470	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					
在中華文化裡，健康食品其實並非一個全新的概念，中國早在數千年前就有藥食同源的觀念，將飲食與防病治病兩者扯上密切的關係，藥膳及食療等傳統養生觀念深植民心。就以蓮子、芡實、扁豆、赤小豆、山藥等食材為例，除了常用作一般的傳統食材以外，在傳統中醫觀念中，更具有保健養生的效果。而利用中草藥作為保健產品的成分，早已成為保健產品發展趨勢之一。由於國人在飲食文化和養生調理的觀念影響下，對中草藥的功效和應用範疇的接受程度頗高，所以國人在發展保健產品時，特別重視並選用中草藥作天然物為原材料，正好配合現代保健產品的發展趨勢和特色，因此可以預期以天然物活性研發健康食品或其他保健產品，將有很大的發展潛					
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	Anticancer drug (taxol) :Study into clinics-Development of Taxol into the clinical trial				
2	Anticancer drug (taxol): Action and mechanism-Action and mechanism of taxol				
3	Anticancer drug (taxol): Action and mechanism				
4	Anticancer drug (betulinic acid): Study into clinics-Development of betulinic acid into the clinical trial				
5	Anticancer drug (betulinic acid): Action and mechanism-Action and mechanism of betulinic acid				
6	Anticancer drug (betulinic acid): Action and mechanism-Action and mechanism of betulinic acid				
7	Anticancer drug (camptothecin): Study into clinics-Development of camptothecin into the clinical trial				
8	Anticancer drug (camptothecin): Action and mechanism-Action and mechanism of camptothecin				
9	期中考試週 Midterm Exam				
10	Anticancer drug (camptothecin): Action and mechanism-Action and mechanism of camptotheci				
11	Anticancer drug (resveratrol) : Study into clinics-Development of resveratrol into the clinical trial				

12	Anticancer drug (resveratrol): Action and mechanism-Action and mechanism of resveratrol	
13	Anticancer drug (resveratrol): Action and mechanism-Action and mechanism of resveratrol	
14	Anticancer drug (curcumin.) : Study into clinics Development of curcumin into the clinical trial	
15	Anticancer drug (curcumin): Action and mechanism-Action and mechanism of curcumin	
16	Anticancer drug (podophyllotoxin) : Study into clinics-Development of podophyllotoxin into the clinical trial	
17	Anticancer drug (podophyllotoxin): Action and mechanism-Action and mechanism of podophyllotoxin	
18	期末考試週 Final Exam	

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.)									
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)									