



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	112/2
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				
<p>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</p>				
課程目標 Course Objectives				
<p>圖示說明Illustration：● 高度相關 Highly correlated ○ 中度相關 Moderately correlated</p>				
授課進度表 Teaching Schedule & Content				
週次Week	內容 Subject/Topics			備註Remarks
1	Anticanecr drug (taxol) :Study into clinics-Development of Taxol into the clinical trial			
2	Anticanecr drug (taxol): Action and mechanism-Action and mechanism of taxol			
3	Anticanecr drug (taxol): Action and mechanism			
4	Anticanecr drug (betulinic acid): Study into clinics-Development of betulinic acid into the clinical trial			
5	Anticanecr drug (betulinic acid): Action and mechanism-Action and mechanism of betulinic acid			
6	Anticanecr drug (betulinic acid): Action and mechanism-Action and mechanism of betulinic acid			
7	Anticanecr drug (camptothecin): Study into clinics-Development of camptothecin into the clinical trial			
8	Anticanecr drug (camptothecin): Action and mechanism-Action and mechanism of camptothecin			
9	期中考試週 Midterm Exam			
10	Anticanecr drug (camptothecin): Action and mechanism-Action and mechanism of camptotheci			
11	Anticanecr 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 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.)

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)