Please consult Intellectual Property Rights before making a photocopy. Please use the textbook of copyrighted edition.

②图玄束華大學

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 碩士 & Year		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	Anticanecr drug (taxol):Study into clinics-Development of Taxol into the clinical trial	
2	Anticaneer drug (taxol): Action and mechanism-Action and mechanism of taxol	
3	Anticanecr drug (taxol): Action and mechanism	
4	Anticaneer drug (betulinic acid): Study into clinics-Development of betulinic acid into the clinical trial	
5	Anticaneer drug (betulinic acid): Action and mechanism-Action and mechanism of betulinic acid	
6	Anticaneer drug (betulinic acid): Action and mechanism-Action and mechanism of betulinic acid	
7	Anticaneer drug (camptothecin): Study into clinics-Development of camptothecin into the clinical trial	
8	Anticaneer 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	Anticanecr drug (resveratrol): Action and mechanism-Action and mechanism of resveratrol					
13	Anticanecr drug (resveratrol): Action and mechanism-Action and mechanism of resveratrol					
14	Anticanecr drug (curcumin.): Study into clinics Development of curcumin into the clinical trial					
15	Anticanecr drug (curcumin): Action and mechanism-Action and mechanism of curcumin					
16	Anticanecr drug (podophyllotoxin) : Study into clinics-Development of podophyllotoxin into the clinical trial					
17	Anticaneer drug (podophyllotoxin): Action and mechanism-Action and mechanism of podophyllotoxi					
18	期末考試週 Final Exam					
	教學策略 Teaching Strategies					
課堂講	授 Lecture					
其他Mis	scellaneous:					
	教學創新自評 Teaching Self-Evaluation					
創新教學(Innovative Teaching)					
問題導	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						
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						
其它 other:						

學期成績計算及多元評量方式 Grading & Assessments									
配分項目	配分比例 Percentage	多元評量方式 Assessments							
Items		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)