



課 綱 Course Outline
海洋生物研究所碩士班生物科技組

中文課程名稱 Course Name in Chinese	珊瑚化學特論				
英文課程名稱 Course Name in English	Special Topics on Coral Chemistry				
科目代碼 Course Code	MBT_56650	班 別 Degree	碩士班 Master' s		
修別 Type	選修 Elective	學分數 Credit(s)	3.0	時 數 Hour(s)	3.0
先修課程 Prerequisite					
課程目標 Course Objectives					
延續海洋天然物化學課程，但主要針對珊瑚(含六放及八放珊瑚)中所含有的特定化學物質(如天然物與碳酸鈣等)的物理、化學及生物特性做一概括性論述。並期望修課學生能針對特定研究題材有完整之認知。					
系教育目標 Dept.' s Education Objectives					
1	培育海洋生命科學領域之研究人才 Nurture an international outlook of marine biotechnology research talent.				
2	培養基礎理論與應用研究兼備之人才 Cultivation of biotechnology industry specific skills and research talent.				
3	培養具國際觀之海洋生物科技研究人才 Cultivation of marine life sciences research talent.				
4	培養生物科技產業所需之技術或研究人才 Basic training in both theory and applied research talent.				
5	培養團隊合作能力之研究人才 Develop teamwork skills of research talent.				
系專業能力 Basic Learning Outcomes				課程目標與系專業能力相關性 Correlation between Course Objectives and Dept.' s Education Objectives	
A	具備海洋生命科學的基礎知識 Basic knowledge of marine life science is needed.				●
B	具備獨立、創新及執行研究的能力 Independent innovation and the research ability are needed.				●

C	具備邏輯思考、問題分析與問題解決的能力 Logical thinking, problem analysis and problem-solving abilities are needed.	●
D	具備領導、溝通協調與團隊合作的能力 Good team communication, coordination and leadership skills are needed.	●
E	具備國際視野以及外語溝通的能力 International vision and ability to communicate in foreign languages.	●
F	善用資訊科技進行資訊蒐集、資料分析與統整 Use of information technology for information collection, analysis and integration.	●
G	對於學術倫理及專業倫理有正確的認知與堅持 For professional ethics and academic responsibility have a correct understanding and persistence.	●

圖示說明 Illustration : ● 高度相關 Highly correlated ○ 中度相關 Moderately correlated

課程大綱
Course Outline

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1. Bioactive compounds from Hard Corals
2. Bioactive compounds from Soft Corals-I (Alcyonacea)
3. Bioactive compounds from Soft Corals-II (Alcyonacea)
4. Bioactive compounds from Soft Corals-III (Gorgonacea)
5. Coral Chemistry and Human Bone Repair
6. Coral Core Chemistry and Growth Studies

資源需求評估 (師資專長之聘任、儀器設備的配合 . . . 等)
Resources Required (e.g. qualifications and expertise, instrument and equipment, etc.)

個人電腦、單槍投影機、白板

課程要求和教學方式之建議
Course Requirements and Suggested Teaching Methods

講師授課
書報討論

其他
Miscellaneous