



教學計劃表 Syllabus

課程名稱(中文) Course Name in Chinese	脂質化學與代謝		學年/學期 Academic Year/Semester	112/2
課程名稱(英文) Course Name in English	Lipid chemistry and metabolism			
科目代碼 Course Code	BT_M0140	系級 Department & Year	碩士	開課單位 Course-Offering Department
修別 Type	選修 Elective	學分數/時間 Credit(s)/Hour(s)	3.0/3.0	
授課教師 Instructor	/蘇玟?			
先修課程 Prerequisite				
課程描述 Course Description				
<p>This course offers an in-depth exploration of lipid metabolism, encompassing its biochemical, physiological, and molecular dimensions. The primary focus will be on the key biochemical molecules and metabolic pathways essential for maintaining lipid homeostasis, with particular emphasis on phospholipids, triacylglycerols, and cholesterol. Additionally, the course will investigate current issues and research linking lipid metabolism to various human diseases, providing a comprehensive understanding of the subject's relevance in a clinical and health context.</p>				
課程目標 Course Objectives				
<p>Enable students to understand:</p> <ol style="list-style-type: none"> 1. Biochemical properties and metabolic pathways of lipids. 2. The regulatory mechanisms of lipids metabolism and the associated signaling pathways. 3. Techniques utilized in lipid biochemistry research. <p>教導學生了解：</p> <ol style="list-style-type: none"> 1. 脂質的基本組成結構以及其生化物理特性。 2. 脂質代謝路徑與其相關之調控機制與相關疾病。 3. 脂質生化學研究相關技術 				
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	具備生物技術相關學科之基礎知識 Having the basic knowledge of biotechnology.			●
B	具備邏輯分析與解決問題的能力 Having the capabilities of logical analysis and problem solving.			●
C	具備資料整合、數據分析與書面及口頭報告能力 Having the capabilities of data integration and analysis, and the skills of written and poster presentation.			●
D	具備終生學習的能力 Having the capability of lifelong learning.			
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				
2				

3		
4		
5		
6		
7		
8		
9	期中考試週 Midterm Exam	
10		
11		
12		
13		
14		
15		
16		
17		
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									
期中考成績 Midterm Exam									
期末考成績 Final Exam									
作業成績 Homework and/or Assignments									
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)