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②图玄束華大學

教學計劃表 Syllabus

課程名稱(中文) Course Name in Chinese	轉譯醫學導論			學年/學期 Academic Year/Se	114/1		
課程名稱(英文) Course Name in English	Introduction of translational medicine research						
科目代碼 Course Code	BMM_41460	系級 Department 學四 & Year		開課單位 Course-Offering Department	生化暨分子醫學科學系		
修別 Type	學程 Program	學分數/時 Credit(s)/Hou		3.0/3.0			
授課教師 Instructor	/彭致文						
先修課程 Prerequisite							

課程描述 Course Description

現代科學匯集多個研究領域以跨領域方式結合不同專長但相關的專家共同餐與研究工作,促進並加速將研究室的基礎探討應用到臨床醫療中,因此整合為"轉譯醫學"的概念。藉由改善由研究室經驗轉變為病床邊方法的實踐。近年來越來越多的生醫研究的轉譯醫學已產生出卓越的貢獻。藉由開設"轉譯醫學"的課程,提供學生可以深入地瞭解轉譯醫學的原理與實際運作方式,並知悉鑑轉譯醫學在生物醫學研究、藥物發展與政策制定中的關聯性與重要性重要性。同時,本課程會提供對學生如何培養以生物醫學研究促進人類健康為未來志向。

課程目標 Course Objectives

本課程的目的是讓學生了解分子水平上的變化如何影響與人體有關的單個細胞和/或器官的基本功能之間的聯繫;特 別關注從健康組織到患病組織的變化以及症狀,不同疾病的診斷和治療之間的聯繫。

	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	具備生命科學相關學科之基礎知識。Having the basic knowledge of life science.	•
В	具備邏輯分析與解決問題的能力。Having the capabilities of logical analysis and problem solving.	•
С	具備資料整合、數據分析與書面及口頭報告之能力。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	Course introduction	
2	AI in translational medicine I	
3	AI in translational medicine II	
4	Product investigation and development, and The Food and Drug administration	
5	Drug discovery and design I	
6	Drug discovery and design II	

7	Informed consent and Privacy of subjects						
8	Points to consider: the principal investigator, site selection and budget negotiations						
9	期中考試週 Midterm Exam						
10	Early phase clinical trials design						
11	Going global: International Trials, Global Good Clinical Practice/The clinical research team						
12	Clinical study protocol elements and statistical considerations						
13	Study monitoring & the study site initiation						
14	Safety reporting: definitions and reporting requirements						
15	Compliance and quality assurance: audits and inspections						
16	Conflicts of interest						
17	Group Discussion						
18	18 期末考試週 Final Exam						
	教學策略 Teaching Strategies						
✓ 課堂講	授 Lecture						
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)							
────────────────────────────────────							
社會責任(Social Responsibility)							
在地實踐Community Practice							
一 跨域合作(Transdisciplinary Projects)							
■ 跨界教學Transdisciplinary Teaching							
業師合授 Courses Co-taught with Industry Practitioners							
This course is relevant to these items of SDGs as following: 其它 other: 健康與福祉 (Good health and Well Being) 性別平等 (Gender Equality)							

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)