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②國玄東華大學

教學計劃表 Syllabus

課程名稱(中文) Course Name in Chinese	分子生物學				學年/學期 Academic Year/Semester			
課程名稱(英文) Course Name in English	Molecular Bio	Molecular Biology						
科目代碼 Course Code	LF31800	系級 Department 學二 & Year		開課單位 Course-Offering Department		生命科學系		
修別 Type	學程 Program	學分數/時 Credit(s)/Hou			4.0/4.0			
授課教師 Instructor	/林國知/張瑞宜/周志青/謝函芸							
先修課程 Prerequisite								
埋积性流 Course Description								

課程描述 Course Description

- 1. 教導學生瞭解核酸之基本結構、核酸複製、基因表現及調控
- 2. 此課程由林國知、張瑞宜、謝函芸及周志青等四位老師授課

課程目標 Course Objectives

使學生了解遺傳物質(DNA)的結構、原理及於生命科學的意義。

		課程目標與系專業能力相關性
	系專業能力 	Correlation between Course Objectives
	Basic Learning Outcomes	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.	0
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	Ch 1 The beginning of molecular biology Ch 2 The structure of DNA	
2	Ch 13 Recombinant DNA technology and genetically modified organisms	
3	Ch 13 Recombinant DNA technology and genetically modified organisms	
4	Ch 5 Genome organization and evolution	
5	3/14 林國知老師考試 Ch 3 The versatility of RNA	
6	Ch 3 The versatility of RNA Ch 6 DNA replication and telomere maintenance	

7 Ch 6 DNA replication and telomere maintenance 8 4/3 R 実務基章教授 Ch 7 DNA repair pathways 4/18 張高堂老崎考試 10 Ch 14 Tools for analyzing gene organization, expression, and function 11 Ch 8 Transcription in bacteria Ch 8 Transcription in bacteria Ch 9 Transcription in eukaryotes Ch 11 RNA processing and post-transcriptional gene regulation Ch 11 RNA processing and post-transcriptional gene regulation Ch 12 The mechanism of translation Ch 12 The mechanism of translation Ch 12 The mechanism of translation DNA CH 12 The mechanism of translation RNA GNIT A SA S	8 4/3 民族排基節放假 Ch 7 DNA repair pathways 9 Ch 7 DNA repair pathways (A 7 DNA repair pathways (A 7 DNA repair pathways (A 18 Skis ± 46 * 54) 10 Ch 14 Tools for analyzing gene organization, expression, and function 11 Ch 8 Transcription in bacteria 12 Ch 8 Transcription in eukaryotes Ch 9 Transcription in eukaryotes Ch 9 Transcription in eukaryotes S 13 Ch 9 Transcription in eukaryotes S 14 Ch 11 RNA processing and post-transcriptional gene regulation Ch 11 RNA processing and post-transcriptional gene regulation Ch 11 RNA processing and post-transcriptional gene regulation Ch 12 The mechanism of translation 15 Ch 12 The mechanism of translation 16 Ch 12 The mechanism of translation 17 Ch 12 The mechanism of translation 18 6/17周志青老師考这	8 4/3 民族掃墓節放假					
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		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)									
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			- 早大十名						

評量方式補充說明

Grading & Assessments Supplemental instructions

以四次考試成績平均為原則

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.)

Fundamental Molecular Biology (3 ed, 2021) by Lizabeth Allison. 偉明圖書公司代理

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)