103-2 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	分子生物學(二)	Serial No. / ID	0699 / MBI3002
Dept.	分子生物科技學系	School System / Class	大學日間部3年1班
Lecturer	游志文	Full or Part-time	專任
Required / Credit	Required / 3	Graduate Class	No
Time / Place	(一)34 / (二)2 /	Language	Chinese

Introduction

分子生物學研究之目標為探討各種遺傳特徵於分子層面之意義，如：遺傳特徵決定性基因之結構、基因之功能、表現之方式或其變異之原因等。進度包括：古典孟德爾遺傳定律、性別決定、分化及連結、遺傳物質之組成、特性與轉移、染色體結構、輿圖分析、基因於原核與真核生物中之表達，及致癌與原致癌基因之運作等。其以此基本課程使學生對分子生物學有一根本之了解，培養其往後獨立從事研究所需之基本知識。

Outline

1 Expression of the Genome
2 RNA Splicing
3 RNA Splicing
4 Translation
5 Translation
6 The Genetic Code
7 Gene Regulation in Prokaryotes
8 Gene Regulation in Prokaryotes
9 Midterm
10 Gene Regulation in Eukaryotes
11 Gene Regulation in Eukaryotes
12 Gene Regulation in Eukaryotes
13 Gene Regulation during Development
14 Gene Regulation during Development
15 Comparative Genomics and the Evolution of Animal Diversity
16 Techniques of Molecular Biology
17 Model Organisms
18 Final

Prerequisite

1. 生物學
2. 生物化學