

國立中正大學生命科學系課程大綱

課程名稱：	遺傳學 Genetics (星期一、三; 10:15-11:30, Rm335)
先修科目或 先備能力：	無
課程概述：	古典遺傳學、分子遺傳學、遺傳研究方法、醫學相關之遺傳研究
學習目標：	理解遺傳學之基本原理及方法、探索如何用遺傳學解決人類的問題
教科書：	Concepts of Genetics, 12th edition (ISBN-13: 978-1-292-26532-2) by Klug et al. (請尊重智慧財產權，不得非法影印教師指定之教科書籍)

教學要點概述：
1. 教材編選： ☐ 自編教材 ☒ 教科書作者提供
2. 教學方法： ☒ 投影片講述 ☐ 板書講述
3. 評量方法：Grade (100 points): 4 written exams (4 x 25%)
4. 教學資源： ☐ 課程網站 ☒ 教材電子檔供下載 ☐ 實習網站
5. 教學相關配合事項：上課時禁止使用手機！

黃敏郎老師: biomlh@ccu.edu.tw, 分機:66502; 呂昱瑋老師: bioywl@ccu.edu.tw, 分機:66507

Date	Chapter	Topic	Instructor
9/7	1	Introduction to Genetics,	Leu
9/9	2	Mitosis and Meiosis	Leu
9/14	3	Mendelian Genetics	Leu
9/16	4	Extensions of Mendelian Genetics	Leu
9/21	6	Chromosomal Mutations: Variation in Number and Arrangement	Leu
9/23	7	Chromosome Mapping in Eukaryotes	Leu
9/28		Holiday	
9/30	9	Extranuclear Inheritance	Leu
10/5	10	DNA Structure and Analysis	Leu
10/7	11	DNA Replication and Recombination	Leu
10/12		1st Exam	Leu
10/14	12	DNA Organization in Chromosomes	Leu
10/19	13	The Genetic Code and Transcription	Leu
10/21	14	Translation and Proteins	Leu
10/26		Holiday	
10/28	19	Epigenetic Regulation of Gene Expression	Leu
11/2	24	Recombinant DNA technology	Leu
11/4	S	Special Topics in Modern Genetics 1	Leu
11/9		2nd Exam	Leu
11/11	15	Gene Mutation, DNA Repair and Transposition	Huang
11/16	15	Gene Mutation, DNA Repair and Transposition	Huang
11/18	17	Regulation of Gene Expression in Eukaryotes	Huang
11/23	17	Regulation of Gene Expression in Eukaryotes	Huang
11/25	18	Posttranscriptional Regulation in Eukaryotes	Huang
11/30	18	Posttranscriptional Regulation in Eukaryotes	Huang
12/2	21	Genomic Analysis	Huang
12/7	21	Genomic Analysis	Huang
12/9		3rd Exam	Huang
12/14	23	Developmental Genetics	Huang
12/16	23	Developmental Genetics	Huang
12/21	24	Cancer Genetics	Huang
12/23	24	Cancer Genetics	Huang
12/28	S	Special Topics in Modern Genetics 2	Huang
12/30	S	Special Topics in Modern Genetics 3	Huang
1/4	S	Special Topics in Modern Genetics 4	Huang
1/6		Final Exam	Huang