課程名稱:BMES424200分子遺傳學 (Molecular Genetics)

學分數:3 時間:W3W4F3 地點:醫環系 R401

授課老師:張建文 (C.W. Chang)

助教: 江品歆

Schedule:

Lecture	Title
2/20, 2/22	L1 Nucleic acid structure and gene expression
2/27, 3/1	L2 Chromosome structure and function
3/6, 3/8	L3 Genes in pedigrees and population
3/13, 3/15	L4 Amplifying DNA: cell-based DNA cloning and PCR
3/20, 3/22	L5 Nucleic acid hybridization
3/27, 3/29	L6 Analyzing the structure and expression of genes and genomes
4/10, 4/12	Mid-term exam
4/17, 4/19	L7 Organization of human genome
4/24, 4/26	L8 Human gene expression
5/1, 5/3	L9 Studying gene function in the post-genome era
5/8, 5/10	L10 Cancer genetics
5/15, 5/17	L11 Genetic testing of individuals
5/22, 5/24	L12 Pharmacogenetics, personalized medicine
5/29, 5/31	L13 Tentative special topics I: Genetic manipulation of animals
6/5, 6/7	L14 Tentative special topics II: Genetic approaches to treating diseases
6/14	Final Exam

Textbook

Human Molecular Genetics 4th edition. Garland Science (2010)

Grading

10% class participation; 20% report/presentation; 35% midterm exam; 35% final exam.