

Molecular Biology Spring (生理與解剖所合開)2019

Credits: 2

Course #: S351700

Time: Wednesday 10:10-12:00

Lecture room: #602 Medical Center

1. Prerequisite Course(s): None
2. Contact with teacher: **Dr. Shang-Hsun Yang TEL: 5453**
3. Contact with tutor: None
4. Course goal: The objective of this course is to provide both basic and advance concepts and techniques in molecular biology. A Web-based on-line teaching will also available for all the lectures. All teaching materials can be found in MOODLE <http://moodle.ncku.edu.tw/>
5. Course Progress Outline: Please see the following syllabus
6. Teaching Approach(es): Lectures and PBL
7. Course Material: PPT handouts
8. References: Molecular Biology 5th edition by Robert F. Weaver
9. Grading Criteria Midterm exam: 50%; Final exam: 50%

Date	Title	Instructor
2/20	Introduction	S.H Yang
2/27	Nucleic acid and genome structure	S.H Yang
3/6	DNA replication	S.H Yang
3/13	Mutation and DNA repair	A.Y.W. Chang
3/20	RNA transcription in Prokaryotes	A.M. Huang
3/27	Control of prokaryotic transcription	A.M. Huang
4/3	RNA transcription in Eukaryotes	A.M. Huang
4/10	RNA editing, stability and interference	A.Y.W. Chang
4/17	Mid-term Exam	Yang/Chang/Huang
4/24	Post transcriptional processing	S.C. Lin
5/1	Protein translation	P.C. Chen
5/8	Posttranslational modification	P.C. Chen
5/15	Control of gene expression (I)	S.C. Lin
5/22	Control of gene expression (II)	S.C. Lin
5/29	Methods in studying molecular biology (I)	S.H Yang
6/5	Methods in studying molecular biology (II)	S.H Yang
6/12	PBL section: Application of molecular biology	S.C. Lin /S.H Yang
6/19	Final Exam	Lin/ Chen/ Yang