

細胞生物學特論 (一)

(2024 Fall)

Time: Wednesday **13:10 ~ 15:00**

Coordinator: Dr. Yi-Ching Wang (Phone # 5502)

Place: **304D**

TA: Tin-Wei Chang (Peter) Phone # 5477

Textbook: Molecular Biology of THE CELL, 6th ed.

Date	Ch.	Topic	Instructor
9/11		Introduction of the course	Dr. Yi-Ching Wang
9/11, 9/18, 9/25	10, 11	Membrane structure, Membrane transport + Discussion	Dr. Yu-Min Kuo
10/2, 10/9, 10/16, 10/23, 10/30	12, 13	Intracellular compartments & Protein sorting Membrane traffic + Discussion	Dr. Yi-Ching Wang
*		Mid-term Examination (15%)	Dr. Yi-Ching Wang
11/6, 11/13, 11/20, 11/27, 12/4	17, 18	Cell cycle, Cell death + Discussion	Dr. Chun Hei Cheung Dr. Yi-Lin Cheng
12/11, 12/18, 12/25	14	Energy conversation: mitochondria + Discussion	Dr. Yau-Sheng Tsai
#1/8		Final Examination (15%)	Dr. Yi-Ching Wang

NCKU Moodle (NCKU e-learning) <http://moodle.ncku.edu.tw/>

* The date of the mid-term exam will be arranged in November.

1/1 National holiday

Please note:

1. This course is designed for students who already have sufficient background knowledge in basic cell biology, e.g., materials covered by “Essential Cell Biology,” an introductory textbook by the same authors.
2. The goal of this course is to provide students a conceptual framework of cell biology, not the most updated information about cells.
3. Those who wish to learn more about any specific topic should take other advanced courses.
4. As the gene-related topics are covered by various Molecular Biology courses, they

are not included in this course.

5. The course content includes both lectures and discussions.
6. The lectures essentially follow the materials in Part IV of the textbook and the discussions focus on pre-assigned questions.
7. At the beginning of the course, students are divided into 3-4 study groups by the course coordinator.
8. Each group should study together in order to prepare a short PowerPoint file for all assigned questions. This PPT file must be submitted via “Moodle” website before the discussion session.
9. Discussion grades (70%) include group grades (30%), individual grades (30%), and student peer evaluation grades (10%).
10. The examination (30%) covers the text materials primarily in Part IV.

About the “Discussion”:

1. The evaluation of “group grade” is based on the preparation and presentation of PPT files (1 PPT file for each group).
2. Each group should submit a PPT file the day before the Discussion session (12:00, midnight; via “Moodle” <http://moodle.ncku.edu.tw/>). Otherwise, the group will get a “Fail” for that particular session.
3. The presenter is assigned by the instructor during the Discussion session. This presentation is given a “group grade,” which will be used to adjust the presenter’s “individual grade” as well.
4. The “individual grade” is based on each student’s comments on the presentations. Students may voluntarily give comments or be called to give comments by the instructor.
5. Each comment is given a 0 ~ +5 grade, according to the performance, to add to the student’s “individual grade.”
6. Individuals absent in a Discussion session without permission will get a “Fail” individual grade for that particular session.