

Molecular and Cell Biology 500

分子細胞生物学500 (英語講義)

Kyoto University

National Taiwan University

Course Outline

This will be a lecture/discussion course with a limited number of students (up to 40). The students will be given 2-3 scientific papers to read. Special emphases will be on the biologists' way of thinking as well as basic concepts on the gene structure and function.

1. Logic and basic concepts in biology: How does biologist do and what does biologist know?
2. Methods in biology: What kinds of technique does biologist employ?
3. Specific topics deal with the cell structure and function, the nucleus and central dogma
4. Basics of recombinant DNA technology will be covered

Instructor

Professor Kunio Takeyasu and his associates (Graduate School of Biostudies, Kyoto University)
---Kunio Takeyasu, Shige H. Yoshimura and Ryosuke Ohniwa

Professor Hsiu-Ping Yueh (Department of Agricultural Extension, National Taiwan University)

Professor Hsinyu Li (Department of Agricultural Extension, National Taiwan University)

Lecture Rooms

京都大学 : 学術情報メディアセンター 南館 201 マルチメディア講義室
Kyoto University: ACCMS (South Building) Multimedia lecture room 201

Credit

全学共通科目 B群 4単位

Human/Social Science of Subjects Common to All Faculties(4 Credits)

開講日時 : 平成17年10月7日(金)より

時限 : 2限

対象学生 : 全学向け

対象回生 : 1 - 4回生

定員 : 40名程度

Course Schedule

- 1) Finding of genetic materials (KT)
- 2) Structure of DNA (KT)
- 3) Replication of DNA (KT)
- 4) Recombinant DNA technology
- 5) Structure of gene (KT)
- 6) Transcription and translation (KT)
- 7) Protein synthesis and transport (KT)
- 8) Plant biotechnology (TU)
- 9) Membrane transport mechanisms (TU)
- 10) Genome structure in eukaryotes (KT)
- 11) Genome structure in prokaryotes (RO)
- 12) Protein structure/function (KT)
- 13) Methods in molecular and cell biology (KT)
- 14) Single-molecule techniques in molecular and cell biology (SHY)
- 15) Paper discussion (KT)
- 16) Paper discussion (KT)
- 17) Laboratory tutorial and discussion (KT)
- 18) Exam

Notice

**登録として、第一回の講義(10/7)に必ず出席のこと!
国立台湾大学(<http://www.ntu.edu.tw/>)との交流有り**

Contact

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