

COURSE DETAIL

MOLECULAR EVOLUTION

Country

Taiwan

Host Institution

National Taiwan University

Program(s)

National Taiwan University

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Biological Sciences

UCEAP Course Number

114

UCEAP Course Suffix**UCEAP Official Title**

MOLECULAR EVOLUTION

UCEAP Transcript Title

MOLECULAR EVOLUTION

UCEAP Quarter Units

3.00

UCEAP Semester Units

2.00

Course Description

This course introduces the fundamentals and methodology on research of molecular evolution. Topics: evolutionary changes and patterns of sequences, methods for phylogenetic analyses, and inferring sites under positive selection. The course also examines recent advances of molecular evolution studies on phylogenomics, horizontal gene transfer, and genome evolution. Recommended prerequisites include evolution, genetics or equivalent subjects. Laboratory practices are offered to provide familiarity with data retrieving and analyses. Homework assignments are distributed weekly, which require substantial extra work time.

Language(s) of Instruction

English

Host Institution Course Number

EEB5048

Host Institution Course Title

MOLECULAR EVOLUTION

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Ecology and Evolutionary Biology

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