COURSE DETAIL

MOLECULAR ECOLOGY AND EVOLUTION
Country Sweden
Host Institution Lund University
Program(s) Lund University
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Biological Sciences
UCEAP Course Number 139
UCEAP Course Suffix
UCEAP Official Title MOLECULAR ECOLOGY AND EVOLUTION
UCEAP Transcript Title MOL ECOL & EVOLUTN
UCEAP Quarter Units 12.00
UCEAP Semester Units 8.00

Course Description

This course reviews the basic theory and understanding of the most important molecular genetic methods used in modern ecological and evolutionary research projects. The course is mainly based on practical learning through wet labs (DNA extraction, PCR, DNA sequencing) and computer exercises (editing of DNA sequences that you obtain during the course, phylogeny, and various programs for analysis of DNA sequences) and leads to mastery of different methods used to detect and analyze variation at gene, genome and protein levels within and between individuals, populations, and species. Emphasis is also placed on improving one's ability to assimilate and critically review scientific articles based on molecular genetic data and analyses. The course ends with a research project that is carried out in small groups.

Language(s) of Instruction
English

Host Institution Course Number
BIOR25

Host Institution Course Title
MOLECULAR ECOLOGY AND EVOLUTION

Host Institution Course Details
https://www.biologyeducation.lu.se/education/courses/advanced-level-courses/mol...

Host Institution Campus
Lund

Host Institution Faculty
Science

Host Institution Degree

Host Institution Department

Course Last Reviewed
2023-2024

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