

COURSE DETAIL

MOLECULAR MICROBIOLOGY

Country

Sweden

Host Institution

Lund University

Program(s)

Lund University

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Biological Sciences

UCEAP Course Number

118

UCEAP Course Suffix**UCEAP Official Title**

MOLECULAR MICROBIOLOGY

UCEAP Transcript Title

MOLECULAR MICROBIOL

UCEAP Quarter Units

12.00

UCEAP Semester Units

8.00

Course Description

Bacteria make up the foundation of the biosphere and sustain all life on earth. This course provides insights into how genes are organized and regulated in bacteria and in their viruses. The course comprises molecular biology of genes, proteins, multi-component protein complexes, and other biomolecules that provide structure and perform the organism's functions. The use of genetic engineering and modern techniques such as transcriptomics, proteomics, and sequence analysis are included. The experimental part focus on the most studied bacteria, *Bacillus subtilis*, *Escherichia coli*, and *Streptomyces coelicolor*.

Language(s) of Instruction

English

Host Institution Course Number

BIOR63

Host Institution Course Title

MOLECULAR MICROBIOLOGY

Host Institution Campus

Host Institution Faculty

Faculty of Science

Host Institution Degree

Host Institution Department

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