

COURSE DETAIL

ENZYMولوجY AND EXPERIMENTAL BIOCHEMISTRY

Country

Denmark

Host Institution

University of Copenhagen

Program(s)

University of Copenhagen

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Chemistry Biochemistry

UCEAP Course Number

134

UCEAP Course Suffix**UCEAP Official Title**

ENZYMولوجY AND EXPERIMENTAL BIOCHEMISTRY

UCEAP Transcript Title

ENZYMولوجY&BIOCHEM

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course is a study of theoretical and experimental work on enzymes, proteins, and peptides in biological matrices. There is an emphasis on experimental and theoretical understanding between structure and properties of the molecules. Concepts covered include extraction techniques, chromatographic systems, and solvent and buffer relations. Students develop an understanding of the properties of biomolecules (especially enzymes), strategies for efficient isolation and purification of enzymes from complex biological systems, analytical techniques used in biochemistry and for enzyme characterization, and the theoretical basis for changes of water as solvent, extraction, and chromatographic systems. Students evaluate the detection, quantification, and linearity of experimental data in relationship to published values, design experimental strategies in analytical biochemistry and enzymology, apply theoretical principles of analytical biochemistry to carry out experimental isolation and purification of enzymes, and evaluate the performance of applied techniques in an enzyme related project carried out in a group.

Language(s) of Instruction

English

Host Institution Course Number

LKEK10081U

Host Institution Course Title

ENZYMOLGY AND EXPERIMENTAL BIOCHEMISTRY

Host Institution Course Details

Host Institution Campus

Science

Host Institution Faculty

Host Institution Degree

Host Institution Department

Food Science

Course Last Reviewed

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