

COURSE DETAIL

FUNCTIONAL GENOMICS, PROTEOMICS, AND BIOINFORMATICS

Country

United Kingdom - England

Host Institution

University of London, Royal Holloway

Program(s)

University of London, Royal Holloway

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Biological Sciences

UCEAP Course Number

164

UCEAP Course Suffix

N

UCEAP Official Title

FUNCTIONAL GENOMICS, PROTEOMICS, AND BIOINFORMATICS

UCEAP Transcript Title

FUNCTIONAL GENOMICS

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

The course gives an advanced treatment of structure-function relationships in proteins, and of new practical opportunities for the use of genome-wide analyses in dissecting regulation in biological systems. Gene and protein networks are also discussed. Topics include, post-genomic science; modes of specific recognition in mediating protein interactions and DNA/protein interaction; domains and functions; and protein engineering. Students complete a guided bioinformatics coursework. This assesses individual competencies and practical skills as each student individually will have to analyze separate datasets and develop own conclusions on the function of a gene/protein within a network through the analysis of databases and literature.

Language(s) of Instruction

English

Host Institution Course Number

BS3560

Host Institution Course Title

FUNCTIONAL GENOMICS, PROTEOMICS, AND BIOINFORMATICS

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Biological Sciences

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