

COURSE DETAIL

METHODS FOR INVESTIGATING THE RNA STRUCTUROME AND RNA-RNA INTERACTOME

Country

Germany

Host Institution

Free University of Berlin

Program(s)

Humboldt University Berlin, Free University Berlin

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Biological Sciences

UCEAP Course Number

115

UCEAP Course Suffix**UCEAP Official Title**

METHODS FOR INVESTIGATING THE RNA STRUCTUROME AND RNA-RNA INTERACTOME

UCEAP Transcript Title

RNA STRUCT&INTERACT

UCEAP Quarter Units

7.00

UCEAP Semester Units

4.70

Course Description

The goal of this inter-disciplinary bioinformatics course, consisting of lectures, exercises, and a seminar, is to introduce students to (1) key theoretical concepts, computational strategies, and algorithms for predicting RNA secondary structures and related features, covering probabilistic and comparative machine learning methods; (2) key experimental concepts for transcriptome-wide RNA structure and RNA-RNA interaction probing; and (3) key research contributions published in recent years.

Language(s) of Instruction

English

Host Institution Course Number

216221a,216221b,216221c

Host Institution Course Title

METHODS FOR INVESTIGATING THE RNA STRUCTUROME AND RNA-RNA INTERACTOME

Host Institution Campus**Host Institution Faculty**

BIOLOGIE, CHEMIE, PHARMAZIE

Host Institution Degree**Host Institution Department**

Biologie

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