

COURSE DETAIL

CELLULAR AND MOLECULAR NEUROBIOLOGY

Country

Sweden

Host Institution

Lund University

Program(s)

Lund University

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Biological Sciences

UCEAP Course Number

165

UCEAP Course Suffix**UCEAP Official Title**

CELLULAR AND MOLECULAR NEUROBIOLOGY

UCEAP Transcript Title

CELL & MOL NEUROBIO

UCEAP Quarter Units

12.00

UCEAP Semester Units

8.00

Course Description

The course reviews the most important principles and technologies in cellular and molecular neurobiology with a focus on understanding the methods used to increase our knowledge and be able to relate this to current research in the subject area. The course starts with an introduction to important methods for studies on molecular and cellular neurobiology, as well as basic practical exercises. The course also includes detailed studies of the mechanisms that underlie neuronal signaling and cell function, and how these are activated during development and neuronal plasticity. A central part of the course is the application of technologies that push the research forward, including optogenetic manipulation and gene editing to manipulate neural circuits and identify neural functions.

Language(s) of Instruction

English

Host Institution Course Number

BIOR84

Host Institution Course Title

CELLULAR AND MOLECULAR NEUROBIOLOGY

Host Institution Campus

Lund

Host Institution Faculty

Science

Host Institution Degree

Host Institution Department

[Print](#)