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 Course Details
https://www.lunduniversity.lu.se/lubas/i-uoh-lu-BIOR84

Host Institution Campus
Lund

Host Institution Faculty
Science

Host Institution Degree

Host Institution Department

Course Last Reviewed
2023-2024

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