

## COURSE DETAIL

### STEM CELL BIOLOGY AND THERAPY

**Country**

Germany

**Host Institution**

Free University of Berlin

**Program(s)**

Free University Berlin

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Biological Sciences Biochemistry

**UCEAP Course Number**

108

**UCEAP Course Suffix****UCEAP Official Title**

STEM CELL BIOLOGY AND THERAPY

**UCEAP Transcript Title**

STEMCELL BIO&THERPY

**UCEAP Quarter Units**

4.50

**UCEAP Semester Units**

3.00

## Course Description

This class focuses on stem cell biology and stem cell therapy. In the stem cell biology part of the course, the following topics are covered: stem cell and regenerative medicine, adult stem cell, embryonic stem cell, induced pluripotent stem cell, stem cell niche, technique of purification and characterization (FACS). In the stem cell therapy part of the course, the following topics are covered: the basics of stem cell transplantation, hematopoietic stem cell transplantation (HSCT), cancer stem cell and targeted therapy, skin stem cell and their clinical application, stem cell and cardiac repair.

## Language(s) of Instruction

English

## Host Institution Course Number

216711a/b

## Host Institution Course Title

STEM CELL BIOLOGY AND THERAPY

## Host Institution Campus

BIOLOGIE, CHEMIE, PHARMAZIE

## Host Institution Faculty

## Host Institution Degree

## Host Institution Department

Biochemie

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