

# COURSE DETAIL

## MAMMALIAN GENOMICS

**Country**

Denmark

**Host Institution**

University of Copenhagen

**Program(s)**

University of Copenhagen

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Biological Sciences

**UCEAP Course Number**

117

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

MAMMALIAN GENOMICS

**UCEAP Transcript Title**

MAMMALIAN GENOMICS

**UCEAP Quarter Units**

6.00

**UCEAP Semester Units**

4.00

## Course Description

This course provides an advanced approach to theoretical and practical genomics with a focus on mammals. The course introduces methods and technologies currently used to dissect, describe, and characterize complex genomes. Aspects of both research and application within the field of genomics is addressed. Topics include animal models and comparative genomics; organization and content of the mammalian genome; human genetic variation; genetic mapping of mendelian characters; mapping genes conferring susceptibility to complex diseases; gene expression and epigenetics; sequencing genomes: techniques, challenges, and bioinformatic analysis; molecular pathology, cancer, and pharmacogenetics; genetic testing of individuals; genetic manipulation of cells and animals, gene therapy, and stem cells; and biomarkers.

## Language(s) of Instruction

English

## Host Institution Course Number

SBIB10170U

## Host Institution Course Title

MAMMALIAN GENOMICS

## Host Institution Course Details

<https://kurser.ku.dk/course/sbib10170u/2021-2022>

## Host Institution Campus

## Host Institution Faculty

Faculty of Health and Medical Sciences

## Host Institution Degree

Bachelor

## Host Institution Department

Department of Veterinary and Animal Sciences

**Course Last Reviewed**

2021-2022

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