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

Print