COURSE DETAIL

HUMAN MONOGENIC DISEASES
Country Netherlands
Host Institution Utrecht University
Program(s) Utrecht University
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Biological Sciences
UCEAP Course Number 135
UCEAP Course Suffix
UCEAP Official Title HUMAN MONOGENIC DISEASES
UCEAP Transcript Title MONOGENIC DISEASES
UCEAP Quarter Units 6.00
UCEAP Semester Units 4.00

Course Description

This course reviews how genetic factors that influence human traits are identified. The traits focused on are human diseases, but the techniques can be applied to a wide field of subjects. The background knowledge necessary to understand and apply the different methods, the molecular laboratory techniques (theoretically), and the approaches to finding causal variants for human heritable diseases are taught. Students practice using the vast number of databases containing human genetic information. The subjects can roughly be divided into two main groups: Organization and evolution of genomes and genes and identification of mutations that influence human diseases. Requirements for admission include a knowledge of the structure and organization of DNA; the processes of meiosis and mitosis, including recombination; transcription and translation; gene expression; laboratory techniques such as PCR, restriction enzymes, and DNA-hybridization.

Language(s) of Instruction
English

Host Institution Course Number
BMW20621

Host Institution Course Title
HUMAN MONOGENIC DISEASES

Host Institution Course Details
https://osiris-student.uu.nl/onderwijscatalogus/extern/cursus

Host Institution Campus
Utrecht University

Host Institution Faculty
Medicine

Host Institution Degree

Host Institution Department

Course Last Reviewed
2023-2024

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