COURSE DETAIL

ADVANCED HUMAN GENETICS: RESEARCH PRINCIPLES
Country United Kingdom - England
Host Institution University College London
Program(s) University College London
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Biological Sciences
UCEAP Course Number 122
UCEAP Course Suffix
UCEAP Official Title ADVANCED HUMAN GENETICS: RESEARCH PRINCIPLES
UCEAP Transcript Title ADV HUMAN GENETICS
UCEAP Quarter Units 6.00
UCEAP Semester Units 4.00

Course Description

This course introduces the basic principles underlying modern human genetics research through a combination of lectures presenting theoretical principles, practical exercises allowing students to apply these principles, and more research-focused lectures providing illustrative case-studies. Students are introduced to the approaches currently used to identify genetic factors in health and disease. They become familiar with concepts and methods such as complex traits, population studies, Genome-Wide Association Studies (GWAS) and high through-put genome analysis. Case studies include the genetic basis of cancer, selected cardiovascular and psychiatric disorders, as well as genetic predisposition/resistance to infectious diseases.

Language(s) of Instruction
English

Host Institution Course Number
BIOL0021

Host Institution Course Title
ADVANCED HUMAN GENETICS: RESEARCH PRINCIPLES

Host Institution Course Details
https://www.ucl.ac.uk/module-catalogue/modules/BIOL0021

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department
Biology

Course Last Reviewed
2024-2025

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