UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Molecular Evolution and Population Genetics

2627-121R024

Title

Molecular Evolution and population genetics

Teacher(s)

Prof. Manuela Sironi

Language

English

Short description

The course will explore the theoretical principles of molecular evolution and population genetics, with application to human diseases and host-pathogen interactions. The main topics will include: i) identification of signals of positive and purifying selection from sequence data (typically in primates/mammals); ii) genome evolution, with particular reference to transposable elements; iii) demographic history of human populations and adaptation to different environmental conditions; iv) emergence and adaptation of human-infecting viruses.

CFU / Hours

1 CFU / 8 hours

Teaching period

Thursday, 20 May 2027, 9:00 AM – 1:00 PM
Friday, 21 May 2027, 9:00 AM – 1:00 PM

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING