



UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

SYLLABUS DEL CORSO

Next Generation Sequencing and Bioinformatic Tools for Ecological Studies

2526-1-124R036

Titolo

Next Generation Sequencing and bioinformatics tools for ecological studies

Docente(i)

Andrea Franzetti ; Isabella Gandolfi

Lingua

English

Breve descrizione

The course is a methodological introduction to amplicon-based surveys using Next Generation Sequencing (NGS) platforms. When applied to environmental samples, such surveys can represent a powerful tool for taxonomic and functional studies tool in ecological disciplines.

Detailed contents:

- 1) theoretical introduction;
- 2) DNA extraction from environmental matrices and preparation of amplicon libraries for NGS;
- 3) sequence analysis from NGS through bioinformatics tools (Bio-Linux environment).

A final evaluation of the course is expected

CFU / Ore

2 CFU - 20 Hours (8h Lecture, 12 Laboratory training)

Periodo di erogazione

II semester

Sustainable Development Goals
