



UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

SYLLABUS DEL CORSO

Analisi dei Dati

2122-1-F0901D043

Aims

Basic knowledge of the most important statistical-methodological tools of the descriptive and inferential statistics for: design of experiments, data collection and analysis, interpretation of scientific literature. Introduction to the main problems related to the computational analysis of biological sequences (DNA, RNA, proteins).

Contents

The goal of the course is to contribute to the education of the medical biotechnologist in order to be able to:

- understand the principles of the experimental design in medicine and biology
- understand the most important statistical techniques for data analysis
- use a software for data analysis
- understand the literature presenting results from statistical analysis
- understand the motivations, problems and methodologies.
- be introduced to NGS technologies
- be able to_____
- understand the main data analysis techniques: genome reconstruction and annotation; sequence comparison: global, local and multiple alignment algorithms; reconstruction of phylogenies; transcriptome analysis.

Detailed program

of the two modules.

Office hours

To be defined with the student by email contact.
