



UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Genetics - 1

2324-2-I0102D903-I0102D912M-T1

Aims

Knowledge of the basics of human genetics.

Contents

The course provides to the foundations of human genetics.

Detailed program

TYPES OF DIAGNOSTIC TESTS IN GENETICS: APPLICATIONS, ADVANTAGES AND LIMITATIONS

- cytogenetics
- molecular cytogenetics (FISH and ARRAY CGH)
- molecular genetics: old and new generation sequencing
- GENETIC COUNSELLING
- theoretical, empirical and modified risks
- ethical and social aspects
- GENETIC TESTS
- classification: diagnostic, pre-symptomatic, predictive
- appropriateness of genetic testing
- GENOMIC DISEASES AND COMPLEX DISEASES
- INVASIVE AND NON-INVASIVE PRENATAL DIAGNOSIS

Prerequisites

None

Teaching form

Lectures will be complemented by guided exercises and group work.

Textbook and teaching resource

NERI G., GENUARDI M., Genetica umana e medica, 3°ed, Masson.

Detailed information on teaching materials will be published on the e-learning page associated with the module.

Semester

I semester

Assessment method

CLOSED ANSWER TESTS (multiple choice).

The test questions are designed to ascertain the actual acquisition of both the theoretical knowledge covered in the lecture hall.

At the end of the TEST and a DISCUSSION COLLABORATION focusing on the written paper and all course topics, which can lead to a maximum increase of 3 points or a decrease in the mark obtained in the written examination.

There are no examinations in progress.

Office hours

On appointment

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING

