



UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

SYLLABUS DEL CORSO

Genetica

2223-2-I0102D903-I0102D912M

Aims

At the end of the course the student will know the fundamentals of human genetics.

Contents

The course provides to the student 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, practice exercises and group work.

Textbook and teaching resource

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

Semester

I semester

Assessment method

Written exam with multiple choice test with only one correct answer and oral exam

Office hours

On appointment

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING
