UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Genetics

2425-2-I0102D903-I0102D912M-T1-T5

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

8 hours of lectures. In the final part of the lesson interactive teaching with clinical cases discussion, exercises and FAQs aimed to reinforce the notions illustrated in the initial part of the lesson. All the lessons will be frontal.

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

15 CLOSED ANSWER QUESTIONS (multiple choice).
The test questions are designed to ascertain the actual acquisition of both the theoretical knowledge covered in the lecture and reasoning skills on case analyses based on the concepts learned will be assessed. Two points for each corrected answer. "

INTERVIEW: The objective of the interview is primarily to return and comment on the written test. The student has the opportunity to increase the score obtained from the written test with a short optional in-depth oral interview

There are no examinations in progress.

Office hours

On appointment

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING