



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## SYLLABUS DEL CORSO

### Genetica

2425-2-I0102D903-I0102D912M-T1-T5

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#### 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 TESTS (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. "

There are no examinations in progress.

## **Office hours**

On appointment

## **Sustainable Development Goals**

GOOD HEALTH AND WELL-BEING

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