



**UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA**

SYLLABUS DEL CORSO

Genetica Medica

1920-4-H4101D262-H4101D077M

Aims

to introduce the students to the correct prescription of genetic testing

Contents

techniques of cytogenetics, molecular cytogenetics and molecular genetics

Detailed program

Use of technologies for the detection of genetic diseases :

1) cytogenetics: preparation techniques of conventional karyotypes 2) molecular biology: PCR and gel electrophoresis; Digestion with restriction enzymes (RFLP), Allele-specific amplification (ARMS), Hybridization with specific oligonucleotides, Sanger sequencing, MLPA. New generation sequencing and applications in diagnostics 3) molecular cytogenetics: CHG, array-CHG, SNPs array

Classification of genetic tests and clinical utility. Indications for the prescription of genetic tests with a diagnostic, prognostic and therapeutic purposes.

Prerequisites

Teaching form

lectures

Textbook and teaching resource

slides

Semester

first

Assessment method

quizzes multiple choice , possible oral examination

Office hours

appointemt on request by e-mail
