UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Biotechnology-Based Diagnostics

2627-3-I0302D035-I0302D047M

Aims

Molecular diagnostics of cardiovascular risk and thrombophilia, hemochromatosis, and celiac disease.
Pharmacogenetics and pharmacogenomics.
Techniques for the study of gene expression.
Molecular diagnostics in solid tumors and leukemias.

Contents

The primary goal of the course is to provide tools for the understanding of the laboratory techniques of clinical molecular diagnostics.

Detailed program

Molecular diagnostics of cardiovascular risk and thrombophilia, hemochromatosis, celiac disease (FV, FII, MTHFR, HFE, TFR2, HLA-DQ2, HLA DQ8 gene mutations)
Pharmacogenetics and pharmacogenomics.
Techniques for studying gene expression (Real Time RT-PCR, Microarrays)
Molecular diagnostics in solid tumors and leukemias (EGFR, K-RAS, N-RAS, BCR-ABL)

Prerequisites

Teaching form

Lectures

Textbook and teaching resource

The Teachers will provide educational materials

Semester

First semester

Assessment method

Oral Test

Office hours

On appointment requested by mail

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING