



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## SYLLABUS DEL CORSO

### Genetics II

2425-1-H4102D002-H4102D009M

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#### Aims

The course provides theoretical knowledge and practical training on molecular biology techniques related to nucleic acids analysis for medical research.

#### Contents

Learning of the most common molecular biology techniques

#### Detailed program

The course will develop around the following technologies:

- **Nuclei acids extraction:** isolation of total RNA from human cells, quantification of yield and purity using a spectrophotometer, analysis of RNA integrity by agarose gel electrophoresis.
- **Polymerase chain reaction (PCR):** reaction set up, analysis of the product by agarose gel electrophoresis.
- **DNA restriction:** reaction set up, analysis of the products by agarose gel electrophoresis.

#### Prerequisites

Basic sciences

## **Teaching form**

Three five-hour interactive practical training sessions delivered in presence.

## **Textbook and teaching resource**

Slides employed to provide some knowledge of the techniques will be handed out.

## **Semester**

Second semester

## **Assessment method**

The topics will be part of the final integrated oral examination (further details are reported in the Syllabus of the entire course).

## **Office hours**

By appointment

## **Sustainable Development Goals**

GOOD HEALTH AND WELL-BEING | QUALITY EDUCATION

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