



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## COURSE SYLLABUS

### Gastro-intestinal Diseases

2122-2-F0901D050-F0901D097M

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#### Aims

The aims of the Course is to provide the student with a critical knowledge of the technical instruments and strategies normally employed in defining the pathophysiology of the various disorders and possible new therapeutic approaches.

#### Contents

The aim of this course is to present several examples of diseases and their physiopathology, and the role of biotechnology in their diagnosis/ therapeutic approach. A general introduction on the methodologies employed to analyse the molecular mechanisms underlying the pathological processes will be provided.

#### Detailed program

Monogenic and multifactorial diseases: genetic studies and technical approaches

Celiac disease

Inflammatory bowel diseases

Stem cells and their niche in the intestine

Colon cancer, sporadic and inherited forms



## **Prerequisites**

Advanced knowledge in genetics, biology and molecular biology.

## **Teaching form**

Lessons in attendance, subject to any ministerial changes following the COVID pandemic situation

## **Textbook and teaching resource**

Reviews

## **Semester**

First semester

## **Assessment method**

These subjects will be evaluated within the exam of the integrated course, that will be an oral examination on the subjects taught during the lectures or on further subjects (part of the program) not exhaustively discussed in class. The exam will be in person.

## **Office hours**

By appointment

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