



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## SYLLABUS DEL CORSO

### Patologia

2526-2-I0303D007

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#### Aims

At the end of the course the student must have acquired the main knowledge on the causes of disease including genetic diseases, as well as the fundamental pathogenetic and pathophysiological mechanisms; have learned the mechanisms responsible for the onset and evolution of the inflammatory response and neoplastic transformation; learn about genetics and microbial metabolism and the pathogenesis of microbial diseases; know the physiological defense mechanisms of the organism and the consequences of an altered functioning of the immune and hematopoietic system.

#### Contents

Exogenous and genetic causes of disease; fundamental pathophysiological and pathogenetic mechanisms underlying the onset and evolution of the inflammatory response and neoplastic transformation; microbial genetics and metabolism and pathogenesis of microbial diseases; physiological defense mechanisms of the organism and consequences of an altered functioning of the immune and hematopoietic system.

#### Detailed program

For the extended teaching program, see the extended program of the individual modules.

#### Prerequisites

Knowledges of histology, anatomy, physiology, genetics and biochemistry

## **Teaching form**

### **Monza**

All lessons in the modules of General Pathology, General Pathophysiology, Clinical Pathology, Genetic Pathology and Blood and Immune System Diseases at the Monza site are held in attendance in frontal modality.

The lessons of the Microbiology module at the Monza campus are held in attendance in both frontal and interactive modes

### **Bergamo**

All lessons are held in attendance in frontal modality.

## **Textbook and teaching resource**

- G.M. Pontieri ELEMENTI DI PATOLOGIA GENERALE E FISIOPATOLOGIA GENERALE IV ed. PICCIN
  - Eudes Lanciotti MICROBIOLOGIA CLINICA - Fifth edition 2021 - Zanichelli
  - Thompson and Thompson, Genetics in medicine, 8th ed. Elsevier
  - Strachan & Reid, Human Molecular Genetics, 4 Ed. Garland Science
- Other teaching material will be provided by the teachers

## **Semester**

Second year- First semester

## **Assessment method**

Written exam with mandatory oral exam.

The written test will consist of:

- ? Closed-answer test (multiple choice) of Microbiology to check preparation on the exam program
  - ? Closed-answer test (multiple choice) of Blood and Immune System Diseases to check preparation on the exam program
  - ? Closed-answer test (multiple choice) of Genetic Pathology to check preparation on the exam programme. For the Bergamo students, the written test will also contain open-ended questions on Genetic Pathology.
- The oral test will consist of an interview on the topics of General Pathology, General Pathophysiology and Clinical Pathology carried out in class to check communication skills in the disciplinary field.
- The final evaluation will take into account the results obtained in both the written test and the oral test.

## **Office hours**

making an appointment

## Sustainable Development Goals

GOOD HEALTH AND WELL-BEING | QUALITY EDUCATION

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