



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## COURSE SYLLABUS

### Clinical Pathology

2425-3-H4101D257-H4101D036M

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#### Aims

Acquisition of the knowledge necessary to understand the general concepts of clinical pathology in order to critically observe the values that the analysis laboratory provides, understanding their role and importance for the purposes of correct diagnosis and therapeutic monitoring, applying this knowledge to concrete clinical examples. The knowledge provided represents the indispensable basis for the acquisition of a scientific method applicable to all the specialist disciplines that the student will face during his professional growth.

#### Contents

The course aims to provide the student with the role, limits and purposes of laboratory analyzes up to advanced diagnostic approaches

#### Detailed program

General concepts of clinical pathology.

Hematological diagnostics:

The blood count and leukocyte formula

Hematological morphology on venous blood smear

Alterations of leukocytes

Lympho- and myeloproliferative diseases

Bone marrow aspirate and biopsy

An advanced clinical diagnostic model: from the blood count to the diagnosis of leukemia and evaluation of minimal residual disease

Omics and molecular diagnostics

Immunohematology analysis: hemostasis and thrombosis

### **Prerequisites**

Knowledge relating to the preparatory courses indicated in the degree course regulations

### **Teaching form**

6 in-person learning lessons of 2 hours each.

### **Textbook and teaching resource**

Provided by the teacher

### **Semester**

First semester

### **Assessment method**

See the description in the main course Syllabus

### **Office hours**

By email appointment with Professor Serafini at the following email address: [marta.serafini@unimib.it](mailto:marta.serafini@unimib.it)

### **Sustainable Development Goals**

GOOD HEALTH AND WELL-BEING

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