



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## SYLLABUS DEL CORSO

### Malattie del Sangue e del Sistema Immunitario

2021-2-I0302D007-I0302D028M

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#### Aims

The student must be able to perform the:

-Characterization of blood cellular composition and description of main hematological and immunological diseases

#### Contents

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#### Detailed program

##### BLOOD AND MORPHOLOGY OF THE BLOOD CELLS.

- Morphological characteristics of blood cells.
- Methodology for counting peripheral blood particles and for automated differentiation of leukocytes (automated leukocyte formula).
- Hemopoiesis and hemocateresis.
- Characteristics and properties of stem cells (clinical and experimental use).
- The hematological report (knowledge of direct and calculated parameters, reading and interpretation of values).

##### BLOOD DISEASES.

- Microcytic anemias (martial deficiency and thalassemia) with evidence of instrumental outlook.
- Normocytic anemias (post-hemorrhagic, renal failure, maturation block) with evidence of instrumental outlook.
- Macrocytic anemias (B12 deficiency and folate) with evidence of instrumental frameworks.
- Acute and chronic leukemias (definition and diagnostic framework with visualization of instrumental outlook).
- Lymphoproliferative diseases
- Myelodysplasias and myeloproliferative diseases.

- Platelet pathologies
- DISEASES OF THE IMMUNE SYSTEM**
- Multiple myeloma (with particular attention to the diagnostic process).
  - Lymphomas (general framework).

## **Prerequisites**

## **Teaching form**

During COVID-19 period the lessons will be performed on-line

## **Textbook and teaching resource**

Reviews

## **Semester**

Second year- First semester

## **Assessment method**

"In itinere" written exam with multiple choice test, to evaluate global knowledges about course program

During COVID-19 emergency written tests will be performed on-line with proctoring control

Final judgment is based on the grade point average normalized for credits obtained in each module

## **Office hours**

making an appointment

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