

# UNIVERSITÀ DEGLI STUDI DI MILANO-BICOCCA

## SYLLABUS DEL CORSO

### Malattie del Sangue e del Sistema Immunitario

2425-2-10302D007-10302D028M

#### Aims

The student must be able to perform the:

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

#### Contents

By the end of the course, the students will have acquired the specific knowledge of the effects of functional alterations of haematological and immunological cells

#### **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**

eight two-hours frontal lessons in attendance

#### Textbook and teaching resource

Reviews

#### Semester

First semester

#### Assessment method

Written test (multiple choice test consist of 30 questions) to evaluate knowledges about course program

#### **Office hours**

By appointment

#### **Sustainable Development Goals**

GOOD HEALTH AND WELL-BEING