

## SYLLABUS DEL CORSO

### Malattie del Sangue e del Sistema Immunitario

2425-2-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

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

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