



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## COURSE SYLLABUS

### Haematologic Disorders

2122-3-H4601D013-H4601D036M

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#### Aims

EMATOLOGY

Hematological disorders: classification and clinical characteristics of anemia, leukemias, myelodysplastic syndromes and lymphomas.

#### Contents

The course aims to provide students with the tools necessary to understand the main medical, cardiological and haematological conditions, in order to complete the medical education of future dentist graduates.

#### Detailed program

Hematology - Detailed program

Morphology, physiology and physiopathology of the blood and the bone marrow; hematopoietic stem cells; anaemias; thrombocytopenias; main clonal disorders, such as: acute myeloid leukemias, myelodysplastic syndromes, chronic myeloid leukemia, acute lymphoblastic leukemia, chronic lymphocytic leukemia, main Philadelphia-negative myeloproliferative disorders, main monoclonal gammopathies, Hodgkin and non-Hodgkin lymphomas.

- Anaemias: causes, symptoms and signs.

Leucemie acute mieloidi: molecular mechanisms, symptoms, signs, prognosis, evolution.

- Myelodysplastic syndromes: molecular mechanisms, symptoms, signs, prognosis, evolution.
- Leucemia mieloide cronica: molecular mechanisms, symptoms, signs, prognosis, evolution, role of targeted therapies in the treatment of LMC.
- Acute lymphoblastic leukemia: molecular mechanisms, symptoms, signs, prognosis, evolution.
- Chronic lymphocytic leukemia: molecular mechanisms, symptoms, signs, prognosis, evolution.
- Main Philadelphia-negative myeloproliferative disorders: polycythaemia vera, essential thrombocythemia, idiopathic myelofibrosis: molecular mechanisms, role of JAK2, MPL and CALR; symptoms, signs, prognosis, evolution.
- Main monoclonal gammopathies: multiple myeloma and MGUS; molecular mechanisms, symptoms, signs, prognosis, evolution.
- Hodgkin and non-Hodgkin lymphomas: molecular mechanisms, symptoms, signs, prognosis, evolution, main differences.

## **Prerequisites**

Completion of the examinations of the second year courses

## **Teaching form**

Lesson in attendance, subject to any ministerial changes following the COVID pandemic situation.

## **Textbook and teaching resource**

Harrison –Principles of internal medicine

## **Semester**

Second semester

## **Assessment method**

An oral examination is employed to test students' knowledge, after intermediate assessment of the level of knowledge through written examination.

The examination is intended to test students' knowledge acquired in the different modules of the course.

During the exam anatomical models and diagnostic images might be used to assess students' knowledge.

## **Office hours**

On appointment

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