

# UNIVERSITÀ DEGLI STUDI DI MILANO-BICOCCA

### **SYLLABUS DEL CORSO**

# **Patologia Generale**

2526-2-I0302D007-I0302D023M

#### **Aims**

The student must be able to perform the:

- Classification and characterization of cell damage and death mechanisms
- Description of vascular and general mechanisms of acute inflammation
- · Description of pathogenetic mechanisms of chronic inflammation
- Description of pathogenetic mechanisms of hemostasis
- Description of tissue repair and regeneration
- · Definition of cellular and molecular mechanisms of atherosclerosis
- Description of cell-mediated and humoral immunological mechanisms
- Classification and description of hypersensibility responses
- Description and characterization of preneoplastic lesions
- Description of neoplastic growth with characterization of benign and malign features
- · Description of metastatic process
- · Definition and characterization of oncogenes and oncosuppressor genes
- · Description of cancerogenic role of physical and chemical agents

• Definition of cancerogenic role of viruses

#### **Contents**

By the end of the course, the students will have acquired the general concepts and specific knowledge of: ethiopathogenesis of inflammatory, oncological and immunological diseases

#### **Detailed program**

**Etiology and pathogenesis of diseases**: Cellular response to damage; irreversible damage; extrinsic etiology of the diseases: physical etiology (radiation and heat)

**Immunology**: tissue response to damage; immunity response; cells, tissue and organs of immunological system; antibodies and antibody response.

**Immunopathology**: immunodeficiencies; autoimmune diseases; immediate hypersensibility response; delayed hypersensibility response.

Inflammation: acute inflammation; chronic inflammation; atherosclerosis; systemic effects of inflammation

Tissue repair and wound healing

Cell growth and differentiation pathology.

General Oncology: preneoplastic lesions; cancer; cancerogenesis; oncogenes and oncosuppressors

#### **Prerequisites**

#### **Teaching form**

8 Front Lessons of 2 hours in attendance

#### Textbook and teaching resource

- G.M. Pontieri ELEMENTI DI PATOLOGIA GENERALE E FISIOPATOLOGIA GENERALE IV° ed. PICCIN
- V. Del Gobbo IMMUNOLOGIA (per le Lauree sanitarie) IV° ed. PICCIN

#### Semester

Second year, first semester

#### **Assessment method**

Oral discussion about different topics belonging to the classroom lessons (teachers' choice) to evaluate scientific communication skills and the ability to establish scientific links among different topics.

#### Office hours

making an appointment

## **Sustainable Development Goals**

GOOD HEALTH AND WELL-BEING | QUALITY EDUCATION