

## COURSE SYLLABUS

### General Pathology

1920-2-I0302D007-I0302D023M

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#### 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 hypersensitivity 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 hypersensitivity response; delayed hypersensitivity 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**

Lectures in italian language

## **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**

Written test (multiple choice test) to evaluate global knowledges about course program.

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

## **Office hours**

making an appointment

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