

# UNIVERSITÀ DEGLI STUDI DI MILANO-BICOCCA

## SYLLABUS DEL CORSO

# **Patologia Generale**

2122-1-I0201D127-I0201D034M

#### **Aims**

The course aims to introduce the student to the knowledge of the causes of human diseases, understading pathogenetic and pathophysiological mechanisms relevant for their professional field.

### **Contents**

Homeostasis and disease. Etiology and pathogenesis: disease-causing agents. Acquired and \_\_\_\_\_\_

### **Detailed program**

- General Pathology. Etiology. Pathogenesis. Concept of homeostasis and disease. Onset and course of disease. Acute and chronic diseases. General etiology. Physiological and pathological predisposing factors.
- Causes of disease. Physical causes, chemical causes, biological causes: bacteria, viruses, protozoa, fungi, metazoans. Virulence. Pathogenicity. Transmission of infections. Spread of infectious agents. Pathogenic action.

- General properties of the immune system. Innate immunity and adaptive immunity. The cells of the immune system. The soluble mediators. Antigens. The immune response
- Acute and Chronic Inflammation. Phases of the inflammatory process. Chemical mediators. The cells of inflammation.
- Pathophysiology of thermoregulation. Generalities. Thermogenesis: basal metabolism, regulation of thermogenesis. Termodispersion. Alterations in body temperature. Not fever Hyperthermia. Fever Hyperthermia: pathogenesis, course, types of fever.
- Cellular homeostasis disorders. Atrophy, hypertrophy, metaplasia, dysplasia, cellular anaplasia. Cell injury and death. Oncology.

### **Prerequisites**

None

### **Teaching form**

Lectures.

Lessons will be in attendance, subject to any ministerial changes following the COVID pandemic situation.

### Textbook and teaching resource

Resources distributed during the course by the teacher.

#### Semester

First year, I semester

#### Assessment method

Test with multiple choice (15 quiz) and an open ended question.

Exams will be in attendance, subject to any ministerial changes following the COVID pandemic situation.

# Office hours

By appointment (email request)