



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## COURSE SYLLABUS

### General Pathology

2223-2-I0202D126-I0202D041M

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#### Aims

The course aims to introduce the student to the knowledge of the causes of human diseases, understanding pathogenetic and pathophysiological mechanisms.

#### Contents

Homeostasis and disease. Etiology and pathogenesis: disease-causing agents. Acquired and innate immunity. The immune response. Cell and tissue damage. Inflammation and tissue repair. Oncology.

#### 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.

## **Textbook and teaching resource**

Resources distributed during the course by the teacher.

## **Semester**

Second year, II semester

## **Assessment method**

Test with multiple choice (7 quiz) and an open ended question.

## **Office hours**

By appointment (email request)

## **Sustainable Development Goals**

GOOD HEALTH AND WELL-BEING

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