



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## SYLLABUS DEL CORSO

### Patologia Generale

2021-2-H4601D005-H4601D018M

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#### Aims

Preparation of expert odontologists by the acquisition of knowledge with the discipline of General Pathology: in etiopathogenesis of pathological processes, in particular related to odontopathology.

#### Contents

The course will provide with the discipline of General Pathology:

knowledge of causes and general mechanisms of pathological processes (etiopathogenesis), with specific examples on odontology. Appropriate technical/scientific terminology. Pathogenetic and physiopathologic knowledge to appropriately follow the successive clinical courses

#### Detailed program

General Pathology: Etiology, pathogenesis, acquired, congenital, inherited, acute and chronic degenerative diseases. Immunity, immune response, primary and secondary response, vaccination, immunopathology, hypersensitivity. Ionizing radiation pathology. Burns. Acute and chronic inflammation. Fever, leukocytosis, acute phase proteins. Wound repair. Granulation and cicatricial tissue. Fibrosis. Amyloidosis. Cell death. Atherosclerosis. Hypertrophy. Hyperplasia. Hypotrophy. Organ failure. Compensation. Preneoplastic lesions. Benign and malignant tumors. Carcinogenesis (chemical, physical and biological). Oncogenes and oncosuppressors, genes for DNA repair. Hereditary tumors. Angiogenesis and metastasis. Hormone and tumor. Tumor metabolism, Neoplastic cachexia. Coagulation, hemophilia, thrombosis, embolism, infarct. Thalassemia. Trisomies. Diabetes. Ageing.

In the program will be expounded on specific examples related to the dental pathology.

## **Prerequisites**

The goals of the previous courses

## **Teaching form**

Frontal lessons, esercitazioni

In the period of Covid-19 emergency, lessons will be provided by mixed manner: partial presence and asynchronous/synchronous recorded lessons

## **Textbook and teaching resource**

- Pontieri, Russo, Frati
- Patologia Generale - V ed. - Piccin
  
- Robbins e Cotran - Le basi patologiche delle malattie - IX ed. - Elsevier;
  
- Majno e Joris - Cellule, tessuti e malattia - I principi della Patologia Generale - Casa Editrice Ambrosiana;
  
- Abbas A.B., Lichtman A.H. Fondamenti di Immunologia. Funzioni e alterazioni del sistema immunitario. Piccin.

## **Semester**

annual teaching at the second year of course

## **Assessment method**

Oral examination.

In the period of Covid-19 emergency the oral examination will be telematic, using the WebEx platform.

The oral examination will be preceded by a written multiple-choice test, comprising 90 questions with only one correct answer (among 4), aimed at evaluating global comprehension of microbiology program. The text will be passed with 51 exact answers, the value of each exact answer is 0.35 point.

The oral examination consists in the discussion of the remaining part of the integrated course, aimed at verifying the student ability to make connections and provide details. The final score will be the weighted mean of the two tests

## **Office hours**

by appointment

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