



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## SYLLABUS DEL CORSO

### Laboratorio di Patologia

1819-2-H4601D005-H4601D020M

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#### Aims

The laboratory of Pathology wants to contribute in the preparation of expert odontologists by the acquisition

in General Pathology: knowledge of cellular and molecular aspects of etiopathogenesis of pathological processes and alterations of control mechanisms of cellular homeostasis

in Clinical Pathology: knowledge of meaning of laboratory tests, their clinical and scientific relevance and their appropriate use

#### Contents

The laboratory of Pathology will provide,

- for General Pathology: The possibility to observe as nowadays the cellular and molecular approach is fundamental for developing the knowledges of etiopathogenesis of the different pathological situations, as described in the General Pathology course

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#### Detailed program

General Pathology: observation of cell line cultures and of primary cell cultures; plating of cells collected from the buccal cavity. Cell count and staining of cultured cells. Extraction of cellular nucleic acids and proteins; Evaluation of gene expression by PCR, western blot, FACS. Evaluation of gene rearrangements by PCR.

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## **Prerequisites**

The goals of the previous courses

## **Teaching form**

laboratory stage

## **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.
- Burtis -Tietz - Textbook of Clinical Chemistry and Molecular Diagnostics Ed Saunders 2006
- Henry – Clinical diagnosis and management by laboratory methods Ed Saunders 2007
- Hovanitz – Laboratory Medicine Ed. Churchill Livingstone 1991

## **Semester**

second semester of the second year of course

## **Assessment method**

Oral examination.

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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