



UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Pathology Laboratory

1920-2-H4601D005-H4601D020M

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

Detailed program

General Pathology: observation of cell line cultures and of primary cell cutiltures; 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.

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
