



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## COURSE SYLLABUS

### Laboratory Medicine

2425-4-H4101D262

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#### Aims

1. The student must learn the professional characteristics of the anatomopathologist's job, with the aim of being able to establish a profitable professional relationship
2. The course aims to provide the student with the tools necessary for the correct request of microbiological investigations and for the critical interpretation of the results, both in terms of disease probability and severity and pathophysiological, clinical and prognostic significance.
3. to introduce the students to the correct prescription of genetic testing
4. The goal of the course is to provide the tools for the correct use of biochemical, and the definition of their indications and interpretation.

#### Contents

1. Professional tasks of the anatomopathologist; technologies used in the Pathological Anatomy laboratory
2. Diagnostic tests relating to respiratory, central nervous system, gastrointestinal and genitourinary tract infections. Infections in pregnancy. Of the fetus, newborn and infancy, systemic, heart, bone, joint and skin infections, opportunistic and nosocomial infections. Direct and indirect diagnostic methods and techniques in bacteriology, virology, mycology and parasitology. Evaluation of the in vitro sensitivity of microorganisms to antimicrobial drugs. Discussion of clinical cases.
3. techniques of cytogenetics, molecular cytogenetics and molecular genetics
4. Clinical Biochemistry And Clinical Pathology: Lab test in oncology and rheumatology. Inflammation markers. Discussion of clinical reports.

#### Detailed program

See detailed programs of each part

## **Prerequisites**

basic sciences knowledge

## **Teaching form**

Lectures

## **Textbook and teaching resource**

Slides distributed during the course

## **Semester**

First semester

## **Assessment method**

A quiz with 30 multiple choice questions  
Oral examination.

9 for clinical biochemistry: at least 5/9 right answer  
9 for medical genetics: minimal 5/9  
6 for pathology: minimal 3/6  
6 for clinical microbiology: minimal 3/6

Exames would be considered achieved when the student reaches the minimal for the 4 parts and the total score is at least 18/30.

Thus, the student can proceed to the oral examination.

## **Office hours**

Appointemt on request by e-mail  
valerio.leoni@unimib.it

# Sustainable Development Goals

GOOD HEALTH AND WELL-BEING | QUALITY EDUCATION | GENDER EQUALITY

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