



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## SYLLABUS DEL CORSO

### Laboratorio di Microbiologia

2324-2-H4601D005-H4601D017M

---

#### Aims

To provide the dentistry student, through laboratory exercises, with the basics and knowledge of the diagnostic path of the Clinical Microbiology Laboratory in order to submit a correct exam request and interpret the results obtained.

#### Contents

Laboratory exercises with simulated clinical samples for the execution of various microbiological investigations and laboratory methods, for the search for microbial agents and for the in vitro evaluation of their sensitivity to antimicrobial agents.

#### Detailed program

Execution of Microbiology laboratory methods for:

- differential stainings for the study of microorganisms by microscopy directly from the sample;
- microbial isolation from different biological matrices in different culture media;
- microbial identification through biochemical tests;
- evaluation of antibiotic sensitivity of pathogenic bacteria by means of techniques such as susceptibility testing and determination of MICs; EUCAST susceptibility breakpoints evaluation
- rapid methods for the search for specific microbial antigens;
- molecular methods for the research of microbial agents after extraction of nucleic acids;
- study of clinical cases.

## **Prerequisites**

--

## **Teaching form**

Laboratory exercises

## **Textbook and teaching resource**

Notes, standard operative procedures (SOPs), cards and handouts of the Microbiology Laboratory

## **Semester**

II semester of the 2nd year of the degree course

## **Assessment method**

Specific questions in the final Microbiology quiz. Diagnostic aspects verified in the final Microbiology exam.

## **Office hours**

On request and by appointment

## **Sustainable Development Goals**

GOOD HEALTH AND WELL-BEING

---