



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## SYLLABUS DEL CORSO

### Microbiologia

1920-2-H4601D005-H4601D016M

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#### Aims

Preparation of expert odontologists by the acquisition of knowledge in different disciplines:

Microbiology: microbial agents responsible for infections and diseases of both general and odontostomatologic interests and understand the principles of microbiological diagnostics.

#### Contents

he course will provide,

Microbiology: modules allow students to know the microbial agents responsible for infections and diseases of interest to both general and odontostomatologic and understand the principles of microbiological diagnostics.

#### Detailed program

Microbiology:

General characteristics and classification of bacteria, viruses, fungi and protozoa pathogenic to humans. Host-parasite interactions. Mechanisms of microbial pathogenicity. Physical and chemical methods for disinfection and sterilization. Infection control. Main methods useful in microbiological diagnostics. Main classes of antimicrobial agents. Prophylaxis of infections and use of vaccines. The microbial habitat of the oral cavity. Microbiology of dental plaque and

microbial biofilm: structure and organization. Microbiological aspects of dental caries. Microbiological aspects of periodontal diseases. Microbiological aspects of infections of the mouth. Notes on antimicrobial therapy and prophylaxis of oral infections.

## **Prerequisites**

The goals of the previous courses

## **Teaching form**

Frontal lessons, exercitations, laboratory stages

## **Textbook and teaching resource**

- Microbiologia - P.R. Murray, Ken Rosenthal, G.S. Kobayasky, M.A. Pfaller. EdiSES.

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Microbiologia Odontoiatrica (4°edizione) – P.D. Marsh, M. Martin. UNI.NOVA

- Oral Microbiology (5th edition), P.D. Marsh, M. Martin. CHURCHILL LIVINGSTONE ELSEVIER

## **Semester**

Second semester (March-June) of the second year 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

