



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## COURSE SYLLABUS

### Clinical Pharmacology and Chemotherapy

2122-3-H4601D014-H4601D038M

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#### Aims

At the end of the course the student will know the p\_\_\_\_\_

#### Contents

The program will examine the pharmacological properties of the main chemotherapeutic agents used in dentistry.

#### Detailed program

Classification of antimicrobial drugs - Spectra, mechanisms of activity, and specific targets of the main classes of bacteriostatic and bactericidal antibiotics - Drug resistance, antimicrobial drug associations, antibiotic prophylaxis - Complications of antibiotic therapy - Criteria for an appropriate antibiotic usage in relationship to the pathogenic agent and patient typology - Penicillins, cephalosporins, and other beta-lactam antibiotics – Other cell-wall antibiotics – Tetracyclines, chloramphenicol, aminoglycosides, macrolides, lincosamines – Sulphamides, trimethoprim, cotrimoxazole – Chinolones and urinary antiseptics – Antitubercular drugs – Antifungals – DNA and RNA antivirals - HIV antiretrovirals – Antimalarial drugs – Principles of anticancer chemotherapy – Antimetabolite, antibiotic, alkylating, mitotic spindle inhibitor and other chemotherapeutic agents – Steroidal and non-steroidal chemotherapeutics - Targeted anti-cancer therapy.

#### Prerequisites

Knowledge acquired during all preparatory courses indicated in the dentistry degree course plan.

## Teaching form

The teaching will be performed in attendance, except for ministerial changes due to the COVID pandemic situation. \_\_\_\_\_

## Textbook and teaching resource

F.J. Dowd, B.S. Johnson e A.J. Mariotti "Pharmacology and Therapeutics for Dentistry", VII edizione, Elsevier, -

Goodman & Gilman "Le Basi Farmacologiche della Terapia", XIII Edizione, Zanichelli, 2019.

Goodman & Gilman "Le basi farmacologiche della terapia – Il manuale", II Edizione, 2015.

## Semester

First semester.

## Assessment method

The final evaluation will be performed through an oral exam aimed to assess whether students have acquired the exact terminology of the subject, the \_\_\_\_\_

## Office hours

On appointment.

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