UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

# COURSE SYLLABUS

# Pharmacology

**2425-1-F0901D045**

## Aims

The course aims to provide the student with knowledge relating to the therapy of the main pathologies and to deepen the critical reading of the scientific literature on pharmacological topics.

## Contents

The main classes of drugs will be treated using a didactic approach based on scientific literature.

## Detailed program

The course will cover the following topics:

- Drug development and pharmacovigilance
- Organization of pharmaceutical companies and company positions
- Bibliographic research
- Pharmacokinetics and pharmacodynamics
- Pharmacogenomics and personalized medicine
- Gender pharmacology
- Pharmacology of cholinergic transmission
- Pharmacology of catecholaminergic transmission
- Pharmacology of catecholaminergic transmission
- Pharmacology of serotonergic, GABAergic and glutamatergic transmissions
- Antidepressants
- Hallucinogenic psychotherapy

- Monoclonal antibodies
- Breast cancer treatment
- Treatment of type 2 diabetes
- RNA vaccines
- Cannabis
- Treatment of Alzheimer's disease

## Prerequisites

Previous knowledge of the basic principles of chemistry, biochemistry, anatomy, physiology and pathology.

## Teaching form

Teaching with different teaching methods:

- 13 frontal lessons
- 3 interactive lessons with a frontal part and a part of practical exercises in the classroom
- 8 interactive lessons with a frontal part and a group work part
  All activities are carried out in the classroom

## Textbook and teaching resource

Slides and scientific literature

## Semester

Second semester

## Assessment method

Oral examination
The final evaluation will be the average of the votes obtained in:

- Preparation of a Power Point presentation and oral presentation in English of the group work
- Oral examination on the topics covered in class

## Office hours

On appointment (write to: laura.musazzi@unimib.it)

## Sustainable Development Goals

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