



UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

SYLLABUS DEL CORSO

Pharmacology

2122-3-H4102D020-H4102D065M

Aims

- 1) To know the most used onco-hematological drugs
- 2) To understand the principles underlying onco-hematologic therapy
- 3) To identify and correctly solve the complex problems related to the use of onco-hematological drugs in clinical practice

Contents

- 1) classification of the most used hematological drugs: anti-anemic drugs and hematopoietic growth factors; anticoagulants and antiplatelet agents; anti-hemorrhagic drugs; lipid-lowering drugs; CAR-T cells; drugs acting on trophic factor receptors and on signaling pathways; outlines on drug affecting DNA methylation (and acetylation) in onco-hematological diseases; monoclonal antibodies used in the onco-hematological field.
- 2) ADME and mechanisms of actions
- 3) cellular, biochemical and molecular bases of the action of hematological drugs and their interactions within the human body
- 4) therapeutic uses
- 5) advantages and disadvantages of their therapeutic use

analysis of some clinical cases

Detailed program

- 1) classification of the most used hematological drugs: anti-anemic drugs and hematopoietic growth factors; anticoagulants and antiplatelet agents; anti-hemorrhagic drugs; lipid-lowering drugs; CAR-T cells; drugs acting on trophic factor receptors and on signaling pathways; outlines on drug affecting DNA methylation (and acetylation) in onco-hematological diseases; monoclonal antibodies used in the onco-hematological field.
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Prerequisites

Basic Pharmacology course

Teaching form

Lessons in attendance, subject to any ministerial changes following the COVID pandemic situation, and small group activities

Textbook and teaching resource

Brunton, Hilal-Dandan, Knollmann. Goodman and Gilman: The pharmacological basis of therapeutics. McGraw-Hill, 13th ed

Katzung and Trevor. Basic and clinical pharmacology. McGraw-Hill, 13th ed

Semester

III year, second term

Assessment method

knowledge assessment with an integrated exam

Office hours

on appointment by email
