

UNIVERSITÀ DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Pharmacology

2223-3-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

- 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

- 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

Textbook and teaching resource

Brunton, Hilal-Dandan, Knollmann. Goodman and Gilman: The parmacological 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

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING