UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

SYLLABUS DEL CORSO

Advanced Therapies, Prognostic and Diagnostic Biomarkers in cancer diseases

2425-117R-ADTherapies

Title

Advanced Therapies, Prognostic, and Diagnostic Biomarkers in Cancer

Teacher(s)

Fabrizio Bianchi (1), Vincenzo Giambra (2).

1. Cancer Biomarkers Unit, 2. Hematopathology Unit, Fondazione IRCCS Casa Sollievo della Sofferenza, San Giovanni Rotondo (FG).

Language

Italian, English

Short description

The goal of this course is to introduce students to advanced therapeutic strategies for treating cancer, with a particular focus on recent developments in immunotherapy and cell-based therapies (e.g., CAR-T cells). Additionally, the course will cover the development and application of cancer biomarkers, including the use of liquid

biopsy for the early diagnosis and prognosis of aggressive cancers. Emerging challenges and opportunities in translating these innovations from bench to bedside will also be explored. The role of multidisciplinary approaches in advancing research and treatment will be emphasized, highlighting the novel technologies applied to oncology, genomics, and bioinformatics. The course is divided into two parts: a theoretical section aimed at providing students with a solid understanding of the current background in these fields, followed by a practical component where students will work in teams to design and develop research projects related to the topics discussed.

CFU / Hours

1 CFU (8 hours)

Teaching period

2nd semester

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING