UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

SYLLABUS DEL CORSO

Pathology

2122-3-H4102D020-H4102D066M

Aims

1) Understanding the pathology of cancer

2) Understanding the carcinogenic process and the transformed cell

3) Understanding initiation promotion progression

4) Understanding the tumor microenvironment

5) Understanding inflammation and cancer

6) Understanding carcinogenesis and tumor progression in breast colon and lung cancer: Targets in breast colon and lung cancer

Contents

1) cellular biochemical and molecular bases of the carcinogenic process

2) carcinogens, classification, action, DNA mutations, oncogenes

3) Components of the tumor microenvironment : angiogenesis, stroma, matrix

4) Components of the tumor infiltrate: natural and adaptive immunity cells in the cancer field

5) Growth factors and receptors in major tumors and their microenvironment; molecular bases of targeted therapy and immunotherapy

Detailed program

1) cellular biochemical and molecular bases of the carcinogenic process

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Prerequisites

basic pathology course (II yrs) , preparatory courses to the Vertical Tracks according to the regulation

Teaching form

frontal lessons and small group activities

Textbook and teaching resource

to be defined

Semester

second term

Assessment method

integrated exam

Office hours

on appointment