UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

# COURSE SYLLABUS

## Pathology

**1920-3-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

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