



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## SYLLABUS DEL CORSO

### Pathology

1920-3-H4102D020-H4102D066M

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

## **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

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