UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

# COURSE SYLLABUS

## Microscopic Anatomy

**2223-1-H4102D087-H4102D022M**

### Aims

The student will be able to indicate the normal microscopic anatomical organization of the main organs of the human organism, recognizing the distribution of the different tissues and their main structural and functional characteristics

The microscopic and functional structure of the organs of the digestive, respiratory, urinary, genital, lymphatic, nervous, endocrine and integumentary organs will be addressed in preparation to histopathological assessment

### Contents

Students will be introduced to the use of the optical microscope to carry out a microscopic examination of non-pathological organs, with in-depth analysis of the microscopic characteristics of the main human organs

### Detailed program

Microscopic examination of the following organs/or systems

-lymphatic system (lymph nodes, spleen, thymus, tonsils)
-respiratory system (larynx, trachea, main bronchi and their branches, lungs, alveolus structure)
-digestive tract and organs associated with the digestive tract (pharynx, esophagus, stomach, small intestine, large intestine, liver and pancreas)
-urinary system (kidneys, ureters, bladder, urethra)
-female and male reproductive systems (ovaries, Fallopian tubes, uterus, vagina, mammary glands, seminiferous tube, epididymis, vas deferens and the accessory glands: the seminal vesicles and prostate gland)

-endocrine system (thyroids, parathyroid, pituitary glands, adrenal gland)
-central and peripheral nervous systems
-skin and its appendages

## Prerequisites

The student must know the basic notions of Cell Biology as acquired in the high school

## Teaching form

Theoretical lessons and recognition of histological preparations slides through practical lessons in the laboratory

The language of delivery of the course will be **English**

(Activities in attendance, subject to any ministerial changes following the COVID pandemic situation)

## Textbook and teaching resource

Junqueira's Basic Histology: Text and Atlas, Fourteenth Edition by Anthony L. Mescher

Wheaters functional histology: a text and colour atlas, Young Barbara

## Semester

2nd term

## Assessment method

Assessment of the suitability on the basis of the attendance/participation in the laboratory activities

The exam consists of an interview on the topics covered during the theoretical lessons and on the exercises carried out in the classroom. The course does not include ongoing tests.

Each student will be evaluated not only for his preparation in recognizing a histological preparation, but also in the ability to integrate with the part of the course concerning cytology, histology and embryology through open questions.

The examination mark used by the commission to evaluate the oral exam will be proportional to a correct identification of the histological preparation, mastery of language and degree of deepening of the topics.

(Activities in attendance, subject to any ministerial changes following the COVID pandemic situation)

## Office hours

Every day after agreeing an appointment with the teacher of the course

## Sustainable Development Goals

QUALITY EDUCATION | GENDER EQUALITY | REDUCED INEQUALITIES