



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## SYLLABUS DEL CORSO

### Histology

1819-1-H4102D008-H4102D025M

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#### Aims

Students will be able to understand the basic histological techniques, to prepare histological samples for the observation of the structure and ultrastructure of the main biological tissues, under the supervision of qualified laboratory staff and by using an "on field" approach.

#### Contents

The students are introduced to the main histological techniques and to the instruments, reagents and materials needed for histological analysis.

#### Detailed program

Flow cytometry to describe tissues properties

Principles of light microscopy

Principles of electron microscopy

Principles of confocal microscopy

Preparation of biological samples for immunohistochemistry, immunofluorescence, histological analysis

Instruments for hematological and blood chemistry analysis

## **Prerequisites**

College-level scientific knowledge

## **Teaching form**

Frontal lessons, practical activity in the histology laboratory

## **Textbook and teaching resource**

Histology: A Text and Atlas, with Correlated Cell and Molecular Biology, 6th Edition 6th Edition

by Michael H. Ross PhD, Wojciech Pawlina MD.

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

## **Semester**

2nd term

## **Assessment method**

Assessment of the suitability on the basis of the attendance/participation to the laboratory activities.

Knowledge and skills will be further assessed during the "Fundamentals of Human Morphology" examination, with the modalities there described.

## **Office hours**

See "Clerkship 2"

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