UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Histology

1920-1-H4102D008-H4102D025M

Aims

Students will be able to the 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”