UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Microscopic Anatomy

2425-1-H4601D082-H4601D08204

Aims

The objectives of the course are to provide expertise in human histology

Contents

The course includes the acquisition of the knowledge of the microscopic anatomy of human organs and the observation of histological preparations under the optical microscope

Detailed program

Introduction for correct use of the light microscope. Overview of the morphological characteristics of the different tissues of human body.

Digestive system. Structure, organization and histology of: tongue, esophagus, stomach, small, large intestine, rectum. Observation of the histological samples at the light microscope.

Digestive glands. Structure, organization and histology of: liver, gallbladder, pancreas, salivary glands. Observation of the histological samples at the light microscope.

Endocrine system. Structure, organization and histology of: hypophysis, thyroid, parathyroid, adrenal glands. Observation of the histological samples at the light microscope.

Urinary system. Structure, organization and histology of: kidney, minor and major calyx, renal pelvis, ureters, bladder. Observation of the histological samples at the light microscope.

Respiratory system. Structure, organization and histology of: nose, larynx, trachea, bronchial tree (primary, secondary and tertiary bronchi, bronchioles, terminal and respiratory bronchioles, alveolar ducts and alveolar epithelium), lung. Observation of the histological samples at the light microscope.

Female reproductive system. Structure, organization and histology of: ovary, fallopian tubes, uterus. Observation of the histological samples at the light microscope.

Male reproductive system. Structure, organization and histology of: testis, tubuli recti, rete testis, ductuli efferentes, epididymis, duct system, seminal vesicles, bulbourethral glands, prostate. Observation of the histological samples at the light microscope.

Lymphatic system. Structure, organization and histology of: thymus, lymph node, spleen, tonsil, lymphatic vessels.Observation of the histological samples at the light microscope.

Prerequisites

College-level scientific knowledge

Teaching form

Frontal and practical lessons are expected:

- Frontal lessons (2 hours each, 12 hours total) held in attendance.
- Practical sessions (2/3 hours each, 10 hours total) carried out in interactive blended mode with the aid of the light microscope and/or virtual light microscope, held in attendance.
  Both lessons and practical activieties will be in italian.

Textbook and teaching resource

Wheather, Istologia e anatomia microscopica, Ed. Masson
Junqueira, Istologia, Ed Piccin
Ross, Paulina, Atlante di Anatomia microscopica, Casa editrice ambrosiana
Ovalle, Anatomia microscopica del netter, CIC Edizioni Internazionali

Website on organ histology: Histology guide: http://www.histologyguide.org/index.html

Semester

The course is annual. This part will be held in the first semester

Assessment method

The knowledge of microscopic anatomy will be assessed both during the intermediate test (written, multiple choice) and through an oral exam which will focus on the recognition of an histological specimen.
For the details, see the syllabus of "Anatomia, Istologia ed Embriologia Generali e dell'Apparato Stomatognatico".

Office hours

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Sustainable Development Goals

GOOD HEALTH AND WELL-BEING | QUALITY EDUCATION | GENDER EQUALITY | REDUCED INEQUALITIES