



UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

SYLLABUS DEL CORSO

Istologia

1920-1-I0102D001-I0102D005M

Aims

The student must achieve the knowledge of the histological bases essential for the study and understanding of the human physiology and pathology

Contents

The module aims to describe the organization of the human body; to explain how are cells and tissues organized to form organs and systems; to underline the functional correlations of micro- and macroscopic anatomy.

Detailed program

General features of eukaryotic cell: shape, size and lifespan. Main characteristics of the structure, ultrastructure and function of the major cell constituents (plasma membrane, cytoplasm, cytoskeleton, rough and smooth endoplasmic reticulum, Golgi apparatus, lysosomes, mitochondria, nucleus). Basic concepts on the origin of human tissues. Structure, classification, localization and functions of: Epithelial Tissue: lining epithelium, glandular epithelium; Connective tissue: proper connective tissue, adipose tissue, cartilage, bone tissue (osteogenesis), blood and haemopoiesis; Muscle tissue: skeletal muscle, smooth muscle, cardiac muscle; Nervous tissue: neurons (cell body, dendrites, axons), structure of nerve fibers, synapses and nerve transmission, glial cells

Prerequisites

Teaching form

Lectures

Textbook and teaching resource

Sica G. et al. Istologia (2014) Idelson Gnocchi

Semester

First year, I semester

Assessment method

Written examination- multiple questions - Oral on evaluation of teacher

Office hours

by appointment
