Name and Surname: Marco BARCHI

Qualification Researcher/Aggregate Professor of Human Anatomy

Scientific Sector: BIO/16 (Human Anatomy)

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Biography: Martini Timmons: Human Anatomy, Anthony L. Mescer: Junqueira's Basic Histology, Tortora: Human Anatomy

Description of teaching module (teaching program):

Organization levels of human body. HISTOLOGY: Histology and method of study. Preparation of tissues, light microscopy, electron microscopy, scanning microscopy, fluorescent microscopy, confocal microscopy, bright field microscopy. Detection methods using electrostatic staining specific interaction (immunofluorescence, immunohystochemistry). EPITHELIA TISSUE: basal membrane and basal lamina (kidney glomerule), intracellular adhesion and GAP junctions, microvilli, cilia, classification of covering lining epithelia and their characteristics, skin, glandular epithelia (exocrine glands and endocrine glands). CONNECTIVE TISSUE cells fibers and ground substance of the connective tissue. Connective tissues: embryonic (Mesenchyme and mucous) Adult (areolar, dense irregular, dense regular, specialized reticular and adipose). Adipose tissue white and brown. Cartilage (Hyaline, Elastic, Fibrocartilage). Bone: osteoblast osteocytes, osteoclasts, bone matrix, periostium and endostium. Type of bone (primary, compact lamellar and spongy bone). Ossification (intramembranous and endochondral) bone growth and remodelling, metabolic role of the bone, joints growth and structure. NERVE TISSUE neurons (property and structure), membrane potential, synaptic communication, glial cells. BLOOD functions, composition physical characteristics, plasma and serum, notes on hematopoiesis, red blood cellsblood group systems, granulocytes, lymphocytes, monocytes (structure and general function in the immune response), platlets. Lymph and lymph nodes. MUSCLE TISSUE skeletal muscle, cardiac muscle, smooth muscle. SKELETON general organization of the axial and appendicular skeleton, joints structure and classification, movements. SKELETON MUSCLES generality, major muscles of the shoulder girdle, trunk. Respiratory muscles.