Microscopic Anatomy and Embryology II.
Subject matter of the present semester

September 3, 2021

I. Histology of lymphatic organs

II. Neurohistology
   a) Histology of neurons and supporting elements
   b) Fine structure of peripheral nerves
   c) Receptors and effectors, interneuronal synapses
   d) Histology of the brain and spinal cord

III. Development of the locomotor system
   a) Membranous and cartilaginous neurocranium and viscerocranium
   b) Development of the limbs and vertebral column
   c) Development of the muscular system

IV. Development of the nervous system and organs of special senses
   a) Development and primary differentiation of the neural tube
   b) Development of the peripheral nervous system (neural crest, placodes)
   c) Development of the organ of vision
   d) Development of the organ of hearing&equilibrium

V. Microscopy of the central nervous system
   a) Microscopic anatomy of brain and spinal cord
   b) Nuclei and tracts of brain and spinal cord
   c) Microscopy of the autonomic nervous system, tracts

VI. Organs of special senses (histology and embryology)
   a) Organ of vision, visual pathways
   b) Organ of hearing and equilibrium, auditory pathways, vestibular system
   c) Organ of smell, olfactory pathways
   d) Organ of taste, gustatory pathways
   e) Skin and appendages

VII. Endocrine organs (histology and embryology)
   a) Hypothalamo-hypophysial system
   b) Endocrine glands and cells

Midterm test I.
Written midterm (Moodle)
Topic: Histology of the lymphatic system, histology of the nervous system
Date: 5th week

Midterm test II.
Written (Moodle)
Topic: Microscopy and development of the central nervous system.
Date: 9th week

Final examination
Topics: Subject matter of the two semesters
1. Written pretest
2. Oral examination - identification of structures on 2 digitized tissue slides, as well as
   1 theoretical question from the subject matter of the two semesters (see the Topic list).
ED II ANNOUNCEMENTS

**Evaluation** is made using a five-grade scale (1-5).

**Signing of the lecture book:** active participation in histology lab sessions is obligatory. Students should attend at least 75% of the scheduled hours, including the obligatory midterm examinations, to gain a signature proving the validity of the semester. Successful passing of the 2nd midterm is required. Absences are limited in 25%.

**Midterm examinations:** During the semester, both practical and theoretical knowledge will regularly be evaluated. There are two written (Moodle) midterm tests during the semester. The second (Microscopy of the nervous system) midterm should be successfully passed with at least a mark 2,00 or the semester is not accepted.

Students absent or having an unsuccessful result from the test should reattend at a given timepoint or their semester will not be accepted.

**The final examination is composed of the following parts:**

- **Topics:** Subject matter of the two semesters
  
  Written pretest
  
  Oral examination (identification of structures on 2 digitized tissue slides, as well as 1 theoretical question from the subject matter of the two semesters (see the Topic list).

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Dr. Andrea D. Székely
Associate Professor
Course Director