Microscopic Anatomy and Embryology II.

Subject matter of the present semester

I. Histology of the blood, lymphatic organs and the nervous system

- a) Corpuscular elements of blood
- b) Histology of lymphoid tissue (lymph nodes, thymus, tonsils, spleen)
- c) Fine structure of peripheral nerves, neurons and supporting elements
- d) Receptors and effectors, interneuronal synapses
- e) Histology of the brain and spinal cord

II. Microscopy of the central nervous system (i.e.,) NEUROANATOMY *

- 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

III. 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

IV. Endocrine organs (histology and embryology)

- a) Hypothalamo-hypophysial system
- b) Endocrine glands and cells

V. 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

The * Neuroanatomy topics will be discussed during the consultations I-III. in weeks 4, 6 and 7.

week 6 - lectures 4,5,6; week 7 – lectures 7,8,9,10; week 7 – lectures 11,12

Consultations start with **a brief moodle test** composed of 10 questions of the topic of the daily class (referring to the relevant lectures) to test the preparatory work of students.

Passing rate is 50%. Each test scores 10 points, therefore altogether 30 points can be collected from the tests. <u>Students achieving less than 15 points from all three tests will receive a *relevant additional oral question</u> (see the Tasis list) is a labeled by the first parameters in the second seco

(see the Topic list) included in their final examination.

Announcements

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

Acceptance of the semester (signature)

- Active participation in histology lab sessions is obligatory. Students should attend at least 75% of the scheduled hours, including the obligatory midterm examinations. Absences are therefore limited in 25%.
- 2. Successful midterm tests (passing with at least a 2).

MIDTERM TESTS

| Midterm test I. | Written (Moodle) Date: 8 th week |
|------------------|--|
| Midterm test II. | Topics: Histology of blood, lymphatic system, microscopy of the CNS (<i>except for the basal ganglia)</i> Written (Moodle) |
| | Date: 13 th week Topics: Endocrine organs I.; Organs of special senses |

Midterm tests are **obligatory** tests, they can only be done on the day specified previously, and unless they are unsuccessful, they **cannot be retaken or upgraded**. **Unsuccessful midterms** (i.e., fail -1) will have to be retaken at the given timepoints (weeks 9 and 14).

Disuccessjul materins (i.e., juli – 1) will have to be retaken ut the given timepoints (weeks 9 and 14).

EXAM COMPETITION – every student, who collected at least **15 points** from the short tests AND whose **midterm marks are 4 or 5**, are invited to participate in a written competition on week 14.

Topic list- Subject matter of the two semesters

Students achieving **the level of a 4 or 5** at the competition may request **to be exempted from the written** part of the final examination.

FINAL EXAMINATION

Topics: Subject matter of the two semesters

- 1. Written pretest (moodle, *unless exempted*)
- 2. Oral examination (see the Topic list)
 - a) Identification of structures on 1 digitized tissue slide
 - b) 1 topic from the Microscopy of the CNS (i.e., Neuroanatomy)
 - c) A further question from the topics of CNS tests whose cumulative score is less than 15 points collected from the test during weeks 6-7-8 (*see above)

The final mark is calculated form all 3 partial marks earned from each part.

Please note: Students may register for, or deregister from, the examinations via the neptun system. In case neither the first nor the repeated takes of a semifinal exam have been successful the exam has to be postponed to the following exam period as a 'CV' exam (if there are possibilities left).

> Dr. Gábor Gerber Associate Professor Dean and Subject Director

Dr. Andrea D. Székely Associate Professor Course Director

FIRE SAFETY PROTOCOL

Please make sure to adhere to the rules of fire safety regulation with full compliance, paying special attention to the following:

- 1. The use of naked light or smoking is **<u>STRICTLY PROHIBITED</u>** on the premises of the Department, including the building and the yard.
- 2. In case of fire, a loud fire alarm signal is to ring throughout the building. In case of a fire drill, the building must be left organized, with the guidance of the teacher/instructor of the group, using the exits as quick as possible. Escape routes are posted on every floor.
- 3. The use <u>of elevators is STRICTLY PROHIBITED</u> during a fire drill.
- 4. Every lecture room has 3 accessible entrances/exits. Students usually enter and leave through the lower single entrance under normal circumstances. When necessary, i.e. in case of fire, the upper 2 doors could also be opened using the keys kept in the fire cassettes next to the doors.
- 5. All fire cases or signs/ suspicion of a possible fire should be reported to the teacher of the group.
- 6. No electrical devices should be plugged in a connector different from the designated ones. Only electrical devices in an intact and perfect condition should be used.