



## Course Regime

Course: Histology and Embryology

Study Programme: Medicine

Year of the Course: 1 2 3 4 5 6

Semester:

Winter

Summer

Course type:

Compulsory

Elective

Number of ECTS credits: 10 ECTS

Lecturer(s): Professor Danijel Petrovič, MD, PhD

Participating Organisational Units (Departments and Institutes): Institute for Histology and Embryology

Parts (Modules) of the Course

1:

2:

3:

4:

Date of Issue: September 15, 2018

## A. General part

### 1. Course objectives

Course of Histology and Embryology runs in two semesters, in the third and in the fourth. During the third semester, the focus is on general and special histology. Histology will be considered from a functional point of view, with a particular emphasis on normal histology.

During fourth semester the focus is on different areas of human development: on developmental disorders with genetic conditions that lead to the most common syndromes and influence of different factors (genetic causes, environmental factors (teratogenic factors) on the development of the embryo (clinical oriented embryology). Individual important topics of functional histology for specific organ or organ system will be intensified on seminars. During the course students will get familiar with different techniques of tissue preparation and will get an insight into immunohistochemical methods. They will be able to use a light microscope to focus on a tissue under different magnifications.

During the course the lectures and practical tutorials will be held in Slovenian language, while medical terminology will include the use of Latin terms.

### 2. Comprehensive outline of the course organisation

The course consists of lectures, seminars and practical tutorials with microscopic examination of tissue slides.

Participation of students in all exercises is mandatory. In case of failure, a written apology should be provided. Before the beginning of practical tutorials, each student should inspect both maps with tissue slides which are placed on desks. Any failure (if the tissue slide is missing or the microscope does not work properly) should be immediately reported to Assistant Technicians.

The student could be charged for tissue slide or microscope damage according to the valid price list.

The student must be prepared for practical tutorials in advance. Student who persist in inappropriate behavior may be required to leave the class.

Microscopy practicing will be organized according to the timetable.

### 3. Description of on-going assessment of knowledge and skills

Students of medicine will prepare **seminar work** in the summer semester of the academic year 2018/2019. The publication of topics and detailed instructions for the elaboration and presentation of the seminar work will be notified during the course lectures in February 2019. The maximum number of the students who are to be enrolled in the same seminar group is limited to 8 students. A point of positively assessed seminar work will be added to the points of the exam test just once (at the first examination) and not at subsequent examinations if the student fails the first course exam.

At the beginning of the fourth semester, a **written colloquium** will be held. The written colloquium consists of 40 questions: up to 30 multiple-choice questions on the lectures of histology and up to 10 images of different tissue slides.

The colloquium is passed if the student achieves at least 24 points (60 %). If students achieve from 24 to 30 points, will receive 1 point, whether students with 31 to 40 points will get 2 points, which will be added to the points of the main course exam at the first perform of the exam only.

#### 4. Required conditions for the final examination (Course Exam)

Students should fulfil the criteria for the regular admission to the main course exam: the presence at all of the practical tutorials, the seminar elaboration and its oral presentation to colleagues and written colloquium from general histology must be passed.

Anyone who fail to pass a written colloquium from general histology (reaches less than 24 points) must pass a pre-exam oral colloquium before the main course exam. Anyone who does not pass a written colloquium from general histology, nor does he/she passes a pre-exam oral examination, cannot apply for the main course exam.

#### 5. Final assessment and examination of knowledge and skills (Course Exam)

Assessing students will involve a written, an oral examination and practical examination on acquired microscopic skills and recognizing tissue structures and target organs under different magnifications.

Exam tests include theoretical (30 multiple-choice questions) and the practical part (recognizing histological structures of organs and tissues on 30 microscopes). There is no negative scoring in the exam tests.

The final grade is obtained if the student achieves  $\geq 18.0$  points at both the practical and the theoretical part of the exam test.

The student receives the final grade of the exam according to the points achieved in the theoretical and practical part of the exam according to the sorcerer:

points	score
55.00 - 60.00	excellent (10)
50.00 - 54.99	very good (9)
45.00 - 49.99	very good (8)
40.00 - 44.99	good (7)
36.00 - 39.99	sufficient (6)
0.00 - 35.99	inadequate (5)

If the student does not agree with the obtained final grade, he/she might apply a request for improving the grade at the Secretariat of the Institute personally or by phone number +386 (0)1 543 7360 or by e-mail address: [ihe@mf.uni-lj.si](mailto:ihe@mf.uni-lj.si). All information about the courses, practical tutorials and exams are available on the official Institute's website and at the Secretariat. Contact teachers via e-mail or during official hours if there is any information about the study that you would like to know.

Students are required to take a final oral examination if:

1. they reached 31 or <36 points,
2. they achieved otherwise on the exam test  $\geq 36$  total points of the main exam (60% in theoretical and practical part together), but <18 points (60%) either in theoretical or practical work alone,
3. in the third examination he/she did not reach enough points (see 2.), he/she also must take an oral examination.
4. the examination commission assesses the exam for the fourth and fifth exams and the re-examination of the student's complaint.

## **6. Other provisions**

### **7. Fundamental study material and Supplement reading**

1. D. Petrovic, M. Zorc: Histology; Textbook, Ljubljana 2012.
2. M.Zorc, R.Zorc-Pleskovič, A.Milutinović-Zivin: Histology and Embryology; Instructions for exercises; Ljubljana 2010 Ljubljana 2014
3. D. Petrovic, M. Zorc, R. Zorc-Pleskovic, A-Milutinovich-Zivin: Embryology; Ljubljana 2012.
4. Antony L.Mescher: Junqueira's Basic Histology; The McGraw-Hill Companies, 2013; 13th edition.
5. Lectures.

## **8. Exam topics, clinical presentations and skills**

### **2018-19\HISTOLOGIJA izpitne teme 2018-19.docx**

## **9. Other information**

The office hours of the Institute's secretariat are every working day from 9 am to 10 am.

\*Pravilnik o preverjanju in ocenjevanju znanja in veščin za enovita magistrska študijska programa Medicina in Dentalna medicina

