

Academic Year/course: 2022/23

26764 - Histology II (Special Histology)

Syllabus Information

Academic Year: 2022/23

Subject: 26764 - Histology II (Special Histology)

Faculty / School: 104 - Facultad de Medicina

229 - Facultad de Ciencias de la Salud y del Deporte

Degree: 304 - Degree in Medicine

305 - Degree in Medicine

ECTS: 6.0

Year: 2

Semester: First semester

Subject Type: Compulsory

Module:

1. General information

2. Learning goals

3. Assessment (1st and 2nd call)

4. Methodology, learning tasks, syllabus and resources

4.1. Methodological overview

The methodology followed in this course is based on lectures, practice sessions, seminars, and assignments.

Information regarding the course will be provided on the first day of the class including the course syllabus, a detailed calendar of lectures, practice sessions, seminars and exams, teaching material and online support material. All this information will be available via Moodle.

The students will have an interactive DVD with the same histological preparations to which they have access in the practice sessions (Contamina P., Parra P. y García Rojo M., Atlas of Histology, Virtual Histological Preparations, Ed. University Press of Zaragoza, 1st ed., Interactive DVD, 2013). In addition, students have a website (wzar.unizar.es/acad/histologia) in which they can find an "Atlas of Histology" with the same histological preparations from the practice sessions.

4.2. Learning tasks

The course includes 6 ECTS organized according to:

- Lectures: the professor will present theoretical contents already available at the Moodle website. Sessions will last 50 minutes.
- Practice sessions: in the microscope room students will observe with the optical microscope histological samples.
- Seminars and assignments: in groups, students will elaborate an essay related to topics of the subject. Seminars will consist of discussing optical and electronic microphotography.

4.3. Syllabus

The course will address the following topics:

- **SENSE ORGANS**

Topic 1. Eye.

Topic 2. Internal ear.

- **CARDIOVASCULAR SYSTEM**

Topic 3. Heart

Topic 4. Blood vessels. Lymphatic vessels.

- **LYMPHATIC SYSTEM**

Topic 5. Overview of the Lymphatic System.

Topic 6. Thymus.

Topic 7. Lymph node. Mucosa-associated lymphatic tissue.

Topic 8. Spleen.

- **RESPIRATORY SYSTEM**

Topic 9. Respiratory tract.

Topic 10. Lung.

- **DIGESTIVE SYSTEM**

Topic 11. Oral cavity. Oropharynx.

Topic 12. Esophagus. Stomach.

Topic 13. Intestine.

Topic 14. Salivary glands. Pancreas.

Topic 15. Liver. Gallbladder.

- **URINARY SYSTEM**

Topic 16. Kidney.

Topic 17. Urinary tract.

- **MALE REPRODUCTIVE SYSTEM**

Topic 18. Testis.

Topic 19. Genital ducts. Accessory sex glands. Penis.

- **FEMALE REPRODUCTIVE SYSTEM**

Topic 20. Ovary.

Topic 21. Uterine tubes. Uterus. Vagina.

Topic 22. Mammary glands.

- **ENDOCRINE ORGANS**

Topic 23. Hypophysis.

Topic 24. Pineal gland.

Topic 25. Thyroid gland. Parathyroid glands

Topic 26. Adrenal glands.

- **LABORATORY SESSIONS**

Topic 1. Sense organs

Topic 2. Cardiovascular system

Topic 3. Lymphatic system

Topic 4. Respiratory system

Topic 5. Digestive system I

Topic 6. Digestive system II

Topic 7. Urinary system

Topic 8. Male reproductive system

Topic 9. Female reproductive system

Topic 10. Endocrine organs

4.4. Course planning and calendar

The designed program includes the following activities:

- theoretical lessons: 3 h a week
- practice sessions: 1 h a week
- seminars: 1 h a week

4.5. Bibliography and recommended resources

<http://psfunizar10.unizar.es/br13/egAsignaturas.php?codigo=26764>