

## 26764 - Histology II (Special Histology)

### Información del Plan Docente

<b>Academic Year</b>	2018/19
<b>Subject</b>	26764 - Histology II (Special Histology)
<b>Faculty / School</b>	104 - Facultad de Medicina 229 - Facultad de Ciencias de la Salud y del Deporte
<b>Degree</b>	304 - Degree in Medicine 305 - Degree in Medicine
<b>ECTS</b>	6.0
<b>Year</b>	2
<b>Semester</b>	First semester
<b>Subject Type</b>	Compulsory
<b>Module</b>	---

### **1.General information**

#### **1.1.Aims of the course**

#### **1.2.Context and importance of this course in the degree**

#### **1.3.Recommendations to take this course**

### **2.Learning goals**

#### **2.1.Competences**

#### **2.2.Learning goals**

#### **2.3.Importance of learning goals**

### **3.Assessment (1st and 2nd call)**

#### **3.1.Assessment tasks (description of tasks, marking system and assessment criteria)**

### **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 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

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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](http://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 prepare a seminar and elaborate an essay related to topics of the subject. Seminars will consist of discussing optical and electronic microphotography.

### 4.3.Syllabus

#### 1. THEORETICALPROGRAM

#### CARDIOVASCULAR SYSTEM

Item 1.&#8208; Heart

Item 2.&#8208; Blood vessels. Lymphatic vessels.

#### LYMPHATIC SYSTEM

Item 3.&#8208; Overview of the Lymphatic System.

Item 4.&#8208; Thymus.

Item 5.&#8208; Lymph node. Mucosa-associated lymphatic tissue.

Item 6.&#8208; Spleen.

#### RESPIRATORY SYSTEM

Item 7.&#8208; Respiratory tract.

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Item 8.&#8208; Lung.

### DIGESTIVE SYSTEM

Item 9.&#8208; Oral cavity. Oropharynx.

Item 10.&#8208; Esophagus. Stomach.

Item 11.&#8208; Intestine.

Item 12.&#8208; Salivary glands. Pancreas.

Item 13.&#8208; Liver. Gallbladder.

### URINARY SYSTEM

Item 14.&#8208; Kidney.

Item 15.&#8208; Urinary tract.

### MALE REPRODUCTIVE SYSTEM

Item 16.&#8208; Testis.

Item 17.&#8208; Genital ducts. Accessory sex glands. Penis.

### FEMALE REPRODUCTIVE SYSTEM

Item 18.&#8208; Ovary.

Item 19.&#8208; Uterine tubes. Uterus. Vagina.

Item 20.&#8208; Mammary glands.

### SENSE ORGANS

Item 21.&#8208; Eye.

Item 22.&#8208; Internal ear.

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Item 23. Olfactory mucosa. Taste buds.

### CENTRAL NERVOUS SYSTEM

Item 24. Spinal cord.

Item 25. Cerebellum.

Item 26. Cerebral cortex.

### ENDOCRINE ORGANS

Item 27. Hypophysis.

Item 28. Pineal gland.

Item 29. Thyroid gland. Parathyroid glands

Item 30. Adrenal glands.

## 2. LABORATORY SESSIONS

Item 1. Cardiovascular system

Item 2. Lymphatic system

Item 3. Respiratory system

Item 4. Digestive system I

Item 5. Digestive system II

Item 6. Urinary system

Item 7. Male reproductive system

Item 8. Female reproductive system

Item 9. Sense organs

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Item 10.&#8208; Central nervous system

Item 11.&#8208; Endocrine organs

### 4.4.Course planning and calendar

Details concerning the timetable, classroom and further information regarding this will be provided on the first day of class and will be available via Moodle.

1st Call January 28, 2019

2nd Call September 4, 2019

[Huesca](#)

<https://fccsyd.unizar.es/horarios-y-calendarios-medicina>

### 4.5.Bibliography and recommended resources

<http://psfunizar7.unizar.es/br13/eBuscar.php?tipo=a>