

32307 - Histology I

Syllabus Information

Academic year: 2024/25

Subject: 32307 - Histology I

Faculty / School: 104 - Facultad de Medicina

229 - Facultad de Ciencias de la Salud y del Deporte

Degree: 649 - Degree in Medicine

650 - Degree in Medicine

ECTS: 3.0

Year: 1

Semester: Second semester

Subject type: Compulsory

Module:

1. General information

The subject of Histology I (General Histology) aims to:

Introduce students to the basic knowledge of current techniques for the microscopic study of cell types, tissues and organs. Familiarize students with the concept of tissue as an integrated system of cells and extracellular material and their functional correlation

Identify the various elements that make up tissues and that allow us to distinguish some tissues from others

These approaches and objectives are aligned with the following Sustainable Development Goals (SDGs) of the United Nations 2030 Agenda: Goal 3: Health and well-being and Goal 4: Quality education

The subject takes advantage of the knowledge acquired in subjects previously studied in the degree (Biology and Biochemistry) to learn how cells and molecules of the extracellular matrix are organized in tissues.

2. Learning results

The student, to pass this subject, must demonstrate the following results...

Know the fundamentals of the basic techniques for studying histological samples and the proper handling of the optical microscope

Recognize the different components of the various tissues

Establish the relationship that exists between the microscopic organization of tissues and the function they fulfil

The knowledge obtained in the subject Histology I (General Histology) is fundamental for the study of the subject Histology II (Special Histology) and the subject Anatomico-pathological diagnostic and therapeutic procedures.

3. Syllabus

The program consists of the following topics:

1. INTRODUCTION HISTOLOGY
2. LINING EPITHELIA
- 3.- EXOCRINE GLANDS
- 4.- ENDOCRINE GLANDS
- 5.- INTRODUCTION TO CONNECTIVE TISSUE AND VARIETIES OF THE CONJUNCTIVE TISSUE
- 6.- ADIPOSE TISSUE
- 7.- CARTILAGINOUS TISSUE
- 8.- BONE TISSUE
- 9.- SMOOTH MUSCLE
- 10.- SKELETAL AND CARDIAC STRIATE MUSCLE
- 11.- NEURON AND NEUROGLIA
- 12.- NERVE FIBER/PERIPHERAL NERVE

4. Academic activities

Calendar of face-to-face and practical sessions:

The detailed calendar, including the days and hours of teaching of the master classes and practical classes, as well as the dates and times of the exams, can be consulted in the ADD.

The subject is organized into 18 master classes and 12 hours of practical classes

5. Assessment system

1.1. Theoric exam

The written exam will consist of 30 multiple-choice questions to evaluate the theoretical aspects. Each question will have four answers and only one of them will be valid.

Incorrect questions will deduct 1/3 of the grade. This part will be worth 30 points. At least 15 points are needed to pass the exam.

1.2. Practical test:

In this part, students will point out the histological details of several photomicrographs to evaluate the practical knowledge acquired. It consists of 5 microphotographs with a short description and one with a long description.

In this part, you can obtain 70 points. At least 35 points are needed to pass the exam.

To pass the subject you will have to obtain 50 points between the two exams. This score of 50 points will correspond to the pass (5).

6. Sustainable Development Goals

3 - Good Health & Well-Being

4 - Quality Education