Información del Plan Docente

Academic Year 2018/19
Subject 66023 - Advanced immunology
Faculty / School 100 - Facultad de Ciencias
Degree 537 - Master's in Molecular and Cellular Biology
ECTS 6.0
Year 1
Semester Indeterminate
Subject Type Optional
Module ---

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 learning process that is designed for this course is based on the following: This course is scheduled to start with theoretical contents to finish with an eminently practical and applied orientation. It is intended for students to be able to apply the theoretical and practical knowledge they have acquired in the course.

4.2. Learning tasks

The course includes the following learning tasks:

1. Lectures. 30 hours. Basic theoretical knowledge of the course is presented to the students, using PowerPoint
presentations and web resources.

2. Problems and cases clases. 10 hours.

3. Visit, exhibition and learning of the techniques used in an Immunology Servie at a Hospital. 8 hours

4. Preparation and public exposition of a seminar. 12 hours. In this activity, students collect information on a particular topic, helped by the teacher. The analysis of information should lead to the development of a seminar, which will be presented and discussed in the classroom.

4.3.syllabus
The course will address the following topics:

1. Lectures

SECTION I. UPDATE

Topic 1. Update on integration and regulation of the immune response.

SECTION II. MOLECULAR AND CELLULAR MECHANISMS OF DISEASE PREVENTION BY THE IMMUNE SYSTEM

Topic 2. Immunity against bacteria.

Topic 3. Immunity against viruses.

Topic 4. Vaccines.

Topic 5. Immunity against parasites.


SECTION III. DISEASES RELATED WITH THE IMMUNE SYSTEM
Topic 8. Organ transplantation and immune rejection.


Topic 10. Primary Immunodeficiencies.

Topic 11. AIDS.


2. Practice sessions

- Routine immunological exploration

- HLA typing for transplants

- AIDS diagnostic

- Primay immunodeficiencies diagnostic

4.4. Course planning and calendar

Further information concerning the timetable, classroom, assessment dates and other details regarding this course, will be provided on the first day of class or please refer to the Faculty of Science website.

Practice sessions’ calendar, as well as seminars lead by students shall be notified in class and posted in the virtual platform ADD.

4.5. Bibliography and recommended resources
