

## 66150 - Oncolmunology

### Syllabus Information

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**Academic year:** 2023/24

**Subject:** 66150 - Oncolmunology

**Faculty / School:** 104 - Facultad de Medicina

**Degree:** 637 - Masters degree in Tumor Immunology and Cancer Immunotherapy

**ECTS:** 6.0

**Year:** 1

**Semester:** First semester

**Subject type:** Compulsory

**Module:**

### 1. General information

The subject is divided into 2 blocks:

-**Immunology** offers an advanced view of the immune system, its components as well as the molecular and cellular mechanisms involved in the immune response. Objectives: to understand the terminology, to know the components and mechanisms of the immune response and to understand how it works

-**Oncology**: this block will describe what we know about cancer generation; the importance of histopathological, molecular and extension diagnosis; the multidisciplinary approach and the study of treatments, highlighting efficacy and safety.

These approaches and objectives are aligned with the Sustainable Development Goals of the United Nations 2030 Agenda (<https://www.un.org/sustainabledevelopment/es/>), so that the acquisition of learning contributes to some extent to the achievement of Goal 3: Health and Well-being; Goal 4: Quality Education; and Goal 17: Partnerships to Achieve the Goals.

### 2. Learning results

Upon completion of this subject, the student will be able to:

- Understand how the different components of the immune system perform their function, both in physiological and pathological conditions.
- Recognize and understand the importance of cancer as a disease and its diagnostic basis.
- Understand the biological and molecular reasons for cancer generation, as well as its current therapeutic alternatives.
- Be able to search, analyse and comment on specific information related to immuno-oncology.
- Make presentations on topics related to Immuno-oncology.

### 3. Syllabus

The detailed program of both blocks can be found on the web page of the Faculty of Medicine.

- The block Immunology includes the following sections:
  - Introduction
  - Cellular components and soluble factors of the immune system
  - Immune system activation
  - Effector mechanisms of the immune system
  - Immune response
- The block Oncology includes:
  - Biological and molecular basis of tumour development.
  - Epidemiology and aetiology of cancer
  - Cancer diagnosis
  - Cancer treatment
  - Systemic cancer treatment

#### 4. Academic activities

The teaching of the subject is structured in theoretical classes (lectures) of 50 minutes, laboratory practices as well as problem solving and case studies.

Each block equals to 3 credits (75h), 45% (33.75h) are face-to-face activities and 55% (41.25h) are non-face-to-face activities, which is the student's work dedicated to the study and preparation of practical cases.

The distribution of the activities by block would be as follows:

- Immunology:
  - Theoretical classes: 27 h
  - Problem solving and case studies: 3 h
  - Assessment: 3.75 h
- Oncology:
  - Theoretical classes: 23 h
  - Problem solving and case studies: 5 h
  - Laboratory practices (AP): 2 h
  - Assessment: 3.75 h

#### 5. Assessment system

The grade for this subject will be global, although the assessment will be conducted independently for each of its parts. In order to pass the subject, the grade for each of the parts must be 5 points or higher. No compensation is considered. The final grade for the subject is the weighted average of the grade obtained in each of the two blocks: Immunology and Oncology.

The activities to be assessed in the two blocks will be:

A. Active participation in the lectures:

Attendance to master classes is MANDATORY, requiring a minimum attendance of 80%.

It will have a weighting of 25% of the total final grade.

B. Problem solving and case studies:

The student will prepare a structured REPORT on the problems and cases developed during the problem and case sessions, which will include the answers to a questionnaire related to the activities conducted in those sessions.

It will have a weighting of 75% of the total final grade.