

CU NAME BASICS OF PARASITARY IMMUNOLOGY

CU characterization: CU name: Basics of Parasitary Immunology

Scientific area acronym:

Duration: Semiannual

Working hours: 81 h

Contact hours: 27 h

ECTS: 3

Observations: T: 8.5 TP: 7 h S: 4 h OT: 5.5 h A: 2 h

Teacher in charge and respective teaching load in the CU: Professor - Gabriela Santos-Gomes – 0.42

Other teachers and respective teaching load in the CU:

Ana Armada	0.17
Henrique Silveira	0.22
Claudia Moreno	0.2
Armanda Rodrigues	0.38

Intended learning outcomes (knowledge, skills and competences to be developed by the students):

At the end of this curricular unit, students should:





1. Recognize the composition of the mammalian immune system

2. Understand the interactions between parasites and the different elements that make up the host immune system

3. Understand the parasites' strategies for invading, evading and subverting the activity of the immune system

In addition, students are expected to develop the following general competences:

4. Acquire working methods in the laboratory

5. Carry out experimental designs and select the analytical methodologies (in vivo, in vitro or in silico) best suited to the proposed problems.

6. Transmit and discuss scientific information or facts in a clear and judicious manner And the following specific competences:

7. Understand the principles of immunological laboratory methodologies applied to the study of parasites

8. Identify the areas of application of the different methodologies

Syllabus:

Evidence of the syllabus coherence with the CU intended learning outcomes:

The contents of this curricular unit aim to provide students with an understanding of the relationship between the response of the parasitized host's immune system and the survival strategies developed by parasites in a process of parasite-host coevolution, as a fundamental element in understanding the evolution of infection and disease caused by parasites. In addition, students can develop practical laboratory skills in the field of parasite immunology. Data analysis and the transmission of scientific facts are also encouraged, enabling students to recognize the importance of scientific communication.

Teaching methodologies (including assessment):

- Lectures in theoretical classes
- Problem-solving in practical classes
- Seminars organized by students
- Tutorial support available

Assessment method:

The assessment of learning will be continuous and formative, taking into account:

- 1. participation and intervention in theoretical and practical classes;
- 2. performance in seminars;
- 3. final summative assessment.

Evidence of the teaching methodologies coherence with the CU intended learning outcomes:

In addition to lectures, which aim to provide students with basic concepts and promote the systematization of acquired knowledge, laboratory methodologies are also prioritized in practical classes. These methodologies, which involve master's students in





the teaching-learning process, are centered on methodologies, results, and application, as well as access to laboratory instruments, which enables formative assessment, as well as activities aimed at developing constructive criticism and training in oral scientific communication. The final summative assessment estimates the level of knowledge attained and makes it possible to understand the extent to which the learning objectives have been covered.,

References for consultation / mandatory existence:

• Experimental and review scientific articles available (open access) in biomedical literature databases