

Course unit name: INTRODUCTION TO THE MOLECULAR MEDICINE OF CANCER

1.- General information

Code	303002	Plan		ECTS	3
Type	Mandatory	Course	2023/2024	Periodicity	1 st Semester
Department	Cancer Research Center				
Virtual Platform	Platform:	CICLOUD			
	URL de Acces:	http://cicloud.dep.usal.es/index.php/s/Gp0vghR305Y6glo/authenticate			

Faculty

Professor Coordinator	Dr. Rogelio González Sarmiento				
Research area	Medicine				
Center	Institute of Molecular and Cellular Biology of Cancer				
Office	Laboratory 14				
URL Web	https://www.cicancer.org/grupo?id=29				
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2.- The course in the context of the Master's Program

Training Module	Second block of the academic year of the six in which it is divided.
General aim of the subject	Describe and correlate the clinical and molecular findings that allow defining the different general types of cancers and their current application in the diagnosis, prognosis and treatment of patients
Professional specialization	

3.- Previous recommendations

Not applicable

4.- Aims of the subject

The objective of the subject is to describe and correlate the clinical and molecular findings that allow defining the different general types of cancers and their current application in the diagnosis, prognosis and treatment of patients. In addition, the different hereditary cancer syndromes and the genetic alterations that characterize them together with the criteria and conditions of the genetic counseling in hereditary cancer will be studied.

- Understand the clinical aspects and molecular causes that explain the different diagnostic and therapeutic approach to the different types of cancers.
- To know the different types of cancer grouped by location, their characteristics molecular and the basic criteria of diagnosis, prognosis and treatment.

5.- Contents

Theory

1. Cancer Epidemiology.
2. Primary and secondary prevention.
3. Diagnostic procedures.
4. Cancer treatment.
5. Brain tumors
6. Head and Neck tumors
7. Esophagus and gastric tumors
8. Colon tumors
9. Liver and bile duct tumors
10. Lung tumors
11. Breast tumors
12. Ovarian tumors
13. Endometrial tumors
14. Prostate tumors
15. Bladder tumors
16. Skin tumors
17. Hereditary cancer
18. Clinical trials

Seminars:

Discussion articles.

6.- Skills to be acquired

Specific skills

- Recognize the specific clinical and molecular characteristics of different types of cancers, diagnostic methods and therapeutic approaches.
- To know what methods are used in the diagnosis and treatment of different types of cancers.
- Know how to interpret a molecular study, a family tree.

7.- Teaching methodology

The student must attend the assessable theoretical sessions of the course having previously read and understood the recommended bibliography; The first session will focus on the approach of the sessions and their organization, discussion of the doubts and comments of the students.

8.- Estimated learning time

		Hours tutored by the teacher		Individual work (hours)	TOTAL HOURS
		Attendance required (hours)	Distance learning (hours)		
Lectures					
Practices	- In classroom	20			20
	- In laboratory	15		10	25
	- In computer classroom				
	- Countryside				
	- Visualization classroom				
Seminars					
Work presentations and debates		20			20
Tutorials		8			8
Online activities					
Work preparation					
Other activities					
Exams - evaluation		2			2
TOTAL		65		10	75

9.- Materials

Books

Other bibliographical, electronic references or any other type of resource

10.- Assessment

Assessments on the performance of the student

Continuous evaluation of participation in theoretical sessions and seminars (50% of the final grade). Completion of the written course evaluation (50% of the final grade)

Recommendations