

		Teaching G	Buide		
Identifying Data			2022/23		
Subject (*)	Project	Project		Code	610441023s
Study programme	Máster Universitario en Bioloxía Molecular, Celular e Xenética (semipresencial)				
		Descripto	ors		
Cycle	Period	Year		Туре	Credits
Official Master's Degre	e 2nd four-month period	First		Obligatory	12
Language	SpanishFrenchGalicianEnglish	SpanishFrenchGalicianEnglish			
Teaching method	Hybrid				
Prerequisites					
Department	BioloxíaCiencias da Computació	n e Tecnoloxías da	a InformaciónFi	sioterapia, Medicina e (Ciencias BiomédicasPsicoloxía
Coordinador	Cerdan Villanueva, Maria Esperanza E-mail esper.cerdan@udc.es			udc.es	
Lecturers	Cerdan Villanueva, Maria Esperanza E-mail esper.cerdan@udc.es		udc.es		
Web	http://ciencias.udc.es/MBMCG/				
General description	Coordination: María Esperanza Cerdán Villanueva				
	It is an individual work carried ou	t by the student un	der the directio	n of one of	
the professors of the Master and in which he will approach research in one of the					
	thematic areas of the Master.				
	The offer of experimental works l	by the teachers is u	updated each c	ourse and the	
list of topics for the TFM realization is published on the WEB in June of the previous course			se		

	Study programme competences
Code	Study programme competences
A1	Skills of working in a sure way in the laboratories knowing operation handbooks and actions to avoid incidents of risk.
A2	Skills of using usual techniques and instruments in the cellular, biological and molecular research: that are able to use techniques and
	instruments as well as understanding potentials of their uses and applications.
A3	Skills of understanding the functioning of cells through the structural organization, biochemistry, gene expression and genetic variability.
A8	Skills of having an integrated view of the previously acquired knowledge about Molecular and Cellular Biology and Genetics, with an
	interdisciplinary approach and experimental work.
A13	Skills to become a professional in health, pharmacy, veterinary, animal production, biotechnology or food sectors.
B1	Analysis skills to understand biological problems in connection with the Molecular and Cellular Biology and Genetics.
B2	Skills of decision making for the problem solving: that are able to apply theoretical knowledges and practical acquired in the formulation of
	biological problems and the looking for solutions.
B3	Skills of management of the information: that are able to gather and to understand relevant information and results, obtaining conclusions
	and to prepare reasoned reports on scientific and biotechnological questions
B4	Organization and work planning skills: that are able to manage the use of the time as well as available resources and to organize the work
	in the laboratory.
B5	Ability to draft, represent, analyze, interpret and present technical documentation and relevant data in the field of the branch of knowledge
	of the master's degree in the native language and at least in another International diffusion language.
B6	Skills of team work: that are able to keep efficient interpersonal relationships in an interdisciplinary and international work context, with
	respect for the cultural diversity.
B7	Personal progress skills : that are able to learn from freelance way, adapting to new situations, developing necessary qualities as the
	creativity, skills of leadership, motivation for the excellence and the quality.
B8	Critical reasoning skills and ethical commitment with the society: sensitivity in front of bioethical problems and to the ones related to the
	natural resource conservation
B9	Skills of preparation, show and defense of a work.
B10	Possess and understand knowledge that provides a basis or opportunity to be original in the development and / or application of ideas,
	often in a research context
B11	That students know how to apply the knowledge acquired and their ability to solve problems in new or little-known environments within
	broader (or multidisciplinary) contexts related to their area of ??study



B12	That students are able to integrate knowledge and face the complexity of formulating judgments based on information, which, being
	incomplete or limited, includes reflections on the social and ethical responsibilities linked to the application of their knowledge and
	judgments
B13	That students know how to communicate their conclusions and the knowledge and ultimate reasons that support them to specialized and
	non-specialized audiences in a clear and unambiguous way
B14	That students possess the learning skills that allow them to continue studying in a way that will be largely self-directed or autonomous
C1	Ability to express oneself correctly, both orally and in writing, in the official languages of the autonomous community
C2	Ability to know and use appropriately the technical terminology of the field of knowledge of the master, in the native language and in
	English, as a language of international diffusion in this field
C3	Using ICT in working contexts and lifelong learning.
C4	Acting as a respectful citizen according to democratic cultures and human rights and with a gender perspective.
C5	Understanding the importance of entrepreneurial culture and the useful means for enterprising people.
C6	Acquiring skills for healthy lifestyles, and healthy habits and routines.
C7	Developing the ability to work in interdisciplinary or transdisciplinary teams in order to offer proposals that can contribute to a sustainable
	environmental, economic, political and social development.
C8	Valuing the importance of research, innovation and technological development for the socioeconomic and cultural progress of society.
C9	Ability to manage times and resources: developing plans, prioritizing activities, identifying critical points, establishing goals and
	accomplishing them.

Learning outcomes			
Learning outcomes		Study programme	
	competences		
The student will do an experimental work integrated into a research group or, alternatively, will undertake a personal research	AR1	BR1	CC1
project; in both cases under the direction of a doctor. The personal research work is not just a literature review, but implies	AR2	BR2	CC2
the development of a project. The work will be written and then exposed and defended in public session. The rules of TFM are	AR3	BR3	CC3
in the WEB of the Master	AR8	BR4	CC4
	AR13	BR5	CC5
		BR6	CC6
		BR7	CC7
		BR8	CC8
		BR9	CC9
		BC1	
		BC2	
		BC3	
		BC4	
		BC5	

Sub-topic
Sub-topic
concretos dos traballos do Mestrado de cada curso académico daránse a
o principio do primer cuatrimestre en función dos alumnos matriculados e da
idade de profesores para dirixirlos. Os temas xenéricos e profesores de
se dan a coñecer antes do periodo de pre-inscripción.
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Planning				
Methodologies / tests	Competencies	Ordinary class Student?s personal Total hours work hours Total Total <td< th=""><th>Total hours</th></td<>		Total hours
Introductory activities	C4 C7 C9	2	0	2



A1 A2 A3 A8 A13 B1	112	20	132
B2 B3 B4 B5 B6 B7			
B14 C1 C3 C5 C6 C8			
B8 B10 B11 B12	6	12	18
B9 B13 C2	0	20	20
B9 C1 C2	0	70	70
B1 B2 B3 B7 B8 B12	0	50	50
	8	0	8
	B2 B3 B4 B5 B6 B7 B14 C1 C3 C5 C6 C8 B8 B10 B11 B12 B9 B13 C2 B9 C1 C2	B2 B3 B4 B5 B6 B7 B14 C1 C3 C5 C6 C8 B8 B10 B11 B12 6 B9 B13 C2 0 B9 C1 C2 0 B1 B2 B3 B7 B8 B12	B2 B3 B4 B5 B6 B7 B14 C1 C3 C5 C6 C8 B8 B10 B11 B12 6 B9 B13 C2 B9 C1 C2 B1 B2 B3 B7 B8 B12 B1 B2 B3 B7 B8 B12

(*)The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.

Methodologies		
Methodologies	Description	
Introductory activities	Aimed at selecting the theme / Director	
Research (Research project)	Laboratory work or project	
Directed discussion	Data analysis and discussion with director / tutor ahead of the drafting of conclusions	
Oral presentation	Public exhibition and defence	
Summary	Preparation of the writing summary of the work (Memoria TFM)	
Document analysis	Bibliographic search to define "state of the art" in the written memory	

Personalized attention	
Methodologies	Description
Oral presentation	The Personalized attention hours will be distributed by the director / tutor
Introductory activities	
Research (Research	
project)	
Directed discussion	
Document analysis	
Summary	

		Assessment	
Methodologies	Competencies	Description	Qualification
Oral presentation	B9 B13 C2	The competences achieved in the analysis of the documentary sources, the written report, presentation and public defense of the work are evaluated using a rubric used by members of the evaluating committee and published in the web of the master.	30
Research (Research project)	A1 A2 A3 A8 A13 B1 B2 B3 B4 B5 B6 B7 B14 C1 C3 C5 C6 C8	The director of the TFM evaluates these competencies through the rubric published on the website of the master. The % of the final score may represent 30% or less at the discretion of the evaluating committee.	30
Summary	B9 C1 C2	The competences achieved in the analysis of the documentary sources, the written report, presentation and public defense of the work are evaluated using a rubric used by members of the evaluating committee and published in the web of the master.	40

Assessment comments



Sources of information	
Basic	Serán específicas para cada traballo e na mayor parte buscadas polo propio alumno
Complementary	Serán especificas para cada traballo

Recommendations

Subjects that it is recommended to have taken before

Subjects that are recommended to be taken simultaneously

Subjects that continue the syllabus

Other comments

Green Campus Science Faculty ProgramTo contribute to achieving an immediate sustainable environment and comply with point 6 of the "Environmental Declaration of the Faculty of Sciences (2020)", the documentary work carried out in this area: They will be requested mostly in virtual format and computer support.

(*)The teaching guide is the document in which the URV publishes the information about all its courses. It is a public document and cannot be modified. Only in exceptional cases can it be revised by the competent agent or duly revised so that it is in line with current legislation.