

		Teachin	g Guide		
	Identifyir	ng Data			2019/20
Subject (*)	Project Code			610441022	
Study programme	Mestrado Universitario en Bioloxí	ía Molecular, C	Celular e Xenética	ì	
		Desc	riptors		
Cycle	Period	Ye	ear	Туре	Credits
Official Master's Degree	e Yearly	Fi	rst	Obligatory	12
Language	SpanishFrenchGalicianEnglish				
Teaching method	Face-to-face				
Prerequisites					
Department	BioloxíaCiencias Biomédicas, Me	edicina e Fisiote	erapiaFisioterapia	a, Medicina e Ciencias Bio	omédicasPsicoloxía
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Web	http://ciencias.udc.es/MBMCG/				
General description	All the Master professors may dir	ect the TFM (tr	rbajos Fin de Ma	ster, the end of Master V	Vork).
	Respect to those researchers and doctors not belonging to the Master, they may direct TFMs when they have an asigned			Ms when they have an asigned	
	Tutor/advisor that has to be from the Master.				

	Study programme competences / results
Code	Study programme competences / results
A1	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.
A2	Skills of working in a sure way in the laboratories knowing operation handbooks and actions to avoid incidents of risk.
АЗ	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.
В3	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	Correct oral and written communication on scientific topics 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.
C1	Adequate oral and written expression in the official languages.
C2	Mastering oral and written expression in a foreign language.
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 importanceof 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.

Learning outcomes				
Learning outcomes	Study programme		amme	
	competences /		es/	
		results		
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		

Contents				
Topic	Sub-topic			
The specific topics of the TFM work of each academic year	Os temas concretos dos traballos do Mestrado de cada curso académico daránse a			
will be announced at the beginning of the first semester,	conocer ao principio do primer cuatrimestre en función dos alumnos matriculados e da			
based on enrollment and availability of teachers to guide	disponibilidade de profesores para dirixirlos. Os temas xenéricos e profesores de			
them. Generic topics and contact details of teachers are	contacto se dan a coñecer antes do periodo de pre-inscripción.			
released before the pre -registration period.				

Planning					
Methodologies / tests	Competencies /	Teaching hours	Student?s personal	Total hours	
	Results	(in-person & virtual)	work hours		
Introductory activities	C7	2	0	2	
Research (Research project)	A1 A2 A3 A8 A13 B1	112	20	132	
	B3 B2 B4 B6 B7 B8				
	C2 C3 C4 C5 C6 C7				
	C8				
Directed discussion	A8 B1 B7 B8 C6 C8	6	12	18	
Oral presentation	B5 B9 C1 C3	0	20	20	

Summary	A3 A8 B3 B9 C1 C2	0	70	70
Document analysis	A3 B3 C2	0	50	50
Personalized attention		8	0	8

(*)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	Laboratory work or project			
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	Methodologies Competencies / Description		Qualification
	Results		
Oral presentation	B5 B9 C1 C3	The competences achieved in the analysis of the documentary sources, the written	30
		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.	
Research (Research	A1 A2 A3 A8 A13 B1	The director of the TFM evaluates these competencies through the rubric published on	30
project)	B3 B2 B4 B6 B7 B8	the website of the master.	
	C2 C3 C4 C5 C6 C7		
	C8	The % of the final score may represent 30% or less at the discretion of the evaluating committee.	
Summary	A3 A8 B3 B9 C1 C2	The competences achieved in the analysis of the documentary sources, the written	40
		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.	

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

(*)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.