	Т	eaching Guide				
	Identifying Data			2016/17		
Subject (*)	Traballo de Máster		Code	610441022		
Study programme	Mestrado Universitario en Bioloxía Molecular , Celular e Xenética					
		Descriptors				
Cycle	Period	Year	Туре	Credits		
Official Master's Degre	ee Yearly	First	Obligatoria	12		
Language	SpanishFrenchGalicianEnglish					
Teaching method	Face-to-face					
Prerequisites						
Department	Bioloxía Animal, Bioloxía Vexetal e Ecolo	xíaBioloxía Celular e Mole	cularMedicinaPsicolo	xía		
Coordinador	Cerdan Villanueva, Maria Esperanza	E-mail	esper.cerdan@udc.es			
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Web	http://ciencias.udc.es/MBMCG/	1	1			
General description	All the Master professors may direct the T	ΓFM (trrbajos Fin de Maste	er, the end of Master	Work).		
	Respect to those researchers and doctors not belonging to the Master, they may direct TFMs 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.
А3	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 wor
	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
В9	Skills of preparation, show and defense of a work.
C1	Skills of expressing correctly, so much of oral form as written, in the official languages of the autonomous region.

C2	Skills of dominating the oral form expression and compression and written of a foreign language.
СЗ	Skills of Using basic tools of the information technologies and communications (ICT) necessary to the exercise of his profession and for
	the apprenticeship over his life.
C4	Skills of take place for the exercise of an open citizenship, highbrow, critic, committed, democratic and solidary, able to analyze the reality,
	diagnosing problems, formulating and to implement solutions based on the knowledge and oriented to common good.
C5	Understanding the importance of the enterprising culture and to know means within reach of enterprising people.
C6	Considering critically the knowledge, technologies and the available information to solve problems with which should face.
C7	Assuming as a professional and citizen the importance of the apprenticeship over the life.
C8	Considering the importance that the investigation has, the innovation and the technological development in the socioeconomic advance
	and cultural of the society.

Learning outcomes			
Learning outcomes	Study programme		amme
	con	npetenc	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	
will be announced at the beginning of the first semester,	
based on enrollment and availability of teachers to guide	
them. Generic topics and contact details of teachers are	
released before the pre -registration period.	

	Plannin	g		
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	120	20	140
	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		0	0	0

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	It will be carried out by the director / tutor		
Introductory activities			
Research (Research			
project)			
Directed discussion			

		Assessment	
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	



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(\*)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.