		Teaching	Guide			
	Identifyi	ng Data			2015/16	
Subject (*)	Prácticas Externas		Code 610441021			
Study programme	Mestrado Universitario en Bioloxía Molecular , Celular e Xenética					
		Descrip	otors			
Cycle	Period	Yea	ır	Туре	Credits	
Official Master's Degr	ee Yearly	Firs	st	Optativa	9	
Language	Spanish				'	
Teaching method	Face-to-face					
Prerequisites						
Department	Bioloxía Animal, Bioloxía Vexeta	l e EcoloxíaBiolo	xía Celular e M	olecularMedicinaPsicolo	xía	
Coordinador	Cerdan Villanueva, Maria Espera	anza	E-mail	esper.cerdan@u	udc.es	
Lecturers	,		E-mail	esther.novo@uc	dc.es	
	Arufe Gonda, María del Carmen			maria.arufe@ud	c.es	
	Becerra Fernandez, Manuel			manuel.becerra	@udc.es	
	Cerdan Villanueva, Maria Espera	anza		esper.cerdan@u	udc.es	
	Diaz Varela, Jose			jose.diaz.varela	jose.diaz.varela@udc.es	
	Freire Picos, María Ángeles			maria.freirep@u	maria.freirep@udc.es	
	Gonzalez Siso, Maria Isabel			isabel.gsiso@uc	isabel.gsiso@udc.es	
	Gonzalez Tizon, Ana Maria			ana.gonzalez.tiz	on@udc.es	
	Herrero Lopez, Maria Concepcio	n		concepcion.herr	ero@udc.es	
	Laffon Lage, Blanca			blanca.laffon@u	dc.es	
	Mendez Felpeto, Josefina			josefina.mendez	@udc.es	
	Pomar Barbeito, Federico		federico.pomar@udc.es		@udc.es	
	Rioboo Blanco, Carmen		carmen.rioboo@udc.es		Qudc.es	
	Rodriguez Torres, Ana Maria		ana.rodriguez.torres@udc.es		rres@udc.es	
Web	http://ciencias.udc.es/MBMCG/	'				
General description	Las prácticas externas constituye	en un periodo de	aprendizaje pr	ofesional en empresas e	instituciones colaboradoras.	
	Coordina las practicas externas l	María Esperanza	Cerdán Villanı	ueva.		
	Aunque por defecto aparecen en	ı la aplicación cor	mo profesorado	o sólo los profesores que	tutorizaron prácticas en el curso	
	anterior, todos los profesores ofic	cialmente asocia	dos al Máster E	BMCG pueden participar	como tutores académicos de las	
	prácticas externas, además cada	a empresa desigr	na para cada al	umno a un tutor en la em	presa.	
	External practices constitute a period of apprenticeship in companies and institutions .					
	Coordinates the external practices Esperanza Cerdán Villanueva.					
	Although only appear in the appl	ication as teache	rs those who p	articipated in external pra	actices in the previous year, all	
	teachers officially associated with	n the Master BM0	CG can particip	ate as academic tutors o	f external practices, and each	
	company appoints for each stude	ent a tutor in com	pany.			

	Study programme competences
Code	Study programme competences
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.
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.
В6	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.
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	y progra	amme
	COI	mpeten	ces
External practices contribute to the training of students towards their subsequent professional integration and enable access to	AR1	BR4	CC4
learning techniques, protocols, skills and attitudes necessary for training and professional integration.	AR2	BR6	CC5
	AR3	BR7	CC6
	AR8		CC7
	AR13		CC8

	Contents
Topic	Sub-topic
Once each student has been assigned to a company /	
institution, the tutor in the company will prepare a descriptive	
plan of the practical work and methodology. This plan will also	
include the timetables for the implementation of practices and	
methods of supervision by the tutor of the company. There is	
a standard form available on the website of Master BMCG .	

	Planning			
Methodologies / tests	Competencies	Ordinary class	Student?s personal	Total hours
		hours	work hours	
Introductory activities	B7	3	0	3
Document analysis	A1 A8	0	98	98
Laboratory practice	A1 A2 A13 B6 B4 C4	90	0	90
	C5 C6 C7 C8			
Summary	A1 A3 A8 C6 C8	2	30	32
Personalized attention		2	0	2

Methodologies	
Methodologies	Description

Introductory activities	Interview and presentation of training plan. The academic tutor will supervise the student practices and procedures as well as informs necessary for the realization of external practices.
Document analysis	Analysis of literature and protocols necessary for the implementation of practices and understanding of its various applications to the solution of problems and the development of ideas for innovation.
Laboratory practice	This methodology refers to practical work in the company / institution and its specific development for each case will be proposed by the tutor in the company.
Summary	The student will develop a memory in which techniques and procedures developed during their stay in the company are collected and their personal assessment of the application of this knowledge to solve problems related to the fields of application of the Master and its potential for business development. There is a type format available on the website of the Master.

	Personalized attention
Methodologies	Description
Introductory activities	The academic tutor will guide students in their choice of practical work and how to prepare and submit the written summary.
Summary	

		Assessment	
Methodologies	Competencies	Competencies Description	
Laboratory practice	A1 A2 A13 B6 B4 C4	The tutor in the company makes a report on the skills developed by the student.	50
	C5 C6 C7 C8		
Summary	A1 A3 A8 C6 C8	The student makes a report on the external practices that must be made ??with the approval of the company tutor and academic supervisor. There is a standard form of memory that is available to students on the website of the Master .	50
		The academic tutor assesses the report of the tutor in the company and the report submitted by the student and in turn issued a report with a recommendation rating.	

Assessment comments

The overall process of assessing the PEX is based on three processes

- a) The report by the tutor of the company
- b) The report prepared by the academic tutor who assesses the report of the company tutor and memory prepared by the student
- c) The joint evaluation by the Commission of the Degree of the evidence collected in a) and b)

Sources of information	
Basic	Específico para cada actividade será indicado ao alumno polo titor da empresa.
Complementary	

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.