		Teaching Guide		
	Identifying D	Pata		2024/25
Subject (*)	Neurogenetics. dependence and disa	ability	Code	652438011
Study programme	Mestrado Universitario en Psicoloxía	Aplicada	'	'
		Descriptors		
Cycle	Period	Year	Туре	Credits
Official Master's Degre	ee 1st four-month period	First	Obligatory	3
Language	Spanish			-
Teaching method	Face-to-face			
Prerequisites				
Department	Psicoloxía			
Coordinador	Fernandez Garcia, Rosa Maria	E-mail	rosa.fernandez	@udc.es
Lecturers	Fernandez Garcia, Rosa Maria	E-mail	rosa.fernandez	@udc.es
Web				
General description	Tratanse aspectos de base neuroxer	nética que poden afectar á dis	scapacidade e a deper	ndencia. Esta materia impártes
	español pero os estudantes internaci	ionais recibirán titorías en ing	lés. O material didáction	co estará dispoñible en inglés.

	Study programme competences / results
Code	Study programme competences / results
A1	To recognize and respect human diversity and to understand that psychological explanations may vary across populations and contexts.
A2	To identify the personal, psycho-social and / or educative factors that may put human health at risk.
А3	Being able to elaborate a scientific report which involves defining a research problem, the hypotheses and variables, and defining the
	design, the sample and its method of selection, the tools for collecting data and their subsequent analysis and discussion.
A8	To know the basis for hypotheses establishment with respect to a particular case, and from them to deduce contrastable statements.
A12	To acquire a basic theoretical knowledge about the state of the art in the different areas involved in applied psychology.
A13	Knowing and being able to use the different models, theories, methods and assessment and intervention techniques that are specific of
	the different areas of research in Applied Psychology, and developing a critical attitude typical of the scientific spirit.
B2	Capacity for organization and planning.
C3	Using the basic tools of information and communication technologies (ICT) necessary for the exercise of the profession and for lifelong
	learning.
C8	Assessing the importance of research, innovation and technology development in the socio-economic and cultural progress of society.

Learning outcomes		
Learning outcomes	Study programn	ne
	competences	/
	results	
Know what neurogenetics is.	AR1	
	AR2	
	AR3	
	AR8	
	AR12	
	AR13	
Know the types of neurogenetic alterations	AR1	
	AR2	
	AR3	
	AR8	
	AR12	
	AR13	
Know how to apply critical, logical and creative thinking	BR2	



Assess the importance of research, innovation and technological development in the socioeconomic and cultural progress of		CC3	
society.		CC8	

	Contents
Topic	Sub-topic
UNIT 1. HUMAN NEUROGENETICS	General explanation of the main contents of genetics. DNA, gene, allele
UNIT 2. STUDY OF CHROMOSOMES	human karyotype. type of chromosomes. Major elements of chromosomes.
UNIT 3. MAIN CHROMOSOMIC SYNDROMES IN HUMANS	Turner's syndrome. Klinefelter syndrome. Down's Syndrome.
UNIT 4. EPIGENETIC BASIS OF HUMAN BEHAVIOR	General explanation of Epigenetics. Bases and peculiarities related to human
	behavior.
UNIT 5. STUDY OF THE GENETIC AND EPIGENETIC	Genetic and epigenetic bases related to sexual dimorphism. Transsexuality. Gender
BASIS OF SEXUAL DIMORPHISM IN HUMANS	and gender incongruity.

Planning	g		
Competencies /	Teaching hours	Student?s personal	Total hours
Results	(in-person & virtual)	work hours	
A1 A2 A3 A8 A12 A13	9	27	36
C3			
A1 A2 A3 A12 B2 C3	4	16	20
C8			
A1 C8	3	6	9
	10	0	10
	Competencies / Results A1 A2 A3 A8 A12 A13 C3 A1 A2 A3 A12 B2 C3 C8	Results (in-person & virtual) A1 A2 A3 A8 A12 A13 C3 A1 A2 A3 A12 B2 C3 C8 A1 C8 A1 C8 3	Competencies / Results (in-person & virtual) Student?s personal work hours

	Methodologies
Methodologies	Description
Guest lecture /	The teacher will deliver a series of lectures on the four topics in the classroom.
keynote speech	
Laboratory practice	1º Obtaining DNA from buccal mucosa.
	2º Practice of dissection of the brain of a lamb.
	3º Make a human karyotype from an image of the chromosomes (metaphase).
Objective test	Answer a questionnaire of 40 multiple-choice questions (true/false), related to the four topics presented by the teacher and to
	the laboratory practices carried out by the students.

	Personalized attention
Methodologies	Description
Objective test	Resolution of issues
Laboratory practice	

		Assessment	
Methodologies	Competencies /	ompetencies / Description	
	Results		
Objective test	A1 C8	Solve a questionnaire. To pass the course must be approved test or objective test.	80
Over at la atoma /	A4 A0 A0 A0 A40 A40	Materials on Macella a Tagree	40
Guest lecture /		Materiais en Moodle o Teams	10
keynote speech	C3		
Laboratory practice	A1 A2 A3 A12 B2 C3	Prácticas no laboratorio de Psicobioloxía	10
	C8		

Assessment comments

2/3



Students who have been granted recognition of their part-time dedication and academic dispensation of exemption from attendance will be required to pass the objective test, but will not be obliged to participate in the laboratory practicals.

	Sources of information
Basic	Calquera manual de xenética ou de xenética molecular que se atope na biblioteca da Facultade. Por exemplo:- COX,
T.M. y SINCLAIR, J. (1998). Biología Molecular en Medicina. Madrid. Pannamericana PLOMIN, R., DEFRIES, J.C.	
	(2002) . Genética de la conducta. Madrid, Alianza.
Complementary	 <

Recommendations
Subjects that it is recommended to have taken before
Subjects that it is recommended to have taken before
Subjects that are recommended to be taken simultaneously
Biopsychology/652438010
Subjects that continue the syllabus
Other comments
Coñecementos previos de contidos de Psicobioloxía, especialmente Xenética do comportamento

(*)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.