

		Teaching Guide		
	Identifying	Data		2021/22
Subject (*)	Psychopharmacology		Code	652438013
Study programme	Mestrado Universitario en Psicoloxía	a Aplicada		
		Descriptors		
Cycle	Period	Year	Туре	Credits
Official Master's Degre	e 2nd four-month period	First	Obligatory	3
Language	SpanishGalician	SpanishGalician		
Teaching method	Face-to-face	Face-to-face		
Prerequisites				
Department	Psicoloxía			
Coordinador	Laffon Lage, Blanca	E-ma	blanca.laffon@u	dc.es
Lecturers	Laffon Lage, Blanca E-mail blanca.laffon@udo		idc.es	
Web		•		
General description	In this subject the student will learn	the neurophysiological bas	sis of psychopharmacothera	apy, the pharmacokinetic and
	pharmacodynamic aspects underlying	ng the pharmacological ac	tion, and the main groups o	f psychodrugs and their
	therapeutic use.			

## Contingency plan

1. Modifications to the contents:

No modifications.

2. Methodologies.

\*Teaching methodologies that are maintained:

Keynote speechs.

Seminars.

Supervised projects.

Problem solving.

Mixed test.

\*Teaching methodologies that are modified:

The keynote speechs, seminars and problem solving will be conducted by Teams.

The mixed test will be conducted by Moodle.

- 3. Mechanisms for personalized attention to students:
- -E-mail: Daily. It will be used to make questions, request virtual meetings to solve doubts and follow up the supervised projects.
- -Teams: Weekly. Sessions to discuss the contents of the keynote speechs and control the progress of the supervised projects, in the time scheduled for the subject by the faculty.

Moreover, the students may make questions by the Teams group, and different channels may be created for different discussion topics.

According to the students' requests, there will be meetings with small groups to follow up and support the supervised projects.

4. Modifications in the evaluation:

No modifications. Regular attendance and participation will be considered only until the interruption of face-to-face activity in case the students do not have connectivity that allow synchronous access to Teams.

\*Evaluation observations: None.

5. Modifications to the bibliography or webgraphy:

No modifications.

	Study programme competences / results
Code	Study programme competences / results
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.
A7	Knowing to track on a case by choosing appropriate and realistic objectives.
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.
A16	To acquire the knowledge and skills necessary for the exposition and defence of a research paper.
B1	Capacity for analysis and synthesis.
B2	Capacity for organization and planning.
В3	Teamwork.
B5	Skills in interpersonal relations.
B6	Critical thinking.

B8	Autonomous learning.	
B15	Ability to work with an interdisciplinary team.	
B16	Ability to communicate with non-experts in the field.	
C1	To express oneself, both orally and in writing, in the official languages of the autonomous region.	
C3	Using the basic tools of information and communication technologies (ICT) necessary for the exercise of the profession and for lifelong	
	learning.	
C6	To critically assess the knowledge, technology and information available to solve the problems they face.	
C7	To assume as professionals and citizens the importance of 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	y progra	amme
	con	npetenc	es/
		results	
Learning the neurophysiological basis of psychodrugs action.	AR12		
Learning the features and main factors affecting each one of the pharmacokinetic processes.	AR12		
Learning the general action mechanisms of psychodrugs, the utility of the dose-response curves, and the factors involved in	AR2		
the interindividual variability to psychodrug response.	AR12		
Learning the main groups of psychodrugs, their action mechanisms and their clinical applications.	AR2		
	AR7		
	AR12		
Learning the stages in new psychodrug development.	AR12		CC7
			CC8
Skills to express in scientific language and comunicate in an effective manner.	AR3		CC1
	AR13		CC6
Working in group in a collaborative manner.		BR2	ССЗ
		BR3	
		BR5	
		BR6	
		BR8	
		BR15	
Skills for speaking in public.	AR16	BR1	
		BR2	
		BR16	

Contents		
Topic Sub-topic		
I. Introduction	1. Neurophysiological bases of psychopharmacology: cell neurophysiology,	
	interneuron communication, psychopharmacotherapy principles.	
II. Pharmacology	2. Essential concepts in Pharmacology.	
	3. Pharmacokinetics: absorption, distribution, metabolization and excretion processes.	
	4. Pharmacodynamics: drug mechanisms of action, dose-response curves,	
	pharmacologic response variability.	

III. Psychodrugs	5. Psycholeptic drugs: hipnotic drugs, anxyolitic drugs, antipsychotic drugs.
	6. Psychoanaleptic drugs: antidepressant drugs, mood stabilizers, psychostimulating drugs, nootropes.
	7. Psychodysleptic drugs.
IV. Advances	8. Development of new psychodrugs.

	Plannin	g		
Methodologies / tests	Competencies /	Teaching hours	Student?s personal	Total hours
	Results	(in-person & virtual)	work hours	
Guest lecture / keynote speech	A2 A12 B6 B8 C6 C7	16	28	44
	C8			
Seminar	A16 B1 B3 B5 B6 B15	2	3	5
	B16 C1			
Supervised projects	A3 A16 B1 B2 B3 B5	0	20	20
	B15 C1 C3 C8			
Problem solving	A2 A7 A13 B1 B6 B8	2	2	4
	C3 C6			
Mixed objective/subjective test	A2 A12 B1 B6 C1	1	0	1
Personalized attention		1	0	1
(*)The information in the planning table is fo	r quidance only and does not	take into account the l	neterogeneity of the stud	lonte

	Methodologies		
Methodologies	Description		
Guest lecture /	The teacher will introduce the programme contents with the aid of multimedia stuff. She will answer the questions raised by the		
keynote speech	students.		
Seminar	Bibliographic seminar: students will present their projects. Then a debate on the topic of their presentation will be conducted.		
Supervised projects	Supervised projects carried out by groups of students about a topic proposed by the teacher. Personalized attention will be		
	given in order to provide support and orientation on the contents to be included in each project. The files corresponding to		
	each project and its presentation will be delivered through Moodle before the fixed deadline. Later, all projects will be available		
	in Moodle.		
Problem solving	Practical session dealing with solving problems related to different topics addressed in this subject.		
Mixed	At the end of the programme, an exam consisting of short answer and/or test-type questionnaire will be conducted.		
objective/subjective			
test			

	Personalized attention
Methodologies	Description
Supervised projects	Part-time students: materials used in lectures, and any other useful material, will be available in Moodle. Deadlines for
	supervised projects and questionnaires will be the same than for regular students, and will be specified in Moodle.
	Upon students' request, personalized attention will be given in order to provide support and orientation on the contents to be
	included in each project, to answer questions, and to help for developing specific, basic and transversal study programme competencies.

## Assessment

Methodologies	Competencies /	Description	Qualification
	Results		
Guest lecture /	A2 A12 B6 B8 C6 C7	Regular attendance and participation will be evaluated, only if the student pass the	8.75
keynote speech	C8	exam.	
Seminar	A16 B1 B3 B5 B6 B15	Attendance is mandatory to present the supervised project. For students with	0
	B16 C1	attendance exemption, the supervised project will be presented by MS Teams.	
Supervised projects	A3 A16 B1 B2 B3 B5	It is mandatory to carry out a supervised project in group (providing there are enough	40
	B15 C1 C3 C8	students). Marks obtained will be the same for all group members. It will be evaluated	
		only if the students pass the exam.	
Problem solving	A2 A7 A13 B1 B6 B8	Attendance and participation will be evaluated, only if the student pass the exam.	1.25
	C3 C6		
Mixed	A2 A12 B1 B6 C1	Exam: short answer and/or test-type questionnaire. For tudents not attending the	50
objective/subjective		lectures and problem solving seminar due to attendance exemption, this exam will	
test		represent 60% of the total marks. It is mandatory to pass this exam for passing the	
		whole subject.	

## **Assessment comments**

Rquirements to pass the subject: to deliver and present the supervised project, to obtain a minimum of 50% marks in the exam, and to obtain a minimum of 50% marks in the total subject.

Second oportunity evaluation: students must deliver and present a supervised project (in case they did not do it before) and conduct the exam.

	Sources of information
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	Madrid: Síntesis.Janicak, P.G.; Davis, J.M.; Preskorn, S.H.; Ayd, F.J. Jr.; Marder, S.R.; Pavuluri, M.N. (2006)
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	Sáez, J.A. (2017) Los alucinógenos. Serie ¿Qué sabemos de? Madrid: CSIC-Catarata.Pöldinger, W. (1984)
	Compendio de psicofarmacoterapia. Basilea: Roche.Rahola, J.G. (2012) Lo que siempre quiso saber de los
	psicofármacos y nunca se atrevió a preguntar. Madrid: Aulamédica.Salazar, M.; Peralta, C.; Pastor, J. (2005)
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Complementary	Bayés, R. (1977) Iniciación a la farmacología del comportamiento. Barcelona: Fontanella.Bear, M.F.; Connors, B.W.;
	Paradiso, M.A. (1998) Neurociencia. Explorando el cerebro. Baltimor: Williams & Dilliams & Control M.F. (2008)
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	Pharmaceutical Press.Pies, R.W. (2000) Manual de psicofarmacología básica. Barcelona: Masson.Pinel, J.P.J. (2007)
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	Compostela: Servicio científico Roche.Rosenzweig, M.R.; Leiman, A.L.; Breedlove, S.M. (2001) Psicología Biológica.
	Barcelona: Ariel.Salazar, M.; Peralta, C.; Pastor, J. (2005) Guía de estudio del Tratado de psicofarmacología. Madrid:
	Panamericana.Sanjuán, J. (2016) ¿Tratar la mente o tratar el cerebro? Hacia una integración entre psicoterapia y
	psicofármacos. Bilbao: Desclée de Brouwer S.A.

Recommendations
Subjects that it is recommended to have taken before



Biopsychology/652438010	
	Subjects that are recommended to be taken simultaneously
	Subjects that continue the syllabus
	Other comments

-Computer skills (user level) are recommended in order to use the Moodle platform and prepare the supervised project and its presentation.-English language is recommended, in order to read the bibliographic stuff.-In order to contribute to a sustainable environment and fulfil the objectives of the Faculty of Education Sciences Environmental Declaration, in the frame of the Green Campus, documents prepared for this subject must be delivered in digital format. In case of using paper: Plastics must not be used. Printing must be both sides. Recycled paper must be used. Draft printing must be avoided.

(\*)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.