

## SUBJECT TEACHING GUIDE

### 475 - Psychopharmacology I

#### Master's Degree in Mental Health Research

Academic year 2024-2025

1. IDENTIFYING DATA					
Degree	Master's Degree in Mental Health Research			Type and Year	Optional. Year 1
Faculty	Faculty of Medicine				
Discipline	Subject Area: New Mechanisms and Molecular Targets in the Treatment of Psychic Disorders				
Course unit title and code	475 - Psychopharmacology I				
Number of ECTS credits allocated	3	Term	Semester based (1)		
Web					
Language of instruction	Spanish	English Friendly	No	Mode of delivery	Face-to-face

Department	DPTO. FISILOGIA Y FARMACOLOGIA
Name of lecturer	MARIA ELENA CASTRO FERNANDEZ
E-mail	maria.castro@unican.es
Office	Edificio IBBTEC. Planta: + 2. DESPACHO (217)
Other lecturers	MARIA AMOR HURLE GONZALEZ FRANCISCO JAVIER AYESTA AYESTA FERNANDO SALMON MUÑIZ ALVARO MARCELINO DIAZ MARTINEZ CARMEN MARTINEZ-CUE PESINI MONICA TRAMULLAS FERNANDEZ MARIA FUENCISLA PILAR CUELLAR RAQUEL GARCIA LOPEZ ALBERT ADELL CALDUCH

### 3.1 LEARNING OUTCOMES

- 1. Know the main drugs used in Psychopharmacology, distinguishing its mechanism of action, as well as its beneficial and adverse effects.
- 2. Correctly manage the sources of scientific information on psychotropic drugs and carry out a critical analysis of the scientific evidence.

### 4. OBJECTIVES

- GOAL 1: Understand the biological bases of the functioning of the Central Nervous System under physiological conditions.
- GOAL 2: Understand the molecular bases of the mechanism of action of psychotropic drugs.
- GOAL 3: Identify the advances related to Psychopharmacology.

### 6. SUBJECT PROGRAM

CONTENTS	
1	History of Psychopharmacology
2	CNS functional neurochemistry
3	Anxiolytic drugs
4	Antidepressant drugs
5	Antipsychotic drugs
6	Pharmacology of pain
7	Pharmacology of substances of abuse
8	Mood stabilizers
9	Pharmacology of dementias
10	Neurodevelopmental pharmacology (autism and TADH)
11	Search for new psychopharmacological targets
12	Alternative therapies: Electroconvulsive therapy, Transcranial magnetic stimulation, Deep brain stimulation.

7. ASSESSMENT METHODS AND CRITERIA				
Description	Type	Final Eval.	Reassessn	%
Continuous assessment	Others	No	No	50,00
Individual work	Work	No	Yes	20,00
Team work	Work	No	Yes	20,00
Participation on topics raised in the forum	Others	No	Yes	10,00
TOTAL				100,00
Observations				
<p>To pass the subject (5), attendance at in-person classes is mandatory. The maximum number of faults admitted is of two kinds.</p> <p>Those students who have not passed the subject in the ordinary call will have to appear in the extraordinary call for the following activities:</p> <ol style="list-style-type: none"> <li>1. Individual work. Presentation of a new job.</li> <li>2. Group work. Deliver a presentation (ppt) on screening of a group of psychotropic drugs.</li> <li>3. Participation in forums. A scientific discussion topic for the forum will be proposed within the established deadline .</li> </ol>				
Observations for part-time students				
N/A				

8. BIBLIOGRAPHY AND TEACHING MATERIALS
BASIC
<p>FLÓREZ J. Farmacología Humana. Ed. Elsevier-Masson, 6 Edición, 2014.</p> <p>GOODMAN y GILMAN. Las bases farmacológicas de la Terapéutica. Ed. McGraw-Hill, 14. Edición, 2023.</p> <p>SIEGEL J. Basic Neurochemistry. Molecular, Celular and Medical Aspects. Ed. Elsevier, 8ª Edición, 2011.</p> <p>KANDEL E. Principios de Neurociencia. Ed. Mc Graw Hill, 4ª Edición, 2013.</p> <p>CHARNEY DS, NESTLER EJ, SKLAR P, BUXBAUM JD. Neurobiology of Mental Illness. Ed. Oxford University Press. 5ª ed. 2018.</p>