

## SUBJECT TEACHING GUIDE

M1350 - Psychopharmacology I

Master's Degree in Mental Health Research

Academic year 2022-2023

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	M1350 - 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
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Other lecturers	MARIA AMOR HURLE GONZALEZ FRANCISCO JAVIER AYESTA AYESTA FERNANDO SALMON MUÑIZ ALVARO MARCELINO DIAZ MARTINEZ CARMEN MARTINEZ-CUE PESINI MONICA TRAMULLAS FERNANDEZ REBECA VIDAL CASADO MARIA FUENCISLA PILAR CUELLAR 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. COURSE ORGANIZATION

#### 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
<b>TOTAL</b>				<b>100,00</b>
<b>Observations</b>				
To pass the subject (5) it is compulsory to attend the face-to-face classes. The maximum number of absences admitted is two.				
<b>Observations for part-time students</b>				
N/A				

## 8. BIBLIOGRAPHY AND TEACHING MATERIALS

### BASIC

FLÓREZ J. Farmacología Humana. Ed. Elsevier-Masson, 6 Edición, 2014.

GOODMAN y GILMAN. Las bases farmacológicas de la Terapéutica. Ed. McGraw-Hill, 12. Edición, 2014.

SIEGEL J. Basic Neurochemistry. Molecular, Celular and Medical Aspects. Ed. Elsevier, 8ª Edición, 2011.

KANDEL E. Principios de Neurociencia. Ed. Mc Graw Hill, 4ª Edición, 2013.

CHARNEY DS, NESTLER EJ, SKLAR P, BUXBAUM JD. Neurobiology of Mental Illness. Ed. Oxford University Press. 5ª ed. 2018.