

SUBJECT TEACHING GUIDE

460 - Stay in a Type A Research Unit

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	Compulsory. Year 1
Faculty	Faculty of Medicine				
Discipline	Subject Area: Stays in Research Centres Compulsory Module				
Course unit title and code	460 - Stay in a Type A Research Unit				
Number of ECTS credits allocated	6	Term	Annual based		
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	ALVARO MARCELINO DIAZ MARTINEZ JAVIER VAZQUEZ BOURGON REBECA VIDAL CASADO MARIA FUENCISLA PILAR CUELLAR

3.1 LEARNING OUTCOMES

- The student must know the most used methodologies to solve biological problems in the field of basic research in Mental Health.
- The student must know the use of instruments and methods for the study of genes, proteins, cell signaling or animal models of neuropsychiatric disease.

4. OBJECTIVES

1. Define the most relevant problems in research in the field of mental illness.
2. To encourage the student to apply the scientific method on his/her professional/academic field.
3. To know the main methodologies, techniques and specific tools / assessment and recording instruments used in Psychiatry research.

6. SUBJECT PROGRAM

CONTENTS

1	- Basic itinerary: Introduction to animal models of psychiatric disorders: common behavioral tests. - Clinical itinerary: Clinical and genetic research in psychosis.
2	- Basic Itinerary: Receptor quantification methods. - Clinical Itinerary: Assessment of neurocognitive functions in mental pathology.
3	- Basic itinerary: Evaluation of signaling cascades activated by receptors. - Clinical itinerary: Introduction to neuroimaging techniques to study brain volumetrics.
4	- Basic Itinerary: Evaluation of serotonergic system modulation after chronic antidepressant treatment. - Clinical itinerary: Initiation in neuroimaging techniques to study white matter.
5	- Basic Itinerary: Initiation in the identification of new therapeutic targets for mental illness. - Clinical Itinerary: Preparation of a scientific manuscript.

7. ASSESSMENT METHODS AND CRITERIA

Description	Type	Final Eval.	Reassessn	%
Continuous assessment.	Laboratory evaluation	No	No	50,00
Oral test.	Others	Yes	Yes	50,00
TOTAL				100,00
Observations				
Observations for part-time students				
N/A				

8. BIBLIOGRAPHY AND TEACHING MATERIALS

BASIC

La bibliografía básica le será entregada al alumno en función del tipo de estancia elegida.