



NEUROPSYCHOPHARMACOLOGY

Enrollment year	2020/2021
Academic year	2021/2022
Regulations	DM270
Academic discipline	BIO/14 (PHARMACOLOGY)
Department	DEPARTMENT OF BIOLOGY AND BIOTECHNOLOGY "LAZZARO SPALLANZANI"
Course	NEUROBIOLOGY
Curriculum	PERCORSO COMUNE
Year of study	2°
Period	2nd semester (01/03/2022 - 14/06/2022)
ECTS	6
Lesson hours	48 lesson hours
Language	Italian
Activity type	WRITTEN TEST
Teacher	PEVIANI MARCO (titolare) - 6 ECTS
Prerequisites	=
Learning outcomes	=Understanding of the pathogenetic mechanisms of some neuropsychiatric disorders. Knowledge of major drug classes for the treatment of neuropsychiatric disorders. Focus on the mechanism of action and side effects of drugs and on innovative strategies to improve therapeutic efficacy.
Course contents	=Drugs for treatment of chronic pain - opioids: use and abuse; cannabinoids: use and abuse. Pathogenesis, therapeutic targets and drugs (mechanism of action, side effects and new therapeutic approaches) for the treatment of some neuropsychiatric disorders: depression, anxiety, epilepsy. Biomarkers as non invasive method to aid diagnosis, prognosis and monitoring of treatment response in neuropsychiatric disorders. Non invasive imaging methods as diagnostic

	and prognostic tool in neuropsychiatric disorders (PET, MRI).
Teaching methods	=Lessons, discussion of peer reviewed papers published on relevant topics for the field, students will be instructed to present and discuss (Journal Clubs format) papers provided by the lecturer. Furthermore, some classes will take the format of group-working sessions, whereby the students will collaborate to address specific topics of the course and prepare a seminar for the class, under the guidance and supervision of the lecturer. These extra activities will be awarded with credit points that will integrate the final score of the exam.
Reccomended or required readings	=Goodman and Gilman's The Pharmacological Basis of Therapeutics Ebenezer - Neuropsychopharmacology and Therapeutics Katzung, Masters and Trevor - Basic and Clinical Pharmacology
Assessment methods	Oral examination aiming to evaluate the pharmacological skills acquired in relation to the contents of the course. The final mark will focus on the level of understanding and of oral exposure of the topics
Further information	=The slides shown at classes will be provided to the students
Sustainable development goals - Agenda 2030	\$lbl_legenda_sviluppo_sostenibile