UNIVERSITÀ DI PAVIA

Anno Accademico 2020/2021

NEUROPHARMACOLOGY

Anno immatricolazione	2020/2021
Anno offerta	2020/2021
Normativa	DM270
SSD	BIO/14 (FARMACOLOGIA)
Dipartimento	DIPARTIMENTO DI SCIENZE DEL SISTEMA NERVOSO E DEL COMPORTAMENTO
Corso di studio	PSYCHOLOGY, NEUROSCIENCE AND HUMAN SCIENCES
Curriculum	PERCORSO COMUNE
Anno di corso	1°
Periodo didattico	Secondo Semestre (15/02/2021 - 11/06/2021)
Crediti	6
Ore	36 ore di attività frontale
Lingua insegnamento	Inglese
Tipo esame	SCRITTO E ORALE CONGIUNTI
Docente	BLANDINI FABIO (titolare) - 6 CFU
Prerequisiti	None
Obiettivi formativi	The Neuropharmacology teaching course will provide a general view of the mechanisms of action and use of drugs acting on the central nervous system, with specific reference to major conditions and their pharmacological treatment. Students are expected to learn the basic principles of how, where and when a drug can interact with neural systems in a way that will impact on the course or clinical expression of a neurological or psychiatric condition.
Programma e contenuti	The course will include 1) an introductory section, where basic principles of pharmacology, such as pharmacokinetics and pharmacodynamics, along with major concepts regarding synaptic transmission and signal transduction in the brain will be discussed; 2) neural substrates of drug action will be then explained. This will include

	a description of major neurotransmission systems and transfer of basic concepts of functional neuroanatomy that will provide the basis for the understanding of how drugs acting within the central nervous system can modify the course of neurological or psychiatric disorders; 3) finally, we will discuss how centrally active compounds can impact on different diseases, characterized by relatively high frequency in the general populations - i.e., stroke, epilepsy, Parkinson's disease, Alzheimer's disease, migraine, mood disorders, etc. – and what future developments may be expected in the neuropharmacology field.
Metodi didattici	On-site, frontal lessons (if possible) or on-line lessons, depending on the pandemics evolution in the next months. Slides used for the lessons will be made available on request
Testi di riferimento	-Goodman & Gilman's. The pharmacological basis of therapy (13th edition) -Molecular Neuropharmacology: A Foundation for Clinical Neuroscience (4th edition)
Modalità verifica apprendimento	Written multiple choice test
Altre informazioni	
Obiettivi Agenda 2030 per lo sviluppo sostenibile	$lbl_legenda_sviluppo_sostenibile