



MOLECULAR NEUROBIOLOGY	
Enrollment year	2020/2021
Academic year	2021/2022
Regulations	DM270
Academic discipline	BIO/11 (MOLECULAR BIOLOGY)
Department	DEPARTMENT OF BIOLOGY AND BIOTECHNOLOGY "LAZZARO SPALLANZANI"
Course	NEUROBIOLOGY
Curriculum	PERCORSO COMUNE
Year of study	2°
Period	(01/10/2021 - 14/01/2022)
ECTS	3
Lesson hours	24 lesson hours
Language	Italian
Activity type	ORAL TEST
Teacher	FORNERIS FEDERICO (titolare) - 3 ECTS
Prerequisites	Basic knowledge of biochemistry and protein structure, as well as mechanisms of signal transduction
Learning outcomes	The course provides a molecular overview of important macromolecular systems involved in CNS and PNS signal transduction, the methodological methods to achieve their characterization, plus a description of some important molecular mechanisms of receptor-drug interaction in the same molecular systems.
Course contents	<ol style="list-style-type: none">1. Recap of structural biology and biochemistry of molecular interactions2. Ion channels: structures, mechanisms, pharmacological targeting3. ECM: components and their structures, pharmaceutical targeting4. New approaches to molecular neurobiology

	dedicated softwares
Reccomended or required readings	N/A - Study materials will be provided during the course
Assessment methods	Oral Exam: presentation of a selected research article on course-related topics.
Further information	Final grade will be calculated by averaging the grades of the Molecular Neurobiology and the Neuropathology Complements sub-courses. Cum laude will be assigned only if obtained in both sub-courses.
Sustainable development goals - Agenda 2030	\$lbl legenda sviluppo sostenibile