



ADVANCED SYSTEMIC NEUROPHYSIOLOGY

Enrollment year	2019/2020
Academic year	2020/2021
Regulations	DM270
Academic discipline	BIO/09 (PHYSIOLOGY)
Department	DEPARTMENT OF BIOLOGY AND BIOTECHNOLOGY "LAZZARO SPALLANZANI"
Course	NEUROBIOLOGY
Curriculum	PERCORSO COMUNE
Year of study	2°
Period	1st semester (05/10/2020 - 14/01/2021)
ECTS	9
Lesson hours	72 lesson hours
Language	Italian
Activity type	WRITTEN TEST
Teacher	D'ANGELO EGIDIO UGO (titolare) - 6 ECTS PALESI FULVIA - 3 ECTS
Prerequisites	The students of this course are required to have knowledge of the physiology provided during the course of the Three Year Degree in Biological Area.
Learning outcomes	The course aims to provide students with the basic knowledge about the large scale organization of nerve functions and the neural mechanisms that generate them.
Course contents	First part (3 cfu): Anatomic Functional Organization of the Nervous System; Neuro-modulated diffuse systems: noradrenergic, dopaminergic, serotonergic and cholinergic systems; Neurotransmitters and synaptic receptors; motor control. Neurotransmitters, drugs and addiction;

	<p>Perception and pain; Neurovegetative functions: Orthosympathetic, Parasympathetic and Enteric Nervous System; The autonomic nervous system and the hypothalamus: hunger control, fluid intake, and thermoregulation. Second part (6cfu): neural models and microcircuits, higher functions of the central nervous system</p>
Teaching methods	The course is organized in frontal lectures by presenting slides in Power Point.
Reccomended or required readings	D'Angelo-Peres FISIOLOGIA – Edi-ermes
Assessment methods	The test of learning is in writing, with 3 questions of a specific nature aimed to verify the study and the knowledge of the subject.
Further information	
Sustainable development goals - Agenda 2030	\$lbl legenda sviluppo sostenibile