

COURSE OUTLINE

(1) GENERAL

SCHOOL	Medical		
ACADEMIC UNIT	Medical School		
LEVEL OF STUDIES	Graduate		
COURSE CODE	NEURO-201	SEMESTER	2
COURSE TITLE	Neurochemistry-Neuropharmacology		
INDEPENDENT TEACHING ACTIVITIES <i>if credits are awarded for separate components of the course, e.g. lectures, laboratory exercises, etc. If the credits are awarded for the whole of the course, give the weekly teaching hours and the total credits</i>		WEEKLY TEACHING HOURS	CREDITS
Lectures, writing tests, students' presentations		4	6
<i>Add rows if necessary. The organisation of teaching and the teaching methods used are described in detail at (d).</i>			
COURSE TYPE <i>general background, special background, specialised general knowledge, skills development</i>	Compulsory/background subject		
PREREQUISITE COURSES:	None		
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	English		
IS THE COURSE OFFERED TO ERASMUS STUDENTS	Yes		
COURSE WEBSITE (URL)			

(2) LEARNING OUTCOMES

<p>Learning outcomes <i>The course learning outcomes, specific knowledge, skills and competences of an appropriate level, which the students will acquire with the successful completion of the course are described.</i></p> <p>Consult Appendix A</p> <ul style="list-style-type: none"> • Description of the level of learning outcomes for each qualifications cycle, according to the Qualifications Framework of the European Higher Education Area • Descriptors for Levels 6, 7 & 8 of the European Qualifications Framework for Lifelong Learning and Appendix B • Guidelines for writing Learning Outcomes
<p>The aim of this class is the understanding of the role of neurotransmitters and intracellular signaling systems a) in cellular communication and b) in the physiology and pathophysiology of the nervous system.</p> <p>During the teaching of the course, students should acquire the following skills:</p> <p>a) critical evaluation of contemporary issues in Neuropharmacology b) presentation and analysis of scientific and experimental data.</p>
<p>General Competences <i>Taking into consideration the general competences that the degree-holder must acquire (as these appear in the Diploma</i></p>

Supplement and appear below), at which of the following does the course aim?

Search for, analysis and synthesis of data and information, with the use of the necessary technology	Project planning and management
Adapting to new situations	Respect for difference and multiculturalism
Decision-making	Respect for the natural environment
Working independently	Showing social, professional and ethical responsibility and sensitivity to gender issues
Team work	Criticism and self-criticism
Working in an international environment	Production of free, creative and inductive thinking
Working in an interdisciplinary environment
Production of new research ideas	Others...

Search for, analysis and synthesis of data and information, with the use of the necessary technology
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(3) SYLLABUS

Introduction to Neuropharmacology
Tonic and Phasic Release of Neurotransmitters
Methods for measuring dopamine levels in the rat brain
Biological Amines: A
Biogenic Amines: B
Receptors properties
Neuropeptides
The Endocannabinoid System as a Therapeutic Target
Aquaporins
Stimulating Amino Acids
Seminar in best practices for writing and submitting a funded research proposal
Tasks

(4) TEACHING and LEARNING METHODS - EVALUATION

<p style="text-align: center;">DELIVERY <i>Face-to-face, Distance learning, etc.</i></p>	Face-to-Face	
<p style="text-align: center;">USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY <i>Use of ICT in teaching, laboratory education, communication with students</i></p>	UoC E-learn platform, <i>communication with students</i>	
<p style="text-align: center;">TEACHING METHODS <i>The manner and methods of teaching are described in detail.</i> <i>Lectures, seminars, laboratory practice, fieldwork, study and analysis of bibliography, tutorials, placements, clinical practice, art workshop, interactive teaching, educational visits, project, essay writing, artistic creativity, etc.</i></p> <p><i>The student's study hours for each learning activity are given as well as the hours of non-directed study according to the principles of the ECTS</i></p>	Activity	Semester workload
	Lectures	28
	Study and analysis of bibliography, interactive teaching	168
	Writing tests	3
	Final exams	2
Course total	201	
<p style="text-align: center;">STUDENT PERFORMANCE EVALUATION <i>Description of the evaluation procedure</i></p> <p><i>Language of evaluation, methods of evaluation, summative or conclusive, multiple choice questionnaires, short-answer questions, open-ended questions, problem solving, written work, essay/report, oral examination, public presentation, laboratory work, clinical examination of patient, art interpretation, other</i></p> <p><i>Specifically-defined evaluation criteria are given, and if and where they are accessible to students.</i></p>	<p>The evaluation is performed in the English language</p> <p>I. Written final exam (80%) which includes:</p> <ul style="list-style-type: none"> - Multiple choice questions - Short answer in critical questions - Full analysis of answer in general questions or a combination of the aforementioned <p>II. Writing Test (20%)</p> <ul style="list-style-type: none"> - Multiple choice questions or short answer quizzes <p>The criteria and evaluation method are announced during the 1st meeting of the course and posted on e-learn platform.</p>	

(5) ATTACHED BIBLIOGRAPHY

<p>- Suggested bibliography: Rang & Dale Pharmacology, review and research papers</p> <p>- Related academic journals: Nature, Cell, Science, Pharmacology and Therapeutics, Neuropharmacology</p>
