University of Gdańsk

Subject card

Subject name and code	Current trends in neurobiology, PG_00203475		
Field of study	Medical Biology		
Date of commencement of studies	October 2026	Academic year of realisation of subject	2026/2027
Education level	Master's studies	Subject group	Obligatory subject group in the field of study Optional subject group Subject group related to scientific research in the field of study
Mode of study	full-time studies	Mode of delivery	at the university
Year of study	1	Language of instruction	Polish
Semester of study	2	ECTS credits	2.0
Learning profile	academic	Assessment form	exam
Conducting unit	Department of Animal and Human Physiology -> Faculty of Biology -> Rector		
Name and surname of lecturer (lecturers)	Subject supervisor	dr Emilia Leszkowicz	
	Teachers		

Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	20.0	0.0	0.0	0.0	0.0	20
	E-learning hours included: 0.0						

Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan	Participation in consultation hours	Self-study	SUM
	Number of study hours	20	3.0	27.0	50

Subject objectives	Learning about new and current achievements in the field of broadly understood neurobiology. A critical review of the literature on current topics in neuroscience.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[BIOLMEDMU2_U05] has the ability to speak in Polish or a foreign language at B2+ level and to discuss topics relating to their chosen specialism, as well as possessing the tools to engage in academic debate and the ability to adapt technical language to the appropriate audience	Has the ability to discuss topics regarding the latest achievements in neurobiology	[SU1] oral statement/conversation/ discussion
[BIOLMEDMU2_U01] is able to use, fluently yet critically, the academic literature and databases required for work in the field of medical biology and related disciplines, and to prepare and present academic papers in the field of medical biology and related sciences	Is able to fluently and critically use scientific literature on neurobiology and databases necessary for activities in the field of neurobiology	[SU4] test/exam - oral or written
[BIOLMEDMU2_W02] is familiar with current issues in medical biology and related disciplines	He is familiar with currently discussed problems regarding the use of the latest achievements in neurobiology in medical biology and related disciplines	[SW4] test/exam - oral or written
[BIOLMEDMU2_K02] is ready to recognize the importance of knowledge in solving cognitive and practical problems and to seek expert advice when having difficulty solving a problem on his own	Recognizes the importance of knowledge of the latest achievements in neurobiology in solving cognitive and practical problems and seeks the opinion of experts in case of difficulties in solving the problem on one's own	[SK1] oral statement/conversation/ discussion
[BIOLMEDMU2_W01] has an in-depth knowledge of scientific fields and disciplines relevant to medical biology and the studied specialty and knows their main development trends	Has extended knowledge of the latest achievements in neurobiology and knows the main development trends in neurobiology.	[SW4] test/exam - oral or written

Subject contents

The importance of Papez's circuit and dopaminergic transmission for learning and memory processes. The brain's spatial orientation system. Changes in brain activity during sleep. Modeling of neurological disorders in vitro and in situ studies. Exercises for human cognitive functions in the aspect of brain plasticity. Oxytocin as a prosocial hormone. The latest achievements in the neurobiology of addictions. The role of cytokines in the development/therapy of depressive disorders. New trends in the treatment of Alzheimer's and Parkinson's disease. New achievements in chemosensory. Other achievements in neurobiology.

Prerequisites and co-requisites

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
exam	51.0%	100.0%

Recommended reading

Basic literature	Materials (review and experimental works in English and Polish) selected depending on the topic of a given lecture, provided by the lecturer and/or proposed by students.
Supplementary literature	N/A
eResources addresses	

Example issues/ example questions/ tasks being completed

Work placement

Not applicable

Document generated electronically. Does not require a seal or signature.