

Subject card

Learning outcomes	Course outcome	Subject outcome	Method of verification		
	[BIOLMEDL3_U11] is able to use language specialized for medical biology in a way that is clear and accessible to both specialists and non-specialists alike	can use language specialized in medical biology in a way that is understandable and accessible to both specialists and non-specialists	[SU1] oral statement/conversation/discussion		
	[BIOLMEDL3_W16] explains the theoretical basis of experimental methods and lists the most important techniques of biological sciences that can be applied to medical biology and diagnostics	lists the most important techniques used in protein analysis, explains the theoretical basis of these methods and indicates their application in medical biology and diagnostics	[SW4] test/exam - oral or written		
	[BIOLMEDL3_U05] synthesises data from different sources and draws appropriate conclusions from them	synthesizes data from various sources and draws appropriate conclusions on this basis	[SU1] oral statement/conversation/discussion		
	[BIOLMEDL3_U09] has the ability to give oral presentations in Polish or English on specific issues in medical biology	has the ability to give oral presentations in Polish on specific issues related to the use of the discussed methods	[SU1] oral statement/conversation/discussion		
	[BIOLMEDL3_W12] is oriented in the development and current state of knowledge and the latest trends in medical biology; indicates their relationship with other disciplines of natural or medical sciences	is familiar with the development and current state of knowledge and the latest trends in the field of biochemical analysis methods used in medical biology; indicates their relationship with other disciplines of natural or medical sciences	[SW4] test/exam - oral or written [SW1] oral statement/conversation/discussion		
	[BIOLMEDL3_K03] is aware of his/her own limitations and knows when to seek expert assistance	is aware of his own limitations and knows when to turn to experts	[SK8] observation of student's independent or team work		
Subject contents	[BIOLMEDL3_K01] understands the need for lifelong learning and to update his/her knowledge of medical biology and related disciplines	understands the need for lifelong learning and updating knowledge in the field of medical biology and related disciplines	[SK1] oral statement/conversation/discussion [SK8] observation of student's independent or team work		
	[BIOLMEDL3_U15] learns independently, in a focused manner	learns to independently design experiments and interpret results in a targeted way	[SU3] text preparation/written work [SU4] test/exam - oral or written		
Subject contents	The aim of the exercises is to expand students' knowledge regarding the scope of application of the discussed techniques. Based on current scientific publications, exemplary applications of selected techniques in cognitive and diagnostic research will be discussed.				
Prerequisites and co-requisites	general and analytical chemistry; organic chemistry; knowledge of the structure and function of proteins and nucleic acids as well as basic biological processes occurring in the cell				
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade		
	test 2	51.0%	40.0%		
	term work	51.0%	20.0%		
	test 1	51.0%	40.0%		
Recommended reading	Basic literature	Kraj A., Drabik A., Silberring J. (2010) Proteomika i metabolomika, Wydawnictwa Uniwersytetu Warszawskiego and articles in specialized journals			
	Supplementary literature	articles in specialized journals			
	eResources addresses	Adresy na platformie eNauczanie:			
Example issues/ example questions/ tasks being completed					
Work placement	Not applicable				

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