

Subject card

Subject name and code	Basic of medical immunology, PG_00153624						
Field of study	Biotechnology						
Date of commencement of studies	October 2024	Academic year of realisation of subject			2024/2025		
Education level	Master's studies	Subject group			Obligatory subject group 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 English		
Semester of study	2	ECTS credits			2.0		
Learning profile	academic	Assessment form					
Conducting unit							
Name and surname of lecturer (lecturers)	Subject supervisor		prof. dr hab. Marcin Okrój				
	Teachers		prof. dr hab. Marcin Okrój dr Grzegorz Stasiójć dr Małgorzata Stasiójć				
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	15.0	0.0	0.0	15
	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	15		5.0		30.0	50
Subject objectives	The aim of the course is to familiarize the student with basic laboratory techniques used for functional assessment of selected components of the immune system and for purification/production of molecular tools for the above tests. Additionally, the student receives knowledge on the safety of working with potentially infectious materials of human and animal origin.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[BIOTECHMU2_U02] The graduate is able to collect and interpret empirical data; use statistical methods and IT tools in data analysis; formulate conclusions based on empirical data	Student provides the interpretation of obtained results of functional assays.	[SU4] test/exam - oral or written
	[BIOTECHMU2_K05] The graduate is willing to adhere to the principles of work safety, in particular laboratory work; be responsible for his/her own safety and that of others; behave in an appropriate manner in an emergency	Student respects the safety rules for working with potentially contagious material.	[SK4] test/exam - oral or written
	[BIOTECHMU2_U01] The graduate is able to do laboratory work; plan and carry out an experiment; document activities and results; use complex techniques and research tools under the supervision of a tutor in laboratory work; operate laboratory equipment; apply the principles of occupational health and safety; understand the dangers of working in a laboratory	Student performs functional assessment of selected components of the immune system	[SU4] test/exam - oral or written
	[BIOTECHMU2_K02] The graduate is willing to work in a team, in particular, to jointly carry out laboratory work	Student performs functional assays and purification of antibodies in the framework of team work with other students within the group.	[SK4] test/exam - oral or written
[BIOTECHMU2_U05] The graduate is able to use English language in the scope enabling the understanding of statements and reading with comprehension of literature and scientific studies in the fields of science and scientific disciplines relevant to biotechnology; is able to prepare a short written study and an oral presentation in English	The student uses the exercise instructions in English and completes the final test in English.	[SU4] test/exam - oral or written	
Subject contents	<ol style="list-style-type: none"> 1. Safety rules for working with blood-derived material 2. Purification of antibodies by affinity chromatography 3. Immunoenzymatic assays ELISA 4. Cytotoxic CDC assays 		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	single-choice final test	51.0%	100.0%
Recommended reading	Basic literature	Laboratory instructions provided to students before the class.	
	Supplementary literature	Manual for antibody purification	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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