University of Gdańsk

Subject card

Subject name and code	SElected aspects of immunology, PG_00192258		
Field of study	Biotechnology		
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 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 Laboratory course is given in English
Semester of study	2	ECTS credits	2.0
Learning profile	academic	Assessment form	credit
Conducting unit			
Name and surname of lecturer (lecturers)	Subject supervisor	prof. dr hab. Marcin Okrój	
	Teachers		

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_K02] The graduate possesses competences to collaborate in the implementation of research work and work in a team.	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_K05] The graduate complies with occupational health and safety rules, especially when working in the laboratory; is responsible for his/her own safety and the safety of others; is able to react to hazards.	Student respects the safety rules for working with potentially contagious material.	[SK4] test/exam - oral or written
[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 asssays.	[SU4] test/exam - oral or written
[BIOTECHMU2_U01] The graduate possesses the skills necessary to design and conduct laboratory research, critically assessing risks, method limitations, and ethical implications of undertaken activities.	Student performs functional assessment of selected components of the immune system	[SU4] test/exam - oral or written
[BIOTECHMU2_U05] The graduate has proficient knowledge of English to understand statements and read and understand literature and scientific studies in the fields of science and scientific disciplines relevant to biotechnology; is able to prepare a 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

1. Safety rules for working with blood-derived matrial

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	

Example issues/ example questions/ tasks being completed

Work placement

Not applicable

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