

Subject card

Subject name and code	Fundamental cell and molecular immunology, PG_00196842						
Field of study	Biology						
Date of commencement of studies	October 2026	Academic year of realisation of subject			2027/2028		
Education level	Bachelor'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	2	Language of instruction			Polish		
Semester of study	4	ECTS credits			2.0		
Learning profile	academic	Assessment form			credit		
Conducting unit							
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Dorota Żurawa-Janicka				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	0.0	0.0	0.0	30
	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	30		3.0		17.0	50
Subject objectives	Understanding the mechanisms of the immune response at the molecular level						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[BIOLL3_K01] The graduate is prepared to evaluate his/her own knowledge, understand the need for continuous learning and development, and is open to new ideas		- zna ograniczenie własnej wiedzy i rozumie potrzebę stałego uczenia się, aktualizowania wiedzy z zakresu immunologii (B_K01)		[SK1] oral statement/conversation/discussion		
	[BIOLL3_U08] The graduate is able to learn independently, in a focused manner		- learns independently, in a directed way (B_U08)		[SU4] test/exam - oral or written		
	[BIOLL3_U06] The graduate can read with comprehension scientific biological texts in Polish and simple texts in English		- reads with understanding scientific biological texts in the field of immunology Polish and simple texts in English (B_U06)		[SU1] oral statement/conversation/discussion [SU4] test/exam - oral or written		
Subject contents	Introduction to immunology, including cells and tissues of the immune system, structure of antigens, structure of antibodies, passive and active immunization. Mechanisms of innate immunity. Presentation of antigens to lymphocytes. Antigen recognition. Rearrangement of immunoglobulin and TCR receptor genes. Activation of B and T lymphocytes. Effector phase of the immune response. Selected issues in immune disorders, including AIDS, autoimmune diseases, allergy, as well as cancer immunology and transplantology.						
Prerequisites and co-requisites	Completion of courses: General Biochemistry, Genetics. Knowledge of the structure and properties of basic types of biological macromolecules, molecular mechanisms of the flow of genetic information and the regulation of its expression.						

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
		final test	51.0%
Recommended reading	Basic literature	Literature used during classes: Abbas et al. Cellular and Molecular Immunology. 10th Ed. Elsevier Inc. 2022. Male et al. Immunology. 9th Ed. Elsevier Inc. 2020. Original and review articles from scientific journals Literature for self-learning: Abbas et al. Immunologia - funkcje i zaburzenia układu immunologicznego. Red. wyd. pol. J. Żeromski. Edra Urban & Partner. 2015. Lydyard et al. Immunologia. Krótkie wykłady. Wydawnictwo Naukowe PWN. 2012. Gołąb et al. Immunologia. Wydawnictwo Naukowe PWN. 2017. .	
	Supplementary literature	Review articles on basic immunology from scientific journals	
	eResources addresses		
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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