

Subject card

Subject name and code	Basic immunology, PG_00183143						
Field of study	Biology						
Date of commencement of studies	October 2023		Academic year of realisation of subject		2025/2026		
Education level	Bachelor's studies		Subject group		Optional subject group		
Mode of study	full-time studies		Mode of delivery		at the university		
Year of study	3		Language of instruction		English English		
Semester of study	6		ECTS credits		2.0		
Learning profile	academic		Assessment form		credit		
Conducting unit	Faculty of Biology -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Dorota Żurawa-Janicka				
	Teachers		dr hab. Dorota Żurawa-Janicka				
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	0.0	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		10.0		15.0	40
Subject objectives	Understanding the mechanisms of immunity at the molecular and cellular levels						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
			The graduate: presents the structure of the elements of the immune system and describes the role of individual elements (genes, proteins, cells) in immune processes (B_W03) understands the mechanisms leading to the development of specific immune response to bacteria and viruses (B_W04) reads and understands scientific texts in the field of immunology (B_U06) learns independently, in a directed way (B_U08) Knows the limits of her/his own knowledge and understands the need of continuous learning and updating the knowledge in the field of immunology (B_K01)		[SW4] test/exam - oral or written [SW1] oral statement/conversation/discussion [SU1] oral statement/conversation/discussion [SK1] oral statement/conversation/discussion		

Subject contents	Introduction to immunobiology including cells and tissue of the immune system, overview of immune responses, leukocyte circulation, active and passive immunity		
	Innate immunity including function of dendritic cells, receptors for molecular patterns, complement system		
	Recognition and presentation of antigen: MHC and T cell receptors		
	Lymphocyte development and antigen receptor gene rearrangement		
	Differentiation and function of T cells, T cell-mediated immunity		
	B cell activation and antibody production		
	Mechanisms of humoral immunity		
	Disorders of the immune system		
Prerequisites and co-requisites	Courses containing the basics of molecular biology, biochemistry and microbiology		
	Knowledge of the structure, properties and functions of basic biological macromolecules, molecular mechanisms of the flow of genetic information, basic knowledge of the structure and biochemistry of microorganisms		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	final test	51.0%	100.0%
Recommended reading	Basic literature	Abbas et al. Cellular and Molecular Immunology. 10 th Ed. Elsevier Inc. 2022.	
		Male et al. Immunology. Elsevier Inc. Urban & Partner 2008.	
		Murphy et al. Janeways Immunobiology. 9th Ed. Garland Science 2017.	
		Scientific articles (handed out during course)	
	Supplementary literature		
	eResources addresses		
Example issues/ example questions/ tasks being completed	1. Which cell type forms an important link between the innate immune response and the adaptive immune response?		
	A. Dendritic cell; B. Neutrophil; C. B cell; D. T cell		
	2. True or False: Both T-cell and B-cell receptors undergo the process of affinity maturation in order to acquire progressively higher affinity for an antigen during an immune response.		
Work placement	Not applicable		

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