University of Gdańsk

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

<table>
<tr><td>Subject contents</td><td>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</td></tr>
<tr><td>Prerequisites and co-requisites</td><td>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</td></tr>
<tr><td>Assessment methods and criteria</td><td><table><tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr><tr><td>final test</td><td>51.0%</td><td>100.0%</td></tr></table></td></tr>
<tr><td>Recommended reading</td><td><table><tr><td>Basic literature</td><td>Abbas et al. Cellular and Molecular Immunology. 10th 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)</td></tr><tr><td>Supplementary literature</td><td></td></tr><tr><td>eResources addresses</td><td></td></tr></table></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td>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.</td></tr>
<tr><td>Work placement</td><td>Not applicable</td></tr>
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