

Subject card

Subject name and code	Basics of immuno-oncology and cancer immunotherapy, PG_00117659						
Field of study	Medical Biology						
Date of commencement of studies	October 2024	Academic year of realisation of subject			2025/2026		
Education level	postgraduate studies	Subject group			Obligatory subject group in the field of study Optional subject group		
Mode of study	full-time studies	Mode of delivery			at the university		
Year of study	2	Language of instruction			Polish		
Semester of study	3	ECTS credits			1.0		
Learning profile	academic	Assessment form					
Conducting unit	Pracownia Biochemii Białek i Kwasów Nukleinowych -> Katedra Biochemii Ogólnej i Medycznej -> Faculty of Biology						
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	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		2.0		8.0	25
Subject objectives	Understanding the role of the immune response in oncogenesis at the cellular and molecular levels and the strategies used in cancer immunotherapy						
Learning outcomes	Course outcome		Subject outcome			Method of verification	
	[BIOLMEDMU2_W01] has an in-depth knowledge of scientific fields and disciplines relevant to medical biology and the studied specialty and knows their main development trends		- has in-depth knowledge of cancer immunology and knows the main research trends in cancer immunotherapy (BM2_W01)			[SW4] test/exam - oral or written [SW1] oral statement/conversation/discussion	
	[BIOLMEDMU2_K02] is ready to recognize the importance of knowledge in solving cognitive and practical problems and to seek expert advice when having difficulty solving a problem on his own		- is ready to recognize the importance of knowledge in solving cognitive and practical problems and to seek the opinion of experts in case of difficulties in solving the problem independently (BM2_K02)			[SK1] oral statement/conversation/discussion	
	[BIOLMEDMU2_U01] can proficiently, but critically, use the scientific literature and databases necessary in the activities of medical biology and related disciplines		- uses scientific literature in the field of medical biology, including immuno-oncology, fluently but critically (BM2_U01)			[SU1] oral statement/conversation/discussion [SU4] test/exam - oral or written	
	[BIOLMEDMU2_W03] knows the structure and functions of the human body, biological causes of disorders, lesions and social dysfunctions, and methods of their evaluation using biochemical, molecular, parasitological or neurobiological methods		- knows the structure, properties and functions of the elements of the immune system, understands the processes of specific and non-specific immune response and their relationship with oncogenesis (BM2_W03)			[SW4] test/exam - oral or written [SW1] oral statement/conversation/discussion	

Subject contents	Introduction to cancer immunology, including tumor-associated antigens, specific and non-specific elements of the anti-tumor response. Immunological mechanisms promoting oncogenesis. Cancer immunotherapy: specific immunotherapy, anticancer vaccines, specific monoclonal antibodies, adoptive T-cell therapy; non-specific methods, including those based on cytokines and immunostimulants. Immunotherapy targeting immune checkpoints. Immunotherapy in the treatment of selected cancers.		
Prerequisites and co-requisites	Completion of courses: Biochemistry, Basics of molecular and cellular immunology. 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%	100.0%
Recommended reading	Basic literature	<p>The lecture is an original study of issues related to cancer immunology and currently used experimental and clinical strategies for cancer treatment. The lecture was prepared on the basis of research and review articles and experience from research on the biology of cancer and diseases resulting from immune system dysfunction.</p> <p>Other sources:</p> <p>Cellular and Molecular Immunology, Abbas et al., 10th Ed., Elsevier Inc. 2022.</p> <p>Immunology. Male et al., Elsevier Inc. Urban & Partner, 2008.</p> <p>Janeways Immunobiology, Murphy et al., 9th Ed. Garland Science, 2017.</p> <p>Immunoonkologia, Wysocki et al. via Medica, 2019</p> <p>Original and review articles from scientific journals</p>	
	Supplementary literature	Original and review articles from scientific journals	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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