University of Gdańsk

Subject card

Subject name and code	Clinical immunology, PG_00203350		
Field of study	Medical Biology		
Date of commencement of studies	October 2026	Academic year of realisation of subject	2028/2029
Education level	Bachelor's studies	Subject group	Obligatory subject group in the field of study Optional subject group 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	3	Language of instruction	Polish
Semester of study	5	ECTS credits	3.0
Learning profile	academic	Assessment form	credit
Conducting unit	Department of General and Medical Biochemistry -> Faculty of Biology -> Rector		
Name and surname of lecturer (lecturers)	Subject supervisor	dr n. med. Marlena Typiak	
	Teachers		

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	0.0	30.0	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	6.0	39.0	75

Subject objectives

familiarizing students with the clinical picture and pathophysiology of selected diseases caused by immunological disorders, indication of the role of immunogenetics in selected diseases and transplantology, preparing the student to work in a specialized medical team, indicating the possibility of combining scientific research with the diagnostics of certain immunological disorders; tracing the relationship between individual immunological defects and a specific clinical picture

Learning outcomes

Course outcome	Subject outcome	Method of verification
[BIOLMEDL3_W04] has advanced knowledge of medical biology and its latest developments, and is familiar with and understands issues related to the role of medical biology in human health care	possesses fundamental knowledge in the field of clinical immunology and is familiar with specialized terminology	[SW1] oral statement/ conversation/discussion [SW2] presentation/project/paper/ report [SW5] implementation of a problem task
[BIOLMEDL3_U10] learns independently and in a focused manner, and is able to set priorities and organise the work of a small team, as well as work effectively within a team	Learns topics in the field of clinical immunology independently, under the guidance of a teacher	[SU1] oral statement/conversation/ discussion
[BIOLMEDL3_K07] The student is able to apply the principles of bioethics in an informed manner and is prepared to carry out honest and reliable academic and professional work	understands the need for honesty and integrity in scientific and professional work	[SK8] observation of student's independent or team work
[BIOLMEDL3_K03] is ready to form opinions about individuals, social groups, and the organization of individual and team work; independently undertakes and initiates simple research activities	can form opinions about individuals and social groups in the context of the profession of a medical biologist	[SK8] observation of student's independent or team work
[BIOLMEDL3_K02] is aware of their own limitations and knows when to turn to experts who have the resources, technologies and knowledge to provide certainty on a given topic, save time and avoid mistakes	is aware of own limitations and knows when to turn to experts, is critical of research results, evaluates them through the prism of concern for the patient's well-being	[SK8] observation of student's independent or team work
[BIOLMEDL3_W08] has an advanced understanding of the development and current state of knowledge and the latest trends in medical biology; indicates their relationship with other disciplines of natural or medical sciences	is familiar with the development and current state of the art and the latest trends in clinical immunology, indicates their relationship with other disciplines of natural or medical sciences	[SW1] oral statement/ conversation/discussion [SW2] presentation/project/paper/ report [SW5] implementation of a problem task
[BIOLMEDL3_W10] has an advanced understanding of the principles of assessing processes and phenomena occurring within the body, using physical or chemical measurements, and possesses advanced knowledge of experimental methods and the key techniques of the biological sciences that may be applied in medical biology and diagnostics	explains the theoretical basis of experimental methods and lists the most important techniques that can be used in immunology and immunogenetics	[SW1] oral statement/ conversation/discussion [SW2] presentation/project/paper/ report [SW5] implementation of a problem task
[BIOLMEDL3_U06] is able to identify problems corresponding to the needs of an individual and a social group and to undertake diagnostic, preventive and educational activities appropriate to the profession of medical biologist	is able to cooperate with the medical team using specialist terminology, analyses the diagnostic possibilities in a given clinical case and proposes the choice of further diagnostic route	[SU1] oral statement/conversation/ discussion
[BIOLMEDL3_U08] is able to give oral presentations in Polish or English on specific topics in medical biology and can use specialist medical biology terminology in a way that is clear and accessible to both specialists and non-specialists	has the ability to speak in Polish or English on specific issues of clinical immunology	[SU1] oral statement/conversation/ discussion

	Course outcome	Subject outcome	Method of verification
	[BIOLMEDL3_W02] has an advanced knowledge and understanding of the structure of the animal or human body, processes and functional relationships at the cellular, tissue, organ and organismal levels, as well as physiological and biochemical processes at an advanced level, and the mechanisms of the pathophysiology of diseases, and explains their relationship with behaviour and the organism's	knows the structure and functions of immune system cells in various human organs; knows and understands the pathophysiological processes of selected diseases associated with defects of the immune system	[SW1] oral statement/ conversation/discussion [SW2] presentation/project/paper/ report [SW5] implementation of a problem task
Subject contents	Flow cytometry and other methods used in clinical immunology; antibody determination; assessment of cellular response, phagocytosis, complement system; immunogenetics		
Prerequisites and co-requisites	Completed courses on the topics: Propaedeutics of internal diseases, Basics of cellular and molecular immunology		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	presentation/group work	51.0%	40.0%
	correct answers to questions	51.0%	60.0%
Recommended reading	Basic literature	Clinical immunology, H. Chapel et al., ed. Grzegorz Senatorski, ed. Czelej 2009;Immunology, ed. J. Gołąb, M. Jakóbisiak et al., ed. PWN 2012	
	Supplementary literature	Cellular and Molecular Immunology, A.Abbas et al., Elsevier, 2021	
	eResources addresses		
Example issues/ example questions/ tasks being completed	Based on the materials provided by the teacher and other available sources, prepare a multimedia presentation in the group, including the characteristics of artificial (plastic) monoclonal antibodies and their use.		
Work placement	Not applicable		

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