University of Gdańsk

Subject card

Subject name and code	Clinical immunology, PG_00203351						
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	2.0			
Learning profile	academic		Assessment form	exam			
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	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		4.0		16.0	50
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 diagnosis of selected clinical cases, tracing the relationship between individual immunological defects and a specific clinical picture						

Learning outcomes

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	[SW4] test/exam - oral or written
[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 an instructor	[SU1] oral statement/conversation/ discussion
[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	[SW4] test/exam - oral or written
[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	[SW4] test/exam - oral or written
[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	has basic knowledge of clinical immunology, knows specialist terminology	[SW4] test/exam - oral or written
[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
[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

Subject contents

Topics of the lecture:Clinical picture and pathophysiology of selected diseases caused by immunological disorders, including: primary immunodeficiencies, autoimmune diseases, interactions of the microbiome and the immune system, immune response against cancer, reproductive disorders, allergy and anaphylaxis. Disease syndromes in immunology. Therapy with immunoglobulin preparations, biological treatment basics and application. Introduction to transplantology, selected immunogenetic issues. Active and passive immunization.

<table>
<tr><td>Prerequisites and co-requisites</td><td colspan="3">Completed courses on the topics: Propaedeutics of internal diseases, Basics of cellular and molecular immunology.

Basic knowledge of human anatomy, physiology, internal diseases and basic immunology.</td></tr>
<tr><td>Assessment methods and criteria</td><td colspan="3"><table><tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr><tr><td>written test</td><td>51.0%</td><td>100.0%</td></tr></table></td></tr>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td colspan="2">Literature required to finally pass the course (pass the exam):

Clinical immunology, H. Chapel et al., ed. Grzegorz Senatorski, ed. Czelej 2009;

Immunologia, ed. J. Gołąb, M. Jakóbisiak et al., ed. PWN 2012</td></tr>
<tr><td>Supplementary literature</td><td colspan="2">Cellular and Molecular Immunology, A.Abbas et al., Elsevier, 2021</td></tr>
<tr><td>eResources addresses</td><td colspan="2"></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td colspan="3">The immune system will respond inflammatoryly to:a. autologous and syngeneic transplantb. autologous and isogenic transplantc. allogeneic and xenogeneic transplantd. none of the answers are correct</td></tr>
<tr><td>Work placement</td><td colspan="3">Not applicable</td></tr>
</table>

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