University of Gdańsk

Subject card

Subject name and code	Specialization laboratory III, PG_00203408		
Field of study	Medical Biology		
Date of commencement of studies	October 2026	Academic year of realisation of subject	2027/2028
Education level	Master's studies	Subject group	Obligatory subject group in the field of study Optional subject group Specialty 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	2	Language of instruction	Polish
Semester of study	3	ECTS credits	13.0
Learning profile	academic	Assessment form	credit
Conducting unit	Department of Medical Biology and Genetics -> Faculty of Biology -> Rector		
Name and surname of lecturer (lecturers)	Subject supervisor	prof. dr hab. Anna Herman-Antosiewicz	
	Teachers		

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	0.0	0.0	150.0	0.0	0.0	150

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	150	50.0	125.0	325

Subject objectives

Acquiring the ability to use research techniques in scientific work; planning and conducting experiments in the laboratory or collecting materials in the field, recording and interpreting data; describing the goals and assumptions of the research project, analyzing the results of the conducted experiments and their discussions.

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[BIOLMEDMU2_W06] knows ethical and legal considerations related to scientific, teaching and implementation activities	Knows the basic ethical and legal conditions related to scientific, teaching and implementation activities	[SW1] oral statement/ conversation/discussion [SW2] presentation/project/paper/ report
	[BIOLMEDMU2_W05] knows knows in-depth understanding the principles of practice based on scientific arguments	Knows the principles of practice based on scientific arguments	[SW1] oral statement/ conversation/discussion [SW2] presentation/project/paper/ report
	[BIOLMEDMU2_W04] knows in-depth understanding the principles of planning research based on the achievements of biological and medical sciences, the principles of operation of equipment and apparatus used in medical biology research, and the principle of interpreting biological phenomena and processes based on empirical data in research work and practical activities	Knows the principles of research planning based on the achievements of biological and medical sciences, the principles of operation of equipment and apparatus used in medical biology research and the principle of interpreting phenomena and processes of biological sciences based on empirical data in research and practical activities	[SW1] oral statement/ conversation/discussion [SW2] presentation/project/paper/ report
	[BIOLMEDMU2_U08] can independently plan and implement his own lifelong learning and guide others in doing so	Can independently plan and implement his lifelong learning and guide others in this area	[SU1] oral statement/conversation/ discussion [SU8] observation of student's independent or team work
	[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	Recognizes the importance of knowledge in solving cognitive and practical problems and seeks the opinion of experts in case of difficulties in solving the problem independently	[SK1] oral statement/conversation/ discussion [SK8] observation of student's independent or team work
	[BIOLMEDMU2_U06] knows and applies English-language specialized vocabulary of biological and medical sciences in daily professional/scientific activities	Knows and uses English-language specialist vocabulary in the field of biological and medical sciences in everyday professional/scientific activities	[SU1] oral statement/conversation/ discussion [SU2] presentation/project/paper/ report [SU8] observation of student's independent or team work
	[BIOLMEDMU2_U07] is able to show initiative and lead teamwork and cooperate in the planning and implementation of research tasks	Can show initiative and cooperate in planning and implementing research tasks in a team	[SU5] implementation of a problem task [SU8] observation of student's independent or team work
	[BIOLMEDMU2_U02] is able to plan and conduct experiments and measurements based on advanced research techniques and tools, is able to interpret the obtained results and draw conclusions	Can plan and carry out experiments and measurements based on advanced techniques and research tools, can interpret the obtained results and draw conclusions	[SU1] oral statement/conversation/ discussion [SU2] presentation/project/paper/ report [SU5] implementation of a problem task [SU8] observation of student's independent or team work
	[BIOLMEDMU2_U03] is able to formulate and solve problems on the basis of the known laws and methods, including - using computer tools and statistical methods	Is able to formulate and solve problems based on known laws and methods, including using IT tools and statistical methods	[SU1] oral statement/conversation/ discussion [SU2] presentation/project/paper/ report [SU5] implementation of a problem task [SU8] observation of student's independent or team work
	[BIOLMEDMU2_U04] is able to identify errors and omissions in practice	Can identify errors and omissions in practice	[SU1] oral statement/conversation/ discussion [SU2] presentation/project/paper/ report [SU8] observation of student's independent or team work
	[BIOLMEDMU2_K04] takes care of his own safety, the safety of his surroundings and co-workers of certain tasks	Cares about his/her own, surroundings and coworkers' safety	[SK8] observation of student's independent or team work
Subject contents	The content is related to the master's thesis topic and is individually selected. It addresses the issues and methodology of research conducted at the department		
Prerequisites and co-requisites			

<table>
<tr><td>Assessment methods and criteria</td><td colspan="2"><table>
<tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr>
<tr><td>The basis for grading is the completion of a final project: conducting research and properly processing the results (in the form of a report). Laboratory work (the student's systematic approach and commitment to the research) is also assessed.</td><td>51.0%</td><td>100.0%</td></tr>
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<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td>The literature is selected individually depending on the topic of the work and takes into account the scientific achievements of the supervisor and the team with which the student cooperates.</td></tr>
<tr><td>Supplementary literature</td><td>Additional literature is independently searched by the student in literature databases (including PubMed, BIOSIS, Science Direct, Scirrus).</td></tr>
<tr><td>eResources addresses</td><td></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td colspan="2"></td></tr>
<tr><td>Work placement</td><td colspan="2">Not applicable</td></tr>
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