University of Gdańsk

Subject card

Subject name and code	Seminar I - Experimental publications in molecular biology and biotechnology , PG_00153612		
Field of study	Biotechnology		
Date of commencement of studies	October 2026	Academic year of realisation of subject	2026/2027
Education level	Master'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	1	Language of instruction	English
Semester of study	1	ECTS credits	3.0
Learning profile	academic	Assessment form	credit
Conducting unit	Intercollegiate Faculty of Biotechnology UG-MUG -> Rector		
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. Andrea Lipińska	
	Teachers		

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	0.0	0.0	0.0	0.0	30.0	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	5.0	40.0	75

Subject objectives

The student will acquire in-depth knowledge of current scientific problems and the importance of these issues in biotechnology. The student is to be able to speak and read with understanding the literature on the issues discussed and to prepare an oral and multimedia presentation on these issues. Master the use of scientific language, including specialised terminology and conceptual apparatus appropriate to the issues discussed.

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[BIOTECHMU2_U05] The graduate has proficient knowledge of English to understand statements and read and understand literature and scientific studies in the fields of science and scientific disciplines relevant to biotechnology; is able to prepare a written study and an oral presentation in English.	Student czyta ze zrozumieniem anglojęzyczne publikacje naukowe z zakresu biotechnologii i nauk medycznych, identyfikując cel badań, zastosowaną metodykę oraz najważniejsze wyniki i wnioski. Posługuje się specjalistyczną terminologią w języku angielskim właściwą dla biotechnologii i nauk medycznych podczas omawiania publikacji naukowych. Przygotowuje i przedstawia prezentację ustną w języku angielskim dotyczącą publikacji naukowej z zakresu biotechnologii, prezentując główne założenia, metody i wyniki badań.	[SU2] presentation/project/paper/ report
	[BIOTECHMU2_U07] The graduate is able to prepare and present in Polish and/or English an oral presentation covering detailed issues in the field of biotechnology using scientific language, including specialist terminology and conceptual apparatus; conduct discussions.	The student characterizes and interprets research objectives, experimental methods, and results described in biotechnology publications. Critically analyzes experimental data presented in scientific publications (e.g., graphs, tables, methodological diagrams), and draws conclusions regarding the significance of the research, using appropriate scientific language and terminology relevant to biotechnology and medical sciences. The student engages in a scientific discussion of the presented research, formulating questions, arguments, and comments regarding the methodology and interpretation of results.	[SU1] oral statement/conversation/ discussion [SU2] presentation/project/paper/ report
	[BIOTECHMU2_U06] The graduate is able to prepare, in a targeted manner in Polish and / or English, a written study, a scientific publication in the field of biotechnology using scientific language, including specialist terminology and conceptual apparatus.	The student prepares and presents a seminar presentation on an experimental publication in the field of biotechnology and medical sciences, maintaining the structure typical of scientific presentations. Uses the conceptual framework of biotechnology and medical sciences when presenting and discussing scientific publications.	[SU3] text preparation/written work
	[BIOTECHMU2_U04] The graduate possesses the ability to proficiently use scientific information, including English, regarding biotechnology; critically analyses and selects information; uses electronic sources; has the ability to use appropriate databases.	The student searches for scientific publications in the field of biotechnology and medical sciences, primarily in English, in specialized databases and other electronic sources of scientific information. They select scientific literature, selecting publications relevant to the research problem being analyzed. They critically analyze the content of scientific publications, assessing the credibility of sources, the research methodology used, and the significance of the obtained results.	[SU2] presentation/project/paper/ report
Subject contents	During the first course, students will learn about the principles of publishing scientific research results in scientific journals with particular emphasis on the so-called Philadelphia list and methods of ranking journals. Knowledge of the characteristics and diversity of scientific journals will be deepen by the students' independent search for information on a selected journal and preparation of a short multimedia presentation. The content of the program depends on the specific scientific interests and research carried out by individual teacher. Depending on the group selection, the program covers issues related to nucleic acid metabolism, proteolysis and biology of extra-chromosomal genetic elements, functional genomics, modern methods of mapping genes underlying functional traits and human diseases, issues related to medical biotechnology, with particular emphasis on immunization processes, host-pathogen interactions of microorganisms and molecular and cell biology of cancer, and other issues described in current experimental scientific papers.		
Prerequisites and co-requisites			

<table>
<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>Presentation</td><td>51.0%</td><td>80.0%</td></tr>
<tr><td>Activity in class</td><td>51.0%</td><td>20.0%</td></tr>
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<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td colspan="2">A set of sample publications in English in the form of PDF files for students participating in the seminar, as well as literature in Polish and English selected from electronic and library resources studied independently by the student, including experimental publications covering the results of the faculty members' own research</td></tr>
<tr><td>Supplementary literature</td><td colspan="2">None</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"></td></tr>
<tr><td>Work placement</td><td colspan="3">Not applicable</td></tr>
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