University of Gdańsk

Subject card

Subject name and code	Specialization laboratory, PG_00000989		
Field of study	Genetics and Experimental Biology		
Date of commencement of studies	October 2023	Academic year of realisation of subject	2025/2026
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	5.0
Learning profile	academic	Assessment form	credit
Conducting unit			
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. Marcin Górniak	
	Teachers	dr hab. Krzysztof Banaś dr Aleksandra Hać mgr Julia Chylińska dr n. med. Anna Pawlik dr Tomasz Wenta dr Dorota Gregorowicz-Warpas prof. dr hab. Ewa Laskowska dr hab. Dorota Żurawa-Janicka prof. dr hab. Tadeusz Namiotko dr hab. Lidia Gaffke prof. dr hab. Stefan Tukaj prof. dr hab. Grzegorz Węgrzyn dr Beata Guzow-Krzemińska dr Sebastian Dorawa dr Małgorzata Kapusta prof. dr hab. Iwona Mruk dr hab. Magdalena Płotka prof. dr hab. Katarzyna Potrykus dr Ziemowit Ciepielewski dr hab. Jan Kaczor dr hab. Anna Aksmann	

Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM

	Number of study hours	0.0	0.0	60.0	0.0	0.0	60
	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	60	0.0	0.0	60

Subject objectives

Introduction of students to research methods and tools used in experimental scientific work in the field of genetics and related disciplines. Acquisition of skills in developing a research plan, as well as in analyzing research results and presenting them concisely, including in English.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[GBEL3_U08] The graduate is able to: study the literature independently and plan your own career path	Student is able to independently study the literature and plan their own professional career path.	[SU2] presentation/project/paper/ report
[GBEL3_U01] The graduate is able to: independently perform practical tasks in the biological and related sciences, formulate research problems, analyse their results and draw conclusions.	Student is able to independently perform simple practical tasks in the field of biological sciences and related disciplines, formulate research problems, analyze their results, and draw conclusions.	[SU8] observation of student's independent or team work
[GBEL3_W07] A graduate has an advanced knowledge and understanding of: principles for presenting results and raising funds for research and its commercialisation	Student has knowledge of the basic principles of presenting results and obtaining funding for research and its commercialization, and is able to independently propose a simple research or research and development project.	[SW2] presentation/project/paper/ report
[GBEL3_W05] A graduate has an advanced knowledge and understanding of: principles for planning research based on the achievements of biological sciences and related disciplines and the possibility of putting their results into practice, principles for the operation of equipment and apparatus used in molecular genetics research, and the principle of interpreting biological phenomena and processes based on empirical data in research work and practical action, taking into account the sustainable use of biodiversity	Student has knowledge of the principles of planning research based on achievements in the biological sciences and related disciplines, the possibilities of applying their results in practice, the principles of operation of equipment and instrumentation used in molecular genetics research, as well as the principle of interpreting biological phenomena and processes based on empirical data in research work and practical activities, with consideration of the sustainable use of biological diversity.	[SW5] implementation of a problem task
[GBEL3_K02] The graduate is prepared to: critically evaluate their own knowledge and methods in molecular biology and related fields and commercialise their research.	Student is prepared to critically evaluate their own knowledge and methods in the field of molecular biology and related disciplines, as well as the commercialization of research.	[SK1] oral statement/conversation/ discussion
[GBEL3_K01] The graduate is prepared to: use of theoretical knowledge in laboratory and production practice	Student is prepared to apply theoretical knowledge in laboratory and industrial practice.	[SK2] presentation/project/paper/ report

Subject contents

Practical application of research methods used in genetics and related disciplines. Planning and carrying out research tasks under the supervision of a supervisor. Techniques for preparing scientific materials. Principles of planning and conducting a scientific experiment. Rules for using available scientific resources.

<table>
<tr><td>Prerequisites and co-requisites</td><td>Course completion requirements:
1. Students are required to attend classes; any absence must be justified in accordance with the Study Regulations of the University of Gdańsk.
2. A minimum attendance of 85% of classes is required to pass the practical classes.
3. Students are obliged to make up for any deficiencies in knowledge and skills resulting from absences in the manner and within the timeframe specified by the course instructor.
The basis for course completion includes:
Completion of experimental tasks planned by the supervisor in a field specific to the department selected by the student.</td></tr>
<tr><td>Assessment methods and criteria</td><td><table>
<tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr>
<tr><td>Completion of experimental tasks planned by the supervisor in a field specific to the department selected by the student.</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>Current international scientific journals indicated by the supervisor.</td></tr>
<tr><td>Supplementary literature</td><td>Current international scientific journals indicated by the supervisor.</td></tr>
<tr><td>eResources addresses</td><td></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td>None.</td></tr>
<tr><td>Work placement</td><td>Not applicable</td></tr>
</table>

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