University of Gdańsk

Subject card

Subject name and code	Specialization laboratory, PG_00166140		
Field of study	Genetics and Experimental 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	4.0
Learning profile	academic	Assessment form	credit
Conducting unit	Laboratory of Genetics/ Genetics Laboratory -> Department of Evolutionary Genetics and Biosystematics -> Faculty of Biology -> Rector		
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. Marcin Górniak	
	Teachers		

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	10.0	30.0	100

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_K01] The utilization of theoretical knowledge in laboratory and production practice.	Student is prepared to apply theoretical knowledge in laboratory and industrial practice.	[SK5] implementation of a problem task
[GBEL3_U08] Independently study literature and plan one's own career path.	Student is able to independently study the literature and plan their own professional career path..	[SU2] presentation/project/paper/ report
[GBEL3_K02] Critical assessment of one's own knowledge and methods in the field of molecular biology and related disciplines, as well as the commercialization of 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_W05] the principles of research planning based on achievements in biological sciences and related fields, the potential application of their results in practice, the principles of 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 and practical activities, with consideration for sustainable use of biological diversity.	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_W07] the principles of presenting research results and acquiring funding for research and its commercialization.	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_U01] Independently perform practical tasks in the field of biological sciences and related disciplines, formulate research problems, analyze 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

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.

Prerequisites and co-requisites

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.

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
Completion of experimental tasks planned by the supervisor in a field specific to the department selected by the student.	51.0%	100.0%

Recommended reading

Basic literature	Current international scientific journals indicated by the supervisor.
Supplementary literature	Current international scientific journals indicated by the supervisor.
eResources addresses	

Example issues/ example questions/ tasks being completed	
Work placement	Not applicable

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