

Subject card

Subject name and code	Diploma laboratory, PG_00154601						
Field of study	Genetics and Experimental Biology						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2027/2028		
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	6		ECTS credits		8.0		
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	90.0	0.0	0.0	90
	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	90		45.0		65.0	200
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_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 research results in practice, the principles of operation of equipment and instrumentation used in molecular genetics research, as well as the interpretation of biological phenomena and processes based on empirical data in research work and practical activities, with consideration of the sustainable use of biological diversity.	[SW1] oral statement/conversation/discussion [SW5] implementation of a problem task
	[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.	[SU6] demonstration of practical skills [SU8] observation of student's independent or team work
	[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 [SK6] demonstration of practical skills
	[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 issues related to the commercialization of research.	[SK5] 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 (R&D) project.	[SW2] 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 mentor. 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: - Students are required to attend classes; any absence must be justified in accordance with the Study Regulations of the University of Gdańsk. - A minimum attendance of 85% of classes is required to pass the practical classes. - Students are obliged to make up for any deficiencies in knowledge and skills resulting from absences independently, in the manner and within the timeframe specified by the course instructor. The basis for course completion includes: - Completion of experimental tasks in a field specific to the department chosen by the student, and passing a test covering the knowledge related to these tasks. - Preparation of a diploma thesis in the form of a research or research-and-development project, based on materials provided by the thesis supervisor. - Presentation of a summary (abstract) of the thesis in English.		

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Assessment of the student's laboratory/independent work.	51.0%	50.0%
	Assessment of the diploma thesis.	51.0%	50.0%
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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