

Subject card

Subject name and code	Diploma laboratory, PG_00154601						
Field of study	Genetics and Experimental Biology						
Date of commencement of studies	October 2024		Academic year of realisation of subject		2026/2027		
Education level	Bachelor's studies		Subject group		Obligatory subject group in the field of study Optional subject group		
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	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_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.	The 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.	[SK5] implementation of a problem task
	[GBEL3_K01] The utilization of theoretical knowledge in laboratory and production practice.	The student is prepared to apply theoretical knowledge in laboratory and production practice.	[SK5] implementation of a problem task [SK6] demonstration of practical skills
	[GBEL3_U08] Independently study literature and plan one's own career path.	The student is able to study literature independently and plan their own professional career path.	[SU2] 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.	The student is able to independently carry out simple practical tasks in the field of biological and related sciences, formulate research problems, analyze results, and draw conclusions.	[SU6] demonstration of practical skills [SU8] observation of student's independent or team work
	[GBEL3_W07] the principles of presenting research results and acquiring funding for research and its commercialization.	The student knows the basic principles of presenting research results and obtaining funding for research and its commercialization. They are able to independently propose a simple research or research-and-development project.	[SW2] presentation/project/paper/report
Subject contents	[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.	The student understands the principles of research planning based on the achievements of biological sciences and related fields, as well as the potential practical applications of research results. They are familiar with the functioning of equipment and instruments used in molecular genetics research, and understand how to interpret biological phenomena and processes based on empirical data in both research and practical activities, taking into account the sustainable use of biological diversity.	[SW1] oral statement/conversation/discussion [SW5] implementation of a problem task
	Practical application of research methods used in genetics and related fields. Planning and conducting research tasks under the supervision of a mentor. Techniques for preparing scientific materials. Principles of planning and conducting scientific experiments. 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.		
	Subject passing criteria	Passing threshold	Percentage of the final grade
	Assessment of the diploma thesis.	51.0%	50.0%
	Assessment of the student's laboratory/independent work.	51.0%	50.0%
Assessment methods and criteria			

Recommended reading	Basic literature	Weiner J. 2006. Techniki pisania i prezentowania przyrodniczych prac naukowych. Przewodnik praktyczny. PWN, Warszawa. Wojciechowski T., Doktor G. 1999. Jak pisać prace dyplomowe licencjackie i magisterskie: poradnik. WSZIM, Warszawa.
	Supplementary literature	Normando, D. (2014). Writing a scientific paper: Where to start from?. Dental Press Journal of Orthodontics, 19, 1 - 1. https://doi.org/10.1590/2176-9451.19.1.001-001.edt .
	eResources addresses	
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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