

Subject card

Subject name and code	Scientific research at the Intercollegiate Faculty of Biotechnology UG&MUG, PG_00153605						
Field of study	Biotechnology						
Date of commencement of studies	October 2024	Academic year of realisation of subject			2024/2025		
Education level	postgraduate studies	Subject group			Obligatory subject group in the field of study		
Mode of study	full-time studies	Mode of delivery			at the university		
Year of study	1	Language of instruction			Polish		
Semester of study	1	ECTS credits			1.0		
Learning profile	academic	Assessment form					
Conducting unit							
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Andrea Lipińska				
	Teachers		dr hab. Andrea Lipińska				
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	0.0	0.0	0.0	15
	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	15	0.0	10.0	25		
Subject objectives	The aim of the course is to acquaint students with research projects carried out at the Faculty which will allow them to select research group, in which they will develop their scientific interests and realize their future Masters project.						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[BIOTECHMU2_K03] The graduate is willing to plan and organise his/her own work effectively, in particular laboratory work; plan an individual professional career	Effectively plans his/her work, professional career, organizes his/her work, in particular in the lab or concerning reviews in the field of biotechnology and related scientific areas and disciplines.			[SK3] text preparation/written work		
	[BIOTECHMU2_K01] The graduate is willing to constantly improve, update knowledge and raise qualifications in the field of biotechnology, he/she knows the limitations of his/her own knowledge	Knows limitations of his/her knowledge, is willing to constantly upgrade and update his/her knowledge and raise qualifications within the field of biotechnology and related scientific areas and disciplines.			[SK3] text preparation/written work		
	[BIOTECHMU2_W04] The graduate knows and understands selected problems of biotechnology currently discussed in the literature	Has knowledge of selected problems in biotechnology currently discussed in the literature.			[SW3] text preparation/written work		
	[BIOTECHMU2_U08] The graduate is able to learn independently, effectively plan and organize work independently or as part of a team	Learns independently, plans effectively and organises work independently or as part of a team.			[SU3] text preparation/written work		

Subject contents	<p>- To deepen knowledge of the biochemistry and biotechnology of plant lipids. In particular, concerning the genes related to lipid metabolism; determining their expression, determining the biochemical and physiological function of the proteins they encode, determining the effect of their overexpression and exclusion, etc.</p> <p>- To gain additional insights into the application of molecular biology tools in the diagnosis of human metabolic, cancer and infectious diseases, and projects related to the diagnosis and photodynamic therapy of bacterial infections and cancer.</p> <p>- Developing research on the use of beneficial (antagonistic) bacteria or substances produced by them in the protection of plants against bacterial pathogens. Search for bacteria antagonistic to Dickey's and Pectobacterium pathogens and characterisation of the factors determining this antagonism.</p>		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Attendance	0.0%	50.0%
	Written justification	0.0%	50.0%
Recommended reading	Basic literature	None	
	Supplementary literature	None	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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