

Subject card

Subject name and code	Research at IFB, PG_00153678						
Field of study	Biotechnology						
Date of commencement of studies	October 2024	Academic year of realisation of subject				2025/2026	
Education level	undergraduate studies	Subject group					
Mode of study	full-time studies	Mode of delivery				at the university	
Year of study	2	Language of instruction				Polish	
Semester of study	3	ECTS credits				1.0	
Learning profile	academic	Assessment form					
Conducting unit	Instytut Biotechnologii UG -> Intercollegiate Faculty of Biotechnology UG-MUG						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Mariusz Grinholc				
	Teachers						
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		15.0	30
Subject objectives	The aim of the course is to familiarise students with research projects carried out in the Faculty, allowing them to choose a research group in which to develop their scientific interests and prepare a research project.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[BIOTECHL3_K01] The graduate is willing to know the limitations of his/her own knowledge and skills; constantly improve, update knowledge, and raise qualifications in biotechnology in the science and natural sciences, as well as medical sciences and health sciences		BIOTECHL3_K01 Recognises the limitations of his/her own knowledge and skills; demonstrates a willingness to continuously improve, update knowledge and enhance qualifications in biotechnology in the fields of science and life sciences and medical and health sciences.		[SK3] text preparation/written work		
	[BIOTECHL3_K02] The graduate is willing to work in a team, in particular to carry out joint laboratory work.		BIOTECHL3_K02 Is ready to work in a team, in particular to carry out laboratory work together.		[SK3] text preparation/written work		

Subject contents	Presentations of research projects by MWB UG and GUMed research teams on, among others: <ul style="list-style-type: none"> - molecular and structural biology of chaperone proteins and nucleic acids. - biochemistry and biotechnology of plant lipids - application of molecular biology tools in the diagnosis of human metabolic, cancer and infectious diseases - diagnostics and photodynamic therapy to combat bacterial infections and tumours - use of beneficial (antagonistic) bacteria or substances produced by them to protect plants against bacterial and fungal pathogens - the search for biologically active compounds of plant origin and other compounds (synthetic peptides, silver nanoparticles, etc.) to combat human and plant pathogens - ecology, molecular biology and interaction of bacteriophages with host cells - mechanisms determining the development of disease processes caused by bacteria on plants 			
Prerequisites and co-requisites				
Assessment methods and criteria	Subject passing criteria		Passing threshold	Percentage of the final grade
	Written justification		0.0%	50.0%
	Attendance		0.0%	50.0%
Recommended reading	Basic literature		Publications by academic teachers of the faculty - literature independently searched by the student	
	Supplementary literature		None	
	eResources addresses		Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed				
Work placement	Not applicable			

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