

Subject card

Subject name and code	Principles of molecular and cellular biology, PG_00120419						
Field of study	Marine Biotechnology						
Date of commencement of studies	October 2024	Academic year of realisation of subject			2024/2025		
Education level	postgraduate studies	Subject group					
Mode of study	full-time studies	Mode of delivery			at the university		
Year of study	1	Language of instruction			English		
Semester of study	1	ECTS credits			2.0		
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. Andrea Lipińska				
	Teachers		dr hab. Andrea Lipińska				
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	0.0	0.0	0.0	30
	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	30	5.0	20.0	55		
Subject objectives	Reinforcement of knowledge in cell and molecular biology and extension with advanced knowledge necessary for understanding molecular processes used in biotechnology and the appropriate methodology, with examples of marine organisms. The student will reinforce and expand their knowledge of the structure and genetics of pro- and eukaryotic cells, stages and regulation of gene expression, protein maturation, and more. The student will be able to propose manipulations in those processes for biotechnological purposes, including the use of marine-derived products.						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[MBMU2-KW02] Has advanced knowledge of the possibilities of biotechnological use of marine resources	The student possesses advanced knowledge about the potential for biotechnological utilization of marine resources, with particular emphasis on molecular processes used in genetic engineering and marine biotechnology.			[SW4] test/exam - oral or written [SW2] presentation/project/paper/report [SW5] implementation of a problem task		
	[MBMU2-KW03] Knows and understands complex biological phenomena at the molecular level, understands their significance for an organism, marine environment and marine biotechnology	The student possesses advanced knowledge about the potential for biotechnological utilization of marine resources, with particular emphasis on molecular processes used in genetic engineering and marine biotechnology.			[SW4] test/exam - oral or written		
	[MBMU2-KW04] Knows and deeply understands advanced research methods used in marine biotechnology and related sciences	The student knows and deeply understands advanced research methods used in the study of molecular processes within marine biotechnology and related sciences.			[SW4] test/exam - oral or written		

Work placement	Not applicable
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