GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	, PG_00059425		
Field of study	Biotechnology		
Date of commencement of studies	February 2022	Academic year of realisation of subject	2022/2023
Education level	second-cycle studies	Subject group	
Mode of study	Full-time studies	Mode of delivery	at the university
Year of study	1	Language of instruction	Polish no remarks
Semester of study	2	ECTS credits	2.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Department of Microbiology -> Faculty of Chemistry		
Name and surname of lecturer (lecturers)	Subject supervisor	prof. dr hab. inż. Paweł Sachadyn	
	Teachers		

Lesson types and methods of instruction

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	5.0	0.0	0.0	0.0	0.0	5

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	5	0.0	0.0	5

Subject objectives

The lecture aims to present the achievements and perspectives of regenerative biotechnology.

Learning outcomes

Course outcome	Subject outcome	Method of verification
K7_K02	The student understands the importance of the achievements of regenerative biotechnology and regenerative medicine.	[SK2] Assessment of progress of work
K7_W05	The student possesses knowledge of the molecular basis of regenerative processes and therapies.	[SW1] Assessment of factual knowledge

Subject contents

Goals of regenerative biotechnology

Tools of regenerative biotechnology

Achievements of regenerative biotechnology

Perspectives of regenerative biotechnology

Prerequisites and co-requisites

Individual Research Studies

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
Assessment of the knowledge of problems and possibilities of regenerative biotechnology	60.0%	100.0%

Recommended reading

Basic literature	Yannas, I.V., 2014. *Tissue and organ regeneration in adults: extension of the paradigm to several organs*. Springer.
Supplementary literature	Carlson, B.M. ed., 2011. *Principles of regenerative biology*. Elsevier.
eResources addresses	

Example issues/ example questions/ tasks being completed	Induced pluripotent stem cells Animal models of regeneration Adult stem cells Cell-based regenerative therapies Tissue engineering Pharmacoregeneration Narządy bioniczne
Work placement	Not applicable