


KAPITAŁ LUDZKI
 NARODOWA STRATEGIA SPÓJNOŚCI

 Projekt współfinansowany przez
 Unię Europejską w ramach
 Europejskiego Funduszu
 Społecznego

UNIA EUROPEJSKA
 EUROPEJSKI
 FUNDUSZ SPOŁECZNY


Course title		ECTS code	
Monographic lecture - Medical biotechnology		13.4.0108	
Name of unit administrating study			
null			
Studies			
faculty	field of study	type	drugiego stopnia
Wydział Chemii	Chemia	form	stacjonarne
		specjalty	wszystkie
		specialization	wszystkie
Teaching staff			
dr hab. Agnieszka Żylicz-Stachula, profesor uczelni			
Forms of classes, the realization and number of hours		ECTS credits	
Forms of classes		3	
Lecture		classes - 30 h	
The realization of activities		tutorial classes – 15 h	
classroom instruction		student's own work – 30 h	
Number of hours		Total: 75 h - 3 ECTS	
Lecture: 30 hours			
The academic cycle			
2023/2024 summer semester			
Type of course		Language of instruction	
obligatory		polish	
Teaching methods		Form and method of assessment and basic criteria for evaluation or examination requirements	
<ul style="list-style-type: none"> - multimedia-based lecture - problem-focused lecture - •Individual consultation •Individual student's work 		Final evaluation	
		Graded credit	
		Assessment methods	
		presentation, written test	
		The basic criteria for evaluation	
		Lecture: knowledge of the issues discussed during the lecture	
Method of verifying required learning outcomes			
Required courses and introductory requirements			
A. Formal requirements			
none			
B. Prerequisites			
none			
Aims of education			
Presenting all the issues mentioned in the course contents.			
Course contents			
applications of stem cells in medical biotechnology; tissue engineering and regenerative medicine; production of bioscaffolds and new biomaterials; proteomics as a tool to identify new therapeutic goals; pharmacogenetics and pharmacogenomics; recombinant vaccines; examples of gene therapy; applications of antibodies in biotechnology and immunotherapy; perspectives of medical biotechnology, ethical controversies			
Bibliography of literature			
Literature required to pass the course			
Monographic works provided by assistants leading classes			
Extracurricular readings			

The learning outcomes (for the field of study and specialization)	Knowledge Student knows and characterizes current possibilities, limitations, perspectives and the anticipated trends in medical biotechnology. Student gives examples of applications of the recombinant nucleic acids and proteins in medical biotechnology. Student is familiar with medical biotechnology legislation.
	Skills Student discusses issues related to the course content (in a correct and understandable way, in speech and in writing).
	Social competence Student recognizes the important role and broad spectrum of issues related to modern medical biotechnology. Student understands the need for further curiosity and education in this area
	Contact a.zylicz-stachula@ug.edu.pl