


KAPITAŁ LUDZKI
 NARODOWA STRATEGIA SPÓJNOŚCI

 Projekt współfinansowany przez
 Unię Europejską w ramach
 Europejskiego Funduszu
 Społecznego

UNIA EUROPEJSKA
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 FUNDUSZ SPOŁECZNY


Course title		ECTS code	
Animal cell cultures		not defined	
Name of unit administrating study			
Studies			
faculty	field of study	type	first tier studies (BA), second tier studies (MA)
Faculty of Biology	Medical Biology	form	full-time
		specjalty	all
		specialization	all
Faculty of Biology	Biology	type	first tier studies (BA), second tier studies (MA)
		form	full-time
		specjalty	all
Faculty of Biology	Genetics and Experimental Biology	type	first tier studies (BA)
		form	full-time
		specjalty	all
Faculty of Biology	Natural Resources Conservation	type	first tier studies (BA)
		form	full-time
		specjalty	all
		specialization	all
		form	full-time
		specjalty	all
		specialization	all
		form	full-time
		specjalty	all
Teaching staff			
dr Anna Kloska; dr hab. Wojciech Pokora, profesor uczelni			
Forms of classes, the realization and number of hours		ECTS credits	
Forms of classes		2	
Lecture		(a) in contact with the teacher:	
The realization of activities		- participation in the lecture: 15 hours	
classroom instruction, online classes		- consultations 1 hour	
Number of hours		- course credit: 2 hours	
Lecture: 15 hours		b) The unassisted student's work:	
		- preparing for the assessment test: 15 hours	
		TOTAL: 33 hours	
The academic cycle			
2022/2023 summer semester			
Type of course		Language of instruction	
an elective course		english	
Teaching methods		Form and method of assessment and basic criteria for evaluation or examination requirements	
multimedia-based lecture		Final evaluation	
		Graded credit	
		Assessment methods	
		• mid-term and end-term test	
		• graded course credit based on individual grades obtained during the semester	
		The basic criteria for evaluation	

	<p>I. Requirements for passing the course</p> <p>1. Lecture</p> <p>The graded credit includes the material from the lecture and the material indicated by the lecturer.</p> <p>The test consists of multiple choice and open-ended questions.</p> <p>The final grade is based on the percentages indicated in the current UG Academic Regulations.</p> <p>II. Participation in classes:</p> <p>The student is obliged to attend the classes and in case of absence, it should be excused following UG Academic Regulations.</p> <p>The condition to pass the lecture is the presence in at least 80% of classes.</p> <p>The student is obliged to complete the lack of knowledge and skills caused by absence from classes in the manner and time indicated by the Lecturer.</p>
Method of verifying required learning outcomes	
Required courses and introductory requirements	
<p>A. Formal requirements</p> <p>B. Prerequisites</p> <p>basic knowledge of the eukaryotic cell</p>	
Aims of education	
<p>To introduce the methods of animal cell isolation and in vitro culture, demonstrate the techniques of handling animal cell lines, and discuss basic cell-based assays.</p>	
Course contents	
<p>A. Lecture</p> <ol style="list-style-type: none"> 1. Equipment of animal cell and tissue culture laboratory 2. Culture conditions, media, materials, methods used for culture 3. Types of animal cell cultures in vitro 4. Primary cultures and cell lines 5. Three-dimensional and tissue cultures 6. Cell culture contaminations and troubleshooting 7. Application of animal cell culture 8. Cell-based assays 	
Bibliography of literature	
<ul style="list-style-type: none"> • Capes-Davis, A., Freshney, R.I., (2021) Freshneys Culture of Animal Cells: A Manual of Basic Technique and Specialized Applications, John Wiley & Sons Inc • Segeritz, C. P., & Vallier, L. (2017). Cell Culture: Growing Cells as Model Systems In Vitro. Basic Science Methods for Clinical Researchers, 151–172. https://doi.org/10.1016/B978-0-12-803077-6.00009-6 • Langhans SA (2018) Three-Dimensional in Vitro Cell Culture Models in Drug Discovery and Drug Repositioning. Front. Pharmacol. 9:6. Doi: 10.3389/fphar.2018.00006 	
The learning outcomes (for the field of study and specialization)	Knowledge
	Skills
	Social competence
Contact	
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