

Subject card

Subject name and code	Bioinorganic chemistry, PG_00049918						
Field of study	Chemistry						
Date of commencement of studies	October 2024	Academic year of realisation of subject			2025/2026		
Education level	postgraduate studies	Subject group			Obligatory subject group in the field of study		
Mode of study	full-time studies	Mode of delivery			at the university		
Year of study	2	Language of instruction			Polish none		
Semester of study	3	ECTS credits			1.0		
Learning profile	academic	Assessment form					
Conducting unit	Katedra Chemii Bionieorganicznej -> Faculty of Chemistry						
Name and surname of lecturer (lecturers)	Subject supervisor		prof. dr hab. Mariusz Makowski				
	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						
	Additional information: Lecture with multimedia presentation						
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	2.0	8.0	25		
Subject objectives	to make students familiar with problems occurring at the border of chemical, biological and medical sciences introduction of basic and specialized information from biochemistry (in particular information about the role played in living organisms by bioelements, ions of selected metals, metal compounds)						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[CHEMMU2_W01] Uses knowledge of spectroscopic methods of chemical compound analysis.		student solves problems with basic and more advanced concepts in the field of bioinorganic chemistry		[SW4] test/exam - oral or written [SW5] implementation of a problem task		
	[CHEMMU2_K01] Knows the limitations of her/his own knowledge; understands the need for further education and can inspire other people to do so.		Observation of the student in terms of the ability to search for scientific studies of the issues discussed in the classes		[SK4] test/exam - oral or written [SK8] observation of student's independent or team work		
	[CHEMMU2_U07] Defines and implements the directions of own further education.		Student solves tasks and deepens learning skills		[SU4] test/exam - oral or written [SU8] observation of student's independent or team work		
Subject contents	the lecture will discuss contents consistent with the latest scientific trends concerning bioinorganic chemistry						

Prerequisites and co-requisites	basic knowledge of inorganic and coordination chemistry		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	written exam with open-ended questions (assignments) 8-20 questions, each graded 1 point	50.0%	100.0%
Recommended reading	Basic literature	L. Stephen, B. Jeremy Podstawy chemii bionieorganicznej R. M. Roat-Malone Bioinorganic Chemistry: A Short Course E. Ochiai Bioinorganic Chemistry: a survey	
	Supplementary literature	Bioinorganic Chemistry and Applications scientific journal	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed	What is a sodium-potassium pump? Indicate the number of ions exchanged during normal operation of the pump.		
Work placement	Not applicable		

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