

Ordinance No. 75/2024

Of June 25, 2024

issued by the Rector of the Medical University of Lodz

on the announcement of recruitment and limit of admissions to

the International Doctoral School and the list of places at the International Doctoral School awarded to research and teaching units of the Medical University of Lodz for the academic year 2024/2025

Pursuant to Article 23 Item 1 of the Act of 20 July 2018 – Law on Higher Education and Science (Journal of Laws of 2023, Item 742, as amended), and § 13 Item 2 and § 12 Item 3 of the Statutes of the Medical University of Lodz of June 27 2019, as amended, in connection with § 6 Item 6 of the Resolution No. 3/2024 of February 1, 2024 adopted by the Senate of the Medical University of Lodz on the procedure of recruitment to the International Doctoral School in the academic year 2024/2025, the following Directive is hereby issued:

§ 1

- 1. The following is hereby announced for the academic year 2024/2025:
 - 1) recruitment to the International Doctoral School, run by the Medical University of Lodz, in the following disciplines: pharmaceutical sciences, medical sciences, health sciences;
 - 2) limit of admissions to the International Doctoral School for each of the disciplines referred to in Point 1, as specified in Appendix No. 1 hereto;
 - 3) list of places at the International Doctoral School awarded to research and teaching units of the Medical University of Lodz, enclosed as Appendix No. 2 hereto.
- The recruitment to the International Doctoral School is conducted for places awarded to research and teaching units of the Medical University of Lodz, within the limit of admissions referred to in Item 1 Point 2.

§ 2

The Directive becomes effective July 2, 2024.

RECTOR: prof. Radzisław Kordek, MD, PhD

Promulgation of the legal act:

- Intranet/Public Information Bulletin

Admission limits to the International Doctoral School conducted by the Medical University of Lodz for the academic year 2024/2025

Discipline	Admiss ion limit	Program "IMPLEMENTAT ION DOCTORATE" admission limit	Competition NCN "PRELUDIUM BIS" admission limit	OPUS
Pharmaceutical Sciences	4	0	0	1
Medical sciences	40	1	1	1
Health Sciences	12	0	0	0

List of places at the International Doctoral School awarded to the University reaserch and teaching units in academic year 2024/2025

	MEDICAL SCIENCES									
No.	Unit	Head of Unit	Number of places	Proposed supervisor	Topic of dissertation	Candidate's profile (completed field of study)				
1	Department of Cell Culture and Genomic Analysis	prof. dr hab. n. med. Agnieszka Piastowska- Ciesielska	2	1. prof. dr hab. n. med. Agnieszka Piastowska- Ciesielska, 2. dr hab. n. med. Aleksandra Piechota- Polańczyk	1. The subject of the research will be to assess the impact of mycotoxins on cellular processes, including oxidative stress in cancer cells and normal cells in conditions reflecting lifestyle diseases such as diabetes or obesity. 2. Search of new molecular switches useful in prognosis and/or therapy of inflammatory bowel diseases and they characterization as symptomatic or asymptomatic disises. The work will consider age-related and gender-related changes.	Pharmacy, Biotechnology, Medicine, Physiotherapy, Veterinary medicine, Biology				
2	Department of Neurosurgery and Oncology of the Nervous System	prof. dr hab. n.med. Dariusz Jaskólski	2	prof. dr hab. n.med. Dariusz Jaskólski	1a. Prospective study of carbohydrate metabolism disorders in patient with prolapsed lumbar disc.	Medicine				

3	Department of	prof. dr hab. n.med.	2	prof. dr hab. n.med.	1b. Retrospective study on outcome in patients intractanial metastases. 1a. Flarimetric analysis of the	Medicine
	Ophthalmology and Sight Rehabilitation	Piotr Jurowski		Piotr Jurowski	aqueous humor of the anterior chamber of the eye during treatment of diabetic macular edema with antiVEGF agents (Alibercept and Faricymab). Prediction of the best intervals between intravitreal injections of antiVEGF in relation to the effectiveness and safety of the procedure, 1b. Efficacy and safety of Bowman layer transplantation of the cornea in the treatment of neurotrophic corneal ulceration.	
4	Department of Internal Diseases and Clinical Pharmacology	prof. dr hab. n. med. Marlena Broncel	1	dr hab. n. med. Paulina Gorzelak-Pabiś	The role of lipoprotein (a) in atherosclerosis cardiovascular diseases complications.	Medicine
5	Department of Maxillofacial Surgery	prof. dr hab. n.med. Marcin Kozakiewicz	2	prof. dr hab. n.med. Marcin Kozakiewicz	 1a. Anatomical evaluation of stereografic models based on computerized tomography of face skeleton 1b. Analysis of treatment results of customized subperiosteal dental implant. 	Medicine
6	Department of Paediatric	prof. dr hab. n.med. Elżbieta Smolewska	1	prof. dr hab. n.med. Elżbieta Smolewska	Assessment of changes in the temporomandibular joints in	Medicine

	Cardiology and Rheumatology				children with juvenile idiopathic arthritis based on imaging tests - correlation with the clinical and laboratory picture and the treatment	
7	Department of Surgical and Oncological Gynaecology	prof. dr hab. n.med. Jacek Wilczyński	1	prof. dr hab. n.med. Jacek Wilczyński	Value of ultrasound examination for diagnosis of adenomyosis and for monitoring of paharmacological therapy efficacy.	Medicine
8	Department of Molecular Neurochemistry	dr hab. n.med. Tomasz Boczek	1	dr hab. n.med. Tomasz Boczek	The role of cAMP/PKA signaling in neuronal survival and regeneration in a model of ischemic optic neuropathy.	Pharmacy, Biotechnology, Physiotherapy, Biology, Medical Analytics
9	Department of Adult Psychiatry	prof. dr hab. n.med. Piotr Gałecki	1	prof. dr hab. n.med. Piotr Gałecki	Biological and bio-psycho-social determinants of recurrent depressive disorders.	Medicine
10	Department of Plastic, Reconstructive and Aesthetic Surgery	prof. dr hab. n. med. Bogusław Antoszewski	1	prof. dr hab. n. med. Bogusław Antoszewski,	The role of of collagen type I and III and fibronectin genes' polymorphisms in etiopathogenesis of carpal tunnel syndrome.	Medicine
11	Department of Haemostasis and Haemostatic Disorders	prof. dr hab. n.med. Cezary Watała	1	prof. dr hab. n.med. Cezary Watała	Sex steroids as modulators of platelet reactivity and the role of mitophagy in platelet response to homocysteine and sex hormones.	Biotechnology, Medical, Biology, Public Health

12	Department of Biochemistry	prof. dr hab. n.med. Jakub Fichna	3	1. prof. dr hab. n.med. Jakub Fichna, 2. prof. dr hab. n. med. Urszula Lewandowska, 3. dr hab. n. med. Marta Zielińska	 Free fatty acids as key element of pathophysiology, factors in prevention and possible biomarkers in the diagnosis and treatment of acute pancreatitis. Evaluation of the chemopreventive potential of plant extracts and their encapsulates in intestinal diseases. Neuroinflammation during inflammatory bowel diseases. 	Pharmacy, Biotechnology, Medicine, Electroradiology, Biology
13	Department of Chemistry and Clinical Biochemistry	prof. dr hab. n.med. Ireneusz Majsterek	1	prof. dr hab. n.med. Ireneusz Majsterek	Small molecule inhibitors of PERK-dependent signaling pathway as a novel therapeutic strategy in neurodegenerative disorders.	Biotechnology
14	Department of Medical Biotechnology	dr hab. n.med. Tadeusz Pietrucha	1	dr hab. n.med. Agata Sakowicz	Molecular mechanism of preeclampsja.	Biotechnology, Pharmacy
15	Department of Comperative Endocrinology	prof. dr hab. n.med. Tomasz Ochędalski	1	dr hab. n. med. Kamila Domińska	The interplay between relaxin-2 and GR-signaling pathway in GC-sensitive and GC-resistance acute lymphoblastic leukemia (ALL) cells	Medicine Biotechnology, Pharmacy
16	Department of Neurology	prof. dr hab. n.med. Mariusz Stasiołek	1	dr hab. n.med. Mariola Świderek-Matysiak	Analysis of clinical course of multiple sclerosis in early onset patients with focus laid on cognitive impairment.	Medicine

17	Department of Radiotherapy	prof. dr hab. n.med. Jacek Fijuth	1	prof. dr hab. n.med. Jacek Fijuth	The use of remote vital function monitors in treatment monitoring of lung cancer patients.	Medicine
18	Department of Neurology and Stroke	prof. dr hab. n.med. Andrzej Głąbiński	1	prof. dr hab. n.med. Andrzej Głąbiński	Study of multiple sclerosis development – interactions between astrocytes and brain endothelium.	Biotechnology
19	Department of Biomolecular Chemistry	dr hab. n.med. Katarzyna Gach- Janczak	3	1. dr hab. n.med. Katarzyna Gach- Janczak, 2. dr hab. n.med. Renata Perlikowska	1a. Evaluation of the anticancer activity of new synthetic analogs based on the structure of natural compounds. 1b. Searching for new peptide ligands with analgesic and anti-inflammatory activity. 2. Searching for compounds with neuroprotective potential	Pharmacy, Cosmetology, Biotechnology, Medical, Electroradiology, Physiotherapy, Medical Analytics, Environmental Protection, Biology, Environmental Engineering, Nursing, Public Health, Dietetics, Microbiology, Medical and Dental, Genetics, Chemistry
20	Department of Affective and Psychotic Disorders	dr hab. n.med. Dominik Strzelecki	1	1. dr hab. n.med. Dominik Strzelecki, (2. Prof. Florian Steger)	The course of Aktion T4 in psychiatric hospitals in Poland during World War II., The course of Aktion T4 in psychiatric hospitals in Poland during World War II.	Medicine

21	Department of Gastrointestinal Diseases	prof. dr hab. n.med. Ewa Małecka- Wojciesko	3	1. prof. dr hab. n.med. Ewa Małecka-Wojciesko, 2. dr hab. n.med. Anna Mokrowiecka, 3. dr hab. n.med. Renata Talar-Wojnarowska,	1. Diagnostic and prognostic pancreatic cancer biomarkers., Protease- Activated 2. Receptors-regulators of inflammatory processes in gastrointestinal diseases. 3. Pathogenesis of extraintestinal manifestations in the course of inflammatory bowel disease.	Medicine
22	Department of General and Oncological Surgery	prof. dr hab. n. med. Łukasz Dziki	2	dr hab. n. med. Marcin Włodarczyk	1a. The Impact of Frailty on EarlyClinical Outcomes in ColorectalCancer Surgery.1b. The Role of Laparoendoscopy inGroin Hernia Surgery for ElderlyPatients	Medicine, Pharmacy, Biotechnology
23	Department of Clinical Physiology	prof. dr hab. n.med. Dariusz Nowak	1	prof. dr hab. n.med. Dariusz Nowak	Movement biomechanic analysis in dancers.	Physiotherapy
24	Department of Pathology	dr n.med. Marcin Braun	2	dr hab. n.med. Hanna Romańska-Knight	1a. Analysis of factors influencing prognosis and progression of breast cancer, including metastases to the CNS and bones, from a multidisciplinary perspective encompassing classical pathology, molecular studies, basic research, and clinical aspects. 1b. Analysis of modern diagnostic and predictive markers in oncologic	Medicine

					hematopathology, utilizing advanced diagnostic markers, digital and molecular pathology tools, and artificial intelligence applications.	
25	Department of Dermatology and Venereology	prof. dr hab. n.med. Anna Woźniacka	1	prof. dr hab. n.med. Agnieszka Żebrowska	The role of semaphorins and their receptors in selected inflamated skin disorders.	Medicine
26	Department of Nucleic Acid Biochemistry	dr hab. n.med. Agnieszka Śliwińska	1	dr hab. n.med. Agnieszka Śliwińska	Hyperglycemia associated DNA repair disturbances in the pathogenesis of pancreatic cancer.	Biotechnology, Biology
27	Department of Functional Genomics	dr hab. n.med. Elżbieta Płuciennik	1	dr hab. n.med. Elżbieta Płuciennik	Merging transcriptomic sequencing data at the single-cell level.	Biotechnology, Biology
28	Department of Dermatology, Paediatric and Oncological Dermatology	prof. dr hab. n.med. Joanna Narbutt	1	prof. dr hab. n.med. Joanna Narbutt	Pathogenesis of autoinflammatory diseases with focus on connective tissue diseases.	Medicine
29	Department of Genetic Cancer Predisposition	dr hab. n. med. Agata Pastorczak	1	dr hab. n. med. Agata Pastorczak	The role of genetic aberrations and imprinting defects of RB1 gene in pathogenesis of childhood hyperdiploid acute lymphoblastic leukemia.	Biotechnology, Laboratory Diagnostics
30	Department of Biomedicine and Experimental Surgery	dr hab. n.med. Zbigniew Pasieka	1	dr hab. n.med. Zbigniew Pasieka	Characteristics and analysis of fatal gunshot wounds in the early postwar years on the example of Łódź and the surrounding area.	Medicine, Pharmacy, Biotechnology

31	Department of Pharmacology and Toxicology	prof. dr hab. n.med. Edward Kowalczyk	1	dr hab. n. med. Michał Karbownik	Extracellular vesicles and secondary metabolites as new therapeutic strategies in neuropsychiatry.	Medicine, Pharmacy
32	Department of Molecular Biology of Cancer	prof. dr hab. n.med. Małgorzata Czyż	1	dr hab. n. med. Mariusz Hartman	Mechanisms of cell death induction in response to targeted drugs and drugs with potential anticancer activity.	Pharmacy, Biotechnology, Biology, Genetics
33	Department of Clinical Genetics	prof. dr hab. n.med. Agnieszka Zmysłowska	2	1. prof. dr hab. n.med. Agnieszka Zmysłowska, 2. dr hab. n. med. Edyta Borkowska,	 Searching for the genetic background of monogenic diabetes based on mitochondrial genome analysis. Genetic differences between primary and metastatic cancer: whole genome sequencing of solid pancreatic tumors to identify predictive markers. 	Medical analytics
34	Rheumatology clinic	dr hab. n.med. Joanna Makowska	1	dr hab. n.med. Anna Lewandowska-Polak	Biomarkers of interstitial lung disease in the course of systemic connective tissue diseases.	Medicine
35	Department of General Pulmonology and Oncology	prof. dr hab. n.med. Adam Antczak	1	prof. dr hab. n.med. Adam Antczak	Biomarkers in diagnosis and response assessment to antifibrotic treatment of interstitial lung diseases	Medicine
36	Department of Immunology and Allergy	dr hab. n.med. Maciej Chałubiński	1	dr hab. n.med. Maciej Chałubiński	Assessment of the ability of human pulmonary vascular endothelium to activate adaptive mechanisms of antiviral immunity during respiratory virus infection.	Medicine Biology Microbiology

37	Department of Prosthodontics	prof. dr hab. n.med. Beata Dejak	1	prof. dr hab. n.med. Beata Dejak	Comparison of fracture resistance of teeth restored with metal post and cores, composite posts reinforced with glass fibers and zirconium oxide ceramics posts.	Medicine, Dental Medicine
38	Department of Old Age Psychiatry and Psychotic Disorders	dr hab. n.med. Jakub Kaźmierski	1	dr hab. n.med. Jakub Kaźmierski	VR-based Avatar Therapy for Treatment of Auditory Hallucinations in Patients with Schizophrenia.	Medicine
39	Department od Pneumonology	prof. dr hab. n. med. Wojciech Piotrowski	2	1. prof. dr hab. n. med. Wojciech Piotrowski, 2. dr hab. n. med. Adam Białas	 The role of eosinophilic inflammation in progression of interstitial lung fibrosis. Predictors of post-hospital mortality in patients after exacerbation of chronic obstructive pulmonary disease (COPD). 	Medicine
40	II Department of Cardiology	prof. dr hab. n.med. Jarosław Drożdż	2	1. prof. dr hab. n.med. Jarosław Drożdż, 2. dr hab. n.med. Katarzyna Piestrzeniewicz,	 Clinical value of stress perfusion disturbances in SPECT without hemodynamically significant stenoses in coronary arteries. Percutaneous closure of patent foramen ovale in a prevention of stroke. 	Medicine
41	Department of Internal Diseases and Diabetology	prof. dr hab. n.med. Katarzyna Cypryk	1	prof. dr hab. n.med. Katarzyna Cypryk	A prospective, randomized study aimed at assessing the impact of education on treatment outcomes in patients with type 1 diabetes using functional insulin therapy with a continuous glucose monitoring system.	Medicine

42	Department of Biomedicine and Genetics	prof. dr hab. n.med. Ewa Brzeziańska- Lasota	1	prof. dr hab. n.med. Ewa Brzeziańska- Lasota	Assessment of selected molecular factors in the etiopathogenesis of carcinogenesis in various types of human cancer.	Pharmacy, Cosmetology, Nursing, Midwifery, Biotechnology, Medical, Physiotherapy
43	Department of Endocrine Disorders and Bone Metabolism	prof. dr hab. n.med. Ewa Sewerynek	1	prof. dr hab. n.med. Ewa Sewerynek	Effects of glucocorticosteroids on bone metabolism in patients with Graves orbitopathy.	Medicine
44	Department of Paediatric Allergology, Gastroenterology and Nutrition	prof. dr hab. n. med. Ewa Toporowska- Kowalska	2	prof. dr hab. n. med. Ewa Toporowska- Kowalska	 1a. Assessment of eating behaviors and diet in children with functional gastrointestinal disorders. 1b. Assessment of esophageal motility in children with eosinophilic esophagitis. 	Medicine
45	Department of Endocrinology and Metabolic Diseases	prof. dr hab. n.med. Małgorzata Karbownik-Lewińska	2	prof. dr hab. n.med. Małgorzata Karbownik- Lewińska	1a. Oxidative damage to macromolecules in patients of childbearing age with subclinical thyroid dysfunction - potential contribution to fertility. 1b. Assessment of quality of life in patients with selected endocrine disorders and its usefulness in optimizing treatment.	Medicine
46	Department of Immunopathology	prof. dr hab. n.med. Rafał Pawliczak	3	1. prof. dr hab. n.med. Rafał Pawliczak, 2. dr hab. n.med. Paulina Kleniewska 3. dr hab. n.med. Joanna Wieczfińska,	 1a. Inflammatory mechanisms in the airways. 1b. Non-classical tobacco products influence on airways. 1c. Air pollutants role in atopic dermatitis. 	Pharmacy, Nursing, Biotechnology, Medicine, Chemistry, Biochemistry, Biology

48	Department of Molecular Mechanisms of Cell Department of Hormone Biochemistry	dr hab. n. med. Katarzyna Sobierajska dr hab. n. med. Anna Stasiak	2	dr hab. n. med. Katarzyna Sobierajska dr hab. n. med. Anna Stasiak	3. ROS and plant drugs in airway inflammation modulation. Investigating Novel Therapeutic Targets for Modulating the Invasive Capacity of Colorectal Cancer 1a. Assessment of the therapeutic potential of newly synthesized multifunctional compounds aimed at the treatment of neurodegenerative diseases (Parkinson's disease, Alzheimer's disease). 1b. Assessment of the incidence of bigorexia and sports addiction among amateur athletes in the Łódź region. An attempt to link predispositions to the development of the above-mentioned disorders with selected biological	Biotechnology, Biochemistry, Biology Pharmacy, Physiotherapy
					determinants (including those related to the dopaminergic system).	
				HEALTH SCIENCES		
No.	Unit	Head of Unit	Number of places	Proposed supervisor	Topic of dissertation	Candidate's profile (completed field of study)

1	Department of Conservative Nursing	dr hab. n. o zdrowiu Ewa Borowiak	2	dr hab. n. o zdrowiu Ewa Borowiak	1a. Occupational burnout of nurses/ midwives/ paramedics/ dieticians/ beauticians.1b. Caregiving for the elderly people during the COVID-19 pandemic.	Nursing Obstetrics
2	Psychosocial Rehabilitation Department	dr hab. n. o zdrowiu Magdalena Wrzesińska	1	dr hab. n. o zdrowiu Magdalena Wrzesińska	Assessment of the effectiveness of a health intervention focused on obesity prevention among industrial and health care workers	Physiotherapy, Psychology, Management in Medical Services, Medicine, Biotechnology, Public Health
3	Department of Cosmetology and Aesthetic Dermatology	prof. dr hab. n.med. Helena Rotsztejn	1	prof. dr hab. n.med. Helena Rotsztejn	Assessment of skin parameters for cosmetological use in a various types of treatment.	Cosmetology, Medicine
4	Department of Emergency and Disaster Medicine	dr hab. n.med. Dariusz Timler	1	dr hab. n.med. Dariusz Timler	Problems associated with suicide attempts.	Psychology
5	Coordinated Care	dr n.med. Katarzyna Wielemborek- Musiał	3	dr hab. n. o zdrowiu Dorota Kilańska	1a. Value-based care for the patient, the system and the payer.1b. Assessment of the effectiveness of nursing care.1c. Assessment of digital competences in health care.	Nursing
6	Department of Preventive Medicine	dr hab. n.med. Magdalena Kwaśniewska	1	dr hab. n. o zdrowiu Anna Lipert,	Elimination diets and physical fitness and cognitive functions in high-intensity training	Dietetics

7	Department of Mangement and Logistics in Health Care	dr hab. n.ekon. Remigiusz Kozłowski	4	 dr hab. n.ekon. Remigiusz Kozłowski, dr hab. Michał Marczak, dr hab. Małgorzata Stricker 	 1a. The issue of taking or not taking resuscitation measures (DNAR) 1b. The use of information and telecommunications technologies in medicine. 2. Risk management in health care, 3.AI in health care, 	Psychology, Public Health, Management and Marketing, Management
8	Department of Sports Medicine	dr hab. n. med. Katarzyna Szmigielska	1	dr hab. n. med. Katarzyna Szmigielska	Assessment of the impact of physical activity on hemodynamic and biochemical indicators of people participating in regular physical activity.	Medical, Dietetics, Physiotherapy
			Р	HARMACEUTICAL SCIENC	CES	
No.	Unit	Head of Unit	Number of places	Proposed supervisor	Topic of dissertation	Candidate's profile (completed field of study)
1	Department of Biology and	dr hab. n.farm. Izabela Grzegorczyk-Karolak	1	dr hab. n.farm. Izabela Grzegorczyk-Karolak	Application of selected	Pharmacy
	Pharmaceutical Botany	,		GIZEGOTEZYK KATOLAK	biotechnological techniques to obtain highly productive in vitro cultures of Salvia atropatana.	
2		dr hab. n.farm. Przemysław Sitarek	1	dr hab. n.farm. Przemysław Sitarek	obtain highly productive in vitro	Pharmacy

4	Department of Pharmaceutical Chemistry, Drug Analysis and Radiopharmacy	prof. dr hab. n.farm. Paweł Szymański	2	prof. dr hab. n.farm. Paweł Szymański	1a. Biological properties of new nano-silicon systems and selected coordination compounds.1b. Assessment of the anticancer properties of new acridine hybrids.	Pharmacy, Biotechnology, Biology, Chemistry	
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List of places at the International Doctoral School awarded to research and teaching units of the Medical University of Lodz for the academic year 2024/2025 in connection with financing from external sources

	MEDICAL SCIENCES								
No.	Unit	Head of Unit	Project	Number of places	Poposed supervisor	Topic of dissertation	Candidate's profile (completed field of study)		
1	Department of Biochemistry	prof. dr hab. n.med. Jakub Fichna	PRELUDIUM BIS 5	1	dr hab. n. med. Maciej Sałaga	The role of free fatt y acid receptors in pathophysiology of the functional gastrointesti nal tract disorders: new therapies for leaky gut syndrome and irritable bowel syndrome.	Pharmacy, Biotechnology, Electroradiology, Medicine		
2	Department of Cell Culture and Genomic Analysis	prof. dr hab. n. med. Agnieszka Piastowska- Ciesielska	IMPLEMENTATION DOCTORATE	1	prof. dr hab. n. med. Agnieszka Piastowska- Ciesielska	Implementation of FGF1 Analogs in the Treatment of Metabolic Syndrome: Research and Application	Pharmacy, cosmetology, Biotechnology, Medical, Electroradiology, Physiotherapy Biology, Chemistry.		
3	Department of Molecular Biology of Cancer	prof. dr hab. n.med. Małgorzata Czyż	OPUS 25	1	dr hab. n. med. Mariusz Hartman	Investigation of the relationship between the sensitivity of melanoma cells to cuproptosis-inducing drugs and the metabolic phenotype of cells, na?ve and modulated by	Biotechnology, biology, genetics.		

			PHARM	ACEUTICAL	SCIENCES	targeted drugs in the short-term and after the development of resistance	
No.	Unit	Head of Unit	Project	Number of places	Poposed supervisor	Topic of dissertation	Candidate's profile (completed field of study)
1	Department of Pharmacodynamics	dr hab. n. farm. Jakub Wojcieszak	OPUS 26	1	dr hab. n. farm. Jakub Wojcieszak	Unravelling the role of FKBP51 (FK506-binding protein 51) in the process of addiction to psychostimulant betacathinone derivative MDPV.	Pharmacy, Biotechnology, Biology, Medical analytics, A different direction, related to the topic of the project, Veterinary medicine.