

Ordinance No. 68/2025

Of June 9, 2025

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 2025/2026

Pursuant to Article 23 Item 1 of the Act of 20 July 2018 – Law on Higher Education and Science (Journal of Laws of 2024, Item 1571, 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. 68/2024 of December 19, 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 2025/2026, the following Directive is hereby issued:

§ 1

- 1. The following is hereby announced for the academic year 2025/2026:
 - 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 1, 2025.

RECTOR: prof. Janusz Piekarski, 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 2025/2026

Discipline	Admiss ion limit	Program "IMPLEMENTAT ION DOCTORATE" admission limit	Competition NCN "OPUS" admission limit	Competition NCN "SONATA" admission limit	Competition NCN "PRELUDIUM BIS " admission limit
Pharmaceutical Sciences	3	1	1	0	0
Medical sciences	45	2	2	3	1
Health Sciences	7	1	1	0	0

List of places at the International Doctoral School awarded to the University reaserch and teaching units in academic year 2025/2026

				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 Pharmaceutical Biochemistry and Molecular Diagnostics	prof. dr hab. n. farm. Ewa Balcerczak	1	prof. dr hab. n. farm. Ewa Balcerczak	Molecular analysis in glioma.	Medical Analytics
2	Department of Oral Pathology	dr hab. n.med. Sebastian Kłosek	1	dr hab. n.med. Sebastian Kłosek	The role of supportive therapy with hyaluronic acid in oral mucosal and periodontal disease.	Medical and dental
3	Department of Plastic, Reconstructive and Aesthetic Surgery	prof. dr hab. n. med. Bogusław Antoszewski	2	1. dr hab. n. med. Anna Kasielska-Trojan 2. dr hab. n. med. Marta Fijałkowska	 Analysis of body-perception in women after reconstructive and aesthetic breast surgery using eye- tracking technology. The effect of platelet-rich-plasma on fat graft survival. 	Medicine
4	Department of Psychodermatology	prof. dr hab. n.med. Anna Zalewska- Janowska	2	prof. dr hab. n.med. Anna Zalewska-Janowska	1a. Employment of Virtual Reality (VR) in dignostics and treatment of chronic diseases of the skin and nervous system.	Medical, Psychology, Pharmacy, Cosmetology,

					1b. Bio-psycho-social model in specialist dermatological and psychodermatological care.	Nursing, Midwifery, Physiotherapy, Biology.
5	Clinic of Internal Medicine and Transplant Nephrology	prof. dr hab. n. med. Ilona Kurnatowska	1	prof. dr hab. n. med. Ilona Kurnatowska	The impact of visceral and subcutaneous fat tissue content assessed through radiological imaging methods on the occurrence of urolithiasis.	Medicine
6	Department of Clinical Genetics	prof. dr hab. n.med. Agnieszka Zmysłowska	1	dr hab. n. med. Edyta Borkowska	Application of digital PCR and liquid biopsy to personalize therapy and monitoring of the disease in patients with solid tumors.	Pharmacy
7	Department of Maxillofacial Surgery	prof. dr hab. n.med. Marcin Kozakiewicz	1	prof. dr hab. n.med. Marcin Kozakiewicz	Qualitative evaluation of bone in osteotomy gaps and the influence of cortical substance on the maintenance of skeletal anchorage.	Dentistry, Medical and dental.
8	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	1a. Early detection of pancreatic cancer (PDAC) with EUS imaging and new biomarkers:PAC-Mann Assay, Chlinesterase, and N-Glucan. 1b. Serach for the new prognostic pancreatic cancer (PDAC) biomarkers 2a. The importance of selected intestinal bacteria in the perception of stress in patients with nonspecific inflammatory bowel diseases - the microbiome-gut-brain pathway. 2b. Early detection of Barrett's esophagus and esophageal cancer using the Cytosponge Cell Collection Device.	Medicine

					3. Clinical significance of selected biomarkers for predicting exacerbation of inflammatory bowel diseases.	
9	Department of Orthopaedics and Traumatology	prof. dr hab. n.med. Marcin Domżalski	2	prof. dr hab. n.med. Marcin Domżalski	1a. Miniinvasive consrevative therapy of osteoarthritis of the knee.1b. Multifactorial analysis of treatment methods and mortality after proximal femur fractures.	Medicine
10	Department of Paediatrics, Nephrology and Immunology	prof. dr hab. n.med. Marcin Tkaczyk	1	prof. dr hab. n.med. Marcin Tkaczyk	Study of respiratory function in children with severe congenital urinary tract abnormalities.	Medicine
11	Department of Biomedicine and Genetics	prof. dr hab. n.med. Ewa Brzeziańska- Lasota	2	1. prof. dr hab. n.med. Ewa Brzeziańska-Lasota 2. dr hab. n. med. Karolina Czarnecka- Chrebelska	1. Assesment of the relationship between Fusobacterium nucleatum infection and the activation of the TGF?/SMAD signaling pathway and its epigenetic regulation in intestinal cancer- is there a relationship with cancer progression? 2. SCFAs and their potential therapeutic use in the microbiota gutbrain axis disorders.	Biotechnology, Medical, Biology, Medicine
12	Department of Hemostasis Disorders	prof. dr hab. n.med.		prof. dr hab. n.med.	Haemostasis disorders in blood	Medicine
		Jacek Treliński	1	Jacek Treliński	diseases.	
13	Department of Biomolecular Chemistry	dr hab. n.med. Katarzyna Gach- Janczak	3	 dr hab. n.med. Katarzyna Gach-Janczak dr hab. n.med. Renata Perlikowska 	Study of the anticancer potential of new synthetic heterocyclic compounds.	Pharmacy, Cosmetology, Biotechnology, Medical,

				3. dr hab. n. med. Justyna Piekielna- Ciesielska	2. Peptides in the regulation of cellular processes: therapeutic potential. 3. Searching for new peptide ligands with analgesic and anti-inflammatory activity.	Chemistry, Medical Analytics, Electroradiology, Physiotherapy, Biology, Environmental protection, Environmental protection engineering, Nursing, Public health, Genetics, Microbiology, Dietetics.
14	Department of Non-				1a. Impact of iron deficiency in all	Medicine
	Invasive Cardiology	prof. dr hab. n.med.		prof. dr hab. n.med.	spectrum of heart failure. 1b. New prognostic algorithms	
		Małgorzata Lelonek	2	Małgorzata Lelonek	including AI in heart failure.	
15	Department of	3		J	1a. Analysis of central nervous system	Biotechnology
	Functional Genomics				tumors based on deconvolution	
					methods and predictive algorithms. 1b. Functional characterization of AP-2	
		dr hab. n.med.		dr hab. n.med. Elżbieta	transcription factors family using in	
		Elżbieta Płuciennik	2	Płuciennik	silico analyses and molecular research.	
16	Department of			-	1. The activity of the JAK/STAT	Medicine
	Surgical and				pathway and its potential role in the	
	Oncological				treatment of endometriosis.	
	Gynaecology			1. prof. dr hab. n.med.	2. Value of ultrasound examination for	
				Jacek Wilczyński	diagnosis of adenomyosis and for	
		prof. dr hab. n.med.		2. dr hab. n.med. Maria	monitoring of pharmacological therapy	
		Jacek Wilczyński	2	Szubert	efficacy.	

17	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	 Molecular mechanisms in airway inflammation. The probiotics role in inflammation regulation. Oxidative stress in airway inflammation. 	Cosmetology, Nursing, Midwifery, Biotechnology, Medical, Electroradiology, Laboratory Medicine, Biochemistry, Biology, Chemistry
18	Department of Biochemistry	prof. dr hab. n.med. Jakub Fichna	4	1. prof. dr hab. n. med. Urszula Lewandowska 2. prof. dr hab. n.med. Jakub Fichna	1a. Evaluation of the anticancer potential of natural extracts in 3D cell culture models. 1b. Evaluation of the antiinflammatory potential of natural extracts in 3D cell culture models. 2a. Dietary habits in patients with Parkinson's disease - role in the course and therapy of the disease. 2b. Study of the mechanisms of metastasis in colorectal cancer with liver metastases.	Biotechnology, Medical, Biology, Pharmacy, Dietetics.
19	Department of Cell Culture and Genomic Analysis	prof. dr hab. n. med. Agnieszka Piastowska- Ciesielska	1	dr hab. n. med. Aleksandra Piechota- Polańczyk	Search for new mechanical and hemodynamic markers for analyzing the progression of aortic aneurysms before and after surgical repair, using numerical tools including artificial intelligence models	Pharmacy, Nursing, Physiotherapy, Biotechnology, Medical, Biology, Medical Engineering, Veterinary.
20	Department of General and	prof. dr hab. n.med. Janusz Strzelczyk	1	prof. dr hab. n. med. Adam Durczyński	Evaluation of bacteriological tests results and multifactorial analysis oc clinical and patophysiological	Medicine

	Transplantation				parameters in patients operated for	
	Surgery				appendicitis.	
21	Department of Biomedicine and Experimental Surgery				1a. Implementation of tools for developing therapeutic prototypes using computational methods. 1b. Abdominal injuries in the context of postoperative complications.	Medical, Biotechnology, Pharmacy, Materials Engineering, Chemistry,
				1. dr hab. n.med. Zbigniew Pasieka	2. Evaluation of the relationship between the properties of the selected polysaccharide and its antimicrobial activity, confirmation of the safety and biological activity of the biomaterial based on the polysaccharide with precisely defined properties in in vitro	Biomedical Engineering.
		dr hab. n.med.		2. dr hab. inż. Radosław	and in vivo studies towards its	
		Zbigniew Pasieka	3	Wach	potential use in wound healing.	
22	Department of Infectious Diseases and Hepatology					Medicine
		prof. dr hab. n.med.		prof. dr hab. n.med.	Elstographic evaluation of the spleen	
		Anna Piekarska	1	Anna Piekarska	as a prognostic of liver cirrhosis.	
23	Department of Pathology of Pregnancy and Gynaecology					Medicine
		prof. dr hab. n.med.		prof. dr hab. n.med. Piotr	Obesity and diabetes as risk factors of	
		Piotr Sieroszewski	1	Sieroszewski	late-onset pre-eclampsia.	

24	Department of Chemistry and Clinical Biochemistry	prof. dr hab. n.med. Ireneusz Majsterek	1	prof. dr hab. n.med. Ireneusz Majsterek	Studying the neuroplasticity model of attention deficit hyperactivity disorder in vitro.	Medicine, Biotechnology, Pharmacy
25	Department of Haemostasis and Haemostatic Disorders	prof. dr hab. n.med. Cezary Watała	2	1. prof. dr hab. n.med. Cezary Watała 2. dr hab. n. med. Tomasz Przygodzki	 The effect of antipsychotic drugs on platelet activation and reactivity in patients with schizophrenia. Monitoring of the procoagulant phenotype of platelets in various pathological conditions characterized by increased risk of cardiovascular disease. 	Pharmacy, Biotechnology and all fields of study with a biological-medical profile of education
26	Clinic of Neurosurgery, Spine Surgery and Peripheral Nerves	dr hab. n.med. Maciej Radek	1	dr hab. n.med. Maciej Radek	Analysis of risk factors for delirium in the perioperative period in patients surgically treated for spinal diseases.	Medicine
27	Department of Internal Diseases and Clinical Pharmacology	prof. dr hab. n. med. Marlena Broncel	1	prof. dr hab. n. med. Marlena Broncel	Effect of Lp(a) on the development of polyarteriosclerosis and vascular endothelial dysfunction.	Medicine
28	Immunology and Allergy Clinic	dr hab. n.med. Maciej Chałubiński	2	1. dr hab. n. med. Aleksandra Wardzyńska 2. dr hab. n.med. Marcin Kurowski	1. The influence of biological treatment of severe bronchial asthma on the immunological mechanisms of inflammation and antiviral response. 2. Assessment of the inflammatory process in the respiratory tract in adults with food allergy.	Medicine
29	Department of Genetic Cancer Predisposition	dr hab. n. med. Agata Pastorczak	1	dr hab. n. med. Agata Pastorczak	Whole-genome identification of structural variants and sequence mutations predisposing to acute lymphoblastic leukemia in children	Biotechnology, Laboratory Diagnostics.

					uniformly treated according to AEIOP-BFM 2017 protocol.	
30	Department of				1. The use of cladribine in the	
	Haematology				treatment of acute myeloid leukemia	
					with particular focus on IDH1 and IDH2	
					mutations – an in vitro study.	
					2. Clinical and molecular factors	
					determining the effectiveness of	
				1. prof. dr hab. n.med.	treatment of chronic lymphocytic	
				Agnieszka Wierzbowska	leukemia and its aggressive variants.	
				2. dr hab. n. med.	3. The assessment of immunological	
		prof. dr hab. n.med.		Bartosz Puła	system in bacterial infection in acute	
		Agnieszka		3. dr hab. n. med.	myeloid leukemia patients with	
		Wierzbowska	3	Agnieszka Pluta	posttreatment aplasia.	Medicine
31	Department of				To assess the correlation of the dose	Medicine
	Radiotherapy				absorbed by selected heart structures	
					and the limitation of their functions	
					assessed by ECHO before and after	
					radiochemotherapy of stage III lung	
					cancer. Application of the STAR	
					autocontouring algorithm to optimize	
					contouring of radiosensitive critical	
		prof. dr hab. n.med.		dr hab. n.med. Leszek	organs in radical radiation therapy of	
		Jacek Fijuth	1	Gottwald	lung malignancies.	
32	Department of				Peptide lunasin as a promising	Biotechnology,
	Biomedical				anticancer "epi-drug" modulating the	Dietetics.
	Chemistry				epigenetic machinery and its beneficial	
		dr hab. n. med.		dr hab. n. med.	effects in adjuvant therapy: validation	
		Katarzyna Lubecka-		Katarzyna Lubecka-	of hypothesis and design of novel	
		Gajewska	1	Gajewska	chemopreventive strategies.	

33	Department of					Medicine
	Geriatrics					
					Evaluation of the effectiveness of	
		prof. dr hab. n.med.		prof. dr hab. n.med.	functioning assessment methods in	
		Tomasz Kostka	1	Tomasz Kostka	older adults.	
34	Department of				Analiza potencjału remineralizacyjnego	Medical and dental.
	General Dentistry				oraz wybranych właściwości	
		prof. dr hab. n.med.		dr hab. n. med. Kinga	eksperymentalnego żywiczego kompozytu stomatologicznego	
		Jerzy Sokołowski	1	Bociong	zawierającego dodatki biaktywne.	
35	Department of		_		Molecular and cellular mechanisms of	Biotechnology.
	Neurology and	prof. dr hab. n.med.		prof. dr hab. n.med.	polyphenols and their metabolites	
	Stroke	Andrzej Głąbiński	1	Andrzej Głąbiński	impact on glial cells.	
36	Department of				Assessment of selected properties of	Medical and dental.
	Orthodontics	dr hab. n.med. Konrad Małkiewicz	1	dr hab. n.med. Konrad Małkiewicz	composite materials used in orthodontic treatment.	
37	Department of	IVIdikiewicz	1	IVIdIKIEWICZ	orthodortic treatment.	Dietetics
	Molecular				The import of more than in finding	Dietetios
	Neurochemistry	dr n.med. Malwina		dr hab. n.med. Tomasz	The impact of mycotoxins in food on the functioning and development of	
		Lisek	1	Boczek	central nervous system neurons.	
38	Department of				Biomarkers of psychiatric crisis and	Medicine
	Affective and				suicide risk in patients with borderline	
	Psychotic Disorders				personality disorder.Ghrelin in	
		dr hab. n.med.		dr hab. n.med. Dominik	immunometabolic depression and	
20	Danagharant of	Dominik Strzelecki	2	Strzelecki	microbiota.	Diatashashasa
39	Department of Molecular				1a. Impact of Gallic Acid Metabolites	Biotechnology, Biology.
	Mechanisms of Cell	dr hab. n. med.	2	dr hab. n. med.	on the Invasive Phenotype of	biology.
		Katarzyna Sobierajska	2	Katarzyna Sobierajska	Abdominal Tumours.	

		1	1	1	1b. Evaluation of the Potential of	_
					Selected Ferulic Acid Derivatives to	
					Modulate the Invasive Capacity of	
					Solid Tumours.	
40	Department of				Assessment of the correlation between	Medicine
	Clinical Toxicology	prof. dr hab. n. med.		dr hab. n. med. Marcin	pancreatic cancer and carbohydrate	
		Tadeusz Pietras	1	Kosmalski	metabolism disorders.	
41	II Department of				Transthyretin amyloidosis is one of	Medicine
	Cardiology	prof. dr hab. n.med.		prof. dr hab. n.med.	known causes of heart failure with	
		Jarosław Drożdż	1	Jarosław Drożdż	preserved ejection fraction	
42	Department of				1a. Molecular and biochemical	Pharmacy,
	Endocrinology and				markers of oxidative stress in women	Biotechnology,
	Metabolic Diseases				of reproductive age and in	Medical,
					experimental hyperestrogenism –	Biology,
					effects of thyroid hormone	Chemistry,
					imbalance,Endocrine Disruptors and	Biophysics.
		prof. dr hab. n.med.		prof. dr hab. n.med.	Thyroid Function – Clinical and	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		Małgorzata		Małgorzata Karbownik-	Experimental Insights into Thyroid	
		Karbownik-Lewińska	2	Lewińska	Dysfunction.	
43	Department of				Extracellular vesicles and secondary	Medical,
	Pharmacology and	prof. dr hab. n.med.		dr hab. n. med. Michał	metabolites – new therapeutic	Pharmacy,
	Toxicology	Edward Kowalczyk	1	Karbownik	strategies in neuropsychiatry.	Biotechnology.
44	Rheumatology Clinic	,			1a. Assessment of gastrointestinal	Medicine
					involvement and integrity of intestinal	
					epithelial barrier in patients with	
					scleroderma.	
					1b. Analysis of factors influencing	
					persistent with biologic therapy in	
					patients with arthritis.	
					2a. Interdisciplinary cooperation of	
				1. dr hab. n.med. Joanna	pulmonologist and rheumatologist in	
				Makowska	the diagnosis and treatment of	
		dr hab. n.med. Joanna		2.dr hab. n.med. Anna	interstitial lung diseases. New	
		Makowska	4	Lewandowska-Polak	approaches and challenges.	
		IVIANOVVSNA		LC W d I I U W S K d - F U I d K	approacties and challenges.	

					2b. Infectious complications of biological treatment of vasculitis.	
45	Department of Dermatology, Paediatric and Oncological Dermatology	prof. dr hab. n.med. Joanna Narbutt	2	 prof. dr hab. n.med. Joanna Narbutt dr hab. n. med. Magdalena Ciążyńska 	 Analysis of geodermatoses in the aspect of clinical manifestations, diagostic challenges and therapeutic approaches. Triamcinolone and 5-Fluorouracil in the treatment o keloids: An analysis of therapeutic outcomes and impact on quality of life. 	Medicine
46	Department of Medical Biochemistry	prof. dr hab. n.med. Janusz Szemraj	1	prof. dr hab. n.med. Janusz Szemraj	Molecular and cellular mechanisms of neuropathology, including neuropsychiatric diseases and CNS tumors with aspects of potential therapeutic importance.	Medical, Biotechnology.
47	Department of Otolaryngology and Laryngological Oncology	prof. dr hab. n.med. Wioletta Pietruszewska	1	prof. dr hab. n.med. Wioletta Pietruszewska	Genetic and metabolic profiling in the diagnosis of laryngeal cancer.	Medicine
48	Department of General and Oncological Surgery	prof. dr hab. n. med.	4	1. prof. dr hab. n. med. Łukasz Dziki 2. dr hab. n. med. Marcin	1a. Prospective analysis of functional outcomes and quality of life in patients undergoing holmium laser enucleation of the prostate (HoLEP). 1b. The role of laparoendoscopic procedures in groin hernia surgery in elderly patients. 2a. The role of frailty syndrome on early postoperative outcomes in colorectal cancer patients. 2b. The role of extended totally extraperitoneal hernia repair in ventral	Medical, Biotechnology, Pharmacy, Nursing.
		Łukasz Dziki	4	Włodarczyk HEALTH SCIENCES	hernias.	

No.	Unit	Head of Unit	Number of places	Proposed supervisor	Topic of dissertation	Candidate's profile (completed field of study)
1	Coordinated Care	dr n.med. Katarzyna Wielemborek-Musiał	1	dr hab. n. o zdrowiu Dorota Kilańska	Assessment of digital competencies in healthcare.	Nursing
2	Department of Nutrition and Epidemiology	dr hab. n.med. Ewelina Gaszyńska	2	1. dr hab. n.med. Ewelina Gaszyńska 2. dr hab. n.med. Małgorzata Godala	The influence of intrauterine programming on the development of gut microbiota in newborns Assessement of the role of diet and nutritional status for the course of systemic diseases.	Dietetics
3	Psychosocial Rehabilitation Department	dr hab. n. o zdrowiu Magdalena Wrzesińska	2	dr hab. n. o zdrowiu Magdalena Wrzesińska	1a. Psychosocial and cultural determinants of the conduct of clinical trials.2. Socio-cultural and ecological determinants of equal access to health and well-being.	Medical, Physiotherapy, Veterinary.
4	Department of Gerontology	dr hab. n. o zdrowiu Joanna Kostka	1	dr hab. n. o zdrowiu Joanna Kostka	The use of physiotherapeutic methods to improve the functional capacity of the elderly.	Physiotherapy
5	II Department of Cardiology	prof. dr hab. n.med. Jarosław Drożdż	1	dr hab. n.med. Katarzyna Piestrzeniewicz	Quality of life in patients with heart failure.	Management and Marketing.
6	Department of Geriatrics	prof. dr hab. n.med.		1. dr hab. n. o zdrowiu Anna Gawron-Skarbek 2. dr hab. n. o zdrowiu	 The role of the gut microbiome in the health of older adults – assessment of biomarkers, modulating factors and the impact of selected functional food ingredients. Development and evaluation of the effectiveness of methods for 	Medical, Physiotherapy, Dietetics, Public health, Rescue, Biological sciences.
		Tomasz Kostka	2	2. dr hab. n. o zdrowiu Agnieszka Guligowska	preventing malnutrition and	

					dehydration in older adults based on a multidimensional analysis of risk factors.	
7	Department of Mangement and Logistics in Health Care	dr hab. n. ekon. Remigiusz Kozłowski	2	1. dr hab. n. ekon. Remigiusz Kozłowski	 1a. Conditions for the effective use of transtelephonic electrocardiography in clinical practice in the context of cooperation between emergency medical teams and cardiology departments. 1b. Analysis of serious adverse events (SAEs) in the treatment of acute coronary syndrome with consideration of logistic aspects. 	Medical, Management.
8	Department of Hormone Biochemistry	dr hab. n. med. Anna Stasiak	1	dr hab. n. med. Anna Stasiak	Diagnosing the needs to optimize the quality of life for individuals with neurodegenerative diseases, considering physiotherapy and the role of support societies (research based on the Polish population).	Physiotherapy.
9	Department of Preventive Medicine	prof. dr hab. n.med. Magdalena Kwaśniewska	1	dr hab. n. o zdrowiu Anna Lipert	The impact of war-related stress on birth outcomes in the Lebanese population - a cohort study.	Public Health
10	Neurological Rehabilitation Clinic	prof. dr hab. n.med. Elżbieta Miller	1	prof. dr hab. n.med. Elżbieta Miller	Diagnostics, rehabilitation and treatment methods of nevous system dysfunction.	Physiotherapy, Medical, Dietetics.

No.	Unit	Head of Unit	Number of places	Proposed supervisor	Topic of dissertation	Candidate's profile (completed field of study)
1	Department of Medical Biology	dr hab. n.farm. Przemysław Sitarek	1	dr hab. n.farm. Przemysław Sitarek	Production of biologically active compounds and recombinant proteins in different cellular models.	Biotechnology, Pharmacy, Biology.
2	Department of Pharmaceutical Chemistry, Drug Analysis and Radiopharmacy	prof. dr hab. n.farm. Paweł Szymański	2	prof. dr hab. n.farm. Paweł Szymański	1a. Evaluation of new histidine derivatives as potential therapeutic agents in neurodegenerative disease. 1b. Novel cholinesterase inhibitors and their activity evaluation as potential therapeutic agents in the treatment of Alzheimer's disease.	Pharmacy
3	Department of Cosmetic Raw Material Chemistry	prof. dr hab. n.farm. Elżbieta Budzisz	1	dr hab. n.farm. Urszula Kalinowska-Lis	Development of innovative cosmetic recipes for the care of problematic skin.	Cosmetology, Pharmacy, Biotechnology.
4	Department of of Pharmacognosis	dr hab. n.farm. Monika Olszewska	1	dr hab. n.farm. Monika Olszewska	Phytochemical profile and molecular mechanisms of biological activity of selected plant products.	Pharmacy

List of places at the International Doctoral School awarded to research and teaching units of the Medical University of Lodz for the academic year 2025/2026 in connection with financing from external sources

MEDICAL SCIENCES

No.	Unit	Head of Unit	Project	Number	Poposed	Topic of dissertation	Candidate's profile
				of	supervisor		(completed field of
				places			study)
1	Department of Cell	prof. dr hab. n.	SONATA	1	dr hab. n. med.	Search of an interplay	Pharmacy,
	Culture and Genomic	med. Agnieszka			Aleksandra	between total and local	Nursing,
	Analysis	Piastowska-			Piechota-	inhibition or NRF2	Midwifery,
		Ciesielska			Polańczyk	transcriptional factor and	Biotechnology,
						the level and activity of	Medical,
						estrogen signaling, as well	Physiotherapy,
						as their impact on	Biology,
						development and function	Veterinary.
						of intestines.	
2	Department of Cell	prof. dr hab. n.	SONATA	1	dr hab. n. med.	Evaluation of the	Pharmacy,
	Culture and Genomic	med. Agnieszka			Karolina Kowalska	effectiveness of organic	Nursing,
	Analysis	Piastowska-				sulfur in reducing	Midwifery,
		Ciesielska				inflammation in benign	Biotechnology,
						prostatic hyperplasia	Medical,
						induced by a high-fat diet.	Physiotherapy,
							Veterinary,
							Biology.
3	Department of Cell	prof. dr hab. n.	SONATA	1			Pharmacy,
	Culture and Genomic	med. Agnieszka					Biotechnology,
	Analysis	Piastowska-				Environmental modulation	Medical
		Ciesielska				of CDK4/6 inhibitor	Physiotherapy,
					prof. dr hab. n.	efficacy: Impact of	Management in
					med. Agnieszka	mycotoxin alternariol	Medical
					Piastowska-	exposure on anti-cancer	Services,
					Ciesielska	therapies.	Biology

4	Department of Biochemistry	prof. dr hab. n.med. Jakub Fichna	OPUS	1	prof. dr hab. n.med. Jakub Fichna	Development of novel potential therapeutics in inflammatory bowel diseases based on nanoformulations employing senomodulators.	Pharmacy, Biotechnology, Medical, Biology.
5	Department of Molecular Biology of Cancer	prof. dr hab. n.med. Małgorzata Czyż	OPUS	1	prof. dr hab. n.med. Małgorzata Czyż	The role of EZH2 activity in the development of resistance to targeted therapy in melanoma.	Biotechnology, biology, pharmacy
6	Department of Biochemistry	prof. dr hab. n.med. Jakub Fichna	PRELUDIUM BIS	1	prof. dr hab. n. med. Maciej Sałaga	The role of free fatty acid receptors in pathophysiology of the functional gastrointestinal tract disorders: new therapies for leaky gut syndrome and irritable bowel syndrome.	Pharmacy, Biotechnology, Medical, Biology.
7	Department of Cell Culture and Genomic Analysis	prof. dr hab. n. med. Agnieszka Piastowska- Ciesielska	IMPLEMENTATION DOCTORATE	1	dr hab. n. med. Aleksandra Piechota- Polańczyk	Scaling up the pembrolizumab manufacturing process in CHO DG 44 line using single-use bioreactors: analysis of metabolite profile and post-translational modifications and product quality in relation to the reference biologic drug.	Pharmacy, Biotechnology, Medical, Biology.

Department of Cell Culture and Genomic Analysis	prof. dr hab. n. med. Agnieszka Piastowska- Ciesielska	IMPLEMENTATION DOCTORATE	1	dr hab. n. med. Aleksandra Piechota- Polańczyk	Development of a tool optimizing the selection of process conditions in bioreactor cultures, taking into account the methods of planning experiments (DoE) in order to produce a product in optimal quantity and quality using conventional predictive methods and those based on artificial intelligence.	Pharmacy, Nursing, Biotechnology, Medical.
		PHARMA	ACEUTICAL	SCIENCES		
Unit	Head of Unit	Project	Number of places	Poposed supervisor	Topic of dissertation	Candidate's profile (completed field of study)
Department of Pharmacodynamics	dr hab. n. farm. Jakub Wojcieszak	OPUS	1	dr hab. n. farm. Jakub Wojcieszak	Assessment of long-term effects of semaglutide administered in repeated short cycles in obese mice.	Pharmacy, Biotechnology, Biology, Medical Analytics, Veterinary, Other related.
Department of Cosmetic Raw Material Chemistry	prof. dr hab. n. farm. Elżbieta Budzisz	IMPLEMENTATION DOCTORATE	1	prof. dr hab. n.farm. Elżbieta	Implementation of technology for manufacturing a dermocosmetic preparation for the skin care of diabetics and patients with selected metabolic and inflammatory dermatoses.	Cosmetology, Pharmacy.
	Culture and Genomic Analysis Unit Department of Pharmacodynamics Department of Cosmetic Raw	Culture and Genomic Analysis med. Agnieszka Piastowska-Ciesielska Unit Head of Unit Department of Pharmacodynamics dr hab. n. farm. Jakub Wojcieszak Department of Cosmetic Raw prof. dr hab. n. farm. Elżbieta	Culture and Genomic Analysis med. Agnieszka Piastowska-Ciesielska PHARMA Unit Head of Unit Department of Pharmacodynamics Department of Cosmetic Raw PHARMA Implementation Doctorate	Culture and Genomic Analysis med. Agnieszka Piastowska-Ciesielska PHARMACEUTICAL Unit Head of Unit Project Number of places Department of Pharmacodynamics Department of Cosmetic Raw Project In Project Number of places In Project Number of places In Public Project Number of places In Place In Project In Project OPUS	Culture and Genomic Analysis med. Agnieszka Piastowska-Ciesielska DOCTORATE dr hab. n. med. Aleksandra Piechota-Polańczyk PHARMACEUTICAL SCIENCES Unit Head of Unit Project Number of places Department of Pharmacodynamics Department of Cosmetic Raw Material Chemistry DOCTORATE prof. dr hab. n. farm. Jakub Wojcieszak DOCTORATE prof. dr hab. n. farm. Elżbieta Budzisz DOCTORATE	Culture and Genomic Analysis med. Agnieszka Piastowska-Ciesielska DOCTORATE optimizing the selection of process conditions in bioreactor cultures, taking into account the methods of planning experiments (DoE) in order to produce a product in optimal quantity and quality using conventional predictive methods and those based on artificial intelligence. PHARMACEUTICAL SCIENCES Unit Head of Unit Project Number of places Poposed supervisor Topic of dissertation Department of Pharmacodynamics dr hab. n. farm. Jakub Wojcieszak OPUS 1 dr hab. n. farm. Jakub Wojcieszak administered in repeated short cycles in obese mice. Department of Cosmetic Raw Material Chemistry prof. dr hab. n. farm. Elżbieta Budzisz IMPLEMENTATION DOCTORATE Implementation of technology for manufacturing a dermocosmetic preparation for the skin care of diabetics and patients with selected metabolic and

No.	Unit	Head of Unit	Project	Number of places	Poposed supervisor	Topic of dissertation	Candidate's profile (completed field of study)
1	Department of Genetic Cancer Predisposition	dr hab. n. med. Agata Pastorczak	OPUS		dr hab. n. med.	Epigenetic determinants of chromthripsis and its impact on the chemosensistivity of acute	Biotechnology, Diagnostics
2	Department of Hygiene and Health Promotion	prof. dr hab. n.med. Dorota Kaleta	IMPLEMENTATION DOCTORATE	1	Agata Pastorczak prof. dr hab. n.med. Dorota Kaleta	Iymphoblastic leukemia. Development of a therapeutic pathway to combat obesity for implementation in a coordinated care model.	Laboratory, Sociology.