MEDICAL UNIVERSITY OF LODZ

Ordinance No. 69/2025
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 Doctoral School of Molecular Medicine and the list of places at the Doctoral School of Molecular Medicine 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 27 June 2019, as amended, in connection with § Item 6 of the Resolution No. 69/2024 of December 19, 2024 adopted by the Senate of the Medical University of Lodz on the procedure of recruitment to the Doctoral School of Molecular Medicine in the academic year 2025/2026, the following Ordinance is hereby issued:

§ 1

1. The following is hereby announced for the academic year 2025/2026:
    1) recruitment to the Doctoral School of Molecular Medicine, run by the Medical University of Lodz, in the following disciplines: pharmacology and pharmacy and medical sciences;
    2) limit of admissions to the Doctoral School of Molecular Medicine for each of the disciplines referred to in Point 1, as specified in Appendix No. 1 hereto;
    3) list of places at the Doctoral School of Molecular Medicine awarded to research and teaching units of the Medical University of Lodz, enclosed as Appendix No. 2 hereto.
2. The recruitment to the Doctoral School of Molecular Medicine 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.

Authorized by RECTOR: Prof. Janusz Piekarski PhD, DSc

Promulgation of the legal act:
- Intranet/Public Information Bulletin

Appendix No. 1 to Ordinance No. 69/2025
of June 9, 2025
Rector of the Medical University of Lodz

Admission limits to the Doctoral School of Molecular Medicine conducted by the Medical University of Lodz for the academic year 2025/2026

Discipline	Admission limit
Pharmacology and pharmacy	1
Medical sciences	13

Appendix No. 2 to Ordinance No. 69/2025
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Rector of the Medical University of Lodz

List of places at the Doctoral School of Molecular Medicine awarded to the University research and teaching units in academic year 2025/2026 and a list of research topics submitted by the University's research and teaching units as well as by Partners (universities and scientific institutions collaborating with the University in the education of doctoral students within the Doctoral School of Molecular Medicine, based on the concluded agreement)

MEDICAL SCIENCES							
No.	**Unit (MUL)**	**Head of Unit**	**Partner's unit proposing the research topic**	**Number of places**	**Proposed supervisor**	**Research topics**	**Candidate's profile** (completed field of study)
1	Department of Biochemistry	prof. dr hab. n.med. Jakub Fichna	1. Medical University of Lodz 2. Nencki Institute of Experimental Biology, PAS 3. Greater Poland Cancer Centre 4. Maria Sklodowska-Curie National Research Institute of Oncology in Warsaw 5. Medical University of Lublin 6. Greater Poland Cancer Centre 7. Nencki Institute of Experimental Biology, PAS 8. Nencki Institute of Experimental Biology, PAS 9. University of Rzeszów 10. Institute of Computer Science, PAS	15	1. dr hab. n. med. Marta Zielińska, 2. prof. dr hab. Bożena Kamińska-Kaczmarek, 3. dr hab. n. med. Witold Kycler, 4. prof. dr hab. n. med. Ewa Anna Grzybowska,	1. Determination of the role of GDF11 on the pancreatic dysfunction. 2. Assessment of the effect of minocycline and a short peptide blocking SPP1-integrin interactions on brain metastases of breast and lung cancer. 3. The Impact of Anthropometric, Clinicopathological Parameters, and Intestinal Integrity Markers on the Risk of	Medicine, Biotechnology, Biology, Biomedicine, Medical Biology, Genetics, Biophysics, Biomedical Engineering, Bioinformatics, Medical Analytics, Veterinary medicine,

			11. Greater Poland Cancer Centre 12. Institute of Computer Science, PAS 13. Institute of Hematology and Transfusion Medicine		5. prof. dr hab. Przemysław Tylżanowski, 6. dr hab. n. med. Joanna Kaźmierska, 7. dr hab. Adam Hamed, 8. prof. dr hab. Jakub Włodarczyk, 9. prof. dr hab. n. med. Izabela Zawlik, 10. dr hab. Paweł Marek Majewski, 11. prof. dr hab. n. med. Wiktoria Suchorska, 12. dr hab. Bartosz Wojtaś, 13. prof. dr. hab. Przemysław Juszczyński.	Perioperative Complications in Patients with Colorectal Cancer Undergoing Surgical Treatment. 4. The role of HAX1 protein in the regulation of intracellular calcium concentration and calcium signaling, relevance of calcium signals for lipid metabolism and metastatic potential in breast cancer. 5a. Molecular basis of the craniofacial malformations. 5b. Molecular etiology of clubfoot. 6. Application od spatially fractionated radiation therapy (SFRT) in palliative treatment of advanced head and neck cancers - evaluation of feasibility, efficacy and molecular mechanisms of leukocyte activation an cytotoxic effects.	

						7. Investigating the neurobiological mechanisms of the anti-addictive effects of psychedelics. 8. Identification of Biomarkers for Treatment Efficacy to Develop a New Diagnostic Framework for Personalized Treatment of Psychoses of Various Etiologies. 9. Clinical significance of non-coding RNAs in breast cancer. 10a. Analysis of transcriptome profile changes in the bone formation process, involvement of PARP1 protein. 10b. Analysis of epigenetic mechanisms controlling DMRTA2 expression in glioblastoma multiforme and their impact on tumor angiogenesis.	

						11. Hippo Signaling Pathway in Glioma Pathogenesis. 12. Analysis of the functions, interactions and impact on epigenetics of REST and KAISO transcription factors in the context of glioblastoma. 13. Immunogeniciy of PIM kinase inhibition in hematologic malignancies.	
2	Department of Functional Genomics	dr hab. n.med. Elżbieta Płuciennik	Medical University of Lodz	1	dr hab. n.med. Elżbieta Płuciennik	Integrating transcriptomic data from single-cell sequencing with exploratory analysis of newly discovered cellular death mechanisms.	Biotechnology,
3	Department of Genetic Cancer Predisposition	dr hab. n. med. Agata Pastorczak	Medical University of Lodz	1	dr hab. n. med. Agata Pastorczak	Whole-genome identification of constitutional variants predisposing to treatment-related toxicity in children diagnosed with acute lymphoblastic leukemia.	Medicine,

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PHARMACOLOGY AND PHARMACY							
No.	**Unit (MUL)**	**Head of Unit**	**Partner's unit proposing the research topic**	**Number of places**	**Proposed supervisor**	**Research topics**	**Candidate's profile** (completed field of study)
1	Department of Biochemistry	prof. dr hab. n.med. Jakub Fichna	International Institute of Molecular and Cell Mechanisms of the Polish Academy of Sciences (IMol)	1	dr hab. Maria Magdalena Konarska	Deciphering the Exact Targets and Mechanisms of action of PI3 Kinase Inhibitors in Cancer.	Biology, Pharmacy, Biotechnology, Medicine, Biophysics, Biomedical Engineering, Bioinformatics,