

Directive No. 70/2023

Of 27th June 2023

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 2023/2024

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 27 June 2019, as amended, in connection with § 6 Item 6 of the Resolution No. 3/2023 of 26 January 2023 adopted by the Senate of the Medical University of Lodz on the procedure of recruitment to the International Doctoral School in the academic year 2023/2024, the following Directive is hereby issued:

§ 1

1. The following is hereby announced for the academic year 2023/2024:
 - 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.
2. 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 3rd July, 2023.

Authorized by RECTOR: vice-rector *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 2023/2024**

Discipline	Admission limit	Program „IMPLEMENTATION DOCTORATE„ admission limit	Competition NCN „PRELUDIUM BIS ” admission limit	OPUS 22
Pharmaceutical Sciences	5	1	0	0
Medical sciences	30	4	2	2
Health Sciences	5	0	0	0

**List of places at the International Doctoral School awarded to the University reaserch and teaching units in academic year
2023/2024**

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 Paediatric Cardiology and Rheumatology	prof. dr hab. n. med. Elżbieta Smolewska	1	prof. dr hab. n. med. Elżbieta Smolewska	Evaluation of temporomandibular joints in children with juvenile idiopathic arthritis based on NMR - correlation with clinical picture and biomarkers of the disease.	Medicine
2	Department o cardiooncology	dr hab. n. med. Grzegorz Piotrowski	1	dr hab. n. med. Grzegorz Piotrowski	To determine the effect of implanted electrical devices (pacemakers, Implantable Cardioverter-defibrillatores, cardiac resynchronization) on the prognosis of cancer patients and selected aspects of cardiovascular system and cancer biology.	Medicine

3	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	1. Search for markers of selected chronic microvascular complications of diabetes in patients with MODY diabetes. 2. Genomic instability in cancer: molecular background and therapeutic potential.	Medicine
4	I Department of Radiology and Diagnostic Imaging	prof. dr hab. n. med. Ludomir Stefańczyk	1	prof. dr hab. n. med. Ludomir Stefańczyk	Contrast-enhanced ultrasonography (CEUS) in the diagnosis of abdominal parenchymal organs.	Medicine
5	Department of General Dentistry	prof. dr hab. n. med. Jerzy Sokołowski	1	dr hab. n. med. Kinga Bociąg	The manufacturing and evaluation of the properties of an experimental composite for dental applications with modified properties (potentially biostatic and/or biocidal).	Dental technician
6	Department of Gastrointestinal Diseases	prof. dr hab. n. med. Ewa Małecka-Wojcieszko	2	1. prof. dr hab. n. med. Ewa Małecka-Wojcieszko 2. dr hab. n. med. Anna Mokrowiecka	1. Diagnostic and prognostic pancreatic cancer biomarkers. 2. Evaluation of the quality of life of patients with gastroesophageal reflux disease. Validation of the Polish version of the GERD-HRQL questionnaire. 2a. Protease-Activated Receptors - regulators of inflammatory processes in gastrointestinal diseases. 2b. Early detection of Barrett's esophagus and esophageal cancer	Medicine

					using the Cytosponge Cell Collection Device.	
7	Department of Orthopaedics and Traumatology	prof. dr hab. n. med. Marcin Domżałski	2	prof. dr hab. n. med. Marcin Domżałski	1. Design of the diagnostic and treatment algorithm for soft tissue degenerative changes in the knee joint. 1a. Functional analysis and determination of criteria for return to sport after surgical treatment of ankle instability.	Medicine Physiotherapy
8	Department of Preventive Cardiology and Lipidology	prof. dr hab. n. med. Maciej Banach	1	prof. dr hab. n. med. Agata Bielecka-Dąbrowa	Prevention of heart failure in patients with congenital heart defects.	Medicine
9	Department of Immunopathology	prof. dr hab. n. med. Rafał Pawliczak	5	1. prof. dr hab. n. med. Rafał Pawliczak 2. dr hab. n. med. Paulina Kleniewska 3. dr hab. n. med. Joanna Wiczfińska	1. Regulation in inflammatory processes in allergic diseases. The influence of the environment. 2. The modifying influence of probiotics on the inflammation in human diseases. 3. The inflammation modifiers from plant sources. The role in immune response regulation.	Medicine Medicine and Dentistry Pharmacy Nursing Biotechnology Dietetics Public health Chemistry Biology
10	Department of Plastic, Reconstructive and Aesthetic Surgery	prof. dr hab. n. med. Bogusław Antoszewski	1	dr hab. n. med. Anna Kasielska-Trojan	The role of potassium channel genes' polymorphisms in breast pain in women.	Medicine

11	Department of Pneumology	prof. dr hab. n. med. Wojciech Piotrowski	2	prof. dr hab. n. med. Wojciech Piotrowski	1. The influence of obesity and adipose tissue mediators on the course of sarcoidosis 2. Predictors of the response to immunomodulatory treatment in patients with interstitial lung diseases	Medicine
12	Department of General and Oncological Surgery	prof. dr hab. n. med. Łukasz Dziki	3	1. prof. dr hab. n. med. Łukasz Dziki 2. dr hab. n. med. Marcin Włodarczyk	1. The role of prehabilitation in surgery of inflammatory bowel diseases 2. The role of prehabilitation in colorectal cancer surgery 2 a The role of laparoscopic groin hernia repair in older adults	Medicine Biotechnology Pharmacy Medicine - MON
13	Department of Anaesthesiology and Intensive Therapy	dr hab. n. med. Waldemar Machała	1	dr hab. n. med. Waldemar Machała	Assessment of the risk of unintentional intraoperative hypothermia during general anesthesia in comparison with regional anesthesia	Medicine
14	Department of Haematology	prof. dr hab. n. med. Agnieszka Wierzbowska	1	prof. dr hab. n. med. Joanna Góra-Tybor	The impact of the microbiota on the effectiveness of the therapy of hematological malignancies.	Medicine
15	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.	Medicine Biotechnology Public health Biology
16	Department of Dermatology and Venereology	prof. dr hab. n. med. Anna Woźniacka	1	prof. dr hab. n. med. Anna Woźniacka	Clinical aspects of antinuclear antibodies.	Medicine

17	Department of Biomolecular Chemistry	dr hab. n. med. Katarzyna Gach-Janczak	1	dr hab. n. med. Katarzyna Gach-Janczak	Evaluation of the anticancer activity of new synthetic analogs based on the structure of natural compounds.	Medicine Medicine and Dentistry Pharmacy Cosmetology Nursing Biotechnology Public Health Biology Medical analytics Dietetics Rnvironmental protection microbiology Mikrobiologia Genetics Environmental protection engineer
18	II Department of Cardiology	prof. dr hab. n. med. Jarosław Drożdż	1	prof. dr hab. n. med. Jarosław Drożdż	Iron deficiency in patients with myocardial infarction.	Medicine
19	Department of Surgical and Oncological Gynaecology	prof. dr hab. n. med. Jacek Wilczyński	2	prof. dr hab. n. med. Jacek Wilczyński	1. Analysis of long non-coding RNA in endometriosis and endometriosis-associated ovarian cancer. 1a. Usefulness of 2D and 3D presentation of trans-vaginal ultrasound in diagnosis of uterine adenomiosis.	Medicine
20	Dedpartment of family medicine	prof. dr hab. n. med. Przemysław Kardas	1	prof. dr hab. n. med. Przemysław Kardas	Current organizational issues in Primary Health Care, including	Medicine

					elements of cost-effectiveness assessment.	
21	Department of Biostatistics and Translational Medicine	prof. dr hab. n. med. Wojciech Fendler	1	dr hab. n. med. Agnieszka Butwicka	Population-based cohort on risks and benefits of psychotropic medications in type 1 diabetes including use trends and effect on glycemic profiles, diabetic complications, and healthcare utilization.	Medicine Pharmacy Biotechnology Medicine - MON
22	Department of Nephrology, Hypertension and Kidney Transplantation	prof. dr hab. n. med. Michał Nowicki	2	1. prof. dr hab. n. med. Michał Nowicki 2. dr hab. n. med. Anna Masajtis-Zagajewska	1. Effect of acute kidney injury on cognitive function and risk of depression 2. Influence of sodium-glucose co-transporter type 2 inhibitors on temperature sensation in patients with chronic kidney disease	Medicine
23	Department of Nucleic Acid Biochemistry	dr hab. n. med. Agnieszka Śliwińska	1	dr hab. n. med. Agnieszka Śliwińska	MicroRNAs as a pancreatic cancer biomarkers.	Biotechnology Medicine Biologi Medical analytics Chemistry Genetics
24	Department of General and Oncological Pulmonology	prof. dr hab. n. med. Adam Antczak	3	prof. dr hab. n. med. Adam Antczak	1. Circulating tumor DNA in patients with lung cancer. 1a. Plasmacytoid dendritic cells in lung cancer. 1b. Latent tuberculosis in patients treated due to lung cancer.	Medicine

25	Rheumatology Clinic	dr hab. n. med. Joanna Makowska	1	dr hab. n. med. Joanna Makowska	Evaluation of immune dysfunction and DNA repair in patients with RO-52 (TRIM21) autoantibodies.	Medical analytics
26	Department of Dermatology, Paediatric and Oncological Dermatology	prof. dr hab. n. med. Joanna Narbutt	1	dr hab. n. med. Magdalena Ciężyńska	Autoinflammatory skin disorders.	Medicine
27	Department of Paediatrics, Oncology and Hematology	prof. dr hab. n. med. Wojciech Młynarski	2	1. prof. dr hab. n. med. Wojciech Młynarski 2. dr hab. n. med. Szymon Janczar	1. Molecular basis of congenital disorders of hematopoiesis. 2. Clinical characteristics and molecular background of congenital thrombocytopenia syndromes.	Medicine
28	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 primary open-angle glaucoma treatment.	Medicine
29	Department of Internal Diseases and Nephrodiabetology	prof. dr hab. n. med. Dariusz Moczulski	2	prof. dr hab. n. med. Dariusz Moczulski	1. The role of SGLT2 inhibitors in prevention of diabetic kidney disease. 1a. The association between the level of osteopontin and the composition and size of urinary stones.	Medicine
30	Department of Neurology and Stroke	prof. dr hab. n. med. Andrzej Głąbiński	1	prof. dr hab. n. med. Andrzej Głąbiński	Analysis of the impact of neutrophils on glial cells in the pathogenesis of multiple sclerosis and stroke.	Medicine

31	II Department of Radiology and Diagnostic Imaging	prof. dr hab. n. med. Agata Majos	1	prof. dr hab. n. med. Agata Majos	Preoperative planning and execution of individualized dental implants using multi-planar or volumetric diagnostic imaging and modern production techniques.	Medicine
32	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. Evaluatinn of the impact of mycotoxins on cellular processes, including oxidative stress, in cancer and normal cells in conditions reflecting civilization 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.	Medicine Pharmacy Biotechnology Biology
33	Department of Biochemistry	prof. dr hab. n. med. Urszula Lewandowska	3	1. prof. dr hab. n. med. Jakub Fichna 2. dr hab. n. med. Marta Zielińska	1. Evaluation of the acute effects, sequelae, age-dependency and possible treatments of the cytokine storm in preclinical models. 2. The influence of accumulation of microplatics on the intestinal barrier integrity in the context of the gastrointestinal tract. 2a. The role of selected inhibitors	Biotechnology Medicine Pharmacy Biology Translational medicine

					of histone acetyltransferase in the gastrointestinal disorders.	
34	Department of Neurology	prof. dr hab. n. med. Mariusz Stasiołek	2	1. prof. dr hab. n. med. Mariusz Stasiołek 2. dr hab. n.med. Mariola Świderek- -Matysiak	1. The role of sex hormones in demyelinating diseases of the central nervous system. 2. Identification of potential markers of activity, progression and response to treatment in patients with multiple sclerosis with particular emphasis on neuropsychological and radiological parameters.	Medicine
35	Department of Arthroscopy, Minimally Invasive Surgery and Sports Traumatology	prof. dr hab. n. med. Jarosław Fabiś	1	prof. dr hab. n. med. Jarosław Fabiś	Gait pattern and selected muscle group comparative analysis between patients with osteoarthritis in the hip and knee joints.	Physiotherapy
36	Department of Anaesthesiology, Intensive Care and Pain Management	prof. dr hab. n. med. Tomasz Gaszyński	2	prof. dr hab. n. med. Tomasz Gaszyński	1. Evaluation of use of new third generation supraglottic deives during general anaesthesia for laparoscopic elective procedures - comparison with standard method of airway management with endotracheal intubation - a	Nursing Medicine

					<p>multicenter international trial.</p> <p>1a. Comparison of general anaesthesia using opioid sparing method or standard balanced general anaesthesia in patients with obesity scheduled for elective surgical procedures - influence on hemodynamic function measured with noninvasive cardioimpedance method.</p> <p>1b. Evaluation of use of new third generation supraglottic devices during general anaesthesia for laparoscopic elective procedures - comparison with standard method of airway management with endotracheal intubation - a multicenter international trial.</p>	
37	Department of Paediatrics, Diabetology, Endocrinology and Nephrology	prof. dr hab. n. med. Agnieszka Szadkowska	1	dr hab. n. med. Anna Hogendorf	Neurological diseases and neurodevelopmental disorders in children and adolescents with type 1 diabetes - characteristics, incidence and impact on the course of diabetes	Medicine

38	Department of Immunology and Allergy	dr hab. n. med. Maciej Chałubiński	3	1. dr hab. n. med. Maciej Chałubiński 2. dr hab. n. med. Marcin Kurowski	1. Assessment of the susceptibility of the pulmonary vascular endothelium to infection with respiratory viruses and the ability to generate an antiviral response in patients with chronic obstructive pulmonary disease. 1a. Assessment of the susceptibility of the pulmonary vascular endothelium to infection with respiratory viruses and the ability to generate an antiviral response in patients with chronic obstructive pulmonary disease. 2. Clinical and immunological characteristics of patients with angioedema of different ethiology.	Medicine Biology Microbiology
39	Department of Conservative Dentistry	dr n. med. Krzysztof Sokołowski	1	dr hab. n. med. Elżbieta Bołtacz-Rzepakowska	Impact of modification of GICs on bond to dental composites.	Medicine
40	Department of Bioethics	dr n. hum. Anna Alichniewicz	2	dr hab. n. hum. Monika Michałowska	1. Extermination of adults and children from psychiatric institutions and beyond in Łódź and its surroundings during German occupation 1939-1944 1 a. Access to healthcare for migrants in Germany and Poland – comparison of normative frameworks and healthcare practice.	Medicine History Philosophy Sociology Health Public

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 Hygiene and Health Promotion	prof. dr hab. n. med. Dorota Kaleta	1	prof. dr hab. n. med. Dorota Kaleta	Lean Management in healthcare units.	Sociology
2	Department of Gerontology	dr hab. n. o zdrowiu Joanna Kostka	1	dr hab. n. o zdrowiu Joanna Kostka	Prehabilitation in patients qualified for cardiac surgery.	Physiotherapy
3	Psychosocial Rehabilitation Department	dr hab. n. o zdrowiu Magdalena Wrzesińska	1	dr hab. n. o zdrowiu Magdalena Wrzesińska	Reducing health inequalities across groups at the risk of social exclusion based on the patient-centred model. Health promotion and education in the workplace.	Public health Physiotherapy pielęgniarstwo
4	Department of Sports Medicine	prof. dr hab. n. med. Anna Jegier	1	dr hab. n. o zdrowiu Anna Lipert	Nutrition of people of different physical activity.	Dietetics
5	Department of Epidemiology and Biostatistics	dr hab. n. o zdrowiu Małgorzata Pikala	1	dr hab. n. o zdrowiu Małgorzata Pikala	Changes in the mortality model of Polish inhabitants due to dietrelated diseases	Dietetics
6	Department of Old Age Psychiatry and Psychotic Disorders	dr hab. n. med. Jakub Kaźmierski	1	dr hab. n. med. Adam Wysokiński	Evaluation of the effect of transcranial direct current stimulation on the effectiveness of cognitive function rehabilitation using the Rehacom system in	Medicine

					patients with paranoid schizophrenia.	
7	Department of Nutrition and Epidemiology	dr hab. n. med. Ewelina Gaszyńska	1	dr hab. n. med. Ewelina Gaszyńska	Assesement of metabolic parameters, eating habits and patterns, sense of appetite and satiety in overweight and obese children.	Dietetics
8	Department of Conservative Nursing	dr hab. n. o zdrowiu Ewa Borowiak	1	dr hab. n. o zdrowiu Ewa Borowiak	1. Occupational burnout of nurses/ midwives/ paramedics/ dieticians/ beauticians. 1a. Caregiving for the elderly people during the COVID-19 pandemic.	Nursing Obstetrics Emergency medical services Public Health
PHARMACEUTICAL 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. Marek Mirowski	1	prof. dr hab. n. farm. Ewa Balcerczak	Evaluation of transcription factors in brain tumors based on molecular and bioinformatics analyses.	Pharmacy
2	Department of Bromatology	prof. dr hab. n. farm. Bolesław Karwowski	1	prof. dr hab. n. farm. Bolesław Karwowski	Damage of Nucleic Acids – formation, recognition and repair by nucleic base excision (BER).	Pharmacy Biotechnology Chemistry Biology Physics

3	Department of Biology and Pharmaceutical Botany	dr hab. n. farm. Izabela Grzegorzczuk-Karolak	1	dr hab. n. farm. Izabela Grzegorzczuk-Karolak	In vitro cultures of <i>Salvia atropatana</i> as a source of bioactive metabolites.	Pharmacy
4	Department of of Pharmacognosis	dr hab. n. farm. Monika Olszewska	2	dr hab. n. farm. Monika Olszewska	1. Metabolomic profiling and biological activity studies of blackthorn branches (<i>Prunus spinosa</i> L.) in the context of inflammation-related diseases. 1a. Impact of polyphenolic fraction and flavone C-glycosides on biological activity of red beet leaves (<i>Beta vulgaris</i> L. var. <i>rubra</i>).	Pharmacy Chemistry and Food Technology Food Technology and Human Nutrition Food safety and hygiene

List of places at the International Doctoral School awarded to research and teaching units of the Medical University of Lodz for the academic year 2023/2024 in connection with financing from external sources

MEDICAL SCIENCES

No.	Unit	Head of Unit	Project	Number of places	Proposed supervisor	Topic of dissertation	Candidate's profile (completed field of study)
1	Department of Medical Biochemistry	prof. dr hab. n. med. Janusz Szemraj	PRELUDIUM BIS 4	1	prof. dr hab. n. med. Janusz Szemraj	Evaluation of anti-neoplastic activity of LAB-derived postbiotics as a potential tool to support standard chemotherapy in the most common types of cancer that affect women.	Biotechnology Biology Pharmacy Medical Analytics
2	Department of Biostatistics and Translational Medicine	prof. dr hab. n. med. Wojciech Fendler	PRELUDIUM BIS 4	1	prof. dr hab. n. med. Wojciech Fendler	Cohort studies of the metabolic memory phenomenon – an epigenetic consequence of glycemic variability and metabolic control in children with type 1 diabetes.	Medicine Biotechnology Pharmacy
3	Department of Molecular Neurochemistry	prof. dr hab. n. med. Ludmiła Żylińska	OPUS	1	dr hab. n. med. Tomasz Boczek	Perinuclear signalosomes.	Biotechnology Pharmacy Molecular biology
4	Department of Immunology and Allergy	dr hab. n. med. Maciej Chałubiński	OPUS	1	dr hab. n. med. Maciej Chałubiński	Assessment of the susceptibility of the pulmonary vascular endothelium to infection with respiratory viruses	Biology Microbiology

						and the ability to generate an antiviral response in patients with asthma.	
5	Department of Biostatistics and Translational Medicine	prof. dr hab. n.med. Wojciech Fendler	IMPLEMENTATION DOCTORATE	1	prof. dr hab. n.med. Wojciech Fendler	Development of an IT tool for risk management related to the product tested in clinical trials.	Biotechnology Medicine Public health
6	Department of Cell Culture and Genomic Analysis	prof. dr hab. n. med. Agnieszka Piastowska-Ciesielska	IMPLEMENTATION DOCTORATE	3	prof. dr hab. n. med. Agnieszka Piastowska-Ciesielska	1. Implementation of phenotypic methods using microfluidics for the diagnosis of drug susceptibility of multidrug-resistant pathogenic bacteria. 1 a. Development of an innovative therapy of metabolic disease syndrome based on the FGF1 analogue. 1 b. Development and implementation of a method for assessing the purity of biopharmaceutical products.	Biology Pharmacy Biotechnology Medical biotechnology
PHARMACEUTICAL SCIENCES							
No.	Unit	Head of Unit	Project	Number of places	Proposed supervisor	Topic of dissertation	Candidate's profile (completed field of study)

1	Department of Pharmaceutical Chemistry, Drug Analysis and Radiopharmacy	prof. dr hab. n. farm. Paweł Szymański	IMPLEMENTATION DOCTORATE	1	prof. dr hab. n. farm. Paweł Szymański	Modifications of cellulose production in order to obtain an intermediate for pharmaceutical excipients.	Pharmacy Chemistry
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