

Research topics in the discipline of medical sciences
in the academic year 2025/2026

Lp.	PhD Supervisor	ORCID	Contact	Research topics	Language of the doctoral dissertation
1	Prof. dr hab. Waldemar Broła, prof. UJK	0000-0002-7955-3454	wbrola@wp.pl waldemar.brola@ujk.edu.pl tel. 601313415	Epstein-Barr virus infection and the pathogenesis of multiple sclerosis	Polish
3	dr hab. prof. UJK Ewa Orlewska	0000-0001-5731-4316	eorl@ujk.edu.pl	Health technology assessment, budget impact analysis, utility of health states, genetics of diabetes, cancer epidemiology, the availability of medical services	Polish
4	Prof. dr hab. Zbigniew Siudak	0000-0002-8033-3977	zbigniew.siudak@ujk.edu.pl	<ol style="list-style-type: none"> 1. Obesity. 2. Heart failure. 3. Variation in access to medical care and guideline-recommended therapies in cardiology. 4. Heavy metals and nano-plastics in atherosclerotic material from cadavers. 	Polish
6	Dr hab. Wojciech Kiebzak prof. UJK	0000-0001-6035-6568	wojciech.kiebzak@ujk.edu.pl tel. 501621259	<ol style="list-style-type: none"> 1. Determinants of occupational well-being among healthcare professionals in the context of ethical-professional attitudes, perceived ethical climate, and therapeutic team culture - a study of a selected professional group Requirements: <ul style="list-style-type: none"> • completed Master's degree in Health Sciences, Medical Sciences, or a related field, • basic knowledge of research methodology, • interest in professional ethics and the functioning of healthcare personnel, • ability to critically analyse the scientific literature, • readiness for systematic and independent research work. Preferred: <ul style="list-style-type: none"> • professional experience in healthcare or empirical research, • a preliminary research concept related to the topic. 2. Geometric model for assessing sternum-pelvis-spine relationships in different functional body positions Requirements: <ul style="list-style-type: none"> • completed Master's degree in Health Sciences, Medical Sciences, Physiotherapy, Biomechanics, or a related field, • basic knowledge of research methodology, 	Polish, English

				<ul style="list-style-type: none"> • interest in body posture, biomechanics, and movement analysis, • ability to critically analyse the scientific literature, • readiness for systematic research work using diagnostic and measurement equipment. <p>Preferred:</p> <ul style="list-style-type: none"> • clinical or research experience in postural assessment or musculoskeletal analysis, • basic knowledge of geometry (including Euclidean geometry) or biomechanics, • experience with diagnostic tools (e.g. DIERS Formetric 4, sEMG, Saunders inclinometer) or willingness to acquire such skills, <p>3. a preliminary research concept</p>	
7	Prof. dr hab. Grażyna Nowak-Starz, specialist in the field of public health	0000-0001-7804-2129	gnowakstarz@ujk.edu.pl grazyna.nowak-starz@ujk.edu.pl tel. 600 433 734	<ol style="list-style-type: none"> 1. Public health. 2. Quality of life in the context of lifestyle diseases. 3. Interpersonal competencies, including intercultural ones, of medical students and teamwork for the benefit of patients. 4. The healthcare system - management, adverse events, and medical errors. 5. The quality of medical services provided in the context of the functioning of medical professions. 	Polish
8	Dr hab. Piotr Lewitowicz, prof. UJK	0000-0002-5443-7975	piotr.lewitowicz@ujk.edu.pl , tel. 604420369	<ol style="list-style-type: none"> 1. The expression level of fibroblast growth factor receptor on the course of colorectal cancer. 2. The role of cancer-associated fibroblasts on the course of colorectal cancer. 3. The role of cancer stem cells in colorectal cancer. 	Polish / English
9	Dr hab. Tomasz Rogula, Prof. UJK	0000-0002-8719-6880	tomasz.rogula@ujk.edu.pl tomrogula@gmail.com tel. +1(216)2969053	<ol style="list-style-type: none"> 1. Metabolic Syndrome Prevalence and Response to Medical and Surgical Therapy - Multi Ethnic Longitudinal Study. 2. Machine Learning Image Processing in Recognizing Intra-peritoneal Features of Metabolic Syndrome. 3. Artificial Intelligence Algorithms in Search of Early Cardio Metabolic Syndrome and Prediction of Premature Cardiovascular Mortalities. 4. Short and Long Term Effects of Bariatric and Metabolic Surgery in South Texas vs Polish Patients. 5. Robotic Surgery - Multi Specialty Analyzes of Potential Benefits, Risks, Costs and Perspectives. 6. Gastro-Esophageal Reflux in Obese Patients Undergoing Bariatric Surgery: Prevalence, Outcomes of Surgical and Medical Therapies, Prevention and Management. 7. Prevention and Management of Medical and Surgical Complication in Cardio Metabolic Surgery. 	English / Polish

				<ol style="list-style-type: none"> 8. Short and Long Terms Outcomes of Bariatric Surgery in Patients with End Stage Renal Disease Undergoing Renal Transplantation. 9. Non-Alcoholic Fatty Liver Disease and Steatohepatitis - Prevalence in Different Ethnical Groups and Long Term Outcomes of Metabolic Surgery. 10. Cardiovascular Outcomes in Obese Patients Undergoing Metabolic Surgery. 11. Diabetes Control in Patients Undergoing Various Types of Bariatric Surgery in a Large Population; Short and Long Term Study. 	
12	Dr hab. Sylwia Terpiłowska	0000-0002-2988-9443	sylwia.terpilowska@ujk.edu.pl	<ol style="list-style-type: none"> 1. Micronutrient metabolism and interactions in an <i>in vitro</i> system. 2. Preclinical studies of new drugs and biologically active substances using <i>in vitro</i> cell cultures. 3. Mechanisms of action of potential drugs. 4. Study of biocompatibility of biomaterials used in medicine and biotechnology. 5. Assessment of the toxicity of xenobiotics. 6. Determination of biomarkers in the diagnosis and treatment of diseases. 	English