

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

no.	PhD Supervisor	ORCID	contact	research topics	language of the doctoral dissertation
1.	Dr hab. Tomasz Rogula, Prof. UJK	0000-0002-8719-6880	tomasz.rogula@ujk.edu.pl tomrogula@gmail.com , tel. +1(216)2969053	– Metabolic Syndrome Prevalence and Response to Medical and Surgical Therapy - Multi Ethnic Longitudinal Study. – Machine Learning Image Processing in Recognizing Intra-peritoneal Features of Metabolic Syndrome. – Artificial Intelligence Algorithms in Search of Early Cardio Metabolic Syndrome and Prediction of Premature Cardiovascular Mortalities. – Short and Long Term Effects of Bariatric and Metabolic Surgery in South Texas vs Polish Patients. – Robotic Surgery - Multi Specialty Analyzes of Potential Benefits, Risks, Costs and Perspectives. – Gastro-Esophageal Reflux in Obese Patients Undergoing Bariatric Surgery: Prevalence, Outcomes of Surgical and Medical Therapies, Prevention and Management. – Prevention and Management of Medical and Surgical Complication in Cardio Metabolic Surgery. – Short and Long Terms Outcomes of Bariatric Surgery in Patients with End Stage Renal Disease Undergoing Renal Transplantation. – Non-Alcoholic Fatty Liver Disease and Steatohepatitis - Prevalence in Different Ethnical Groups and Long Term Outcomes of Metabolic Surgery. – Cardiovascular Outcomes in Obese Patients Undergoing Metabolic Surgery. – Diabetes Control in Patients Undergoing Various Types of Bariatric Surgery in a Large Population; Short and Long Term Study.	Polish, English

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2.	dr hab. Wojciech Kiebzak, prof. UJK	0000-0001-6035-6568	wojciech.kiebzak@ujk.edu.pl tel. 501621259	– 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 Preferred: • 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, • professional experience in healthcare or empirical research, • a preliminary research concept related to the topic. – Geometric model for assessing sternum-pelvis-spine relationships in different functional body positions Preferred: • completed Master's degree in Health Sciences, Medical Sciences, Physiotherapy, Biomechanics, or a related field, • basic knowledge of research methodology, • 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, • clinical or research experience in postural assessment or musculoskeletal analysis,	Polish, English
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				• 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, • a preliminary research concept	
3.	dr hab. Sylwia Terpiłowska	0000-0002-2988-9443	sylwia.terpilowska@ujk.edu.pl	– Micronutrient metabolism and interactions in an in vitro system. – Preclinical studies of new drugs and biologically active substances using in vitro cell cultures. – Mechanisms of action of potential drugs. – Study of biocompatibility of biomaterials used in medicine and biotechnology. – Assessment of the toxicity of xenobiotics. – Determination of biomarkers in the diagnosis and treatment of diseases.	Polish, English
8	Dr hab. Piotr Lewitowicz, prof. UJK	0000-0002-5443-7975	piotr.lewitowicz@ujk.edu.pl, tel. 604420369	– The expression level of fibroblast growth factor receptor on the course of colorectal cancer. – The role of cancer-associated fibroblasts on the course of colorectal cancer. – The role of cancer stem cells in colorectal cancer.	Polish, English