

LIST OF PHD RESEARCH TOPICS AND SUPERVISORS FOR THE FIELD OF **PHARMACY** IN THE  
AREA OF MEDICAL AND HEALTH SCIENCES FOR THE YEAR 2026

No.	Department	Research topic	Supervisor	Consultant
1	Faculty of Pharmacy Department of Analytical and Toxicological Chemistry	Pharmaceutical potential of <i>Ruta graveolens</i> L.: phytochemical analysis, fractionation, and <i>in vivo/in vitro</i> bioactivity studies	Prof. Dr. O. Mykhailenko (National University of Pharmacy)	Dr. M. Marksa
2	Faculty of Pharmacy Institute of Pharmaceutical Technologies	Evaluation of the physicochemical behavior and release kinetics of phytochemical compounds using 3D-printed model matrices	Prof. Dr. V. Jakštas	
3	Faculty of Pharmacy Institute of Pharmaceutical Technologies	Pharmacological targets and mechanism of action of miRNAs from extracellular vesicles of lemon balm in cell models of mitochondria-dependent inflammation	Dr. A. Jekabsone	
4	Faculty of Pharmacy Institute of Pharmaceutical Technologies	Nanoencapsulation of chickweed ( <i>Stellaria media</i> ) extracts, development of transdermal pharmaceutical dosage forms, and quality evaluation	Dr. L. Pudžiuvelytė	
5	Faculty of Pharmacy Institute of Pharmaceutical Technologies	Mechanochemically controlled, autonomously self-contracting injectable hydrogels for predictable and on-demand-triggered release of extracellular vesicles, nanoparticles, and pharmaceutical agents	Dr. A. Samanta (Uppsala University)	
6	Faculty of Pharmacy Department of Pharmacognosy	Isolation of proanthocyanidin-rich phenolic fractions, evaluation of biological activity, and applicability studies for the development of sustainable bioactive ingredients	Prof. Dr. L. Raudonė	
7	Faculty of Pharmacy Department of Pharmacognosy	Berberine nanoformulations for hyperthermic intraperitoneal chemotherapy (HIPEC): modeling and evaluation of biological activity <i>in vitro</i> and <i>ex vivo</i>	Prof. Dr. N. Savickienė	Assoc. Prof. Dr. G. Kasparavičienė
8	Faculty of Pharmacy Department of Clinical Pharmacy	Development of a mesenchymal stem cell exosome-based biologic product prototype and evaluation of its pharmacological effects on human skin and hair follicle tissues <i>in vitro</i> and <i>ex vivo</i> toward the treatment of inflammatory skin diseases	Prof. Dr. V. Briedis	Dr. J. Mačiulaitis