

No.	Supervisor(s)	Project title	Implementing unit
1	dr hab. Agnieszka Bazyłko	Evaluation of the effect of <i>Arctii folium</i> on wound healing in vitro using cell based models	Chair and Department of Pharmaceutical Biology, Faculty of Pharmacy, Medical University of Warsaw
2	dr hab. Agnieszka Bazyłko	Investigation chemotaxonomic differences of chosen <i>Geum</i> species traditionally used in medicine by HPTLC method	Chair and Department of Pharmaceutical Biology, Faculty of Pharmacy, Medical University of Warsaw
3	prof. Sebastian Granica	Investigation of the chemical composition and gut microbiota metabolism of extracts from lemon balm leaves (<i>Melissa officinalis</i>)	Department of Pharmaceutical Biology, Faculty of Pharmacy, Medical University of Warsaw
4	prof. Sebastian Granica	Chemical analysis of secondary metabolites in chosen medicinal fungi	Department of Pharmaceutical Biology, Faculty of Pharmacy, Medical University of Warsaw
5	prof. Sebastian Granica	Analysis of bioactive compounds in chosen products containing <i>Origanum vulgare</i>	Department of Pharmaceutical Biology, Faculty of Pharmacy, Medical University of Warsaw
6	prof. Sebastian Granica	Chemical analysis of essential oils used in aromatherapy with GC MS analysis	Department of Pharmaceutical Biology, Faculty of Pharmacy, Medical University of Warsaw
7	prof. Sebastian Granica	The influence of chosen plant extracts on the inflammatory response of keratinocytes and/or fibroblasts in the context of their traditional use in skin diseases	Department of Pharmaceutical Biology, Faculty of Pharmacy, Medical University of Warsaw
8	Prof. Piotr Luliński	Molecularly imprinted polymers based drug delivery devices	Department of Organic and Physical Chemistry
9	dr Paweł Siudem	Investigation of the photoprotective potential of plant-derived extracts: chemical characterization, spectrophotometric evaluation and in silico analysis	Department of Organic and Physical Chemistry
10	dr Agnieszka Zielińska	Dietary supplements containing plant extracts - composition analysis and comparison with product labeling	Department of Organic and Physical Chemistry, Faculty of Pharmacy, Medical University of Warsaw
11	dr hab. Katarzyna Paradowska	The pharmaceutical availability of hydrogels with plant extracts of anti-inflammatory properties	Department of Organic and Physical Chemistry, Faculty of Pharmacy, Medical University of Warsaw
12	dr Katerina Makarova	Machine Learning for Predicting Toxicological Effects in Zebrafish Embryos Exposed to Environmental Stressors	Chair and Department of Organic and Physical Chemistry

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13	dr hab. Anna Leśniak	The role of the microglial TLR/NF-kB/NLRP pathway in the suppression of morphine-induced hyperalgesia by disulfiram	Department of Pharmacotherapy and Pharmaceutical Care
14	dr Małgorzata Jeziorek	Betacyanin Accumulation in Alternanthera spp. In Vitro Cultures as a Model for Natural Pigment Production	Department of Pharmaceutical Biology
15	prof. Joanna Giebultowicz, dr Bartosz Kózka	Laccase as the alternative method of removal of pharmaceuticals from the environment	Department of Drug Chemistry, Pharmaceutical and Biomedical Analysis
16	prof Joanna Giebultowicz, dr Sylwia Michorowska	Metabolomic Assessment of Microplastic-Induced Toxicity in Aquatic Organisms	Department of Drug Chemistry, Pharmaceutical and Biomedical Analysis
17	prof Joanna Giebultowicz, mgr Agnieszka Kalicka	Counterfeit Medicines: Quality Analysis of Seized Products	Department of Drug Chemistry, Pharmaceutical and Biomedical Analysis
18	prof. Joanna Giebultowicz, dr Krzysztof Stępień	Quality Assessment of Selected Dietary Supplements for reduction of body weight	Department of Drug Chemistry, Pharmaceutical and Biomedical Analysis
19	dr inż. Aleksandra Kruk	Effects of Geum urbanum extract and its oral microbiota-derived metabolites on gingival epithelial cell defense mechanisms	Department of Pharmaceutical Biology
20	dr Weronika Skowrońska	Effects of natural products on vaginal epithelial cell viability and epithelial regeneration	Department of Pharmaceutical Biology
21	dr Grzegorz Ślifirski	Analytical Method Development for Assessing the Pharmaceutical Availability of Furagine from Prolonged-Release Preparations	Department of Drug Technology and Pharmaceutical Biotechnology
22	prof. dr hab. Katarzyna Sykłowska-Baranek	Harnessing plant biotechnology in anti-aging studies	Department of Pharmaceutical Biology
23	dr inż. Aleksandra Kruk	Modulation of oral microbiota, pathogen virulence factors, and host-microbe interactions by Geum urbanum extract and its oral microbiota-derived metabolites	Department of Pharmaceutical Biology
24	dr Weronika Skowrońska	Discovery and characterization of bacteriocin-producing bacteria from the vaginal microbiota	Department of Pharmaceutical Biology
25	dr Eliza Malinowska	Kinetics of ciprofloxacin biodegradation by a ligninolytic fungus	Department of Drug Technology and Pharmaceutical Biotechnology
26	dr Małgorzata Kołtun-Jasion	Effects of phytocannabinoids and Cannabis extracts on intestinal barrier function in a Caco-2 model.	Department of Pharmaceutical Biology

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27	prof. dr hab. Maciej Dawidowski	Accessing novel types of biologically active compounds	Chair and Department of Drug Technology and Pharmaceutical Biotechnology
28	prof. dr hab. Maciej Dawidowski	Synthesis of new compounds for treatment of neurological disorders	Chair and Department of Drug Technology and Pharmaceutical Biotechnology
29	dr hab. Edyta Pindelska	Mechanochemical Synthesis and Investigation of the Physicochemical Properties of Novel Ionic Cocystals of Active Pharmaceutical Ingredients	Department of Pharmaceutical Chemistry and Biomaterials
30	dr Marek Król	Optimization of Granulation Parameters for the Formulation of Extended-Release Furazidine Matrix Tablets	Department of Drug Technology and Pharmaceutical Biotechnology
31	dr Piotr Ślifirski	The effect of various polymeric substances on the pharmaceutical availability of furazidine from controlled-release tablets	Department of Drug Technology and Pharmaceutical Biotechnology
32	prof. Joanna Kolmas; mgr Wiktor Gregorowicz	Dual-Action Selenium(IV)-Substituted Calcium Phosphate/Cellulose Hybrid Platforms for Simultaneous Therapeutic Ion and Antiosteoporotic Drug Delivery	Department of Pharmaceutical Chemistry and Biomaterials
33	prof. Joanna Kolmas; dr Łukasz Pajchel	Gradient Intraosseous Carriers for Controlled Delivery of Silicates and Raloxifene Fabricated by Conventional and 3D Printing Techniques	Department of Pharmaceutical Chemistry and Biomaterials
34	dr Łukasz Pajchel	Use of silicate molecular sieve/hydroxyapatite composites as drug delivery systems for bone infections treatment.	Department of Pharmaceutical Chemistry and Biomaterials
35	dr Łukasz Pajchel	Development of 3D printing methods for natural polymer/ silicocarnotite composites for bone defects.	Department of Pharmaceutical Chemistry and Biomaterials
36	prof. dr hab. Maciej Dawidowski	Synthesis of amino acid derivatives for drug discovery purposes	Chair and Department of Drug Technology and Pharmaceutical Biotechnology
37	dr hab. Kinga Ostrowska	New derivatives of umbelliferone and fatty acids as potential anticancer agents.	Department of Organic and Physical Chemistry
38	prof. dr hab. Ireneusz P. Grudziński; dr hab. Magdalena Bamburówicz-Klimkowska	Magnetically Induced Transformation and Degradation of Doxorubicin in the Presence of Iron Oxide Nanoparticles under an Alternating Magnetic Field	Department of Toxicology and Food Science
39	prof. dr hab. Ireneusz P. Grudziński; dr Anna Małkowska	Xenograft Model of Glioblastoma in Zebrafish Embryos for In Vivo Tumor Growth Analysis	Department of Toxicology and Food Science

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40	prof. dr hab. Ireneusz P. Grudziński; dr Agnieszka Stawarska	Xenograft Model of Lung Cancer in Zebrafish Embryos for In Vivo Tumor Growth Analysis	Department of Toxicology and Food Science
41	prof. dr hab. Jakub Piwowarski	Natural products from selected fungal genera as a source of bioactive metabolites	Department of Pharmaceutical Microbiology and Bioanalysis
42	prof. dr hab. Jakub Piwowarski	In vitro cultivation and chemometric profiling of selected fungal genera.	Department of Pharmaceutical Microbiology and Bioanalysis
43	dr Anna Dworakowska	Comparative Analysis of Renal Safety Warnings in EMA SmPC and FDA Drug Labels for Antidiabetic Medications: Implications for Sick Day Management	Department of Pharmacotherapy and Pharmaceutical Care
44	dr Anna Dworakowska	Consistency Between SmPC Indications and International Clinical Guidelines in Type 2 Diabetes: Focus on Renal Safety and Nephroprotection	Department of Pharmacotherapy and Pharmaceutical Care
45	Prof. dr hab. Marcin Sobczak	Enzyme-responsive hydrogels as anti-cancer drug delivery systems - process design, synthesis, structural and physicochemical analysis.	Department of Pharmaceutical Chemistry and Biomaterials, Faculty of Pharmacy, Medical University of Warsaw
46	Prof. dr hab. Marcin Sobczak	Polyurethane hydrogels as anti-cancer drug delivery systems - synthesis, structural and physicochemical analysis.	Department of Pharmaceutical Chemistry and Biomaterials, Faculty of Pharmacy, Medical University of Warsaw
47	dr hab. Łukasz Szeleszczuk	Application of molecular modeling methods in the studies of inclusion complexes formed between drugs and cyclodextrins.	Department of Organic and Physical Chemistry