1. Application of microencapsulation in medical and pharmaceutical industry

SUPERVISOR: Dr hab. Anna Bajek, prof. UMK, Department of Tissue Engineering, Chair of Urology, Faculty of Medicine

- 2. Assessment of population invariant natural killer T (iNKT) cells by flow cytometry method SUPERVISOR: Dr Lidia Gackowska, Department of Immunology, Faculty of Pharmacy
- 3. Phenotypic and functional characteristics of mucosal associated invariant T cells MAITs in patients with civilization diseases (hypertension, cardiac diseases)

SUPERVISOR: Dr Małgorzata Wiese-Szadkowska, Department of Immunology, Faculty of Pharmacy

4. The quality evaluation and comperative analysis of selected drug dosage forms available in the Polish phamaceutical market

SUPERVISOR: Dr Joanna Ronowicz, Department of Inorganic and Analytical Chemistry, Faculty of Pharmacy

5. The relationship between the expression of STING adaptor protein and the profile of local and systemic immune responses to *H. pylori* infection

SUPERVISOR: Dr Anna Helmin-Basa, Department of Immunology, Faculty of Pharmacy

6. Phenotypic and functional characteristics of peripheral blood iNKT and MAIT cells in a group of pediatric patients with type 1 diabetes in relation to the presence of anti-Mycobacterium avium sybsp. Paratuberculosis antibodies

SUPERVISOR: Dr Izabela Kubiszewska, Department of Immunology, Faculty od Pharmacy

7. Solid phase microextraction in bioanalysis

SUPERVISOR: Dr hab. Barbara Bojko, prof. UMK, Department of Pharmacodynamics and Molecular Pharmacology, Faculty of Pharmacy

8. Selected drugs action in the nervous system - molecular modeling study

SUPERVISOR: Dr hab. Alicja Nowaczyk, prof. UMK, Department of Organic Chemistry, Faculty of Pharmacy

9. Analysis of ciprofloxacin influence on bladder cancer cells, in vitro study

SUPERVISOR: Dr hab. Marta Pokrywczyńska, prof. UMK, Department of Refeneratice Medicine, Cell and Tissue Bank, Chair of Urology, Faculty of Medicine

10. Thromboelastometry in full-term infants: establishing reference ranges in cord blood and an association with routine screening coagulation tests

SUPERVISOR: Dr hab. Artur Słomka, prof. UMK, Department of Pathophysiology, Faculty of Pharmacy

11. Synthesis and spectroscopy characteristic of the new ruthenium complexes with potential anticancer properties

SUPERVISOR: Dr Monika Richert, Department of Inorganic and Analytical Chemistry, Faculty of Pharmacy

12. Sampling devices for the determination of pharmacologically active compounds from oral fluid

SUPERVISOR: Dr Krzysztof Goryński, Bioanalysis Scietific Group, Faculty of Pharmacy

13. New technologies in management of perioperative anxiety in cardiac surgery patients SUPERVISOR: Dr hab. Wojciech Pawliszak, prof. UMK, Department of Cardiac Surgery, Faculty of Medicine

14. The combined effect of norfloxacin and povidone-iodine on mixed-species biofilm formed by *Proteus mirabilis* and *Escherichia coli*

SUPERVISOR: Dr Joanna Kwiecińska-Piróg, Department of Microbiology, Faculty of Pharmacy

15. Biodegradable capsules for delivery of angicancer agents

SUPERVISOR: Dr hab. Anna Bajek, prof. UMK, Department of Tissue Engineering, Chair of Urology, Faculty of Medicine

16. Chitosan for future cancer cell encapsulation in tumor microenvironment (TME)

SUPERVISOR: Dr hab. Anna Bajek, prof. UMK, Department of Tissue Engineering, Chair of Urology, Faculty of Medicine