



Proposal of dissertation topics

Department of Medical and Clinical Biochemistry



Field of study: **General Medicine**

Study program: **Clinical Biochemistry – III. degree of study (PhD study)**

Supervisor (S)/Consultant (C)	Topic
doc. RNDr. Anna Birková , PhD.	Monitoring selected urinary biomarkers in nephrotic syndrome – C
doc. Ing. Katarína Dubayová , PhD.	Fluorescence metabolomics – analysis of body fluids of the new generation – S
	Possibilities for laboratory detection of increased cardiometabolic risk in the pediatric – S
Ing. Denisa Harvanová , PhD.	New approaches for monitoring the regeneration of damaged cells – C
	Extracellular Vesicles as Modulators of Inflammatory Joint Disease – S
MUDr. Renáta Lenártová , PhD.	Study and analysis of methods for determining LDL-cholesterol using the latest methods in patients with selected diseases – C
	Possibilities for laboratory detection of increased cardiometabolic risk in the pediatric – C
prof. Ing. Mária Mareková , CSc.	Study and analysis of methods for determining LDL-cholesterol using the latest methods in patients with selected diseases – S
	Possibilities for laboratory detection of increased cardiometabolic risk in the pediatric – S
doc. RNDr. Jana Mašlanková , PhD.	Characterisation of the tumor microenvironment in pancreatic ductal adenocarcinoma – S
RNDr. Jana Matejová , PhD.	Modulation of the inflammatory microenvironment of osteoarthritis by extracellular vesicles: the role of macrophage polarization and chondrocyte response – S
prof. RNDr. Miroslava Rabajdová , PhD.	Study of molecular and environmental determinants of reproductive health in the Slovak population - S
	Application of multimodal approaches in endometrial receptivity profiling – S
RNDr. Lucia Slovinská , PhD.	Optimization and validation of methods for isolating extracellular vesicles from biological fluids for clinical practice – S
prof. RNDr. Ján Šalagovič , PhD.	Genetic and Molecular Predictors of the Efficacy and Toxicity of Opioid Analgesics – C
RNDr. Terézia Šimková , PhD.	Analysis of the relationships between depression and metabolic disorders in the context of intervention possibilities – S
prof. RNDr. Vladimíra Tomečková , PhD.	New approaches for monitoring the regeneration of damaged cells – S
prof. RNDr. Janka Vašková , PhD.	Genetic and Molecular Predictors of the Efficacy and Toxicity of Opioid Analgesics – S
	Personalizing opioid therapy based on genetic and clinical predictors: a prospective evaluation of the efficacy and safety of pain treatment – S