

LIST OF DISSERTATIONS TOPICS FOR DOCTORAL STUDIES COURSES IN 2021

NATURAL SCIENCES

Scientific area	Topics of doctoral dissertations	Supervisors
BIOCHEMISTRY – N 004	1. <i>Application of self-assembled supramolecular systems in biosensors</i>	Dr. Gintautas Bagdžiūnas
	2. <i>Characterisation of new probiotic strains in vivo with anti-inflammatory and anti-diabetic functions</i>	Dr. Aurelijus Burokas
	3. <i>The role of lipid bilayer for lipid-biomolecule interaction</i>	Dr. Marija Jankunec
	4. <i>Origin, evolution and diversity of Cas9 and Cas12 proteins</i>	Dr. Darius Kazlauskas
	5. <i>Single-cell epigenomics and transcriptomics using droplet microfluidics</i>	Dr. Linas Mažutis
	6. <i>Single cell transcriptomics: diseased and healthy human tissues</i>	Dr. Linas Mažutis
	7. <i>Single-cell genotyping using microfluidics technology</i>	Dr. Linas Mažutis
	8. <i>Study of flavin-dependent oxygenases active towards N-heterocyclic compounds</i>	Prof. Rolandas Meškys
	9. <i>Study of ASCH domain containing proteins</i>	Prof. Rolandas Meškys
	10. <i>Epigenetic and gene expression profiling of human reproduction system stromal cells</i>	Prof. Rūta Navakauskienė
	11. <i>Statins in lipid membrane modulation for cancer therapy</i>	Dr. Giulio Preta
	12. <i>Interplay between viral elements in the Saccharomyces yeast</i>	Prof. Saulius Serva
	13. <i>Modern research models and novel technologies for cancer metastases research</i>	Prof. Kęstutis Sužiedėlis
	14. <i>Mechanistic studies of novel antiviral defense systems</i>	Prof. Virginijus Šikšnys
	15. <i>Exploration and application of novel genome editing tools</i>	Prof. Virginijus Šikšnys
	16. <i>Computational analysis and prediction of protein interactions</i>	Prof. Česlovas Venclovas
	17. <i>Studies of interactions between nucleic acids and proteins of bacterial defense systems at single-molecules level</i>	Dr. Mindaugas Zaremba
	18. <i>Investigation of macrophage activation by immune complexes of viral proteins and antibodies</i>	Dr. Aurelija Žvirblienė
	19. <i>Development of oligonucleotide-based electrochemical sensors</i>	Dr. Marius Dagys