

LIST OF DISSERTATIONS TOPICS FOR DOCTORAL STUDIES COURSES IN 2020

NATURAL SCIENCES

Scientific area	Topics of doctoral dissertations	Supervisors
BIOCHEMISTRY – N 004	1. <i>Virulence factors and their role in pathogenesis of emerging Gram-negative bacterial pathogens</i>	Dr. Julija Armalytė
	2. <i>Application of self-assembled supramolecular systems in biosensors</i>	Dr. Gintautas Bagdžiūnas
	3. <i>Interaction between misfolded proteins and phospholipid membranes</i>	Dr. Rima Budvytytė
	4. <i>Biomarkers of the gut microbiota in autistic spectrum disorders</i>	Dr. Aurelijus Burokas
	5. <i>Involvement of the microbiota in the development of food addiction</i>	Dr. Aurelijus Burokas
	6. <i>The role of cell signaling perturbation for the acquisition of drug resistance in cancer cells</i>	Dr. Mindaugas Valius
	7. <i>Creation of biosensors for measurement of analytes at low concentrations</i>	Dr. Marius Dagys
	8. <i>Creation of biosensors for remote environmental monitoring</i>	Dr. Marius Dagys
	9. <i>Identification of new Polyomaviruses and investigation of their evolutionary history and interaction with their hosts</i>	Dr. Alma Gedvilaitė
	10. <i>Interplay between chromatin structure and DNA modification in cancer cells</i>	Dr. Edita Kriukienė
	11. <i>Construction and characterization of prodrug-activating enzymes</i>	Dr. Rolandas Meškys
	12. <i>Recombinantly produced bacteriocins for infection treatment</i>	Dr. Aušra Ražanskienė
	13. <i>Establishment of screening systems for polymer degrading enzymes</i>	Dr. Jonita Stankevičiūtė
	14. <i>Emerging opportunistic bacterial pathogens and their antibiotic resistance mechanisms</i>	Dr. Edita Sužiedeliene

	<i>15. Research of bacteriophages and their components as biocontrol agents</i>	Dr. Eugenijus Šimoliūnas
	<i>16. Chemoenzymatic synthesis of modified nucleotides</i>	Dr. Daiva Tauraitė
	<i>17. Computational studies of prokaryotic antiviral defense systems in viruses</i>	Dr. Česlovas Venclovas Dr. Darius Kazlauskas
	<i>18. New approaches for the analysis of DNA methyltransferase-specific methylome</i>	Dr. Giedrius Vilkaitis