

LIST OF DISSERTATIONS TOPICS FOR DOCTORAL STUDIES COURSES IN 2022

NATURAL SCIENCES

Scientific area	Topics of doctoral dissertations	Supervisors
BIOLOGY – N 010	1. <i>Creation of cell therapies enabled by CRISPR nucleases and iPS cells – HSC</i>	Dr. Jonathan Arias
	2. <i>Viral membrane fusion protein class switching during RNA virus evolution</i>	Dr. Gytis Dudas
	3. <i>The uncharacterized or low characterized microbial lipolytic and lipolytic-like enzymes: analysis of substrate specificity and thermostability</i>	Doc. Renata Gudiukaitė
	4. <i>Screening and characterization of new bacterial polyesterases</i>	Doc. Renata Gudiukaitė
	5. <i>Influence of genetic mutations on the outcome of radiotherapy for prostate cancer</i>	Prof. Sonata Jarmalaitė
	6. <i>Development of high-throughput oncology drug screening technologies</i>	Prof. Sonata Jarmalaitė – supervisor Dr. Rasa Sabaliauskaitė – consultant
	7. <i>Evaluation of transport of hybrid lipid-polymer nanoformulations modified with homing peptides in 2D and 3D cell cultures</i>	Dr. Vilma Petrikaitė
	8. <i>Full-length, targeted sequencing of CRISPR-Cas systems in microbial ecosystems</i>	Dr. Giancarlo Russo
	9. <i>Effect of excess amounts of micronutrients and phthalates found in water on mammalian development</i>	Prof. Violeta Žalgevičienė – supervisor Dr. Virginija Bukelskienė – consultant