Science & Technology and Bioengineering Theses Defenses 2026

1st of June (Monday)			
#	**Time**	**Student's Name**	**The Topic of The Thesis**
1	10:00 - 10:30	Natavan Aliyeva	Engineering and Validation of Single-Cycle Alphavirus Replicon Particles
2	10:30 - 11:00	Mariya Roy	Expression Patterns of Ataxia-Associated Genes During Human Cerebellum Development
3	11:00 - 11:30	Adiya Raimkul	Characterization of HEMK2 in nuclear shape regulation
4	11:30 - 12:00	Liva Mazure	Brain-derived neurotrophic factor profiles in type 1 diabetes: a comparison between patients with and without ketoacidosis
	12:00 - 13:00	**Lunch Break**	
5	13:00 - 13:30	Ayman Mahal	Ecotoxicity of monomer, polymers and dihydrazides using Dapnia Magna and Spirodela Polyrhiza
6	13:30 - 14:00	Kateryna Turchak	Development of Low-Level Control System for the KuupKulgur Rover
7	14:00 - 14:30	Kateryna Chaharna	Gen2PhenSim: a configurable genotype to phenotype simulator
8	14:30 - 15:00	Marta Klavina	The Role of HvSnRK2.7 and HvSnRK2.9 in Stomatal Regulation of Barley

2nd of June (Tuesday)			
#	**Time**	**Student's Name**	**The Topic of The Thesis**
1	09:30 - 10:10	Brayan Stiveen Rodriguez Morales	Molecular crosstalk at the endometrium-embryo interface
2	10:10 - 10:40	Polina Khrystynchenko	Cell-penetrating peptides for in vitro delivery of small interfering RNA and splice-correcting oligonucleotides
3	10:40 - 11:10	Anna Civciša	Regulation of NF-κB-mediated inflammatory responses by miR-378a-3p in 3D epidermal model
4	11:10 - 11:40	Temma Suzuki	Sign Language Recognition and Reasoning Pipeline for Human-Robot Interaction
	11:40 - 12:40	**Lunch Break**	
5	12:40 - 13:10	Mouna Belkouraichi	Genetic and molecular factors affecting vitamin B12 levels in Estonian Biobank
6	13:10 - 13:40	Oleksandr Kholonivskyi	Characterizing the genomic diversity of prevalent gut microbiome bacterial species using metagenome-assembled genomes
7	13:40 - 14:10	Oleksandr Syritka	Describing the non-canonical Restriction-Modification type II system (RMII) in Pseudomonas putida PaW85
8	14:10 - 14:40	Evgeniya Shabanova	Development of Taï Forest alphavirus trans-replicase assay systems in mammalian and insect cells

3rd of June (Wednesday)			
#	**Time**	**Student's Name**	**The Topic of The Thesis**
1	09:30 - 10:00	Sofiia Stefaniia Polishchuk	Investigating the genetic and ancestral diversity of an immune response locus
2	10:00 - 10:30	Viktoriia Vydzhak	Functional analysis of βCA1 splice forms in stomatal CO_2 responses
3	10:30 - 11:00	Yigithan Keskin	Vision-Based Human Posture and Gesture Recognition for SemuBot
4	11:00 - 11:30	Anastasiya Ivashyna	Electrode materials for water splitting in alkaline electrolysis
	11:30 - 12:30	**Lunch Break**	
5	12:30 - 13:00	Syed Muhammad Kumail Mehdi Abidi	Study of Direct Current Electrocatalytic Hydrogen Evolution on Bismuth (111) Electrode In Diluted Acidic Solutions
6	13:00 - 13:40	Yelyzaveta Gushchyna	Establishing Phosphorylated Human Protein Kinase N3 Generation via PDPK1 Co-expression in Sf9 cells
7	13:40 - 14:20	Isuri Anuththara Perera Geekiyanage	Evaluation of PF14-derived cell-penetrating peptides for functional delivery of plasmid DNA
8	14:20 - 15:00	Nargiz Mammadzada	Modelling Parkinson's Disease pathology using MITF mutant mice

4th of June (Thursday)			
#	**Time**	**Student's Name**	**The Topic of The Thesis**
1	09:30 - 10:00	Tamara Rudman	Investigation of epitranscriptomic regulation in Scribble-mediated epithelial polarity disruption during Drosophila eye development
2	10:00 - 10:40	Blessing Ambang Ekwebe	Removal of Nitrogen and Pharmaceutical Compounds in a Biofilm System
3	10:40 - 11:20	Julija Grigorjeva	Characterization of Stress responses in Pseudomonas putida using Plasmid-based Fluorescent Reporter Systems
4	11:20 - 12:00	Vjacheslav Morozov	A Comparative Life Cycle Assessment of Hydrogel and Polydimethylsiloxane (PDMS) Actuators
	12:00 - 13:00	**Lunch Break**	
5	13:00 - 13:40	Mariza Wartabidian	Modified cell-penetrating peptides for delivery of splice-correction oligonucleotides and small interfering RNA
6	13:40 - 14:20	Karlis Dievinš	The effect of loss-of-function of adaxially or abaxially enriched genes on stomatal patterning in Arabidopsis thaliana
7	14:20 - 15:00	Anna Akulich	Timing of bactericidal activity of fluoroquinolones against nongrowing uropathogenic Escherichia coli
8	15:00 - 15:30	Henri Planken	mRNA-based CAR-T Cell Engineering via Antibody-Conjugated Lipid Nanoparticles