

# List of recent doctoral theses (biochemistry, biophysics, biology, ecology and environmental, zoology, forestry) in Lithuania

Compiled by Indrė LIPATOVA

Detailed information on the theses can be found at the “Theses and Dissertations” section of the Lithuanian Academic Electronic Library: [https://elaba.lvb.lt/primolibrary/libweb/action/search.do?vid=ELABA&prefLang=en\\_US&afterPDS=true](https://elaba.lvb.lt/primolibrary/libweb/action/search.do?vid=ELABA&prefLang=en_US&afterPDS=true)

Thesis title	Branch	Author	Date of defence	Supervisor(s)
Epigenetic regulation and leukaemia – research of novel biological, molecular and therapeutic aspects	Biochemistry	Giedrė Valiulienė	12 January 2018	Prof. Dr. Rūta Navakauskienė, Vilnius University
Molecular mechanisms of quinine- and polyphenol- induced mouse hepatoma cell death	Biochemistry	Rasa Jarašienė-Burinskaja	30 March 2018	Habil. Dr. Narimantas Čėnas, Vilnius University
Optimization of polyomavirus VP1 protein biosynthesis in <i>S. cerevisiae</i> cells and application of recombinant virus-like particles for serology	Biochemistry	Milda Norkienė	12 April 2018	Dr. Alma Gedvilaitė, Vilnius University
Target RNA-dependent catalytic activities in a type III-A CRISPR-CAS system	Biochemistry	Miglė Kazlauskienė	19 June 2018	Dr. Gintautas Tamulaitis, Vilnius University
Development of microfluidic techniques for cancer and other biological research	Biochemistry	Vaidotas Kise-liovas	21 August 2018	Dr. Linas Mažutis, Vilnius University
Structure and function correlations within the atypical ATP-dependent restriction endonuclease CglI	Biochemistry	Paulius Toliušis	20 September 2018	Dr. Mindaugas Zaremba, Vilnius University
Metabolic enzymes of modified nucleotides	Biochemistry	Agota Aučynaitė	21 September 2018	Dr. Jaunius Urbonavičius, Vilnius University
Investigation of human carbonic anhydrase VI and IX inhibitor efficacy and toxicity	Biochemistry	Justina Kazokaitė	28 September 2018	Prof. Dr. Daumantas Matulis, Vilnius University
Role of systemic and local immunity in tumour development and response to treatment	Biochemistry	Agata Mlynska	28 September 2018	Dr. Vita Pašukonienė, Vilnius University

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Molecular determinants of Totiviridae family viruses of <i>Saccharomyces sensu stricto</i> clade	Biochemistry	Aleksandras Konovalovas	28 September 2018	Prof. Dr. Saulius Serva, Vilnius University
The studies of amniotic fluid and amniotic fluid stem cells	Biochemistry	Sandra Baronaitė	28 November 2018	Prof. Dr. Rūta Navakauskienė, Vilnius University
Recognition of modified cytosine by methyl-directed restriction endonucleases	Biochemistry	Evelina Zagorskaitė	19 December 2018	Dr. Giedrius Sasnauskas, Vilnius University
Response properties of motoneurons during spinal neural network activity	Biophysics	Ramūnas Grigonis	31 January 2018	Prof. Dr. Aidas Alaburda, Vilnius University
Inactivation of food pathogens by photoactivated chlorophyllin: mechanism of action, optimization and possible applications	Biophysics	Irina Buchovec	29 June 2018	Prof. Habil. Dr. Živilė Lukšienė, Vilnius University
Molecular mechanisms of Cx36 gap junction gating	Biophysics	Vaidas Jotautis	3 July 2018	Prof. Dr. Vytenis Arvydas Skeberdis, Lithuanian University of Health Sciences
Associations of brain electrical activity with heart rate regulation and body awareness	Biophysics	Mindaugas Baranauskas	8 November 2018	Assoc. Prof. Dr. Rytis Stanikūnas, Assoc. Prof. Dr. Inga Griškova-Bulanova, Vilnius University
The investigation of sodium valproate effect on the invasion and neo-angiogenesis of small cell lung cancer cell line tumours using chicken embryo chorioallantoic membrane	Biology	Lina Šlekienė	11 June 2018	Prof. Habil. Dr. Angelija Valančiūtė, Lithuanian University of Health Sciences
The role of micro-RNA molecules in colorectal cancer	Biology	Simonas Juzėnas	12 June 2018	Prof. Habil. Dr. Limas Kupčinskas, Lithuanian University of Health Sciences
Identification, heterologous biosynthesis and characterization of novel bacteriocins from thermophilic bacteria	Biology	Arnoldas Kautietis	22 June 2018	Prof. Dr. Donaldas Jonas Čitavičius, Prof. Dr. Lilija Kalėdienė, Vilnius University
Gene expression and function-based identification of biomarkers for astrocytoma prognostication and diagnosis	Biology	Giedrius Steponaitis	22 June 2018	Dr. Arūnas Kazlauskas, Lithuanian University of Health Sciences

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Peculiarities of fast and slow adaptation of the cardiovascular system and changes in muscle work capacity applying blood flow restriction and exercise combinations	Biology	Kęstutis Bunevičius	28 June 2018	Prof. Habil. Dr. Jonas Liudas Poderys, Lithuanian Sports University
Investigation of mycoremediation and phytoremediation of creosote treated used wooden railway sleepers	Biology	Jurgita Mikašauskaitė	29 June 2018	Prof. Habil. Dr. Audrius Maruška, Vytautas Magnus University
Assessment of Bayesian probability theory model in use of evaluating immunosuppressants pharmacokinetics: study of renal transplant recipients	Biology	Aurelija Radzevičienė	9 July 2018	Prof. Dr. Edmundas Kaduševičius, Prof. Dr. Edgaras Stankevčius, Lithuanian University of Health Sciences
Physical activity impact on mental capacity for patients with depression disorder	Biology	Aistė Leleikienė	21 August 2018	Prof. Habil. Dr. Albertas Skurvydas, Lithuanian Sports University
The search of genetic and biochemical markers of asthma inflammatory nuclear factor kappa B pathway	Biology	Živilė Žemeckienė	27 August 2018	Prof. Dr. Astra Vitkauskienė, Lithuanian University of Health Sciences
The dynamics of basketball training efficiency indicators during training sessions, basketball games and recovery	Biology	Vytautas Pliauga	28 August 2018	Prof. Habil. Dr. Aleksas Stanislovas, Lithuanian Sports University
Effect of respiratory complex I inhibitors on mitochondrial permeability transition and cell viability during brain ischemia	Biology	Evelina Rekuviene	31 August 2018	Prof. Dr. Ramunė Morkūnienė, Lithuanian University of Health Sciences
Effect of three different motor strategies on central and peripheral fatigue and blood markers of stress	Biology	Laura Kyguolienė	14 September 2018	Prof. Habil. Dr. Albertas Skurvydas, Lithuanian Sports University
Effects of short-term calorie restriction on cardiovascular autonomic response, mood status, cognition and motor performance	Biology	Artūras Sujeta	21 September 2018	Prof. Habil. Dr. Jonas Liudas Poderys, Lithuanian Sports University
The impact of high intensity interval exercises on psychological, physiological biomarkers and neuromuscular system performance	Biology	Vaidas Verbickas	12 October 2018	Prof. Habil. Dr. Albertas Skurvydas, Lithuanian Sports University

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Human papillomavirus and the gene polymorphism involved in tumourogenesis effects on laryngeal and lung cancer patients' survival	Biology	Aušra Stumbrytė	26 October 2018	Dr. Živilė Gudlevičienė, Vilnius University
Marine litter pollution at the Lithuanian open sea and coastal areas	Ecology and environmental	Arūnas Balčiūnas	9 March 2018	Dr. Nerijus Blažauskas, Klaipėda University
Three-spined stickleback ( <i>Gasterosteus aculeatus</i> L.) in the Baltic Sea: feeding, ecology, and implications for stock identification	Ecology and environmental	Eglė Jakubavičiūtė	23 March 2018	Dr. Linas Ložys, Nature Research Centre
Accumulation of heavy metals in fish exposed to the multi-metal mixtures	Ecology and environmental	Gintarė Sauliūtė	17 April 2018	Dr. Gintaras Svecevičius, Dr. Tomas Virbickas, Nature Research Centre
<i>Thymus pulegioides</i> chemotypes in Lithuania: distribution, influence of edaphic and climatic factors, allelopathic characteristics	Ecology and environmental	Vaida Vaičiulytė	17 May 2018	Dr. Kristina Ložienė, Nature Research Centre
Studies of environmental genotoxicity and cytotoxicity effects in different fish species inhabiting the southern Baltic Sea region	Ecology and environmental	Roberta Valskienė	1 October 2018	Habil. Dr. Janina Baršienė, Nature Research Centre
Experimental studies of xenobiotics genotoxicity and cytotoxicity in fish erythrocytes	Ecology and environmental	Milda Stankevičiūtė	1 October 2018	Habil. Dr. Janina Baršienė, Nature Research Centre
Characterization of populations of invasive pathogens – causal agents of three major forest tree diseases: alder decline, Dutch elm disease and ash dieback	Ecology and environmental	Goda Norkutė	4 October 2018	Dr. Vaidotas Lygis, Nature Research Centre
Impacts of hydrometeorological conditions in raised bogs on radial stem dynamics in Scots pine ( <i>Pinus sylvestris</i> L.)	Ecology and environmental	Marija Tamkevičiūtė	12 October 2018	Doc. Dr. Julius Taminskas, Dr. Rūtilė Pukienė, Nature Research Centre
Evaluation of macrozoobenthos species sensitivity and application of Benthic Quality Index for the seabed status assessment of the south-eastern Baltic sea	Ecology and environmental	Romualda Chuševė	12 October 2018	Prof. Dr. Darius Daunys, Klaipėda University
Evolution of the Curonian Spit dunes	Ecology and environmental	Nikita Dobrotin	19 October 2018	Prof. Dr. Albertas Bitinas, Klaipėda University

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Loads, transport, and transformations of nutrients N, P, and Si along the river-lagoon-sea continuum	Ecology and environmental	Irma Vybernaitė-Lubienė	30 November 2018	Prof. Dr. Marco Bartoli, Klaipėda University
The effect of weather, space weather, green space, and air pollution in living environment on the risk of arterial hypertension and the increase in arterial blood pressure	Ecology and environmental	Agnė Brazienė	14 December 2018	Prof. Dr. Jonė Vencloviėnė, Vytautas Magnus University
Toxicological potential of semiconductor nanoparticles and their impact mechanisms to fish in early development	Ecology and environmental	Živilė Jurgelėnė	17 December 2018	Dr. Nijolė Kazlauskienė, Nature Research Centre
Avian haemosporidian parasites (Haemosporida): sporogonic development and determination of vectors	Ecology and environmental	Dovilė Bukauskaitė	28 December 2018	Habil. Dr. Gediminas Valkiūnas, Nature Research Centre
Dependence of phenotypic plasticity of forest tree species on genetic polymorphism	Forestry	Aušra Juškauskaitė	31 August 2018	Dr. Virgilijus Baliuckas, Lithuanian Research Centre for Agriculture and Forestry
Hyperspectral imaging possibilities of the assessment of tree characteristics	Forestry	Vytautė Juodkienė	19 December 2018	Prof. Dr. Gintautas Mozgeris, Aleksandras Stulginskis University
Spreading and ecological peculiarities of the black locust ( <i>Robinia pseudoacacia</i> L.) in Lithuanian conditions	Forestry	Sinilga Černulienė	19 December 2018	Dr. Vidas Stakėnas, Lithuanian Research Centre for Agriculture and Forestry
Response and commercial benefit of long-distance transfer of Scots pine ( <i>Pinus sylvestris</i> L.) populations	Forestry	Linus Bužinskas	20 December 2018	Prof. Dr. Darius Danusevičius, Aleksandras Stulginskis University
Distribution, abundance, and impact of non-native deciduous shrub species on forest phytocenoses structure and species composition	Forestry	Kristina Pratašienė	21 December 2018	Prof. Dr. Vitas Marozas, Aleksandras Stulginskis University