

# List of recent doctoral theses (biochemistry, biophysics, biology, ecology and environmental, 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)
Development of new methods for small RNA labeling	Biochemistry	Aleksandr Osipenko	6 March 2019	Prof. Dr Giedrius Vilkaitis, Vilnius University
Nanostructured bioelectrocatalytic systems based on oxidoreductases	Biochemistry	Dalius Ratautas	28 June 2019	Dr Lidija Tetianec, Vilnius University
The response of chemoresistant human colorectal cancer cells HCT116 to cytotoxic treatment	Biochemistry	Eglė Kukcinavičiūtė	6 September 2019	Prof. Dr Vida Kirvelienė, Assoc. Prof. Dr Aušra Sasnauskienė, Vilnius University
Defining cell populations and their conservation between human and mouse in airway epithelium and lung cancer by single cell RNA sequencing	Biochemistry	Rapolas Žilionis	20 September 2019	Dr Linas Mažutis, Vilnius University
Characterization of pore-forming toxin vaginolysin from <i>Gardnerella vaginalis</i>	Biochemistry	Milda Zilnytė	25 September 2019	Dr Milda Plečkaitytė, Prof. Dr Aurelija Žvirblienė, Vilnius University
Changes in plant agronomic performance and biochemical processes induced by seed treatment with cold plasma and electromagnetic field	Biochemistry	Giedrė Paužaitė	26 September 2019	Prof. Habil. Dr Vida Mildažienė, Vytautas Magnus University
Molecular mechanisms of <i>Acinetobacter baumannii</i> pathogenesis	Biochemistry	Jūratė Skerniškytė	27 September 2019	Prof. Dr Edita Sužiedėlienė, Vilnius University

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Investigation of Pyridine-ring-attacking Oxygenases	Biochemistry	Vytautas Petkevičius	27 September 2019	Prof. Dr Rolandas Meškys, Vilnius University
Regulation of differentiation and epigenetic mechanisms of amniotic fluid-derived stem cells	Biochemistry	Monika Gasiūnienė	27 September 2019	Prof. Dr Rūta Navakauskienė, Vilnius University
Application of modified nucleotides in biosynthesis of nucleic acids	Biochemistry	Algirdas Mikalkėnas	30 September 2019	Prof. Dr Saulius Serva, Vilnius University
Modified pyrimidine nucleotides for the synthesis of oligonucleotides	Biochemistry	Jevgenija Jakubovska	3 October 2018	Prof. Dr Rolandas Meškys, Vilnius University
Modelling of gap junction channel gating and its role in function of networks of neurons and cardiomyocytes	Biophysics	Kęstutis Maciūnas	10 May 2019	Prof. Habil. Dr Feliksas Bukauskas, Prof. Dr Vytautas K. Veršelis, Lithuanian University of Health Sciences
Midbody inheritance, degradation and functions	Biophysics	Paulius Gibieža	26 June 2019	Prof. Dr Rytis Prekeris, Lithuanian University of Health Sciences
Investigation of the dependence of brain auditory steady-state responses on stimulation type	Biophysics	Aleksandras Voicikas	1 July 2019	Dr Inga Griškova-Bulanova, Vilnius University
Investigation of cell membrane permeability, efflux of small intracellular molecules and cell viability after electroporation	Biophysics	Baltramiejus Jakštys	29 August 2019	Prof. Dr Saulius Šatkauskas, Vytautas Magnus University
Simultaneous and independent electrotransfer of DNA and small molecules and its dependence on external medium conductivity	Biophysics	Milda Jakutavičiūtė	30 August 2019	Prof. Dr Saulius Šatkauskas, Vytautas Magnus University
The photostability and phototoxicity studies of hydrophilic quantum dots in model biosystems	Biophysics	Agnė Kalnaitytė	11 October 2019	Prof. Dr Saulius Bagdonas, Vilnius University
Effects of sex and handedness on the hemodynamic response obtained in the human prefrontal cortex	Biophysics	Sigita Činčiūtė	27 November 2019	Prof. Dr Osvaldas Rukšėnas, Vilnius University
Peculiarities of the helminth fauna of mustelids (Mustelidae) in Lithuania	Biology	Dovilė Nugaraitė	15 March 2019	Prof. Dr Algimantas Paulauskas, Vytautas Magnus University

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The residual effect of sauna induced heat stress on cognition, neuromuscular function, and stress hormones level	Biology	Margarita Černych	30 April 2019	Prof. Dr Marius Brazaitis, Lithuanian Sports University
Epigenetic and genetic alterations of non-coding genome structures in gastric cancer pathogenesis	Biology	Rūta Steponaitienė	8 May 2019	Prof. Habil. Dr Limas Kupčinskas, Lithuanian University of Health Sciences
The influence of <i>in vitro</i> modulated mesenchymal stem cells on skin regeneration	Biology	Aušra Liubavičiūtė	14 June 2019	Prof. Dr Genė Biziuolevičienė, Centre for Innovative Medicine
Fundamental and applied studies of human mesenchymal stem cell secretome	Biology	Ugnė Jonavičė	21 June 2019	Dr Augustas Pivoriūnas, Centre for Innovative Medicine
Towards reconstruction of periodontal tissues using periodontal ligament mesenchymal stem cells	Biology	Alina Čebatariūnienė	28 June 2019	Dr Augustas Pivoriūnas, Centre for Innovative Medicine
Pulmonary effects of air pollution: evaluation of toxicity on lung alveolar and airway epithelium <i>in vitro</i> and <i>in vivo</i>	Biology	Jovilė Raudoniūtė	5 July 2019	Dr Rūta Aldonytė, Centre for Innovative Medicine
Effects of stretching passive and active muscle on range of motion, muscle damage, pain and stiffness in young women	Biology	Pornpimol Muanjai	26 August 2019	Prof. Dr Sigitas Kamandulis, Lithuanian Sports University
The role of non-coding RNA in pathogenesis of gastrointestinal stromal tumors	Biology	Ugnė Gyvytė	28 August 2019	Prof. Habil. Dr Limas Kupčinskas, Lithuanian University of Health Sciences
Effect of acute strength load on motor and cognitive function of elderly people	Biology	Margarita Drozdova-Statkevičienė	20 September 2019	Assoc. Prof. Dr Nerijus Masiulis, Lithuanian Sports University
Molecular adaptations of skeletal muscle in health and disease	Biology	Maja Schlittler	27 September 2019	Prof. Dr Håkan Westerblad, Lithuanian Sports University
Prevalence of vector-borne pathogens in dogs	Biology	Vytautas Sabūnas	8 November 2019	Prof. Dr Jana Radzjevskaja, Vytautas Magnus University

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Search and analysis of novel bacterial lipolytic enzymes	Biology	Alisa Gricajeva	18 December 2019	Prof. Dr Lilija Kalėdienė, Vilnius University
Role of the round goby ( <i>Neogobius melanostomus</i> ) in the food web of the south-eastern Baltic Sea coastal waters	Ecology and environmental	Artūras Skaibeikis	13 June 2019	Assoc. Prof. Dr Jūratė Lesutienė, Klaipėda University
The impact of European bison, American bison and cervids on ecosystems	Ecology and environmental	Artūras Kibiša	28 June 2019	Prof. Dr Vitas Marozas, Vytautas Magnus University
Bloom-forming cyanobacteria, cyanotoxins and significant factors for their dynamics in freshwaters	Ecology and environmental	Ksenija Savadova-Ratkus	5 July 2019	Dr Ričardas Paškauskas, Dr Judita Koreivienė, Nature Research Centre
The Nemunas River watershed input to the Curonian Lagoon: discharge, microbiological pollution, nutrient and sediment loads under changing climate	Ecology and environmental	Natalja Čerkasova	13 September 2019	Prof. Dr Hans Georg Umgiesser, Klaipėda University
Ecosystem services of coastal water bodies: assessing temporal changes and their implications to management	Ecology and environmental	Miguel Ângelo Raposo Inácio	16 September 2019	Prof. Habil. Dr Gerald Schernewski, Klaipėda University
Assessing sustainable development of coastal systems	Ecology and environmental	Donalda Karnauskaitė	16 September 2019	Prof. Habil. Dr Gerald Schernewski, Klaipėda University
The impact of changing climate and extreme climate events on summer barley ( <i>Hordeum vulgare</i> L.) and summer rape ( <i>Brassica napus</i> L.) grown in mono and mixed culture with wild mitsrad ( <i>Sinapsis arvensis</i> L.)	Ecology and environmental	Diana Miškelytė	27 September 2019	Prof. Habil. Dr Romualdas Juknys, Vytautas Magnus University
Quantitative assessment of bioinvasion impacts on marine ecosystems	Ecology and environmental	Greta Srėbaliėnė	18 October 2019	Prof. Habil. Dr Sergej Olenin, Klaipėda University
Wind-induced coastal upwelling in the South-Eastern Baltic Sea: spatio-temporal variability and implications for the coastal environment	Ecology and environmental	Toma Dabulevičienė	30 October 2019	Prof. Dr Inga Dailidienė, Klaipėda University

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Exoerythrocytic development of avian malaria parasites and haemoproteids: completing the cycle	Ecology and environmental	Mikas Ilgūnas	11 December 2019	Habil. Dr Gediminas Valkiūnas, Nature Research Centre
Assessment of the sediment transport in the Baltic coastal lagoon: the numerical modelling approach	Ecology and environmental	Jovita Mėžinė	13 December 2019	Prof. Dr Hans Georg Umgiesser, Klaipėda University
Chemoecological peculiarities of <i>Rhagoletis batava</i> Hering (Diptera, Tephritidae)	Ecology and environmental	Dominykas Aleknavičius	13 December 2019	Prof. Habil. Dr Vincas Būda, Nature Research Centre
The effects of multicomponent chemical mixtures on behavioural, physiological and biochemical parameters of different fish species	Ecology and environmental	Tomas Makaras	17 December 2019	Dr Gintaras Svecevičius, Dr Nijolė Kazlauskienė, Nature Research Centre
Evolution of the proterozoic magmatic complexes in southern Lithuania: implications for the formation of the Varena iron ore deposit	Ecology and environmental	Laurynas Šiliauskas	20 December 2019	Dr Gražina Skridlaitė, Nature Research Centre
Hormonal regulation of root development in <i>in vitro</i> cultures of <i>Populus tremula</i> L. and its hybrids and <i>Betula pendula</i> Roth	Forestry	Miglė Vaičiukynė	12 April 2019	Dr Sigutė Kuusienė, Lithuanian Research Centre for Agriculture and Forestry
Dependence of the wood properties of the main forest tree species on environment and genotype	Forestry	Adomas Stoncelis	30 August 2019	Dr Virgilijus Baliuckas, Lithuanian Research Centre for Agriculture and Forestry