

Bazilė Ravoitytė

CONTACT INFORMATION

Address Akademijos Str. 2, Vilnius LT-08412, Lithuania
Tel. no.: +370 5 272 90 82
E-mail: bazile.ravoityte@gamtc.lt
<https://orcid.org/0000-0001-6950-1434>
<https://www.researchgate.net/profile/Bazile-Ravoityte>
<https://www.linkedin.com/in/bazile-ravoityte-98a694101/>

EDUCATION AND ACADEMIC DEGREE

2016 – 2020 PhD in Biology (2020), Vytautas Magnus University, Nature Research Centre, Centre of Innovative Medicine, Vilnius, Lithuania.
Title of the dissertation thesis: “Investigation of the functioning of dsRNA viruses in *Saccharomyces* genus yeasts”. Scientific supervisor: Dr. E. Servienė.

2014 – 2016 Master’s degree in Molecular Biology (2016), Vilnius University, Vilnius, Lithuania.
Title of the thesis: “2-pyridone nucleosides and nucleotides effects on DNA elongation”. Scientific supervisor: Dr. S. Serva.

2010 – 2014 Bachelor’s degree in Biochemistry (2014), Vilnius University, Vilnius, Lithuania.
Title of the thesis: “HIV reverse transcriptase inhibition with phosphonic acid derivatives *in vitro*”. Scientific supervisor: Dr. S. Serva.

PROFESSIONAL EXPERIENCE

2022 – present **Postdoctoral researcher**
Institute of Biochemistry, Life Sciences Center, Vilnius University

2021 – present **Researcher**
Laboratory of Genetics, Institute of Botany, Nature Research Centre

2019 – 2021 **Junior researcher**
Laboratory of Genetics, Institute of Botany, Nature Research Centre

2017 – 2018 **Biologist**
Laboratory of Genetics, Institute of Botany, Nature Research Centre

2016 – 2017 **Senior laboratory assistant**
Laboratory of Genetics, Institute of Botany, Nature Research Centre

2012 – 2016 **Laboratory assistant**
Faculty of Natural Sciences, Vilnius University

RESEARCH INTERESTS

Scientific interests: studies of the communities of microorganisms on fruits and berries (microbiological studies, morphological analysis of microorganisms, purification of cultures, isolation of genomic DNA, identification of microorganisms by molecular methods, metagenomic analysis), search for dsRNA yeast viruses (tests for killing properties, isolation, and analysis of total and double-stranded RNA), investigation of the functioning of dsRNA yeast viruses (virus elimination, gene expression, yeast phenotypic analysis).

PUBLICATIONS

Scientific articles published in journals (books), indexed in „Clarivate Analytics Web of Science“ database (with citation index):

1. **Ravoitytė, B.**, Lukša, J., Wellinger, R.E., Serva, S., Servienė, E., 2022. Adaptive Response of *Saccharomyces* Hosts to Totiviridae L-A dsRNA Viruses Is Achieved through Intrinsically Balanced Action of Targeted Transcription Factors. *J. Fungi* 8(4), 381.
2. Stanevičienė R., Lukša J., Strazdaitė-Žielienė Ž., **Ravoitytė B.**, Losinska-Sičiūnienė R., Mozūraitis R., Servienė E. 2021. Mycobiota in the carposphere of sour and sweet cherries and antagonistic features of potential biocontrol yeasts. *Microorganisms*. 9, 1423: 1-15.
3. **Ravoitytė B.**, Lukša J., Yurchenko V., Serva S., Servienė E. (2020). *Saccharomyces paradoxus* Transcriptional Alterations in Cells of Distinct Phenotype and Viral dsRNA Content. *Microorganisms* 8(12):1902.
4. Lukša J., Vepškaitė-Monstavičė I., Apšegaitė V., Blažytė-Čereškienė L., Stanevičienė R., Strazdaitė-Žielienė Ž., **Ravoitytė B.**, Aleknavičius D., Būda V., Mozūraitis R., Servienė E. (2020). Fungal Microbiota of Sea Buckthorn Berries at Two Ripening Stages and Volatile Profiling of Potential Biocontrol Yeasts. *Microorganisms* 8(3):E456.
5. Mikalkėnas A, **Ravoitytė B.**, Tauraitė D., Servienė E., Meškys R., Serva S. (2018). Conjugation of phosphonoacetic acid to nucleobase promotes a mechanism-based inhibition. *J Enzyme Inhib Med Chem* 33(1):384-389.
6. Lukša J., **Ravoitytė B.**, Konovalovas A., Aitmanaitė L., Butenko A., Yurchenko V., Serva S., Servienė E. (2017). Different metabolic pathways are involved in response of *Saccharomyces cerevisiae* to L-A and M viruses. *Toxins (Basel)* 9(8). Pii: E233.
7. **Ravoitytė B.**, Wellinger R.E. (2017). Non-Canonical Replication Initiation: You're Fired! *Genes (Basel)* 54,8(2).

Reviewed scientific articles, published in Lithuania:

1. Mikalkėnas A., **Ravoitytė B.**, Tauraitė D., Serva S. (2017) Pyridone-based nucleotide analogues accepted for DNA biosynthesis. *Biologija* 63(1):42-48.

PARTICIPATION IN INTERNATIONAL AND NATIONAL SCIENTIFIC PROGRAMMES AND PROJECTS

2021 – 2022	project participant EU structural funds project "Nanosilver enhanced graphene oxide ink".
2018 – 2021	project participant Research Council of Lithuania project "Role of metabolites in a tritrophic plant-microorganism-phytophage eco-interaction",.
2015 – 2018	project participant National scientific research program "Sustainability of agro-, forest and water ecosystems" project "Agroecosystems microbiota under climate change: structure and concordance mechanisms".

INTERNSHIP AND TRAINING

2019 07	EMBL Course: Shift your DNA and RNA Sequencing Library Preparation into Hyper-Drive (Heidelberg, Germany).
2016	„ERASMUS+ internship in Andalusian Molecular Biology and Regenerative Medicine Centre (Seville, Spain).

PARTICIPATION IN SCIENTIFIC CONFERENCES

International scientific conferences:

1. Stanevičienė R., Lukša J., Strazdaitė-Žielienė Ž., **Ravoitytė B.**, Losinska-Sičiūnienė R., Servienė E. 2022. High content analysis of cherries-associated mycobiota. International conference “*Microbiology 2022*”, Birštonas, Lithuania. Book of abstracts, 68.
2. Lukša J., **Ravoitytė B.**, Servienė E., Serva S. 2022. Interplay between Totiviridae L-A dsRNA virus and *Saccharomyces spp.* host: integrative transcriptomic and proteomic analysis. 2022. International conference “*Microbiology 2022*”, Birštonas, Lithuania. Birštonas, Lithuania. Book of abstracts, 73.
3. **Ravoitytė B.**, Varnelytė G., Galinis R., Galinis G., Devine S., Servienė E. 2022. Antibacterial efficacy of silver nanoparticles in liquids, binders, and textiles. International conference “*Microbiology 2022*”, Birštonas, Lithuania. Birštonas, Lithuania. Book of abstracts, 81.
4. Lukša J., **Ravoitytė B.**, Servienė E., Serva S. 2022. Interplay between Totiviridae L-A dsRNA virus and *Saccharomyces spp.* host: integrative transcriptomic and proteomic analysis. FEBS3+, Tallinn, Estonia.
5. Varnelytė G., **Ravoitytė B.**, Tracevičius S., Servienė E. 2022. Dynamics of cultivable microorganisms in commercially reared black soldier fly larvae. 65th International Conference for Students of Physics and Natural Sciences Open Readings, Vilnius, Lithuania. Book of abstracts, 339.
6. Blažytė-Čereškienė L., Radžiūtė S., Apšegaitė V., **Ravoitytė B.**, Aleknavičius D., Čepulytė R., Servienė E., Būda V., Mozūraitis R. 2021. Behavioural responses of *Rhagoletis cerasi* flies to volatiles from the yeasts populating cherry berries. 36th Annual Meeting of the International Society of Chemical Ecology CHEMICAL ECOLOGY AND SUSTAINABLE DEVELOPMENT. Stellenbosch, South Africa. Programme and Book of Abstracts, 164.
7. Servienė E., Lukša J., Vepškaitė-Monstavičė I., Apšegaitė V., Blažytė-Čereškienė L., Stanevičienė R., Strazdaitė-Žielienė Ž., **Ravoitytė B.**, Aleknavičius D., Būda V., Mozūraitis R. 2020. Fungal microbiota of sea buckthorn berries at two ripening stages and volatile profiling of potential biocontrol yeasts. FEMS Online Conference on Microbiology, Belgrade, Serbia. Book of abstracts, 381.
8. Bartkus M. R., **Ravoitytė B.**, Stanevičienė R., Servienė E. 2020. The interface between chronological aging and killer maintenance in *Saccharomyces* yeasts. 63rd International Conference for Students of Physics and Natural Sciences Open Readings, Vilnius, Lithuania. Book of abstracts, 535.
9. Lukša J., **Ravoitytė B.**, Konovalovas A., Aitmanaitė L., Yurchenko V., Serva S., Servienė E. 2020. Response mechanisms of model organism *Saccharomyces cerevisiae* to yeast viruses. COST action EuroMicroPH 1st Open Meeting. Lisbon, Portugal. Book of abstracts, 36.
10. Servienė E., Lukša J., Stanevičienė R., **Ravoitytė B.**, Strazdaitė-Žielienė Ž. High content analysis of fruit and berry fungal microbiota. 2020. COST action EuroMicroPH 1st Open Meeting. Lisbon, Portugal. Book of abstracts, 56.
11. **Ravoitytė B.**, Stanevičienė R., Vepškaitė-Monstavičė I., Sederevičiūtė A., Lukša J., Strazdaitė-Žielienė Ž., Servienė E. 2019. Effects of temperature and pH on *Saccharomyces paradoxus* killer yeasts. XXIX International Conference on Yeast Genetics and Molecular Biology. Gothenburg, Sweden. Book of abstracts, 378.
12. Lukša J., **Ravoitytė B.**, Konovalovas A., Aitmanaitė L., Yurchenko V., Serva S., Servienė E. 2018. Global gene expression changes during Totiviridae dsRNA viruses infection in *Saccharomyces cerevisiae*. EMBO conference “Experimental Approaches to Evolution and Ecology Using Yeast and Other Model Systems”, Heidelberg, Germany. Book of Abstracts, 125.
13. **Ravoitytė B.**, Lukša J., Konovalovas A., Aitmanaitė L., Serva S., Servienė E. 2018. Overview of budding yeast gene expression alterations affected by Totiviridae dsRNA virus. EMBO conference “Gene Transcription in Yeast: From Global Analyses to Single Cells”, Sant Feliu de Guixols, Spain. Book of Abstracts, 35.

14. Mikalkėnas A., **Ravoitytė B.**, Tauraitė D., Servienė E., Meškys R., Serva S. 2018. DNA polymerase inhibition with derivatives of pyrophosphoric acid analogues in vitro. XV International Conference of Lithuanian Biochemical Society, Dubingiai, Lithuania.
15. **Ravoitytė B.**, Lukša J., Konovalovas A., Aitmanaitė L., Serva S., Servienė E. 2018. Gene expression alterations in budding yeast *Saccharomyces cerevisiae* induced by elimination of LA-lus and M-2 dsRNA viruses. International Conference Vita Scientia, Vilnius, Lithuania. Book of Abstracts, 46-7.
16. Lukša J., **Ravoitytė B.**, Konovalovas A., Aitmanaitė L., Butenko A., Yurchenko V., Serva S., Servienė E. 2017. Profiling of host gene expression under the action of *Saccharomyces cerevisiae* L-A-lus and M-2 viruses. The 28th International Conference on Yeast Genetics and Molecular Biology, Czech Republic. Book of Abstracts, 291.
17. Servienė E., Lukša J., **Ravoitytė B.**, Konovalovas A., Aitmanaitė L., Vepškaitė-Monstavičė I., Yurchenko V., Serva S. 2017. The impact of *Saccharomyces cerevisiae* M2 virus on host gene expression. The 28th International Conference on Yeast Genetics and Molecular Biology, Prague, Czech Republic. Book of Abstracts, 288-89.

PARTICIPATION IN THE STUDY PROCESS

Supervision of bachelor and master students:

Vilnius University: Masters in Microbiology and Biotechnology (1), Genetics (1); Bachelors in Genetics (1).

Vilnius Gediminas Technical University: Bachelor in Bioengineering (1)

OTHERS

1. Supervision of student's research and practice during the study semester (2022-2023). Student G. Varnelytė (VU, master's of Genetics).
2. Presentation of the Nature Research Centre events in the science festival „Erdvėlavis Žemė“ („Spaceship Earth“) (2019, 2022).
3. Participation in the educational practical study of molecular biology and gene engineering to students from Veiviržėnai J. Šaulys gymnasium (2022)
4. Peer review of an article in the Ecology and Evolution journal (Wiley) (2021).
5. Presentation of the event „Secret Rulers of Nature“ as a part of „Days of Microbiology“ program (2018).
6. Awards: Research Council of Lithuania travel grant (2019), Research Council of Lithuania, Development of Scientific Competences of Scientists (2019), Research Council of Lithuania - promotional scholarship (2018, 2019), EMBO travel grant (2018).
7. Peer review of the final theses of bachelor students of VU Biochemistry and Molecular biology (since 2017).