

**Loreta Levinskaitė**

## **CONTACT INFORMATION**

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Address Akademijos St. 2, Vilnius LT-08412, Lithuania  
Tel. no.: +370 5 279 66 40  
E-mail: loreta.levinskaite@gamtc.lt  
<https://www.researchgate.net/profile/Loreta-Levinskaite-2>  
<https://orcid.org/0000-0003-2856-2972>

## **EDUCATION AND ACADEMIC DEGREE**

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- 1988– 1991 Ph D in Biomedical sciences, Biology (01 B, mycology, plant physiology), Institute of Botany.  
Theme: “ Micromycetes of the genus *Penicillium* Link. as destructors of rubber materials for technical purposes”.  
Research area: mycology, microscopic fungi, *Penicillium*, investigation of microbial biodegradation.
- 1979 – 1984 Vilnius University, Biology / Master degree.  
Theme: “Isolation of microorganisms of *Leuconostic* genus able to produce glucose–6–phosphate–dehydrogenase from natural sources“.  
The work was conducted at the Institute of Applied Enzymology, Vilnius.  
Research area: bacteriology, *Leuconostic* bacteria, investigation of enzyme activity.

## **PROFESSIONAL EXPERIENCE**

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- 2013 up to now Laboratory of Biodegradation Research, Nature Research Centre – researcher
- 1996 – 2013 Laboratory of Biodegradation Research, Institute of Botany – senior researcher
- 1992 – 1996 Laboratory of Biodegradation Research, Institute of Botany – researcher
- 1985 – 1992 Laboratory of Biodegradation Research, Institute of Botany – senior technician

## **RESEARCH INTERESTS**

Research area: Ecology and physiology of micromycetes, diversity of *Penicillium* genus and other fungi on various substrates and their biological peculiarities. Investigation of the role of micromycetes in degradation of different synthetic and natural substrates; sensitivity of the fungi to heavy metals and other materials and search for active fungal strains-biodestructors. Assessment of micromycete susceptibility to antifungal substances. Investigation of different groups of bacteria in soil and other substrates; evaluation of an antibacterial and antifungal effect of newly developed materials.

## PUBLICATIONS

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

1. **Levinskaitė L.**, Vaičekauskytė V. 2022. Control of fungi isolated from cereals: variations in the susceptibility of fungal species to essential oils, ozone, and UV-C. *International journal of food science and technology*, vol. 57, iss. 10, p. 6389-6398. <https://doi.org/10.1111/ijfs.15944>.
2. Jefanova O., Baužienė I., Lujanienė G., Švedienė J., Raudonienė V., Bridžiuvienė D., Paškevičius A., **Levinskaitė L.**, Žvirgždąs J., Petrošius R., Skuratovič Ž., Mažeika J. 2020. Initiation of radioecological monitoring of forest soils and plants at the Lithuanian border region before the start of the Belarusian nuclear power plant operation. *Environmental monitoring and assessment*. 192(10), art. no. 666: 1-18. <https://doi.org/10.1007/s10661-020-08638-y>.
3. Raudonienė V., Bridžiuvienė D., Malachovskienė E., **Levinskaitė L.** 2019. Biodegradation of wood treated with copper based preservative by two Dematiaceous fungi: *Alternaria tenuissima* and *Ulocladium consortiale*. *Materials science-Medziagotyra*. 25 (3): 309-315. <https://doi.org/10.5755/J01.MS.25.3.20563>
4. Lujanienė G., Li H.C., Mažeika J., Paškauskas R., Remeikaitė-Nikienė N., Garnaga-Budrė G., **Levinskaitė L.**, Jokšas K., Bugailiškytė D., Semčuk S., Kačergius A., Stankevičius A., Stirbys V., Povinec P.P. 2018. Carbon isotopes as tracers of organic and inorganic carbon in Baltic Sea sediments. *Radiocarbon*. 60 (5): 1493-1505. DOI 10.1017/RDC.2018.106 <https://doi.org/10.1017/RDC.2018.106>.
5. **Levinskaitė L.** 2018. Biodegradation potential of fungi *Penicillium* isolated from synthetic polymeric materials. *Journal of environmental engineering*.144(7), art. no. 06018002. [https://doi.org/10.1061/\(ASCE\)EE.1943-7870.0001391](https://doi.org/10.1061/(ASCE)EE.1943-7870.0001391)
6. Lujanienė, G., **Levinskaitė, L.**, Kačergius, A., Gavutis, M. 2017. Sorption of plutonium to bacteria and fungi isolated from groundwater and clay samples. *Journal of Radioanalytical and Nuclear Chemistry*. 11 (2): 1393–1399. <http://dx.doi.org/10.1080/10962247.2016.1162227>.
7. Paulauskas A., Žukauskienė J., Žiaukienė D., Česonienė L., Daubaras R., Kupčinskienė E., Lazutka J.R., Slapšytė G., Dedonytė V., Mierauskienė J., Stapulionytė A., Paškevičius A., **Levinskaitė L.**, Švedienė J., Viškelis P., 2015: Differentiation of *Viburnum* accessions according to their molecular, biochemical, genotoxic and microbiological features of importance to selection [ *Viburnum* . AJAR, 3(6): 081–093. <https://doi.org/10.15413/ajar.2015.0121>.
8. Repečkienė J., **Levinskaitė L.**, Paškevičius A., Raudonienė V. 2013. Toxin-producing fungi on feed grains and application of yeasts for their detoxification. *Polish journal of veterinary sciences*. 2013, Vol. 16 (2): 391-393. <https://doi.org/10.2478/pjvs-2013-0054>.
9. **Levinskaitė L.**, Paškevičius A. Fungi in Water-Damaged Buildings of Vilnius Old City and Their Susceptibility towards Disinfectants and Essential Oils. *Indoor and Built Environment*, 22(5): 766–775. <https://doi.org/10.1177/1420326X1245851>
10. **Levinskaitė L.** 2012. Susceptibility of food-contaminating *Penicillium* genus fungi to some preservatives and disinfectants. *Annals of agricultural and environmental medicine*. 19(1): 85-89.
11. Lugauskas A., **Levinskaitė L.**, Prosyčėvas I. 2004: Influence of biological factors in aging of polymeric materials under natural environmental conditions. – *Medžiagotyra (Materials science)*, 10(1): 24-28.
12. Lugauskas A., Prosyčėvas I., **Levinskaitė L.**, Jaskėlevičius B. 2004: Physical and chemical aspects of long-term biodeterioration of some polymers and composites. *Environmental Toxicology*, 19(4): 318-328.

13. Lugauskas A., **Levinskaitė L.**, Pečiulytė D. 2003. Micromycetes as deterioration agents of polymeric materials. *International Biodeterioration & Biodegradation*, 52: 233-242.

**Scientific articles published in journals (books), indexed in „Clarivate Analytics Web of Science“ database (without citation index):**

1. **Levinskaitė L.**, Melvydas V. 2009. Susceptibility of fungi to new bacterial isolates. *Biologija* (1-2):29-34. <https://doi.org/10.2478/v10054-009-0006-3>.
2. Bridžiuvienė D., **Levinskaitė L.** 2007. Fungal tolerance towards copper based wood preservatives. *Biologija*. 53(4): 58–65.
3. Lugauskas A., **Levinskaitė L.**, Mačkinaitė R., Raudonienė V., Railienė M., Raila A. 2006. Ecological, and technological factors influencing distribution of toxin producing micromycetes on oats and their products. *Ekologija* 3: 112-121.
4. Lugauskas A., Repečkienė J., **Levinskaitė L.**, Mačkinaitė R., Kačergius A., Raudonienė V. 2006. Micromycetes as toxin producers detected on raw material of plant origin grown under various conditions in Lithuania. *Ekologija*. 3: 1-13.
5. Valiuškaitė A., Survilienė E., Lugauskas A., **Levinskaitė L.** 2006. Ecological aspects of distribution of potential toxin-producing micromycetes on stored apple fruit. *Ekologija* 3: 60-63.

**Other reviewed scientific publications (books, books' chapters, collections of articles, articles, textbooks and etc.):**

1. Ložienė K., Labokas J. Paškevičius A., **Levinskaitė L.**, Venskutonis P. R. Švedienė J., Abrutienė G. 2016. Variation in the content of total phenolics, anthocyanins and antimicrobial effects in two fractions of blueberries different cultivars. *Botanica Lithuanica*. 11(1): 78-86. <https://doi.org/10.1515/botlit-2016-0008>.
2. **Levinskaitė L.**, Paškevičius A. 2009. Mikroskopiniai grybai, paplitę Vilniaus miesto gyvenamose ir darbo patalpose. *Laboratorinė medicina*. 11(3(43)): 124-128.
3. Paškevičius A., **Levinskaitė L.** 2009. Gyvenamųjų ir Darbo patalpų mikromicetų jautrumo dezinfekantams įvertinimas. *Laboratorinė medicina.*, 11(2(42)): 71-74.
4. **Levinskaitė L.**, Lugauskas A., Valiuškaitė A. 2005: Potential toxin-producing micromycetes on fruit and berries of horticultural plants treated with fungicides. *Botanica Lithuanica*, Suppl. 7: 47-54.
5. Kačergius A., Lugauskas A., **Levinskaitė L.**, Varnaitė R., Mankevičienė A., Bakutis B., Baliukonienė V., Brūkštienė D. 2005. Screening of micromycetes producing toxic substances under various conditions. *Botanica Lithuanica*, Suppl. 7: 65-75.
6. **Levinskaitė L.**, Lugauskas A., Valiuškaitė A. 2005: Potential toxin-producing micromycetes on fruit and berries of horticultural plants treated with fungicides. *Botanica Lithuanica*, Suppl. 7: 47-54
7. Kačergius A., Lugauskas A., **Levinskaitė L.**, Varnaitė R., Mankevičienė A., Bakutis B., Baliukonienė V., Brūkštienė D. 2005. Screening of micromycetes producing toxic substances under various conditions. *Botanica Lithuanica*, Suppl. 7: 65-75.
8. Bridžiuvienė D., **Levinskaitė L.** Lugauskas A., Paškevičius A., Pečiulytė D., Repečkienė J., Salina O., Varnaitė R. Microbial diodeteriation of materials .(Monograph). Vilnius. 469 p.

## PARTICIPATION IN INTERNATIONAL AND NATIONAL SCIENTIFIC PROGRAMMES AND PROJECTS

### *International projects*

2012 – 2014 FP7-SME-2012-315087-ChitoClean "Enhanced chitin-based biosorbents for drinking water purification" (Coordinator: Austrian Institute of Technology). **Leader of researchers' group of Nature Research Centre.**

### *National projects*

2013 – 2015 VP1-3.1-ŠMM-10-V-02-018 Project supported by ES structural funds "Search for biocatalisators and their development for production of biogas as well as use of them for the control of biomass conversion (BIOKONVERSA). (Coordinator – Vilnius University). **Participant.**

2013 – 2014 National programme "Healthy and safe food" No SVE-11018 "Alteration of less frequent berry plant bioactive components depending on the genotype and environment". **Participant.**

2008 LVMSF project No G-34/08. "Identification of micromycetes causing deterioration of old-town buildings and investigation of fungal sensitivity to antiseptic substances". **Leader of the project.**

2008 SF project No T-65/08 "Characterisation of new biological measures against harmful micromycetes and evaluation of their application possibilities". **Leader of the project.**

2006 LVMSF project No G-29/06 "Isolation of agents of timber soft rot and assessment of their susceptibility to antiseptic measures". **Participant.**

2003 – 2006 LVMSF project "Physical-chemical phenomena of heavy metals-sorbition in soil, their effect on changes of microorganisms and enzymatic activity as well as search for soil remediation measures. **Leader of the reasearchers' group of Institute of Botany.**

2002 – 2004 LVMSF complex programme "Regularities of mycotoxin accumulation in food and development of preventive safety measures". **Participant.**

### *Other projects*

2021 –2025 "Monitoring of the impact on environmental quality (offshore and coastal zones) under the environmental monitoring programme of ORLEN Lietuva, AB Būtingė Oil Terminal 2021-2025". Customer: ORLEN Lietuva, AB. **Participant.**

2021 „Evaluation of a microbiological state of the drinking water and ironing device located in Kretinga distr. Lazdininkų water point“. **Participant.**

2018 "Mycological evaluation of production premises of UAB "Laugena, raw materials and produced products". Customer: UAB „Laugena“. **Prticipant.**

2016 „Evaluation of mycological state of starch technological process and search

for measures reducing fungal contamination“. Customer: Amilina, AB.  
**Participant.**

## **PROCEEDINGS OF SCIENTIFIC CONFERENCES**

### ***International scientific conferences:***

1. Jefanova O., Baužienė I., Mažeika J., Petrošius R., Skuratovič Ž., Bridžiuvienė D., **Levinskaitė L.**, Raudonienė V., Švedienė J., Paškevičius A., Lujanienė G. 2019. Initial radioecological and environmental state of Lithuanian transboundary area before the start of the operation of the NPP in Belarus. ENVIRA 2019: 5th international conference on environmental radioactivity variations of environmental radionuclides: 8 - 13 September 2019, Prague, Czech Republic : book of abstracts. Prague. 2019, ID 202, p. 157.
2. Lujanienė G., Povinec P. P., Li H-C, Jokšas K., Mažeika J., Remeikaitė-Nikienė N., Malejevas V., Garnaga-Budrė G., **Levinskaitė L.**, Šemčuk S., Kulakauskaitė I., Barisevičiūtė R., Bugailiškytė D., Stankevičius A. 2018. Application of radioactive and stable isotopes to trace organic matter in the Baltic Sea *Czech chemical society symposium series : 18th Radiochemical conference : Mariánské Lázně, Czech Republic, 13-18 May 2018 : booklet of abstracts. ISSN: 2336-7202; eISSN: 2336-7210.* Mariánské Lázně. 2018, Vol. 16, no. 2, p. 207-208.
3. Lujanienė, Galina; Povinec, P.P.; Li, H.-C., Jokšas K., Mažeika J., Remeikaitė-Nikienė N., Malejevas V., Garnaga-Budrė G., **Levinskaitė L.**, Šemčuk S., Kulakauskaitė I., Barisevičiūtė R., Bugailiškytė D., Stankevičius A. 2018. Carbon isotopes as tracers of organic carbon in Baltic Sea sediments. *Eleventh international conference on methods and applications of radioanalytical chemistry (MARC XI):* April 8 -13, 2018, Kailua-Kona, Hawaii, USA : book of abstracts. Kailua-Kona. 2018. p.105.
4. Lujanienė G., Li, H.-C.; Mažeika, J., Paškauskas R., Remeikaitė-Nikienė N., Garnaga-Budrė G., **Levinskaitė L.**, Jokšas K., Bugailiškytė, D., Šemčuk S., Kačergius A., Stankevičius A., Povinec, P.P. 2018. Differential utilization of carbon isotopes by *Pseudomonas putida*. *Eleventh international conference on methods and applications of radioanalytical chemistry (MARC XI) :* April 8 -13, 2018, Kailua-Kona, Hawaii, USA : book of abstracts. Kailua-Kona. 2018. p.106.
5. Lujanienė G., Povinec P.P., Li H.C., Mažeika J., Barisevičiūtė R., Remeikaitė-Nikienė N., Malejevas V., Garnaga-Budrė G., **Levinskaitė L.**, Jokšas K., Bugailiškytė D., Stankevičius A. 2017. Carbon isotopes in Baltic Sea sediments. *2nd international radiocarbon in the environment conference (REII 2017):* 3-7 July 2017 Debrecen, Hungary: book of abstract. Debrecen. 2017. p. 18.
6. Lujanienė G., **Levinskaitė L.**, Juškėnas R., Štamberg K., Kačergius A., Kulakauskaitė I., Gavutis M., Šemčuk S., Vopalka D. 2016. Sorption behavior of Cs, Pu and Am to natural clay: effect of various components. *International conference on radioanalytical and nuclear chemistry (RANC-2016):* April 10-15, 2016, Budapest, Hungary. Budapest. 2016. P. 56.
7. Lujanienė G., **Levinskaitė L.**, Juškėnas R., Štamberg, K., Kačergius A., Kulakauskaitė I., Šemčuk S., Vodopalka D. 2016. Study of Cs, Pu and Am sorption to natural clay and bottom sediments. *9th international conference on nuclear and radiochemistry.* August 29-September 2, 2016, Helsinki, Finland: book of abstracts. Helsinki. 2016. p. 65.

### ***National scientific conferences:***

1. Joel, E.F., Lujanienė, G., Stanionytė, S., Skapas, M., **Levinskaitė, L.** 2021. Synthesis and application of thin films of graphene nanocomposite chitosan copper platinum for environmental application. *16 -tos tarptautinės mokslinės konferencijos „Chemistry and Chemical technology 2021“ medžiaga*, Vilnius, Rugsėjo 24 d: p. 16.
2. Joel E. F., Lujanienė G., Stanionytė S., **Levinskaitė L.** 2021. Graphene Oxide / Chitosan / Copper

nanocomposites for antibacterial studies. *Open readings 2021: 64th international conference for students of physics and natural sciences*. March 16-29, 2021, Vilnius, Lithuania: abstract book. Vilnius: Vilnius University Press, 2021. P2-41, p. 210. ISBN: 9786090705902.

3. Lujanienė G., Juškėnas R., **Levinskaitė L.**, Kulakauskaitė I., Gavutis M., Šemčuk S. 2013. Pu oxidation state transformation by natural clay and their various component. *18th international scientific conference "EcoBalt 2013"*: Vilnius, Lithuania, October 25-27, 2013. Book of abstracts. Vilnius, 2013. p. 32.

## **PARTICIPATION IN THE STUDY PROCESSES**

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### ***PhD dissertation opponent:***

Virginijus Trimirka	Scientific area: Biomedical Sciences, Agronomy (06 B) Dissertation theme: „Disertacijos tema: „Evaluation of pollution of Luvisoils with heavy metals and a model investigation of their sorbtion capacity in the soil fine dispersion fraction” (LŽŪU).	2005
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### ***Supervision of bachelor and master students:***

Austėja Kazažnavičiūtė	Bachelor work: “Evaluation of growth of book-deteriorating micromycetes under different conditions and research on fungicidal measures“ (VGTU).	2020 – 2021
Viktorija Vaičekauskytė	Bachelor work: “Physiological peculiarities of micromycetes spread on wheat and oat grains and their products“ (LEU).	2017 – 2018
Vaida Makarevičiūtė	Bachelor work: “Spread of micromycetes in Vilnius public places and their susceptibility to disifection measures“ (LEU).	2016 – 2017

## **OTHERS**

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1. 2022, September 14-16. Participation in the scientific festival “Spaceship Earth“.
2. 2021, July 2. Participation in the event organised by Nature Research Centre for National Day celebration. Pposter presentation for visitors and demonstration of alive fungal cultures.
3. 2018, September 17. Participation in the International Day of Microorganisms “Environment microorganisms“.