

# Jonas Žvirgždas

## CONTACT INFORMATION

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## EDUCATION AND ACADEMIC DEGREE

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2019 – until now Nature Research Centre / PhD student in Ecology and Environmental Studies in Natural Sciences. Dissertation topic: "Prevalence of yeast in various anthropogenic substrates, biological and ecological features, activity regulation", supervisor - dr. Algimantas Paškevičius.

2017 - 2019 Vilnius University, Faculty of Medicine, Medical Biology / Master. Master's thesis topic: "Prevalence of dermatophytosis causative agents and application of laboratory diagnostic methods". The work was carried out in the Laboratory of Microbiology of the Laboratory Medicine Center of Santaros Clinics of Vilnius University Hospital.

2016 - 2017 Vilnius University, Life Sciences Centre / Additional Studies (biology).

2013 - 2016 Vilnius College of Applied Sciences, Faculty of Health Care, Biomedical Diagnostics / Bachelor. Bachelor's thesis topic: "Improving the research methodology of fungi identification by MALDI-TOF method by evaluating the influence of various factors on its quality". The work was carried out in the Laboratory of Microbiology of the Laboratory Medicine Center of Santaros Clinics of Vilnius University Hospital.

## PROFESSIONAL EXPERIENCE

2020 04 – until now **Medical biologist**  
National Public Health Surveillance Laboratory, BI

2019 07 – 2019 10 **Microbiologist**  
Northway biotechpharma, Ltd.

2016 09 – 2019 07 **Microbiology laboratory technician**  
Vilnius University Hospital Santaros Klinikos, PI

2016 04 – 2016 09 **Cashier**  
PALINK, Ltd.

2012 09 – 2013 01 **Social media manager**  
"The voice of Lithuania" project.

## RESEARCH INTERESTS

**Field of research:** biological diversity and prevalence of yeasts in various anthropogenic substrates, physiological, biochemical and ecological features of yeasts involved in biodestruction processes, practical use of yeasts and other microorganisms for biodegradation of various substrates and biological cleaning of the environment. Microbiological (mycological and bacteriological), molecular biological (PCR, MALDI-TOF) and rare and dangerous human pathogens research.

## **PUBLICATIONS**

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

1. Jefanova, O., Baužienė, I., Lujanienė, G., Švedienė, J., Raudonienė, V., Bridžiuviene, D., Paškevičius, A., Levinskaitė, L., **Žvirgždas, J.**, Petrošius, R., Skuratovič, Z., 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. DOI: 10.1007/s10661-020-08638-y

*Reviewed scientific articles, published in Lithuania:*

1. **Žvirgždas, J.**, Kiverytė, S., Paškevičius, A., Jacevičius, P. (2021) A Retrospective Study of dermatomycosis Causative Agents in Vilnius University Hospital Santaros Clinics. *Laboratorinė medicina*, t. 23, Nr. 4 (90), p. 198-206. ISSN 1392-6470.

## **PARTICIPATION IN INTERNATIONAL AND NATIONAL SCIENTIFIC PROGRAMMES AND PROJECTS**

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## **INTERNSHIP AND TRAINING**

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| 2021 02 02 / 07<br>/19 / 23 | VMU Methodological training for PhD students: Scientific sources: critical selection, systematic selection, comparison, types of literature reviews, Methods, forms and tests of scientific text preparation, Methodological choices: from theory to empirics, Academic ethics: why, what, how?   |
| 2020 03 06 /<br>2020 08 26  | Short-term scientific internship at the Department of Food Science and Technology of the Kaunas University of Technology under the guidance of assoc. dr. Dalia Čižeikiene. Acquainted with the methods of determining enzyme activity, learned to quantitatively study the activity of enzymes (cellulases and amylases) produced by microorganisms using the spectrophotometric method. |
| 2016 10 20                  | MALDI Advanced Operator Training Course, MALDI Biotyper Filamentous Fungi Identification.   |

## **PARTICIPATION IN SCIENTIFIC CONFERENCES**

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**International scientific conferences:**

1. **Žvirgždas J.**, Paškevičius A., Petrovas S., Iljasevičius K., Galginienė I. 2022. Isolation, selection and use of oil degrading microorganisms for biological treatment of contaminated soil – *Ecology & Safety*, August 16-19, Burgas, Bulgaria (remote conference).

**National scientific conferences:**

1. **Žvirgždas J.**, Paškevičius A., Levinskaitė L., Jokšas K. 2022. Yeast prevalence and biodiversity in the Baltic Sea in the territory of the Būtingė oil terminal - *15th Lithuanian Young Scientists Conference Biofuture: perspectives of natural and life sciences*, November 24, Vilnius, Lithuania: 11.  
[https://www.lma.lt/uploads/BIOATEITIS%20prane%C5%A1im%C5%B3%20tez%C4%97s\\_2022.pdf](https://www.lma.lt/uploads/BIOATEITIS%20prane%C5%A1im%C5%B3%20tez%C4%97s_2022.pdf)
2. **Žvirgždas J.**, Paškevičius A., Petrovas S., Ilyasevičius K., Galginienė I. 2021. Selection and application of oil-oxidizing microorganisms for biological treatment of contaminated soil - *10th conference of young scientists „Young scientists for agricultural progress“*, November 18, Vilnius, Lithuania: 28.  
[http://www.lma.lt/uploads/LMA%20leidyba/Jaunieji%20mokslininkai%20-%20%C5%BEem%C4%97s%20%C5%ABkio%20pa%C5%BEangai.%20Prane%C5%A1im%C5%B3%20tez%C4%97s\\_2021.pdf](http://www.lma.lt/uploads/LMA%20leidyba/Jaunieji%20mokslininkai%20-%20%C5%BEem%C4%97s%20%C5%ABkio%20pa%C5%BEangai.%20Prane%C5%A1im%C5%B3%20tez%C4%97s_2021.pdf)
3. **Žvirgždas J.**, Paškevičius A., Iljasevičius K., Galginienė I. 2020. Selection of oil-oxidizing microorganisms for efficient degradation of its products - *13th conference of young scientists Biofuture: perspectives of nature and life sciences*, December 4, Vilnius, Lithuania: 7.  
[https://www.lma.lt/uploads/news/id1049/LMA\\_BIOATEITIS\\_gamtos%20ir%20gyvybes%20mokslo%20perspektyvos\\_programa-pranesimu%20tezes-taisytos.pdf](https://www.lma.lt/uploads/news/id1049/LMA_BIOATEITIS_gamtos%20ir%20gyvybes%20mokslo%20perspektyvos_programa-pranesimu%20tezes-taisytos.pdf)

## **PARTICIPATION IN THE STUDY PROCESS**

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### *Supervision of bachelor and master students:*

Gedas Mačiulaitis Bachelor thesis topic: "Species composition, morphological, physiological and biochemical characteristics of yeasts isolated from soil" (VU LSC, Microbiology and Biotechnology study program), 2020 – 2021

## **OTHERS**

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1. 19/09/2022 The program of events of the Nature Research Centre was presented at the *Science Festival "Spacecraft Earth" 2022*.
2. 11/18/2021 A diploma received for the best presentation on "Selection and application of oil-oxidizing microorganisms for biological treatment of contaminated soil" at the *10th Young Scientists Conference "Young Scientists for Agricultural Progress"*.