

Martynas Dėlkus

CONTACT INFORMATION

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EDUCATION

- 2021 10 – Now **Area of sciences, field:** Natural sciences, Biology (N010) doctoral degree (Vytautas Magnus University and Nature Research Center).
The topic of the work: "Molecular study of uncultivable phytoplasmas and their effects on the microbiomes of infected berry bushes."
The purpose of the work: To identify and clarify the influence of phytoplasmas that damage berry bushes on the microbiome of berry bushes using molecular biology methods
The work was carried out at: Nature Research Center, Plant Pathology Laboratory.
- 2019 09 – 2021 06 Vilnius University, Environment and environmental protection / Master.
The topic of the work: "Dynamics of phytoplasma infection identified in mountain pines (*Pinus mugo* TURRA) growing in the anthropogenic forest of the Curonian Spit National Park".
The aim of the work: To determine and identify by molecular methods the phytoplasmal infection of mountain pines (*Pinus mugo* Turra) and its dynamics from the samples collected in the anthropogenic forest of the Curonian Spit National Park.
The work was carried out at: Nature Research Center, Plant Pathology Laboratory.
- 2014 09 – 2019 06 Vilnius University, Molecular Biology / Bachelor.
The topic of the work: "Detection and identification of phytoplasmas in garden bilberry (*Vaccinium x covilleianum*) and wrinkled blackberry (*Rubus plicatus*) samples".
The aim of the work: to identify and classify phytoplasmas in garden fruit bushes by molecular methods, using 16S rDNA and an additional genetic marker.
The work was carried out at: Nature Research Center, Plant Pathology Laboratory.

WORK EXPERIENCE

- 2021 10 – Now **Doctoral student**
Nature Research Centre, Plant Pathology Laboratory
- 2019 10 – 2021 05 **Intern**
Nature Research Centre, Plant Pathology Laboratory
- 2017 10 – 2019 05 **Intern**
Nature Research Centre, Plant Pathology Laboratory

SCIENTIFIC INTERESTS

Field of research: epidemiology of infection and diseases of wild and cultivated plants infected

with non-cultivable bacteria. Studies of endophytic bacterial microbiomes of diseased and healthy plant hosts. The diversity of beneficial and pathogenic bacteria and their phylogenetic origin are studied. Plant disease management recommendations. Isolation of DNA from various plants, application of various PCR methods (rtPCR, nPCR, MP PCR, microsatellite analysis, etc.), sequencing, DNA fingerprinting and metagenomic analysis; microorganism population structure studies; search for rational means of combating plant diseases.

PUBLICATIONS

Scientific articles in Clarivate Analytics Web of Science database publications with citation rate

PARTICIPATION IN SCIENTIFIC CONFERENCES

National scientific conferences:

1. Dėlkus M. 2021. Dynamics of phytoplasma infection identified in mountain pines (*Pinus mugo* TURRA) growing in the anthropogenic forest of the Curonian Spit National Park. - Research of young students in protected areas of Lithuania 2021", balantis, Vilnius, Lithuania
https://vstt.lrv.lt/uploads/vstt/documents/files/TEZI%C5%B2_RINKINYS_%E2%80%9EJAUN%C5%B2J%C5%B2_MOKSLININK%C5%B2_TYRIMAI_LIETUVOS_SAUGOMOSE%20TERITORIOSE_2021%E2%80%9C1.pdf
2. Dėlkus M. 2022. Phytoplasmas and their influence on infected berry plants. Biofutures: Perspectives in the Natural and Life Sciences, 24 November. Vilnius, Lithuania
https://www.lma.lt/uploads/LMA%20leidyba/BIOATEITIS%20prane%C5%A1im%C5%B3%20tez%C4%97s_2022.pdf

PARTICIPATION IN THE STUDY PROCESS

Supervision of undergraduate coursework

Augustas Mikalauskas Bachelor thesis topic: "Detection and identification of 2022 – 2024 phytoplasmas in samples of *Vaccinium* and *Rubus* plant genera" (VU GMC, Microbiology and Biotechnology)