

Dovilė Čepukoit

## CONTACT INFORMATION

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<https://www.researchgate.net/profile/Dovile-Cepukoit>

## EDUCATION AND ACADEMIC DEGREE

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2017 – 2023 PhD student in the area of Natural Sciences, field Biology (N010) at University of Vytautas Magnus and the Institute of Botany at the Nature Research Centre (Vilnius, Lithuania). Title of PhD thesis: „Invasive alien organisms: interaction between host-plant (*Fabaceae*) and phytopathogenic microorganisms in wildlife”. Supervisor: Dr D. Burokienė.

2015 – 2017 Master’s degree in microbiology and Biotechnology, Vilnius University, Lithuania. Title of Master thesis: „A Survey of *Phytophthora* Species on *Rhododendron* Plants in Vilnius University Botanical Garden”. Supervisor: Dr D. Burokienė.

2011 – 2015 Bachelor’s degree in biology, Lithuanian University of Educational Sciences, Lithuania. Title of Bachelor thesis: “Trakai district *Nepticulidae* (Lepidoptera), fauna and trophic relationships”. Supervisor: Dr A. Diškus and Dr J. R. Stonis.

## PROFESSIONAL EXPERIENCE

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2021 09 – until now young researcher  
(Laboratory of Plant Pathology, Institute of Botany, Nature Research Centre)

2017 07 – 2021 09 **Biologist**  
(Laboratory of Plant Pathology, Institute of Botany, Nature Research Centre)

2016 02 – 2017 07 **Scientific practice**  
(Laboratory of Phytopathogenic Microorganisms, Institute of Botany of Nature Research Centre)

## RESEARCH INTERESTS

My research is focused on investigation of pathogenic microorganisms (Fungi and Bacteria) on native and invasive plants in Lithuania. I have experience in various methods of molecular biology and microbiology: isolation and cultivation of fungal and bacterial cultures from infected and health plants material, DNA extraction, PCR-based techniques (as 16S rRNA gene, PCR melting Profile (PCR MP), repetitive PCR (rep-PCR), multilocus sequence analysis (MLSA), 18S rDNA and etc.), gel electrophoresis, preparation for sequencing.

## PUBLICATIONS

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

1. Mačionienė I., Čepukoit D., Šalomskienė J., Černauskas D., Burokienė D., Šalaševičienė A., 2022: Effects of Natural Antimicrobials on *Xanthomonas* Strains Growth. *Horticulturae* 8, 7. <https://doi.org/10.3390/horticulturae8010007>
2. Morales-Rodríguez I C., Anslan S., Auger-Rozenberg M, Augustin S., Baranchikov Y., Bellahirech

A., Burokienė D., Čepukoit D., Čota E., Davydenko K., Lehtijärvi T. D., Drenkhan R., Drenkhan T., Eschen R., Franić I., Glavendekić M., de Groot M., Kacprzyk M., Kenis M., Kirichenko N., Matsiakh I., Musolin D. L., Nowakowska J. A., O’Hanlon R., Prospero S., Roques A., Santini A., Talgø V., Tedersoo L., Uimari A., Vannini A., Witzell J., Woodward S., Zambounis A., Cleary M., 2019: Forewarned is forearmed: harmonized approaches for early detection of potentially invasive pests and pathogens in sentinel plantings. *NeoBiota* 47: 95–123. <https://doi.org/10.3897/neobiota.47.34276>

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

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- 2018 – 2019 **researcher** in project: “Biological control of forest invasive pathogens to preserve biodiversity in European noble forest and woodland ecosystems” (InvazBio). Project duration: 2018–2019. Lithuanian-Ukrainian bilateral cooperation science and technology program; project coordinator in Lithuania: Dr. Daiva Burokienė, NRC LPP, Vilnius, Lithuania.
- 2016 – 2018 **working group member** involved in project: “Assessing the role of climate factors in association with spread of invasive *Phytophthora* species in forests and from urban landscapes (Nordic Forest Research **SNS-121**; **coordinator**: Dr. Michelle Cleary, SLU, Sweden).
- 2019 – 2021 **working group member** in the project of Nordic Forest Research Co-operation Committee (SNS123) “Preventing the spread of new pathogens in Nordic forests to secure sustainable forestry in growing bioeconomy”. Project approved. Project coordinator: Dr. Johanna Witzell (SLU, Sweden).
- 2020 – 2022 **working group member** in the Lithuanian-Slovenian bilateral cooperation in the field of science and technology program project "Examination of fungal oxidases potential for lignin valorization". Project manager in Slovenia: dr. Blaž Likozar, The National Institute of Chemistry, Department of Catalysis and Chemical Reaction Engineering, Ljubljana, Slovenia.
- Participation in the European cooperation program COST:**
- 2021 – 2025 **working group member** in COST Action CA20132 and substitute representative of the management committee in Lithuania: Urban Tree Guard – Safeguarding European Urban Trees And Forests Through Improved Biosecurity (UB3Guard) CA20132. Coordinator of the Action: Dr. Johanna Witzell.
- 2019 – 2022 **working group member** in COST Action CA17128: “Establishment of a Pan-European Network on the Sustainable Valorisation of Lignin (LignoCOST)”. Coordinator of the Action: Stichting Wageningen Search, Netherlands.
- 2017 – 2021 **working group member** involved in COST Action CA16107: “Integrating science on *Xanthomonadaceae* for integrated plant disease management in Europe” (EuroXanth). Coordinators of the Action – researchers from Institut de Recherche pour le Developpement (Montpellier, Prancūzija).  
[http://www.cost.eu/COST\\_Actions/ca/CA16107](http://www.cost.eu/COST_Actions/ca/CA16107)  
<https://euroxanth.eu/>;
- 2014 – 2018 **working group member** involved in COST Action FP1401: “A global network of nurseries as early warning system against alien tree pests” (Global Warning); coordinator: Dr. R. Eschen, CABI (Centre for Agriculture and Biosciences International). Switzerland.  
[http://www.cost.eu/COST\\_Actions/fps/FP1401](http://www.cost.eu/COST_Actions/fps/FP1401)  
<https://www.ibles.pl/en/web/cost/globalwarning>

## **INTERNSHIP AND TRAINING**

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- 2018 09 24 – **Short term scientific mission (STSM)** „Phenotypic characterization and genetic diversity of *Xanthomonas* spp. isolates causing diseases on *Fabaceae* and other plants in Lithuania”. STSM Period: 2018-09-24–2018-11-02, Research Institute of Horticulture, Skierniewice, Poland. COST Action CA16107: „Integrating science on *Xanthomonadaceae* for integrated plant disease management in Europe (EuroXanth)”.
- 2016 11 22 – COST Action FP1401” A global network of nurseries as early warning system against alien tree pests (Global Warning)”. **Training School** “Fungal taxonomy and identification using traditional (i.e. not molecular) techniques”. 22-24<sup>th</sup> November 2016, Sękocin Stary, Poland.

## **PARTICIPATION IN SCIENTIFIC CONFERENCES**

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### **International scientific conferences:**

2022

1. **Čepukoit D.**, Burokienė D., 2022: Survey of pathogenic microorganisms on woody *Fabaceae* plants in Lithuania. The IUFRO All-Division 7 2022 Conference, September 6–9, Lisbon, Portugal.  
[https://iufro-lisbon2022.com/images/abstracts/book-of-abstracts\\_iufro\\_forest-health\\_6\\_9-sept\\_2022.pdf](https://iufro-lisbon2022.com/images/abstracts/book-of-abstracts_iufro_forest-health_6_9-sept_2022.pdf)
2. **Čepukoit D.**, Kałużna M., Burokienė D., 2022: Screening of microorganisms for antagonistic activity against pathogenic bacteria *Xanthomonas* spp. – 14<sup>th</sup> International Conference on Plant Pathogenic Bacteria (ICPPB), July 3–8, Assisi, Italy.
3. **Čepukoit D.**, Burokienė D., 2022: Molecular characterization of *Diaporthe* spp. isolates detected in *Fabaceae* plants. – 1<sup>st</sup> Meeting of COST Action CA20132, Safeguarding European Urban Trees and Forests Through Improved Biosecurity, May 10–12, Denizli, Turkey.

2021

4. Šalomskienė J., **Čepukoit D.**, Mačionienė I., Burokienė D., 2021: Influence of natural antimicrobials on *Xanthomonas* strains growth. – 4<sup>th</sup> Annual Conference of the EuroXanth COST Action, Integrating Science on *Xanthomonadaceae* for integrated plant disease management in Europe, June 28–30, Virtual Conference.  
[https://euroxanth.eu/wp-content/uploads/2021/08/Book\\_of\\_Abstracts-4th\\_Annual\\_Conference.pdf](https://euroxanth.eu/wp-content/uploads/2021/08/Book_of_Abstracts-4th_Annual_Conference.pdf)

2020

5. Morales-Rodríguez C., Anslan S., Auger-Rozenberg M.-A., Augustin S., Baranchikov Yu., Bellahirech A., Burokiene D., **Čepukoit D.**, Çota E., Davydenko K., Doğmuş-Lehtijärvi H.T., Drenkhan R., Drenkhan T., Eschen R., Franić I., Glavendekić M., de Groot M., Kacprzyk M., Kenis M., Kirichenko N., Matsiakh I., Musolin D.L., Nowakowska J.A., O’Hanlon R., Prospero S., Roques A., Santini A., Talgø V., Tedersoo L., Uimari A., Vannini A., Witzell J., Woodward S., Zambounis A., Cleary M., 2020: Preventive detection of potentially invasive pests and pathogens in sentinel plantings. In: *Dendrobiotic Invertebrates and Fungi and their Role in Forest Ecosystems. The Kataev Memorial Readings – XI*. Proceedings of the All-Russia Conference with International Participation (ed. by D.L. Musolin, N.I. Kirichenko, A.V. Selikhovkin). St. Petersburg (Russia): St. Petersburg State Forest Technical University, 2020. P. 225–226 (in Russian) and 227–228 (in English) [DOI: 10.21266/SPBFTU.2020.KATAEV]

2019

6. **Čepukoit D.**, Kałużna M., Burokienė D., 2019: Molecular characterization of *Xanthomonas* spp. isolates detected in *Fabaceae* plants. – 3<sup>rd</sup> Annual Conference of the EuroXanth COST Action, Faculty of Horticulture, September 9–11, Lednice, Czech Republic. [https://euroxanth.eu/wp-content/uploads/2019/10/EuroXanth\\_Third-Annual-Conference-Abstract-Book.pdf](https://euroxanth.eu/wp-content/uploads/2019/10/EuroXanth_Third-Annual-Conference-Abstract-Book.pdf)
7. **Čepukoit D.**, Šepetovskaja J., Karolis S., Burokienė D., 2019: Screening of microorganisms for

antagonistic activity against pathogenic fungi of *Pinus* spp. – 3<sup>rd</sup> International Conference SmartBio (ICSB 2019), May 2–4, Kaunas, Lithuania.

8. Čepukoit D., Sivickis K., Kałużna M., Burokienė D., 2019: Characterization of *Xanthomonas* spp. isolates obtained from *Fabaceae* plants. – 62<sup>nd</sup> International conference for students of physics and natural sciences “Open Readings 2019”, March 19–22, Vilnius, Lithuania.
9. Čepukoit D., Šepetovskaja J., Sivickis K., Burokienė D., 2019: Antagonistic microorganisms efficient for biological control of fungal pathogen of *Pinus* spp. – 62<sup>nd</sup> International conference for students of physics and natural sciences “Open Readings 2019”, March 19–22, Vilnius, Lithuania. <https://www.openreadings.eu/wp-content/uploads/2019/03/abstractbook19.pdf>

2018

10. Sivickis K., Čepukoit D., Gudžinskas Z., Burokienė D., Bukys T., 2018: Searching for causal agents in the oaks (*Quercus* spp.) Stands. – The International Conference “Young Scientists for Advance of Agriculture”, November 15, Vilnius, Lithuania.
11. Čepukoit D., Burokienė D., 2018: Survey of *Diaporthe* species on invasive *Fabaceae* plants in Lithuania. – COST Action FP1401 conference “Sentinel plantings for detecting alien, potentially damaging tree pests. State of the art 2018”, October 9–12, Sursee, Switzerland: 48.
12. Čepukoit D., Gudžinskas Z., Burokienė D., 2018: A survey of pathogenic fungi on invasive plant *Cytisus scoparius* in Lithuania. – 10<sup>th</sup> International Conference on Biological Invasions: New Directions in Invasion Biology, „NEOBIOTA 2018“, September 4–7, Dun Laoghaire, Dublin, Ireland. [https://na.eventscloud.com/file\\_uploads/db6fe9076cf680d794ca865581d89dd6\\_NEOBIOTA\\_singlesV3\\_290818.pdf](https://na.eventscloud.com/file_uploads/db6fe9076cf680d794ca865581d89dd6_NEOBIOTA_singlesV3_290818.pdf)
13. Čepukoit D., Putramentaitė A., Burokienė D., 2018: Investigation of phytopathogenic microorganisms on invasive alien plants. – 24<sup>th</sup> International scientific-practical conference “Human and nature safety”, May 9–11, Kaunas, Lithuania.
14. Čepukoit D., Putramentaitė A., Burokienė D., 2018: Phytopathogenic microorganisms on invasive *Fabaceae* plants in Lithuania. – 2<sup>nd</sup> International Conference SmartBio (ICSB 2018), May 3–5, Kaunas, Lithuania. <http://icsb.vdu.lt/wp-content/uploads/2018/06/ABSTRACT-BOOK-ICSB-2018.V2.pdf>
15. Čepukoit D., Putramentaitė Aurelija, Burokienė Daiva, 2018: Microbial Diversity of Invasive *Fabaceae* Plants. – 61<sup>st</sup> International conference for students of physics and natural sciences “Open Readings 2018”, March 20–23, Vilnius, Lithuania: 247. <https://www.openreadings.eu/wp-content/uploads/2018/03/book.pdf>

2017

16. Čepukoit D., Norkutė G., Sivickis K., Burokienė D., 2017: *Phytophthora* spp. on *Rhododendron* in Lithuania. – 125<sup>th</sup> Anniversary Congress 2017 “IUFRO”, September 18–22, Freiburg, Germany: 411.
17. Sivickis K., Čepukoit D., Matelis A., Burokienė D., 2017: Studies of fungal community in declining *Quercus robur* L. stands. – The International Conference “Young Scientists for Advance of Agriculture”, November 16, Vilnius, Lithuania: 27.
18. Sivickis K., Čepukoit D., Norkute G., Burokiene D., 2017: An importance of *Phytophthora* species of oak decline in Lithuania. – 60<sup>th</sup> International conference for students of physics and natural sciences “Open Readings 2017”, March 14–17, Vilnius, Lithuania: 348.
19. Čepukoit D., Norkutė G., Burokienė D., 2017: Rododendrų (*Rhododendron* L.) fitoftorozė VU Botanikos sode. – Tarptautinė mokslinė-praktinė konferencija „Gėlininkystės pokyčiai ir naujos technologijos“, balandžio 28 d., Vilnius, Lietuva.
20. Sivickis K., Čepukoit D., Norkutė G., Burokienė D., 2017: An investigation of pathogenic fungi in *Quercus robur* L. in Lithuania. – 23<sup>rd</sup> International scientific-practical conference “Human and nature safety”, May 3–5, Kaunas, Lithuania.

2016

21. Čepukoit D., Norkutė G., Burokienė D., 2016: A survey of *Phytophthora* species on *Rhododendron* plants. – International workshop “Current Issues of Plant Conservation”, August

16–18, Kaunas, Lithuania.

22. Norkutė G, Čepukoit D., Lygis V., Prospero S., 2016: *Phytophthora alni* s.l. and *Phytophthora plurivora* species complex virulence test on *Alnus glutinosa* seedlings. – The International Conference of Young Scientists for Advance of Agriculture, November 10, Vilnius, Lithuania.

#### National scientific conferences:

1. Dunovska J., Rinkevičiūtė I., Čepukoit D., Burokienė D., 2022: Invazinių *Robinia pseudoacacia* ir *Cytisus scoparius* augalų endofitinių grybų įvairovė. Lietuvos mikrobiologų konferencija – „Mikrobiologija 2022“, Balandžio 28–29, Birštonas, Lietuva.
2. Juočytė L., Sivickis K., Čepukoit D., Matelis A., Burokienė D., 2022: Lietuvoje augančių *Quercus robur* mikroskopinių grybų įvairovė. Lietuvos mikrobiologų konferencija – „Mikrobiologija 2022“, Balandžio 28–29, Birštonas, Lietuva.
3. Mačionienė I., Šalomskienė J., Čepukoit D., Burokienė D., 2022: Antibacterial Activity of Some Lactic Acid Bacteria and Essential Oils on *Xanthomonas* Spp. Growth. Lietuvos mikrobiologų konferencija – „Mikrobiologija 2022“, Balandžio 28–29, Birštonas, Lietuva.
4. Čepukoit D., Gudžinskas Z., Burokienė D., 2021: Invazinio augalo *Cytisus scoparius* (*Fabaceae*) mikrobiotos tyrimai. – 14-oji Lietuvos jaunųjų mokslininkų konferencija „Bioateitis: gamtos ir gyvybės mokslų perspektyvos“, Lapkričio 25, Kaunas, Lietuva. [https://www.lma.lt/uploads/files/2021-11-25%20BIOATEITIS%20prane%c5%a1im%c5%b3%20santraukos\\_internetui.pdf](https://www.lma.lt/uploads/files/2021-11-25%20BIOATEITIS%20prane%c5%a1im%c5%b3%20santraukos_internetui.pdf)

## PARTICIPATION IN THE STUDY PROCESS

### Supervision of bachelor students:

Ieva Rinkevičiūtė Topic of bachelor thesis: „Šluotinio sausakrūmio (*Cytisus scoparius*) endofitinių grybų charakterizavimas“ (VU GMC, Biology) 2020 – 2021

Jolanta Dunovska Topic of bachelor thesis: „Invazinio augalo *Robinia pseudoacacia* mikrobiotos tyrimai“ (VU GMC, Microbiology and Biotechnology) 2020 – 2021

### OTHERS

**Tyrėjų naktis 2016.** The event organized at the Laboratory of Phytopathogenic Microorganisms, Institute of Botany of Nature Research Centre “Pažvelkime į augalų ligų pasaulį iš arčiau” (2016-09-30).

**Tyrėjų naktis 2017.** The event organized at the Laboratory of Plant Pathology, Institute of Botany, Nature Research Centre „Tapk mokslininko asistentu augalų patologijos laboratorijoje“ (2017-09-29).

**Tarptautinė mikroorganizmų diena 2018.** Sužinokite, kas jie tokie ir kaip tai daro “Slapti gamtos valdovai”.

**“Erdvėlaivis Žemė” 2022** The event organized at the Nature Research centre.

Other articles 2018:

1. Grigaliūnaitė B., Burokienė D., Čepukoit D. 2018. Paprastojo buksmedžio (*Buxus*) vėžys. *Sodo spalvos*.
2. Čepukoit D., Burokienė D., Pribušauskaitė V. 2018. Rododendrų fitoflorozė. *Sodo spalvos*.