

Vaida Vaičiulytė

CONTACT INFORMATION

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EDUCATION AND ACADEMIC DEGREE

2020 – 2022	Postdoctoral fellow. Nature Research Centre, Latvia University of Life Sciences and Technologies. Theme: “Influence of fertilization on above-ground biomass, essential oil composition density and size of glandular trichomes of <i>Thymus × citriodorus</i> ”
2023 – 2018	PhD study at Biomedical area, Ecology and environmental science (N 012) (Vilnius university and Nature Research Centre). Dissertation theme: <i>Thymus pulegioides</i> chemotypes in Lithuania: distribution, influence of edaphic and climatic factors, allelopathic features, supervisor– dr. K. Ložienė. Research area: <i>Thymus pulegioides</i> essential oil; influence of edaphic and climatic conditions for essential oil quantitative and qualitative composition, essential oil of different chemotypes allelopathic features.
2012 – 2015	Vilnius university of Applied Sciences Agrotechnology faculty, Veterinary / Professional bachelor . Diploma with honors. Theme: “Analysis of gynaecological diseases in Cows”. Work done in department of Veterinary and “Ginkūnai agricultural company”.
2011 – 2013	Vilnius university Natural Science faculty, Botany / Master’s degree. Magna Cum Laude diploma. Theme: “Effects of some abiotic factors on phenotypic variation in common juniper (<i>Juniperus communis</i> L.)”. Work done in department of Botany and Genetics of Vilnius university and Laboratory of Economic Botany Institute of Botany, Nature Research Centre.
2007 – 2011	Klaipėda university, Faculty of Natural Sciences and Mathematics Biology/Bachelor. Theme: “The helminths communities of rodents in buildings of Sauginiai and Jakštaičiai villages”.

PROFESSIONAL EXPERIENCE

2018 – until now	Researcher (Institute of Botany, Nature Research Centre)
2017 – 2018	Junior researcher (Institute of Botany, Nature Research Centre)
2017 02 01 – 11 07	Biologist (Institute of Botany, Nature Research Centre)
2015 – 2017	Laboratory assistant (Institute of Botany, Nature Research Centre)

RESEARCH INTERESTS

Research area: influence of chemical composition of soil, climatic, fertilization and phytohormones for morphometrical parameters, quantitative and qualitative composition of essential oil, density of stomata and glandular trichomes, size of glandular trichomes of plants from genus *Thymus*. Research do at the Field collection of Botany institute Nature Research Centre and in the natural habitats. In the fertilization experiments by individual methodology in every cases done fertilization experiments, the soil take for chemical analysis. Before cut off the raw material do morphometrical measurements. Quantitative analysis of essential oil is done by hydrodistillation method, qualitative analysis by – GC– FID and GC– MS. Anatomical investigation of stomata and glandular trichomes are done by imprint method used light microscope.

PUBLICATIONS

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

1. **Vaičiulytė, V.**, Ložienė, K., Sivická, I. 2022. Effect of organic matter fertilizers on the composition of volatiles morphometrical and anatomical parameters of essential oil bearing *Thymus × citriodorus* growing in an open field conditions. *Horticulturae*. 8, 917.
2. **Vaičiulytė, V.**, Ložienė K., Taraškevičius, R. 2022. Impact of edaphic and climatic factors on *Thymus pulegioides* essential oil composition and potential prevalence of chemotypes. *Plants*. 11, 2536.
3. Ložienė, K., **Vaičiulytė, V.** 2022. Geraniol and carvacrol in essential oil bearing *Thymus pulegioides*: distribution in natural habitats and phytotoxin effects. *Molecules*. 27(3), art.no. 27.
4. **Vaičiulytė V.**, Ložienė K., Švedienė J., Raudonienė V., Paškevičius A., 2021. Alfa terpinyl acetate: occurrence in essential oils of bearing *Thymus pulegioides*, phytotoxicity, and antimicrobial effects. *Molecules*. 26(4), art.no.1065.
5. Ložienė K., **Vaičiulytė V.**, Maždžierienė R., 2021. Influence of meteorological conditions on essential oil composition in geraniol-bearing *Thymus pulegioides* and *Thymus* hybrid. *Acta Physiologie Plantarum*, 43(2), art.no.27.
6. Ložienė K., Labokas J., **Vaičiulytė V.**, Švedienė J., Raudonienė V., Paškevičius A., Šveistytė L., Apšegaitė V. 2020. Chemical composition and antimicrobial activity of fruit essential oils of *Myrica gale* a neglected non-wood forest production. *Baltic forestry*, 26(1): art.no.423
7. **Vaičiulytė V.**, Ložienė K., 2019: Impact of chemical polymorphism of *Thymus pulegioides* on some associated plant species under natural and laboratory conditions. *Plant biosystems-an international journal dealing with all aspects of plant biology*. <https://doi.org/10.1080/11263504.2019.1674401>
8. **Vaičiulytė V.**, Ložienė K., Taraškevičius R., Butkienė R., 2017: Variation of essential oil composition of *Thymus pulegioides* in relation to soil chemistry. *Industrial Crops and Products*. 95, 422–433.
9. **Vaičiulytė V.**, Butkienė R., Ložienė K. 2016. Effects of meteorological conditions and plant growth stage on the accumulation of carvacrol and its precursors in *Thymus pulegioides*. *Phytochemistry*. 128, 20–26.
10. **Vaičiulytė V.**, Ložienė K., 2015. Metabolomic analysis and effects of meteorological factors on phenolic and non-phenolic chemotypes of *Thymus pulegioides* L. cultured in the same locality. *Industrial Crops and Products*. 77: 491–498.
11. Švedienė J., Raudonienė V., Ložienė K., Bridžiuvienė D., Paškevičius A., **Vaičiulytė V.** 2015. The Effect of Various *Thymus pulegioides* Chemotypes Essential Oils and pH on Food Spoilage Microorganisms. *Journal of Essential Oil Bearing Plants*. 18 (2): 276–288.

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

1. Ložienė K., Vaičiulytė V. 2017. Ecological characteristics of habitats and occurrence of *Thymus pulegioides* (Lamiaceae) in Lithuania. – *Thaiszia – Journal of Botany (Košice)*. 27 (1): 49–64.
2. Vaičiulytė V., Ložienė K. 2013: Variation of chemical and morphological characters of leaves and unripe cones in *Juniperus communis*. *Botanica Lithuanica*, 19(1): 37–47.

PARTICIPATION IN INTERNATIONAL AND NATIONAL SCIENTIFIC PROGRAMMES AND PROJECTS

2020 08 05 – Postdoctoral fellowship. Theme: ‘‘Influence of fertilization on above-ground
2022 08 04 biomass, essential oil composition density and size of glandular trichomes of
Thymus × citriodorus’ Supervisor dr. K. Ložienė.

INTERNSHIP AND TRAINING

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PARTICIPATION IN SCIENTIFIC CONFERENCES

International scientific conferences:

1. Vaičiulytė V., Ložienė K., Taraškevičius R., 2019. *Thymus pulegioides* chemotypes Lithuania: distribution and influence of edaphic factors. – 3 RD International conference "Smart Bio", Kaunas (Lithuania), 02-04 May 2019: 255.
2. Vaičiulytė V., Ložienė K., 2019. *Thymus pulegioides* a-terpinyl acetate chemotype: distribution in Lithuania, allelopathic, autoallelopathic features. – 62 ND for students of physics and natural sciences, 19-22 March 2019 : 463.
3. Vaičiulytė V., Ložienė K., 2018. Effect of edaphic and climatic factors on *Thymus pulegioides* linalool chemotype. – The international conference of young scientists– young scientists for advance of agriculture, 15 November 2018: 34.
4. Vaičiulytė V., Ložienė K., Taraškevičius R., Butkienė R. Effect of edaphic factors on composition of essential oils of *Thymus pulegioides* growing wild in the east and south east Lithuania. – 47 th International Symposium on Essential Oils. – Book of Abstracts, 2016: 149, Nice (France), 11–14 September 2016.
5. Vaičiulytė V., Ložienė K. Original standardization of pharmacologically valuable compounds in phytopharmaceuticals: separation of variation of carvacrol amount in two different raw materials of large thyme (*Thymus pulegioides*). – 6th International Pharmaceutical Conference“Science and Practice“, Kaunas (Lithuania), 5–6 November 2015: 28.
6. Vaičiulytė V., Ložienė K. The quest of productive variety of carvacrol chemotype of *Thymus pulegioides*: metabolomic analysis and effects of meteorological conditions. – 46th International Symposium on Essential Oils. Natural Volatiles and Essential Oils, 2015, 2 (3): 123, Lublin, (Poland), 13–16 September 2015.
7. Vaičiulytė V., Ložienė K. Effect of edaphic factors on composition of essential oils of *Thymus pulegioides* L. growing wild in Lithuania. – 8th International Conference on Biodiversity Research, Daugavpils (Latvia), 28–30 April 2015.

National scientific conferences:

1. Vaičiulytė V., Ložienė K. Influence of fertilization on above-ground biomass and quantitative and qualitative composition of lemon thyme (*Thymus × citriodorus*). – Book of Abstracts book of the 10th Conference of Young Scientists „The Young Scientists for Agricultural Progress” (Vilnius,- 18 November 2021): 29.
2. Vaičiulytė V., Ložienė K. Effect of soil chemical composition on quantitative and qualitative composition of essential oil of *Thymus pulegioides*. Book of Abstracts „10 th National Conference Lithuanian Biodiversity: Status, Structure, protection (Vilnius, - 20 November 2015,): 17–18.
3. Vaičiulytė V., Ložienė K. Effect of climatic conditions on accumulation of carvacrol in essential oil of *Thymus pulegioides*.– Book of Abstracts book of the 3rd Conference of Young Scientists „The Young Scientists for Agricultural Progress” (Vilnius,- 6 November 2014): 31.

OTHERS

1. Award from best presentation . Vaičiulytė V., Ložienė K. Effect of climatic conditions on accumulation of carvacrol in essential oil of *Thymus pulegioides*.– Book of Abstracts book of the 3rd Conference of Young Scientists „The Young Scientists for Agricultural Progress” (Vilnius,- 6 November 2014): 31.