

Kristina Ložienė

CONTACT INFORMATION

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www.researchgate.net/profile/Kristina-Loziene

EDUCATION AND ACADEMIC DEGREE

2002 Biomedical sciences, botany (04 B) Ph.D (Vilnius University and Institute of Botany).
Doctoral thesis: “Evaluation of intraspecific diversity of the *Thymus* genus (stability of morphotypes and chemotypes, selection of valuable clones)”, chairman – dr. J. Vaičiūnienė.
Field of research: chemical polymorphism; plant secondary metabolites; morphological diversity.

1993 Vilnius University, Biology / Master's degree

PROFESSIONAL EXPERIENCE

2016 – present **Chief researcher**
Laboratory of Economic Botany, Institute of Botany, Nature Research Centre

2020 – present **Assistant**
Pharmacy Center, Institute of Biomedical Science, Faculty of Medicine, Vilnius University

2017 – 2020 **Lector**
Pharmacy Center, Institute of Biomedical Science, Faculty of Medicine, Vilnius University

2008 – 2016 **Senior researcher**
Laboratory of Economic Botany, Institute of Botany
(from 2010 – Institute of Botany, Nature Research Centre)

2003 – 2008 **Researcher**
Laboratory of Economic Botany, Institute of Botany

2002 – 2003 **Junior researcher**
Laboratory of Economic Botany, Institute of Botany,

1995 – 2002 **PhD student**
Laboratory of Economic Botany, Institute of Botany

1993 – 1998 **Laboratory technician**
Department of Plants Physiology and Microbiology, Faculty of Nature Sciences, Vilnius University

RESEARCH INTERESTS

Field of research: studies of medicinal and berry plants used in natural ecosystems, the regularities of their interspecific chemical and genetic diversification, plant genetic resources, biological diversity; studies of the diversity of biologically active compounds accumulating in plants, distribution features, accumulation regularities, influence of genetic and environmental factors, functional properties; isolation of biologically active compounds accumulating in plants (hydrodistillation, various extractions) and analysis by various methods (GC-FID, GC-MS, spectrophotometry); analysis of the composition of essential oils by GC-FID, GC-MS methods.

PUBLICATIONS

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

1. **Ložienė K.**, Maskolaitytė V., Labokas J., Būdienė J., Vaičiulytė V. 2023. Chemical Composition of Essential Oils and Local Knowledge of *Myrica gale* in Lithuania. – *Plants*, 12, 1050. <https://doi.org/10.3390/plants12051050>
2. Stakelienė V., Pašakinskienė I., **Ložienė K.**, Ryliskis D., Skridaila A. 2023. Vertical Columns with Sustainable Green Cover: Meadow Plants in Urban Design. – *Plants*, 12, 636. <https://doi.org/10.3390/plants12030636>
3. **Ložienė K.**, Būdienė J., Vaitiekūnaitė U., Pašakinskienė I. 2023. Variations in Yield, Essential Oil and Salicylates of *Filipendula ulmaria* Inflorescences at Different Blooming Stages. – *Plants*, 12(2), 300. <https://doi.org/10.3390/plants12020300>
4. 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* Cultivated in an Open Field Conditions. – *Horticulturae*, 8, 917. <https://doi.org/10.3390/horticulturae8100917>
5. 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(19), 2536. <https://doi.org/10.3390/plants11192536>
6. Ščiukaitė A., **Ložienė K.**, Labokas J., Jurkonienė S. 2022. Contents of some bioactive compounds in Norway spruce needles as affected by short-term storage at different conditions and implications for their industrial use. – *Industrial Crops and Products*, 182, 114919. <https://doi.org/10.1016/j.indcrop.2022.114919>
7. **Ložienė K.**, Vaičiulytė V. 2022. Geraniol and Carvacrol in Essential Oil Bearing *Thymus pulegioides*: Distribution in Natural Habitats and Phytotoxic Effect. – *Molecules*, 27(3), 986. <https://doi.org/10.3390/molecules27030986>
8. Kamaitytė-Bukelskienė L., **Ložienė K.**, Labokas J. 2021. Dynamics of Isomeric and Enantiomeric Fractions of Pinene in Essential Oil of *Picea abies* Annual Needles during Growing Season. – *Molecules*, 26(8), 2138. <https://doi.org/10.3390/molecules26082138>
9. Vaičiulytė V., **Ložienė K.**, Švedienė J., Raudonienė V., Paškevičius A. 2021. α -Terpinyl Acetate: Occurrence in Essential Oils Bearing *Thymus pulegioides*, Phytotoxicity, and Antimicrobial Effects. – *Molecules*, 26(4), 1065. <https://doi.org/10.3390/molecules26041065>
10. **Ložienė K.**, Vaičiulytė V., Maždžierienė R. 2021. Influence of meteorological conditions on essential oil composition in geraniol-bearing *Thymus pulegioides* and *Thymus* hybrid. – *Acta Physiologiae Plantarum*, 43(2): 27.
11. Vaičiulytė V., **Ložienė K.** 2020. Impact of chemical polymorphism of *Thymus pulegioides* on some associated plant species under natural and laboratory conditions. – *Plant Biosystems*, 154, 663–672.
12. **Ložienė K.**, Labokas J., Vaičiulytė V., Švedienė J., Raudonienė V., Paškevičius A., Šveistytrė L., Apšegaitė V. 2020. Chemical composition and antimicrobial activity of fruit essential oils of *Myrica gale*, a neglected non-wood forest product. – *Baltic Forestry*, 26(1): 423.
13. Jurevičiūtė R., **Ložienė K.**, Bruno M., Maggio A., Rosselli S. 2019. Composition of essential oil of lemon thyme (*Thymus × citriodorus*) at different hydrodistillation times. – *Natural Product Research*, 33: 80–88 DOI: 10.1080/14786419.2018.1434642
14. **Ložienė K.**, Švedienė J., Paškevičius A., Raudonienė V., Sytar O., Kosyan A. 2018. Influence of plant origin natural α -pinene with different enantiomeric composition on bacteria, yeasts and fungi. – *Fitoterapia* 127: 20–24.
15. Labokas J., **Ložienė K.**, Jurevičiūtė R. 2017. Preconditions for industrial use of foliage as felling by-product of Scots pine for essential oil production. – *Industrial Crops and Products*, 109: 542–547.

16. 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.
17. 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.
18. Sytar O., Švedienė J., **Ložienė K.**, Paškevičius A., Kosyan A., Taran N. 2016. Antifungal properties of hypericin, hypericin tetrasulphonic acid and fagopyrin on pathogenic fungi and spoilage yeasts. – *Pharmaceutical Biology*, 54 (12): 3121–3125.
19. Venskutonis P.R., Barnackas Š., Kazernavičiūtė R., Maždžierienė R., Pukalskas A., Šipailienė A., Labokas J., **Ložienė K.**, Abrutienė G. 2016. Variations in antioxidant capacity and phenolics in leaf extracts isolated by different polarity solvents from seven blueberry (*Vaccinium* L.) genotypes at three phenological stages. – *Acta Physiologiae Plantarum*. 38 (2): art. no. 33.
20. Vaičiulytė V., **Ložienė K.** 2015. Metabolomic analysis and effects of meteorological factors on phenolic and non-phenolic chemotypes of *Thymus pulegioides* L. cultured in same locality. – *Industrial Crops and Products*, 77: 491–498.
21. 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. (ISSN 0972-060X).
22. Stakelienė V., **Ložienė K.** 2014. Gynodioecy in *Thymus pulegioides* L., *T. serpyllum* L. and their hybrid *T. × oblongifolius* Opiz (*Lamiaceae*): flower size dimorphism, female frequency and effect of environmental factors. – *Plant Biosystems*, 148 (1): 49–57.
23. Labokas J., **Ložienė K.** 2013. Variation of essential oil yield and relative amounts of enantiomers of α -pinene in leaves and unripe cones of *Juniperus communis* L. growing wild in Lithuania. – *Journal of Essential Oil Research*, 25(4): 244–250. (ISSN: 1041–2905)
24. Formisano C., Rigano D., Senatore F., Arnold N. A., Simmonds M. S. J., Rosselli S., Bruno M., **Ložienė K.** 2013. Essential oils of three species of *Scutellaria* and their influence on *Spodoptera littoralis*. – *Biochemical Systematics and Ecology*, 48: 206–210.
25. **Ložienė K.**, Šipailienė A., Maždžierienė R., Labokas J., Venskutonis P. R. 2012. Composition of Essential Oil, Radical Scavenging and Antibacterial Properties of Interspecific Hybrid *Thymus × oblongifolius* Opiz. – *Records of Natural Products*, 6 (1): 84–88.
26. **Ložienė K.**, Labokas J. 2012. Effects of abiotic environmental conditions on amount and enantiomeric composition of α -pinene in *Juniperus communis* L. – *Biochemical Systematics and Ecology*, 44: 36–43.
27. Tekorienė, r., **ložienė, k.** (2012): Disinfecting capacity of essential oil of *Thymus pulegioides* L. (*Lamiaceae*) chemotypes against phytopathogenic *Pseudomonas* species. – *Acta Alimentaria*, 41 (2): 257–264.
28. Raccuglia R. A., Bellone G., **Ložienė K.**, Piozzi F., Rosselli S., Maggio A., Bruno M., Simmonds M. S. J. 2010. Hastifolins A-G, antifeedant *neo*-clerodane diterpenoids from *Scutellaria hastifolia*. – *Phytochemistry*, 71: 2087–2091.
29. **Ložienė K.**, Labokas J., Venskutonis P. R., Maždžierienė R. 2010. Chromatographic evaluation of the composition of essential oil and α -pinene enantiomers in *Juniperus communis* L. berries during ripening. – *Journal of Essential Oil Research*, 22: 453–458.
30. **Ložienė K.**, Venskutonis P. R. 2010. Chemotypes of interspecific hybrid of *Thymus × oblongifolius* Opiz growing wild in Lithuania and effects of cloning on essential oil composition. – *Journal of Essential Oil Research*, 22: 581–588.
31. **Ložienė K.** 2009. Selection of fecund and chemically valuable clones of thyme (*Thymus*) species growing wild in Lithuania. – *Industrial Crops and Products*, 29: 502–508.

32. **Ložienė K.**, Venskutonis P. R., Šipailienė A., Labokas J. 2007. Radical scavenging and antibacterial properties of the extracts from different *Thymus pulegioides* L. chemotypes. – *Food Chemistry*, 103(2): 546–559.
33. **Ložienė K.**, Venskutonis P. R. 2006. Chemical composition of the essential oil of *Thymus serpyllum* L. ssp. *serpyllum* growing wild in Lithuania. – *Journal of Essential Oil Research*, 18: 206–211.
34. **Ložienė K.**, Venskutonis P. R. 2005. Influence of environmental and genetic factors on the stability of essential oil composition of *Thymus pulegioides*. – *Biochemical Systematics and Ecology*, 33: 517–525.
35. **Ložienė K.**, Vaičiūnienė J., Venskutonis P. R. 2003. Chemical composition of the essential oil of different varieties of thyme (*Thymus pulegioides* L.) growing wild in Lithuania. – *Biochemical Systematics and Ecology*, 31: 249–259.
36. **Ložienė K.**, Vaičiūnienė J., Venskutonis P. R. 2002. Chemical composition of the essential oil of an interspecific hybrid of thyme (*Thymus x oblongifolius* Opiz) growing wild in Lithuania. – *Journal of Essential Oil Research*, 14: 308–311.
37. **Ložienė K.**, Vaičiūnienė J., Venskutonis P. R. 1998). Chemical Composition of the Essential Oil of Creeping Thyme (*Thymus serpyllum* s. l.) Growing Wild in Lithuania. – *Planta Medica*, 64 (8): 772–773.

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.
3. Kamašina V., **Ložienė K.** 2009. The evaluation of phenotypic diversity of *Thymus x oblongifolius* according to some anatomical characters and comparison with parent species. – *Acta Botanica Hungarica*, 51 (1–2): 85–97. ISSN: 0236–6495)
4. **Ložienė K.**, Šakalytė J., Paškevičius A., Venskutonis P.R. 2008. Anti-candida activity of *Thymus pulegioides* (Lamiaceae) essential oils depends on plant chemotype. – *Herba Polonica*, 54(4): 79–93. ISSN: 0018-0599.
5. **Ložienė K.** 2006. Instability of morphological features used for classification of *Thymus pulegioides* infraspecific taxa. – *Acta botanica hungarica*, 48: 345–360. ISSN: 0236–6495
6. **Ložienė K.**, Venskutonis P.R., Vaičiūnienė J. 2002. Chemical diversity of essential oil of *Thymus pulegioides* L. and *Thymus serpyllum* L. growing in Lithuania. – *Biologija*, 1: 62–64. ISSN: 1392–0146
7. **Ložienė K.** 2002. Intraspecific taxa of *Thymus serpyllum* (Lamiaceae) growing in Lithuania. – *Thaiszia – Journal of Botany* (Košice), 12: 61–74. ISSN: 1210–0420
8. **Ložienė K.**, Kamašina V. 2006. The evaluation of phenotypic diversity of *Thymus x oblongifolius* Opiz according to some morphological characters and comparison with parent species. – *Acta biologica universitatis daugavpiliensis*, 6: 31–38. ISSN: 1407–8953.
9. **Ložienė K.**, Mártonfiova L. 2004. *Thymus* chromosome numbers from Lithuania. – *Thaiszia–Journal of Botany* (Košice), 14: 63–73. ISSN: 1210–0420.

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

1. **Ložienė K.**, Venskutonis P. R. 2016. Juniper (*Juniperus communis* L.) Oils. – In: Preedy V.R. (ed.). *Essential Oils in Food Preservation, Flavor and Safety*. Academic Press, Elsevier Inc., 495–500. DOI: 10.1016/B978-0-12-416641-7.00056-0
2. Labokas J., Karpavičienė B., Šveistytė L., Radušienė J., **Ložienė K.**, 2012. 13. Towards *in situ* Conservation of Crop Wild Relatives in Lithuania. In: Maxted N., Dulloo M.E., Ford-Lloyd B.V., Frese L., Irinodo J.M., Carvalho. M.A.A.P. de (eds.). *Agrobiodiversity Conservation: Securing the Diversity of Crop Wild Relatives and Landraces*. – CABI International 2012, p. 91-95. ISBN 978-1-84593-099-8.
3. **Ložienė K.**, Venskutonis P.R. 2006. Variation of chemical composition of essential oils in thymus serpyllum l. Subsp. Serpyllum growing wild in lithuania – in: *sustainable development in the baltic and beyond*. Edited by w. L. Filho, a. Ubelis, d. Berzina (eds) (issn: 1434–3819, isbn: 3-631-55282-3), 23: 18: 487–491.

PARTICIPATION IN INTERNATIONAL AND NATIONAL SCIENTIFIC PROGRAMMES AND PROJECTS

2020–2022	leader of Post Doc „Evaluation of fertilization effect on <i>Thymus × citriodorus</i> biomass, essential oil composition, size and density of glandular trichomes“
2019.07–08	leader of Students’ two research practices according to project „Promotion of Students’ Scientific Activities“ (part “The Researchers Career Programme 2014–2020”) sponsored by the European Union Structural Funds and implemented by the Research Council of Lithuania (No. 09.3.3-LMT-K-712)
2018.07–08	
2014–2018	member of MC of COST action FA1306 „The quest for tolerant varieties - Phenotyping at plant and cellular level“
2011–2014	participant of project „Change of bioactive compounds in underutilised berry species depending on genotype and environment“
2011–2013	participant of GRUNDTVIG project Nr.“Forest plants wild harvesting learning in Europe” (LLP-GRU-2011-LT-00137)
2013–2015	participant of project „Education programmes for qualification of pharmacotechnics in Vilnius University“ (part “The Researchers Career Programme 2007–2013”), Nr. VP1-2.2-ŠMM-04-V-06-017, sponsored by the European Union Structural Funds and implemented by Ministry of Education and Science of the Republic of Lithuania.
2013.07–09,	leader of Students’ researches and research practices according to project „Promotion of Students’ Scientific Activities“ (part “The Researchers Career Programme 2007–2013”) sponsored by the European Union Structural Funds and implemented by the Research Council of Lithuania (VP1-3.1-ŠMM-01-V-02-003)
2014.09–12,	
2012.09–01,	
2012.02–06	
2010–2011	leader of project „Effects of abiotic environmental conditions on distribution of α -pinene enantiomers in common juniper (<i>Juniperus communis</i> L.) (MIP-10093)
2006–2008	participant of project of Single Programming Document (SPD) measure No. 2.5 „BIOTYRA“
2003	participant of project „Antioxidant and antimicrobial properties of different chemotypes of <i>Thymus pulegioides</i> “ (T-39)

INTERNSHIP AND TRAINING

- 2008 „New multidimensional (MDGC) and comprehensive two-dimensional (GCxGC) approaches in GC“ (Bruges, Belgium); prof. P. J. Marriott (RMIT University, Australia)
- 2008 trainings „Introduction to SPSS for Windows“ and „Advanced Statistical Analysis with SPSS“ (Vilnius)
- 2007 GIS training, UAB „HNIT-BALTIC“, Vilnius
- 2001 Karyological research (University of P. J. Safarik, Kosice, Slovakia)
- 1999 GC/MS analysis of essential oils (Research Institute of Medicinal Plants, Poznan, Poland)

PARTICIPATION IN SCIENTIFIC CONFERENCES

International scientific conferences:

1. Vaičiulytė V., **Ložienė K.** 2020. Yield and chemical composition of essential oil in geraniol bearing large thyme (*Thymus pulegioides*). – *International conference “Open readings 2020”*, March 17–20, Vilnius, Lithuania. Book of Abstracts: 428. <http://www.openreadings.eu/wp-content/uploads/2020/04/knyga20N.pdf>
2. Vaičiulytė V., **Ložienė K.**, Taraškevičius R. 2019. *Thymus pulegioides* chemotypes Lithuania: distribution and influence of edaphic factors. – *3rd International Conference on Life and Environmental Sciences “Smart Bio”*, May 2–4, Kaunas, Lithuania. Book of Abstracts: 255.
3. Vaičiulytė V., **Ložienė K.** 2019. *Thymus pulegioides* α -terpinyl acetate chemotype: distribution in Lithuania, allelopathic, autoallelopathic features. – *62nd International Conference for Students of Physics and Natural Sciences “Open Readings 2019”*, March 19–22, Vilnius, Lithuania. Book of Abstracts: 463.
4. **Ložienė K.**, Almonaitytė A. 2019. Relationships between amount of essential oil and anatomical characters of leaves in *Thymus pulegioides*. – *50th International Symposium on Essential Oils*, September 9–11, Vienna, Austria. Book of Abstracts: 166.
5. **Ložienė K.**, Jurevičiūtė R., Bruno M., Maggio A.M., Rosselli S. 2017. Effect of distillation time on composition of essential oil of lemon thyme (*Thymus × citriodorus*) – *48th International Symposium on Essential Oils*, September 10–13, Pécs, Hungary. Book of Abstracts: 118.
6. Vaičiulytė V., **Ložienė K.**, Taraškevičius R., Butkienė R. 2016. Effect of edaphic factors on composition of essential oils of *Thymus pulegioides* growing wild in the east and south east Lithuania. – *47th International Symposium on Essential Oils*, September 11–14, Nice, France. Book of Abstracts: 149.
7. Vaičiulytė V., **Ložienė K.** 2015. Effect of edaphic factors on composition of essential oils of *Thymus pulegioides* L. growing wild in Lithuania. – *8th International Conference on Biodiversity Research*, April 28–30, Daugavpils, Latvia. Book of Abstracts: 162.
8. Vaičiulytė V., **Ložienė K.** 2015. The quest of productive variety of carvacrol chemotype of *Thymus pulegioides*: metabolomic analysis and effects of meteorological conditions. – *46th International Symposium on Essential Oils*, September 13–16, Lublin, Poland. Book of Abstracts: 123.
9. Vaičiulytė V., **Ložienė K.** 2015. 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”*, November 5–6, Kaunas, Lithuania. Book of Abstracts: 28.

10. **Ložienė K.**, Labokas J. 2011. Variation of α -pinene amount in essential oils of *Juniperus communis* L. growing wild in Lithuania. – *Medicinal and Aromatic Plants in Generating of New Values in 21st Century*, November 9–12, Sarajevo, Bosnia and Herzegovina.
11. **Ložienė K.**, Labokas J. 2011. Effects of abiotic environmental conditions on composition of α -pinene enantiomers and amount of essential oil in *Juniperus communis* L. – *42nd International Symposium on Essential Oils*, September 11–14, Antalya, Turkey.
12. **Ložienė K.**, Labokas J. 2011. Enantiomeric composition of alpha-pinene in essential oils of leaves and unripe cones of *Juniperus communis* L. – *59th International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research*, September 4–9, Antalya, Turkey. Book of Abstracts: 1295.
13. Šveistytė L., Labokas J., Radušienė J., Karpavičienė B., **Ložienė K.** 2010. Prioritisation of Medicinal and Aromatic Plant Species for Genetic Resource Conservation in Lithuania. – *28th International Horticultural Congress (IHC)*. August 22–27, Lisbon, Portugal. Book of Abstracts: 74–75.
14. **Ložienė K.**, Labokas J., Valiukonytė T. 2009. Phenotypic diversity of *Juniperus communis* as influenced by different light conditions. – *5th International Conference "Research and conservation of biological diversity in Baltic region"*, 22–24 April, Daugavpils, Latvia. Book of Abstracts: 82.
15. **Ložienė K.**, Šakalytė J., Paškevičius A., Venskutonis P.R. 2009. The effect of *Thymus pulegioides* (Lamiaceae) essential oils on pathogenic yeasts of *Candida* genus. – *Well-known infections – the hottest features of diagnostics and treatment*, September 23–26, Saint Petersburg, Russia. Book of abstracts: 44.
16. Piozzi F., Bruno M., Rosselli S., **Ložienė K.**, Simmonds M.S.J. 2009. Volatile components and antifungal activity of the essential oil from *Scutellaria hastifolia* L. – *57th International Congress & Annual Meeting of the Society for Medicinal Plant and Natural Product Research*, August 16–20, Geneva, Switzerland. *Planta Medica*: 75.
17. **Ložienė K.**, Labokas J., Venskutonis P.R., Maždzierienė R. 2008. Measurement of α -pinene in berries of *Juniperus communis* L. during ripening by GC/MS. – *10th International Symposium on Hyped Techniques in Chromatography and Hyphenated Chromatographic Analysers (HTC-10)*, January 30 – February 1, Bruges, Belgium.
18. **Ložienė K.**, Venskutonis P.R. 2007. Evaluation of chemical polymorphism of *Thymus* species growing wild in Lithuania. – *4th Nordic Separation Science Society (NoSSS) International Conference*, August 26–29, Kaunas, Lithuania. Book of Abstracts: 90.
19. **Ložienė K.**, Venskutonis P.R. 2005. Variation of Chemical Composition of Essential Oils in *Thymus serpyllum* L. subsp. *serpyllum* growing wild in Lithuania. – *International conference "Integrative Approaches towards Sustainability"*, May 11–14, Jūrmala, Latvia. Book of Abstracts: 61.
20. **Ložienė K.**, Venskutonis P.R. 2005. Reasons of chemotypic variation in *Thymus pulegioides* L. – *XVII International Botanical Congress*, July 17–23, Viena, Austria. Book of Abstracts: 552.

National scientific conferences:

1. Vaičiulytė V., **Ložienė K.**, Taraškevičius R., Butkienė R. 2016. Effect of edaphic factors on quantitative and qualitative composition of essential oils of *Thymus pulegioides*. – *Conference of Young Scientists "Biofuture Perspectives of Natural and Life Sciences"*, 7 December, Vilnius, Lithuania. Book of Abstracts : 3–4.
2. Vaičiulytė V., **Ložienė K.** 2015. Effect of soil chemical composition on quantitative and qualitative composition of essential oil of *Thymus pulegioides*. – *10th National Conference "Lithuanian Biodiversity: Status, Structure, Protection"*, November 20, Vilnius, Lithuania. Book of Abstracts: 17–18.
3. Vaičiulytė V., **Ložienė K.** 2014. Effect of climatic conditions on accumulation of carvacrol in essential oil of *Thymus pulegioides*. – *3rd Conference of Young Scientists „The Young Scientists for Agricultural Progress"*, November 6, Vilnius, Lithuania. Book of Abstracts: 31.

4. Vaičiulytė V., Ložienė K. 2013. Quantitative composition of essential oils and pinene isomers of *Juniperis communis* L. growing wild in different parts of Lithuania. – Conference „Students' scientific research 2012–2013”, June 27–28, Vilnius, Lithuania. Book of Abstracts:145–146.
5. Vaičiulytė V., Ložienė K. 2012. Effects of climatic conditions on qualitative and quantitative composition of essential oils of thymol, geraniol and linalool chemotypes of *Thymus pulegioides*. – Conference „Students' scientific research 2011–2012”, June 27–28, Vilnius, Lithuania. Book of Abstracts: 87–88.

PARTICIPATION IN THE STUDY PROCESS

Supervision of PhD students:

field of science: Biomedical sciences. science direction: ecology and environmental studies (03 B)

Vaida	Disertation thesis: „ <i>Thymus pulegioides</i> chemotypes in Lithuania: 2013–2017	
Vaičiulytė	distribution, influence of edaphic and climatic factors, allelopathic characteristics“	
Rūta	Thopic: „ <i>Thymus pulegioides</i> leaf anatomical markers related to 2020–2021	
Jurevičiūtė	essential oil composition and influence of environmental factors on their parameters“	

Supervision of bachelor and master students:

Evelina	Master thesis: „Comparison of amounts of phenolic compounds and tannins in aqueous extracts of Ericaceae and Rosaceae plants obtained using different water extraction methods“ (Vilnius University, Pharmacy study program)	2022–2023
Petraitytė		
Gabrielė	Master thesis: „Evaluation of dynamics of biologically active pigments content in Scots pine and Norway spruce needles of different ages“ (Vilnius University, Pharmacy study program)	2022–2023
Kadžiulytė		
Viktorija	Master thesis: „Ethnopharmaceutical study of <i>Myrica gale</i> , evaluation of essential oil composition in its leaves and fruits“ (Vilnius University, Pharmacy study program)	2021–2022
Maskolaitytė		
Ineta	Master thesis: „Chlorophyll and carotenoid levels comparison in some medicinal plants of the Apiaceae, Asteraceae, Lamiaceae, and Rosaceae families“ (VU MF, Farmacijos studijų programa) (Vilnius University, Pharmacy study program)	2021–2022
Chochlovaite		
Roberta	Master thesis: „Effect of dry extracts of tannin-accumulating Ericaceae and Rosaceae family plants on periodontitis pathogens“ (Vilnius University, Pharmacy study program)	2020–2021
Česokaitė		
Jurgita	Master thesis: „Comparison of phenolic compounds and tannins content in leaves of various Ericaceae species for extraction using different polarity solvents“ (Vilnius University, Pharmacy study program)	2020–2021
Paliunytė		
Guoda	Master thesis: „Influence of Storage Duration on Essential oil Composition in Shredded and Non-shredded Raw Material of Lemon Thyme (<i>Thymus × citriodorus</i>)“ (Vilnius University, Pharmacy study program)	2019–2020
Dubikaitytė		
Anastasija	Master thesis: „Analysis of Native and Non-native Medicinal Plants Included in Pharmaceuticals Marketed in Lithuanian Pharmacies“ (Vilnius University, Pharmacy study program)	2019–2020
Fiodorova		
Agnė	Master thesis: „Effect of Different Storage Temperatures on Essential Oil Composition and Pigments Content in Norway	2019–2020
Ščiukaitė		

	Spruce (<i>Picea abies</i>) Needles”	
Auksė Grachovskaja	Master thesis: „Analysis of Native and Non-native Medicinal Plants Included in Food Supplements Marketed in Lithuanian Pharmacies” (Vilnius University, Pharmacy study program)	2019–2020
Dovilė Jackevičiūtė	Master thesis: „Analysis of Native and Non-Native Medicinal Plants Included in Cosmetic and Hygiene Products Marketed in Lithuanian Pharmacies“ (Vilnius University, Pharmacy study program)	2019–2020
Urtė Vaitiekūnaitė	Bachelor thesis: „Quantitative and qualitative research of meadowsweet (<i>Filipendula ulmaria</i>) essential oil dependence on blooming stage and soil composition“ (Vilnius University, Biology study program)	2018–2019
Augustė Almonaitytė	Bachelor thesis: „Relationship between <i>Thymus pulegioides</i> essential oil yield and anatomical structures of leaf epidermis“ (Vilnius University, Biology study program)	2018–2019
Rūta Jurevičiūtė	Master thesis: „Effect of processing and hydrodistillation duration of <i>Thymus × citriodorus</i> (Pers.) Schreb raw material on quantitative and qualitative composition of essential oil“ (Vilnius University, Chemical study program)	2016–2017
Liucija Kamaitytė	Bachelor thesis: „Dynamics of amount of essential oil and percentage composition of pinene isomers in the needles of Norway spruce (<i>Picea abies</i>) during the vegetation period” (Vilnius University, Biology study program)	2015–2016
Rūta Jurevičiūtė	Bachelor thesis: „Distribution of (–) and (+) enantiomers of α -pinene in needles of <i>Juniperus communis</i> growing wild in different habitats“ (Vilnius University, Chemical study program)	2014–2015
Monika Petreikytė	Bachelor thesis: „Comparison of the quantitative composition of essential oil and amount of pinene isomers in the needles of common juniper (<i>Juniperus communis</i> L.) growing wild in different habitats“ (LEU, Biology study program)	2013–2014
Vaida Vaičiulytė	Master thesis: „Effects of some abiotic factors on phenotypic variation in common juniper (<i>Juniperus communis</i> L.)“ (Vilnius University, Biology study program)	2012–2013
Vytautas Klimavičius	Bachelor thesis: „Comparison of the quantitative composition of essential oils in <i>Thymus pulegioides</i> L. raw material of different years and phenological phases“ (Vilnius University, Biology study program)	2010–2011
Dalia Putnaitė	Bachelor thesis: „Comparison of morphological parameters and germination of seeds of <i>Thymus pulegioides</i> L. hermaphrodites and female individuals“ (Vilnius University, Biology study program)	2010–2011
Violeta Kamašina	Magistrinio darbo tema: „Gynodioecy in <i>Thymus</i> species and hybrids growing wild in Lithuania“ (Vilnius University, Biology study program)	2008–2009
Toma Valiukonytė	Bachelor thesis: „Phenotypic variation of <i>Juniperus communis</i> L. depending on habitat conditions“ (Vilnius University, Biology study program)	2008–2009
Violeta Kamašina	Bachelor thesis: „Evaluation of the phenotypic diversity of the interspecific natural hybrid <i>Thymus × oblongifolius</i> Opiz and comparison with parent species“ (Vilnius University, Biology study program)	2006–2007

OTHERS

1. Editor of Special Issue of international periodical research journal „Molecules“
https://www.mdpi.com/journal/molecules/special_issues/extractin_oils
2. Member of ddvisory Editorial Board of international periodical research journal „THAISZIA – Journal of Botany“ (P. J. Šafárik University, Košice, Slovakia)
<https://www.upjs.sk/pracoviska/botanicka-zahrada/odborne-aktivty/thaiszia/>