

Judita Koreivienė

CONTACT INFORMATION

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EDUCATION AND ACADEMIC DEGREE

1998 – 2005 PhD in *Biomedical Sciences: Botany* (04B) (Vilnius University and Institute of Botany). PhD topic: „Taxonomic and chorologic studies on Chlorococcales green algae in small lakes in eastern part of the Baltic uplands“, supervisor – dr. J. Kasperovičienė.
1989 – 1994 Master degree in biology, teaching of biology (Vilnius University).
Topic: „Periphyton of Lake Dūkšiai“, supervisor – dr. J. Kasperovičienė

PROFESSIONAL EXPERIENCE

2020 03 – to date **Head of the laboratory**
Laboratory of Algology and Microbial Ecology, Nature Research Centre (NRC)
2020 10 – to date **Chief researcher**, Laboratory of Algology and Microbial Ecology, NRC
2015 – 2020 **Senior researcher**, Laboratory of Algology and Microbial Ecology, NRC
2010 – 2015 **Researcher**, since 2014 – Laboratory of Algology and Microbial Ecology, NRC
since 2010 – Laboratory of Hydrobotany, NRC
2005 – 2010 **Researcher**, Laboratory of Hydrobotany, Institute of Botany
2004 – 2005 **Younger Researcher**, Laboratory of Hydrobotany, Institute of Botany
1997 – 2004 **PhD student**, Laboratory of Hydrobotany, Institute of Botany
1995 – 1997 **Assistant**, Laboratory of Hydrobotany, Institute of Botany
1993 – 1995 **Laboratory assistant**, Laboratory of Hydrobotany, Institute of Botany

RESEARCH INTERESTS

Field of interest: flora of cyanobacteria and algae, their ecology and distribution; trophic interactions in hydroecosystems; harmful algae blooms and cyanotoxins; invasive species; cyanobacteria and microalgae cultivation, application for wastewater remediation, bioproduct analysis and other biotechnological applications

PUBLICATIONS (2017-2026)

In total, 65 scientific articles and book chapters have been published, including 31 articles in *Clarivate Analytics Web of Science* journals.

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

Wejnerowski L., Pelechata A., Rybak M., Piasecka A., Antonowicz J.P., Belniak G., Kaminski O., Dziuba M.K., **Koreiviene J.**, Meriluoto J., Dawidowicz P., **2026**. From lakes to the sea: testing the survival of freshwater bloom-forming cyanobacteria and cyanotoxin-related risk in Baltic coastal waters under a changing climate. *Harmful Algae* 157, 103144. doi: <https://doi.org/10.1016/j.hal.2026.103144>

- Koreivienė J.**, Erturk A., Kasperovičienė J., Paškauskas R., Valskys V., Karosienė J., **2025**. Water quality under biomass removal scenarios: integrating observations and modeling approaches. – *Water*, 17, 3211. <https://doi.org/10.3390/w17223211>
- Galinytė D., Aroff M., Manconi M., Zilius M., Rysevaitė-Kyguolienė K., Briedis V., Karosienė J., **Koreivienė J.**, Pauža D.H., Savickas A., Escribano Ferrer E., Manca M.L., Savickienė N., **2025**. Cyanophycocyanin loaded enriched transfersomes for enhanced topical skin delivery and antioxidant protection. – *International Journal of Pharmaceutics*, 683: 126079. <https://doi.org/10.1016/j.ijpharm.2025.126079>
- Šuikaitė, I., Šiurkutė, G., Ptacnik, R., **Koreivienė, J.** **2025**. Halotolerance of phytoplankton and invasion success of Nostoclean cyanobacteria under freshwater salinization. – *Microorganisms*, 13 (6): art. no. 1378. <https://doi.org/10.3390/microorganisms13061378>
- Kokocinski, M., Graco-Roza, C., Jasser, I., Karosienė, J., Kasperovičienė, J., Kobos, J., **Koreivienė, J.**, Mankiewicz-Boczek, J., Soininen, J., Szczurowska, A. **2025**. Environmental factors determining the distribution patterns of invasive *Raphidiopsis raciborskii* and *R. mediterranea* in central east Europe. – *Frontiers in Microbiology*, 16: art. no. 1533716. <https://doi.org/10.3389/fmicb.2025.1533716>
- Savadova-Ratkus K., Grendaitė D., Karosienė, J., Stonevičius E., Kasperovičienė J., **Koreivienė, J.**, **2025**. Modelling harmful algal blooms in a mono- and a polydominant eutrophic lake under temperature and nutrient changes. *Water Research* 275 (2025) 123138. <https://doi.org/10.1016/j.watres.2025.123138>
- Krztón, W., Walusiak, E., Hobson, K.A., Zutinic, P., Udovic, M.G., Kulas, A., **Koreivienė, J.**, Karosienė, J., Gebus-Czupyt, B., Balkic, A.G., Stevic, F., Pfeiffer, T.Z., Maronic, D.S., Wilk-Wozniak, E. **2024**. Contrasting the ecology of planktonic crustaceans from freshwaters: Insights from stable isotopes ($\delta^{13}\text{C}$, $\delta^{15}\text{N}$). *Ecological Indicators*, 167: art. no. 112732. <https://doi.org/10.1016/j.ecolind.2024.112732>
- Šuikaitė, I., Karosienė J., **Koreivienė, J.** **2024**. A snapshot of alien cyanobacteria found in northeastern European freshwaters - Lithuania case. *Journal of Limnology*, 83: 2183. [10.4081/jlimnol.2024.2183](https://doi.org/10.4081/jlimnol.2024.2183)
- Wilk-Wóznia E., Krztón W., Budziak M., Walusiak E., Žutinič P., Gligora Udovič M., **Koreivienė J.**, Karosienė J., Kasperovičienė J., Kobos J., Toporowska M., Bánkowska- Sobczak A., Budzýńska A., Domek P., Dunalska J., Frąk F., Gołdyn R., Grabowska M., Jakubowska-Krepska N., Jasser I., Karpowicz M., Kokociński M., Kozak A., Mazur-Marzec H., Mądrecka- Witkowska B., Messyasz B., Napiórkowska-Krzebietke A., Niedzwiecki M., Pawlik-Skowronska B., Pasztaleniec A., Pelechata A., Pelechaty M., Pęczuła W., Rosńska J. Szelaż-Wasielewska E., Mankiewicz-Boczek J., Wasilewicz M., Stević F., Špoljarić Maronić D., Žuna Pfeiffer T., **2024**. Harmful blooms across a longitudinal gradient in central Europe during heatwave: Cyanobacteria biomass, cyanotoxins, and nutrients. *Ecological indicators*, 160, 111929. <https://doi.org/10.1016/j.ecolind.2024.111929>
- Šuikaitė, I., Vansevičiūtė, G., **Koreivienė, J.** **2023**. An overview of the distribution and ecology of the alien cyanobacteria species *Raphidiopsis raciborskii*, *Sphaerospermopsis aphanizomenoides* and *Chrysosporum bergii* in Europe. *Oceanological and Hydrobiological Studies*, 52 (3): 312–332. <https://doi.org/10.26881/oahs-2023.3.06>
- Jaskulska A., Šulčius S., Kokociński M., **Koreivienė J.**, Font Nájera A., Mankiewicz-Boczek J. **2022**. Cyanophage distribution across European lakes of the temperate-humid continental climate zone assessed using PCR-based genetic markers. – *Microbial Ecology*, 83(2): 284–295. doi: [10.1007/s00248-021-01783-y](https://doi.org/10.1007/s00248-021-01783-y).
- Nutautaitė M., Racevičiūtė-Stupelienė A., Bliznikas S., Jonuškienė I., Karosienė J., **Koreivienė J.**, Vilienė V. **2022**. Evaluation of phenolic compounds and pigments in freshwater *Cladophora glomerata* biomass from various Lithuanian rivers as a potential future raw material for biotechnology. – *Water*, 14(7): 1138. doi [10.3390/w14071138](https://doi.org/10.3390/w14071138)
- Donis D., Mantzouki E., <...> , **Koreivienė J.**, Karosienė J., Kasperovičienė J., Savadova-Ratkus K., Vitonytė I., <...> Ibelings B.W. **2021**. Stratification strength and light climate explain variation in chlorophyll a at the continental scale in a European multilake survey in a heatwave summer. – *Limnol. Oceanogr.*, 9999, 66: 4314–4333. doi: [10.1002/lno.1196](https://doi.org/10.1002/lno.1196)
- Nutautaitė M., Vilienė V., Racevičiūtė-Stupelienė A., Bliznikas S., Karosienė J., **Koreivienė J.** **2021**. Freshwater *Cladophora glomerata* biomass as promising protein and other essential nutrients source for high quality and more sustainable feed production. – *Agriculture*, 11, 582. <https://doi.org/10.3390/agriculture11070582>
- Münzner K., Gollnisch R., Rengefors K., **Koreivienė J.**, Lindström E.S. **2021**. High iron requirements for growth in the nuisance alga *Gonyostomum semen* (Raphidophyceae). – *Journal of Phycology*, 57(4): 1309–1322. <https://doi.org/10.1111/jpy.13170>
- Savadova-Ratkus K., Mazur-Marzec H., Karosienė J., Kasperovičienė J., Paškauskas R., Vitonyte I., **Koreivienė J.** **2021**. Interplay of nutrients, temperature, and competition of native and alien

- cyanobacteria species growth and cyanotoxin production in temperate lakes. – *Toxins*, 13, 23. <https://doi.org/10.3390/toxins13010023>
- Karosienė J., Savadova-Ratkus K., Torunska-Sitarz A., **Koreivienė J.**, Kasperovičienė J., Vitonytė I., Blaszczyk A., Mazur-Marzec H. **2020**. First report of saxitoxins and anatoxin-a production by cyanobacteria from Lithuanian lakes. – *European Journal of Phycology*, 55(3): 327–338. <https://doi.org/10.1080/09670262.2020.1734667>
- Savadova K., Mazur-Marzec H., Karosienė J., Kasperovičienė J., Vitonytė I., A. Torúnska-Sitarz, **Koreivienė J.** **2018**. Effect of increased temperature on native and alien nuisance cyanobacteria from temperate lakes: an experimental approach. – *Toxins*, 10, 445. [doi:10.3390/toxins10110445](https://doi.org/10.3390/toxins10110445)
- Mantzouki E., Campbell J., van Loon E., Visser P., Konstantinou I., Antoniou M. Giuliani <...>, **Koreivienė J.**, Karosienė J., Kasperovičienė J., <...>, Ibelings B.W. **2018**. A European Multi Lake Survey dataset of environmental variables, phytoplankton pigments and cyanotoxins. – *Scientific Data*, 5: 180226. [doi: 10.1038/sdata.2018.226](https://doi.org/10.1038/sdata.2018.226)
- Mantzouki E., Lurling M., Fastner J., Domis L.D., Wilk-Wozniak E., **Koreivienė J.**, Seelen L., <...>, Ibelings B.W. **2018**. Temperature effects explain continental scale distribution of cyanobacterial toxins. – *Toxins*, 10 (4): 156. <https://doi.org/10.3390/toxins10040156>
- Pęczyła W., Toporowska M., Pawlik-Skowronska B., **Koreivienė J.** **2017**. An experimental study on the influence of the bloom-forming alga *Gonyostomum semen* (Raphidophyceae) on cladoceran species *Daphnia magna*. – *Knowl. Manag. Aquatic Ecosystems*, 418, 15. <https://doi.org/10.1051/kmae/2017006>
- Kokociński M., Gaęała I., Jasser I., Karosienė J., Kasperovičienė J., Kobos J., **Koreivienė J.**, Soininen J., Szczurowska A., Woszczyk M., Mankiewicz-Boczek J. **2017**. Distribution of invasive *Cylindrospermopsis raciborskii* in the East-Central Europe is driven by climatic and local environmental variables. – *FEMS Microbiology Ecology*, 93(4). [doi: 10.1093/femsec/fix035](https://doi.org/10.1093/femsec/fix035)

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

- Koreivienė J.**, **2024**. Šepetos aukštapelkės dvyniečiai (*Desmids of the Šepeta raised bog*). In: I. Jukonienė (Ed.) Šepeta. Prarastos pelkės istorija.pp. 55-69.
- Wołowski K., Duangjan K., Dempster T., Tsarenko P., Poniewozik M., **Koreivienė J.** **2024**. Color range of euglenoid (*Euglenophyceae*) blooms. *Plant and Fungal Systematics* 69(1): 99–108.
- Savadova-Ratkus K., Mazur-Marzec H., Karosienė J., Sivonen K., Suurnäkki S., Kasperovičienė J., Paškauskas R., **Koreivienė J.** **2022**. – Cyanobacteria and their metabolites in mono- and polidominant shallow eutrophic temperate lakes – *International Journal of Environmental Research and Public Health*, 19, 15341. <https://doi.org/10.3390/ijerph192215341>
- Kosiba J., Krzton W., **Koreivienė J.**, Tarcz S., Wilk-Wozniak, E. **2022**. Interactions between ciliate species and *Aphanizomenon flos-aquae* vary depending on the morphological form and biomass of the diazotrophic cyanobacterium. – *International Journal of Environmental Research and Public Health*, 19, 15097. <https://doi.org/10.3390/ijerph192215097>
- Valskys V., Gulbinas Z., Stoyneva-Gärtner M., Uzunov B., Skorupskas R., Karosienė J., Kasperovičienė J., Rašomavičius V., Uogintas D., Audzijonytė A., Dainys J., Urbanavičius R., Urbanavičiūtė I., Vaičiūtė D., Bučas M., Grendaitė D., Stonevičius E., Gedvilas A., **Koreivienė J.** **2022**. Application of remote sensing in environmental studies: advantages and challenges. – *Annual of Sofia University „St. Kliment Ohridski“*, 106(2): 31–45
- Koreivienė J.**, Paškauskas R. **2020**. In memoriam Genovaitė Jankavičiūtė (1932–2019). – *Botanica*, 26(2): 206–210.
- Koreivienė J.**, Karosienė J., Kasperovičienė J., Paškauskas R., Łęska B., Pankiewicz R., Juškaitė L., Zagorskis A., Wilk-Woźniak E., Valskys V., Gulbinas Z., Walusiak E., Krzton W., Morudov D., Radzevičius K., Treska E., Tabisz Ł., Papsdorf M., Piotrowicz Z., Messyas B. **2019**. EU project of LIFE programme ‘Algae Service for LIFE’ develops ecologically sustainable bioproducts from freshwater cyanobacteria and macroalgae biomass. – *Botanica*, 25(2): 176–185.
- Koreivienė J.**, Karosienė J., Kasperovičienė J., Paškauskas R., Messyas B., Łęska B., Pankiewicz R., Gulbinas Z., Valskys V., Walusiak E., Krzton W., Kustos D., Wilk-Woźniak E. **2019**. EU project of LIFE programme “Algae Service for LIFE” creates tools for ecological service to mitigate cyanobacteria and macroalgaeblooms in freshwater ecosystems. – *Botanica*, 25(1): 65–73.

Koreivienė J., Kasperovičienė J. 2017. Diversity of green algae in Kamanos raised bog (NW Lithuania) with the aspect of long-term changes in desmids. – *Botanica Lithuanica*, 23(2): 130–138.

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

Koreivienė J., 2024. Šepetos aukštapelkės dvyniečiai (*Desmids of the Šepeta raised bog*). In: I. Jukonienė (Ed.) Šepeta. Prarastos pelkės istorija. pp. 55-69.

Koreivienė J. 2020. Microalgae lipid staining with fluorescent BODIPY dye. – In: Spilling K. (ed.), *Methods in Molecular Biology*: 47–55. ISBN 978-1-4939-9415-1. <https://doi.org/10.1007/978-1-4939-9416-8>

Posadas E., Alcántara C., García-Encina P.A., Gouveia L., Guieysse B., Norvill Z., Acién F.G., Markou G., Congestri R., **Koreivienė J., Muñoz R., 2017.** Microalgae cultivation in wastewater. – In: Gonzalez-Fernandez C., Muñoz R. (eds.). *Microalgae-Based Biofuels and Bioproducts*, Chapter 3: 67–91. ISBN 9780081010235. doi: 10.1016/B978-0-08-101023-5.00006-6

D'Hondt E., Martin-Juárez J., Bolado S., Kasperoviciene J., **Koreivienė J., Sulcius S., Elst K., Bastiaens L. 2017.** Cell disruption technologies. – In: Gonzalez-Fernandez C., Muñoz R. (eds.). *Microalgae-Based Biofuels and Bioproducts*, Chapter 6: 133–154. ISBN: 978-0-08-101023-5. DOI: 10.1016/B978-0-08-101023-5.00006-6

Pilkaitytė R., **Koreivienė J. 2017.** Eualgae – Europos dumblių bioproduktų tyrimų tinklas (<http://eualgae.eu/>). – *Jūros ir krantų tyrimai 2017. Konferencijos medžiaga*: 174–175.

PATENTS (2015-2025)

Paviršinių melsvabakterijų santalkų vandens telkinių pakrantėse surinkimo ir koncentravimo sistema ir būdas. Patento Nr. 7081, Biuro biuletenyje Nr. 15 „Išradimai“ paskelbtas 2024-08-12. Lietuvos Respublikos valstybinio patentų biuro išradimų skyrius.

Method of filtering and concentrating the biomass of a mixture of cyanobacteria and water, concentrator and system for collecting cyanobacteria in open water bodies. Application No. EP24216078.6, submitted to European Patent Office 2024-11-28.

PARTICIPATION IN INTERNATIONAL AND NATIONAL SCIENTIFIC PROGRAMMES AND PROJECTS (2017-2026)

A total of 30 projects has been carried out (including 8 international ones), the leader in nine of them.

2025–2028 **Project investigator.** Interactome of *Aphanizomenon flos-aquae* for environmental and biotechnological advancement. Research Council of Lithuania, agreement No P-MIP-25-422.

2026–2028 **Project investigator.** Service for assessing the prevalence and distribution of non-native species in the marine environment, the risks posed by non-native species and their potential impacts, The Environmental Protection Agency, agreement No 28T-2026-27

2026 **Project leader.** Microalgae selection and cultivation services. Vilnius Gediminas Technical University, agreement No SUT-4-2026-3

2025 **Project leader.** Agreement on consultancy services in Future Lakes-Project, Algal harvesting pilot. SYKE, agreement No SYKE/2023/243-11

2025–2026 **Project leader.** SUBMARINER NETWORK. Research Council of Lithuania, agreement No S-NET-25-9

2024–2029 **MC member.** Effective Lake management: reducing cyanobacteria by actions in the catchment (CYANOACTION). ESSEM COST Action CA23160, <https://www.cost.eu/actions/CA23160>

2024-2027 **Project investigator.** Biopesticides for agriculture: harmful blooms forming species against plant pathogens. Research Council of Lithuania, agreement No. P-MIP-24-699

- 2024-2025 **Project investigator.** Uostmonit: Environment monitoring of the Curonian Lagoon and the Baltic Sea.
- 2023 **Project investigator.** Water body research: for more efficient use of remote sensing data (No. 28T-2023-47)
- 2022 **Project leader.** Support for renewal of scientific infrastructure. Research Council of Lithuania, agreement No. S-IRA-22-10. Financed by Research Council of Lithuania
- 2022 **Project leader.** Užsienio partnerio mokslininko vizito finansavimo sutartis, Financed by Research Council of Lithuania, LINO-PAR-35
- 2021–2025 **Project investigator.** Monitoring of the environment impact of the Būtingė oil terminal (sea and coastal zone)
- 2021–2023 **Project investigator.** A feasibility study on collecting phytoplankton biomass in the Curonian Lagoon using floating devices and using/utilising the collected biomass in bioreactors, for agrotechnological applications or FOR other purposes. Financed by the Ministry of Environment, agreement No. 28T-2021-34.
- 2019 **Grant agreement.** Increasing scientific competence at the international congress of European phycologists. Financed by Research Council of Lithuania. Nr. 09.3.3.-LMT-K-712-13-0460
- 2019–2023 **Project investigator.** Biological and physico-chemical variability in seasonal intensification of growth of macroalgal biomass in inland waters from different biogeographical zones. Bilateral collaboration between Lithuanian and Polish researchers. Project Leader dr. Radosław Pankiewicz, A. Mickiewicz University in Poznań, Poland.
- 2018–2023 **Project coordinator.** Algae – economy based ecological service of aquatic ecosystems (AlgaeService for LIFE), financed by the European Union by the Agreement No. LIFE17/ENV/LT/000407. <https://algaeservice.gamtostyrimai.lt/lt/>
- 2017–2019 **Leader of Lithuanian research group.** Cyanobacteria, viruses, protozoan and metazoan – understanding ecological interactions in communities of aquatic ecosystems. Bilateral collaboration between Lithuanian and Polish Academies of Sciences.
- 2014–2019 **MC member.** European network for algal-bioproducts (EUALGAE). ESSEM COST Action ES1408. <https://www.cost.eu/actions/ES1408/>

INTERNSHIP AND TRAINING (2017-2026)

- 2026 R&D Commercialization: From Idea to Investor (Vilnius, Lithuania)
- 2025 ERC Training Course – Achieving a Highly Competitive ERC Grant Proposal (Vilnius, Lithuania)
- 2024 EU Funding Training and opportunities for AI: knowledge and practice (Vilnius, Lithuania)
- 2024 The use of artificial intelligence (AI) tools in the preparation of Horizon Europe applications and the project administration (Vilnius, Lithuania)

PARTICIPATION IN SCIENTIFIC CONFERENCES (2022-2026)

Research results have been presented at more than 60 scientific conferences (over 110 abstracts were published), among them 34 were international ones. Participated at the scientific committees of international conferences, leaded sessions of conferences, was an invited lecturer.

International scientific conferences:

- Koreivienė J.,** Burokienė D., Čepukoit D., Karosienė J., Šmeliuva K., Kasperovičienė J., Iliakopoulou S., Gialleli A., Hiskia A., Kaloudis T., **2026.** Bioprospecting *Microcystis*-dominated toxic biomass for valuable compounds and biopesticidal activity. SETAC Europe 36th Annual Meeting, *Embrace the Outlier: In Science, Regulations and Networks*. 17–21 May 2026, Maastricht, the Netherlands.
- Koreivienė J.,** Erturk A., Savadova K., Grendaitė D., Kasperovičienė J., Paškauskas R., Stonevičius E., Valskys V., Karosienė J., **2026.** Ecosystem modelling to understand and predict cyanobacterial blooms in freshwater lakes. 43rd International Conference of the Polish Phycological Society, Global Environmental Changes: Algal Response and Ecosystem Perspectives, 25-28.05.2026 Warsaw-Falenty, Poland.

- Burokienė D., Koreivienė J., Čepukoit D., 2025. Evaluation of *Microcystis aeruginosa* biomass extracts against plant pathogens. 13th international conference on toxic cyanobacteria, Chania, Kreta (Graikija). <https://ictc13.gr/>
- Koreivienė J., Karosienė J., Kasperovičienė J., 2025. Possibilities and limitations of environmental cyanobacterial biomass application in biotechnology. 13th international conference on toxic cyanobacteria, Chania, Kreta (Graikija). <https://ictc13.gr/>
- Koreivienė J., 2025. Advantages and bottlenecks in applied phycology: an example of environmental algal biomass. 42-nd International Conference of the Polish Phycological Society: Vast Potential of Algae and Cyanobacteria – From Diversity to Application. Białystok-Tycocin, Poland May 27-30, 2025 (invited lecture)
- Koreivienė J., 2025. Turning Toxic Algae Blooms into Business Opportunities. AQUACULTURE ASSISTANCE MECHANISM: online training for EU aquaculture stakeholders). 4th of June, 2025. DG MARE event (invited lecture)
- Koreivienė J. 2024. Applying circular economy principles to restore freshwater ecosystems through the harvesting of algae and cyanobacteria combined with the transforming of biomass into valuable bioproducts. 41st International Conference of the Polish Phycological Society: Diversity and ecology of algae: spatial and temporal changes. Poznań - Będlewo, Poland June 3-7, 2024, pd. 16-17. https://41icpps.web.amu.edu.pl/Abstract%20book_07_06.pdf (invited lecture).
- Karosienė J., Karaliūtė K., Janušaitienė K., Koreivienė J., 2024. Wild cyanobacterium *Aphanizomenon flos-aquae* biomass: potential source for phycobiliproteins extraction and purification. 41st International Conference of the Polish Phycological Society: Diversity and ecology of algae: spatial and temporal changes. Poznań - Będlewo, Poland June 3-7, 2024, pd. 103-104.
- Šuikaitė I., Aksit A.T., Brozowski M., Aujesky J., Fresard J., Glenn M., Hussein L., Lee J., Preiler C., Tanzer J., Varga E., Koreivienė J., Ptacnik R., 2024. Impact of salinization on invasion success of bloom-forming cyanobacterium *Sphaerospermopsis aphanizomenoides*. 41st International Conference of the Polish Phycological Society: Diversity and ecology of algae: spatial and temporal changes. Poznań - Będlewo, Poland June 3-7, 2024, pd. 153-154.
- Wejnerowski, L., Pelechata A., Rybak M., Kaminski O., Piasecka A., Antonowicz J.P., Belniak G., Dziuba M., Koreivienė J., Meriluoto J., Dawidowicz P., 2024. The effect of carbon dioxide and temperature elevation on the performance of freshwater bloomforming cyanobacteria and their potential to invade coastal Baltic Sea waters. 41st International Conference of the Polish Phycological Society: Diversity and ecology of algae: spatial and temporal changes. Poznań - Będlewo, Poland June 3-7, 2024, pg. 62-63.
- Šuikaitė I., Karosienė J., Savadova-Ratkus K., Burokienė D., Čepukoit D., Koreivienė J., 2023. Ecology and phylogeny of alien *Raphidiopsis raciborskii*, *Chrysosporum bergii*, *Sphaerospermopsis aphanizomenoides*, and *Cuspidothrix issatschenkoi* in three hypertrophic Lithuanian lakes.” 8th European Phycological Congress was held in Brest, France, August 20-26.
- Kokociński M., Jasser I., Kobos J., Koreivienė J., Mankiewicz-Boczek J., Soininen J., Szczurowska A., Wejnerowski Ł. 2022. Environmental factors related to the distribution pattern of *Raphidiopsis raciborskii* and *R. mediterranea* in Central East Europe. – 12th International Conference on Toxic Cyanobacteria, 22–27 of May, Toledo, USA. Book of Abstracts: 44. <https://www.bgsu.edu/bowen-thompson-student-union/conference-and-event-services/international-conference-on-toxic-cyanobacteria.html>
- Koreivienė J., Karosienė J., Kasperovičienė J., Morudov D., Gedvilas A., Skorupskas R. 2022. How dangerous are cyanobacterial blooms and what are the solutions to the problem? – 22nd Symposium of the International Association of Cyanophyte/Cyanobacteria Research, 14–18 of August, České Budějovice, Czech Republic. Book of Abstracts: 17. <https://www.iac2022.cz/>
- Šuikaitė I., Karosienė J., Koreivienė J. 2022. Impact of alien species *Raphidiopsis raciborskii*, *Chrysosporum bergii* and *Sphaerospermopsis aphanizomenoides* on the cyanobacterial community in two hypertrophic lakes of Lithuania. – 22nd Symposium of the International Association of Cyanophyte/Cyanobacteria Research 14–18 of August, České Budějovice, Czech Republic. Book of Abstracts: 64. <https://www.iac2022.cz/>
- Nutautaitė M., Vilienė V., Racevičiūtė-Stupelienė A., Bliznikas S., Karosienė J., Koreivienė J., 2022. *Cladophora glomerata* as a potential nutrient source in animal nutrition. – 1st International PhD Student's Conference at the University of Life Sciences: Environment – Plant – Animal – Product. 26 of April, Lublin, Poland. <https://www.umcs.pl/en/news.19979,1st-phd-student-s-conference-at-the-university-of-life-sciences-in-lublin-environment-plant-animal-product,112302.chtm>

- Krztoń W., Wilk-Woźniak E., Walusiak E., Źutinić P., Gligora Udovič M., Kulaš A., **Koreivienė J.**, Karosienė J., Gebus-Czupyt B., Galir Balkić A., Stević F., Žuna Pfeiffer T., Špoljarić Maronić D. **2022.** Preliminary study on isotopic niches of freshwater planktonic crustaceans in three lakes functioning under different thermal regimes. – *36th Congress of the International Society of Limnology*, 7–10 of August., Berlin, Germany. Book of Abstracts: 319. https://www.sil2022.org/wp-content/uploads/2022/08/Final_SIL2022_Abstract-Book.pdf.
- Grendaitė D., Stonevičius E., Savadova-Ratkus K., Karosienė J., Kasperovičienė J., **Koreivienė J.**, **2022.** Modelling the response of potentially toxic cyanobacteria to rising temperature and nutrient loadings. – ArQus European University Alliance, Vilnius, Lithuania.

National scientific conferences, workshops:

- Koreivienė J.**, Erturk A., Kasperovičienė J., Paškauskas R., Valskys V., Karosienė J., **2026.** Eutrofikacijos valdymo modeliavimas melsvabakterių žydėjimus patiriančiame Simno ežere. 18-oji nacionalinė jūros mokslų ir technologijų konferencija „Jūros ir Krantų tyrimai 2026“, 2026 m. gegužės 13–15 d., Šilutė.
- Koreivienė J.** **2022.** Žiedinės ekonomikos keliu: kaip spręsti vandens „žydėjimų“ problemą sukuriant visuomenei naudingus produktus. – *Aplinkosauga ir ją tausojančios pažangios technologijos*, 17 of November, Klaipėda, Lithuania (oral presentation).
- Nutautaitė M., Racevičiūtė-Stupelienė A., Jonuškienė I., **Koreivienė J.**, Karosienė J., Vilienė V., **2022.** Gėlavandenės makrodumblių *Cladophora glomerata* biomasės, surinktos iš Lietuvoje esančių atsinaujinančių šaltinių, antioksidacinis aktyvumas. – *11-oji jaunųjų mokslininkų konferencija „Jaunieji mokslininkai – žemės ūkio pažangai*, 10 of November, Vilnius, Lithuania. Book of Abstracts: p 12. ISBN 978-9986-08-090-9
- Koreivienė J.** **2022.** Mikroorganizmai – energetikos ateitis. – *Seminaras „Atsinaujinančių energijos išteklių inovacijos: ką renkasi verslas?“*, LVPA, 12 of February, Vilnius, Lithuania (oral presentation).

PARTICIPATION IN THE STUDY PROCESS (2017-2026)

Supervisor of 2 PhD thesis, participated in 5 PhD defences as the member of defence council, supervisor of 14 Bachelor/Master thesis and 3 summer internships. Chair of the Doctoral Committee of the Ecology and Environmental Science Field of Natural Sciences (Vilnius University – VTMI Natural Research Center), since 2026-06-23. Chair of the doctoral exam "Algal ecology and applied aspects", prepared for the doctoral program "Ecology and Environmental Science" (N012) (10 credits)(since 2021).

Supervision of PhD students:

Research field: *Natural Sciences* (N000): *Ecology and environmental science* (N012)

Ksenija Savadova-Ratkus	Topic: „Bloom-forming cyanobacteria, cyanotoxins and significant factors for their dynamics in freshwaters”	2014-10-01 – 2018-09-30
Izabelė Šuikaitė	Topic: „Spread and establishment of alien bloom-forming cyanobacteria, their competition with native to temperate freshwaters species”	2021-10-01 – 2026-09-30

Participation in the process of PhD defence:

Research field: *Natural Sciences* (N000): *Geology* (N005)

Neringa Gastevičienė (Nature Research Centre)	Member of Defence Council. Topic: „Late Glacial and Early Holocene climate dynamics in the southeaster Baltic region based on Chironomidae data“, scientific consultant V. Šeirienė	2015–2021
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Research field: *Agricultural Sciences, Agronomy* A 001

Paulius Astrauskas (Centre for Agriculture and Forestry)	Member of Defence Council. The properties of soil cover in the southern part of Lithuania's Baltic uplands and their influence on winter wheat. Supervisor G. Staugaitis	2018–2024
Kazimieras Poškus Lithuania Research (Centre for Agriculture and Forestry)	Member of Defence Council. Influence of different supply of nitrogen and sulphur in winter wheat agrocenosis. Supervisor G. Staugaitis	2018–2024

Supervision of Bachelor and Master students:

Donatas Staniulis	<i>Topic of Master:</i> „Commercially important algae pigments: optimisation of biomass growth and pigments accumulation in <i>Haematococcus pluvialis</i> “ (VU, Microbiology and biotechnology study program)	2016–2017
Konradas Želvis	<i>Topic of Master:</i> „Significance of cell envelopes of algae and cyanobacteria for estimation of stored lipids“ (VU, Microbiology and biotechnology study program)	2017–2018
Gabrielė Lubaitė	<i>Topic of Bachelor:</i> „Testing of <i>Scenedesmus</i> green algae for wastewater treatment and bioproduct production“ (VGTU, Bioengineering study program)	2020–2021
Lina Mickevičiūtė	<i>Topic of Bachelor:</i> „Evaluation of the potential of green algae for biofuel production“ (VGTU, Bioengineering study program)	2020–2021
Karina Šmeliova	<i>Topic of Bachelor:</i> „Valuable bioproducts in the biomass of cyanobacteria and microalgae“ (VU, Microbiology study program)	2022–2023
Tautrimas Kvyklys	<i>Topic of Bachelor:</i> The amounts of lipids and phycobiliproteins in the biomass of planktonic freshwater cyanobacteria collected during the bloom period (VU, Microbiology study program)	2023–2024
Karina Šmeliova	<i>Topic of Master:</i> Response of native and alien cyanobacteria to temperature changes under climate change conditions (VU, Environmental science and environmental protection study program)	2024–2026
Evelina Ragauskaitė	<i>Topic of Bachelor:</i> Changes in nitrogen fixation and growth of native and non-native cyanobacteria of the order Nostocales under climate change condition (VU, Microbiology study program)	2025–2026
Gabrielė Šiurkutė	<i>Topic of Master:</i> Assessing the diversity of bloom-causing cyanobacterial communities using next-generation sequencing" (VU, Molecular Biology study program)	2025–2026

Supervision of summer internship:

Deividas Stragis	Get knowledge in hydrobiological and algological research methods used for studying aquatic blooms and bloom prevention measures (Vilnius University)	2024
Karina Šmeliova	Changes in valuable compounds in cyanobacterial biomass collected from blooming aquatic ecosystems. LMT funded special biology internship (Vilnius University)	2025

Lectures and practical training:

Vilnius University	Topic: Ecology of the waters (lecturer, 40 h)	2021–2026
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OTHER**Membership in editorial boards of scientific journals:**

<i>Botanica</i> (former <i>Botanica Lithuanica</i>)	Subject Editor: Fundamental and applied algology https://botanicalithuanica.gamtc.lt/en	2008–2025
<i>Plants and Fungi Systematics</i>	Associated Editor, https://pfsyst.botany.pl/Editorial-Board,2221.html	2018–2024
<i>Frontiers in Ecology and Evolution</i>	Associate Editor https://www.frontiersin.org/journals/ecology-and-evolution/editors	Since 2026-07

Membership in associations:

Society of Lithuanian Algologists	member from 1998, head from 2022
The Federation of European Phycological Societies https://www.feps-algae.org/about/member-societies/member-societies	member from 2019, member of council since 2025

Expert assessment

Reviewing of manuscripts of articles 2017–2026	20 reviews for journals Water Research, International Journal of Phytoremediation, Microbial Ecology, Algal Research, Oceanological and Hydrobiological Studies, Knowledge and Management of Aquatic Ecosystems, Botanica Lithuanica, Chemosphere, Cosmetics, Limnologia, Journal of Industrial Ecology, Hydrobiologia, Applied and Environmental Microbiology, Harmful Algae
2025–2026	Expert in European Union-funded projects, evaluation of HORIZON-EIC-ACCELERATOR projects
Since 2025-10	Member of the Commission for Competitions and Certifications for the Positions of Research Staff of the VTMI Nature Research Center

Dissemination of science to the society 2022–2026:

Popular papers, interviews for newspapers, online portals, radio and television:

Koreivienė J., Karosienė J. 2024. Interviu LRT radijo laidos „Gimtoji žemė“ rubrikoje „Gamtininko komentaras“ tema Tobulėjant technologijoms, ir ūkininkams reikia įgyti specifinių žinių, 2024-11-05. <https://www.lrt.lt/radioteka/irasas/2000372098/tobulejant-technologijoms-ir-ukininkams-reikia-igyti-specifiniu-ziniuKita>:

Koreivienė J., Europa TV video reportažas. Laida „Ūkininkas Jurgis“ svečiuose GTC, 2023-08-24; <https://www.youtube.com/watch?v=Oku6XZA9FA>

Koreivienė J., Karosienė J., Kasperovičienė J., Savadova-Ratkus K. 2022. Pasakė, ar tinka žvejoti „žydinčiame“ vandens telkinyje: pažiūrėkite, kaip atrodo jame sugautos žuvies kepenys. – *Delfi Grynai*, published 2022-07-26. <https://www.delfi.lt/kablys/zvejyba/pasake-ar-tinka-zvejoti-zydinciame-vandens-telkinyje-paziurekite-kaip-atrodo-jame-sugautos-zuvies-kepenys.d?id=90809241>

Koreivienė J., Drazdas J. 2022. Pavojingoms melsvabakterėms surinkti – specialus lietuviškas laivas. – *LRT Mokslo sriuba*, 2022-10-27. Link: <https://algaeservice.gamtostyrimai.lt/lt/rezultatai/>

Koreivienė J., Drazdienė L. 2022. Kauno mariose dirba Lietuvoje sukurtas plaukiojantis įrenginys – renka iš žydinčių marių melsvabakteres. – *LRT. Laba diena, Lietuva*, 2022.09.16. Link: <https://www.lrt.lt/mediateka/irasas/2000233215/kauno-mariose-dirba-lietuvoje-sukurtas-plaukiojantis-irenginys-renka-is-zydinciu-mariu-melsvabakteres>

Koreivienė J., Drazdienė L. 2022. Žaliuojančios Kauno marios sulaukė pagalbos. – *Kauno diena*, 2022-09-08. Link: <https://kauno.diena.lt/naujienos/kaunas/miesto-pulsas/zaliuojancios-kauno-marios-sulauke-pagalbos-1094442>

Koreivienė J., Drazdas J. 2022. Žydinčios Kauno marios - pavojus žmonėms ir gyvūnams. Mokslininkai į Kauno marias siūnčia greitąją pagalbą. – *TV3 žinios report*: 22:15-26:30 min., 2022-09-04. Link: <https://www.tv3.lt/naujiena/video/kauno-marioms-pagalba-sukurtas-laivas-renkant-kenksmingus-dumblus-n1186910>

Koreivienė J., Karosienė J. 2022. Specialistai įspėja: maudytis nešvariame vandenyje – rizikinga, galite sulaukti nemalonumų. – *LRT. Labas rytas, Lietuva*, TV report, 2022-07-28. Link: <https://www.lrt.lt/naujienos/sveikata/682/1747260/specialistai-ispeja-maudytis-nesvariame-vandenyje-rizikinga-galite-sulaukti-nemalonumu>

Koreivienė J., 2022. Kauno marios užtvindė maurai. – *KAUNO DIENA*, interviu, published 2022-07-08. Link: <https://m.kauno.diena.lt/naujienos/kaunas/miesto-pulsas/kauno-marias-uztvinde-maurai-1086214>

Koreivienė J., 2022. Įspėja dėl maudynių Lietuvoje: toks vanduo ypač pavojingas sveikatai TV3.lt, 2022.07.01, Link: <https://www.tv3.lt/naujiena/gyvenimas/ispeja-del-maudyniu-lietuvoje-toks-vanduo-ypac-pavojingas-sveikatai-n1176068>

Participation in events for society:

1. Ekspedicijos pėsčiomis aplink Baltijos jūrą „Išsaugokime Baltiją“ baigiamasis renginys „Sugrįžome...O kas toliau? Vilnius, 2024.12.06, <https://vrsa.lt/titulinio-naujienos/424/vyko-issaugokime-baltija-baigiamasis-renginys:5829>
2. Dokumentinių filmų festivalis „Nepatogus kinas“, Edukacija kino teatro erdvėse. Vilnius 2024.10.17. <https://nepatoguskinas.lt/2024/renginys/plastiko-fantastika-bioplastiko-pristatymas/>

3. Aplinkosaugos festivalis „Darom prie jūros 2024“ Melnragėje „Tvarios ateities kūrėjų laboratorija“ Klaipėda, 2024.08.24 <https://mesdarom.lt/darom-prie-juros>
4. Aplinkosaugos festivalis DAROM PRIE JŪROS SU DEXTERA (2023 m.) ir Lietuvos jūrų muziejaus organizuotas edukacinis renginys “TVARUMO LABORATORIJA”. Edukacinis standas „Vandens telkinių dumbliai – tvari atsinaujinanti ateities žaliava vertingų bioproduktų kūrimui“. <https://muziejus.lt/lt/paslaugos/darom-prie-juros-su-dextera>
5. Mokslo festivalis “Erdvėlaivis Žemė 2023”. Tema “Dumbliai ir melsvabakterės – ateities biožaliava”. <https://www.mokslofestivalis.eu/renginys/2023/dumbliai-ir-melsvabakteres-ateities-biozaliava/>
6. Renginys “Tvarios ateities kūrėjų laboratorija BE ATLIEKŲ. 2022”. Klaipėdos jūrų muziejus, Klaipėda, 2022-06-10, <https://muziejus.lt/lt/gallery/tvarios-ateities-kureju-laboratorija-be-atlieku-2022>
7. Renginys „Žaliųjų idėjų festivalis“. Lietuvos Prezidentūra. Vilnius, 2022-06-05. <https://www.lrp.lt/lt/zaliuju-ideju-festivalis-kvies-atrasti-paprastu-sprendimu-svariai-ir-zaliai-kasdienybei/35901>