

# Judita Koreivienė

## KONTAKTINĖ INFORMACIJA

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## EDUCATION AND ACADEMIC DEGREE

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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

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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 (2012-2022)

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

1. 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>
2. 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>
3. 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).
4. 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)
5. 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)
6. 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>
7. 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>
8. Savadova-Ratkus K., Mazur-Marzec H., Karosienė J., Kasperovičienė J., Paškauskas R., Vitonytė 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>
9. 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>
10. 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)
11. 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)

12. 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>
13. Pęczuła 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>
14. 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)
15. Wilk-Woźniak E., **Koreivienė J.**, Karosienė J., Pocięcha A., Strzesak M., Mróz W. **2016**. Contrasting phytoplankton structure and Morphologically Based Functional Groups of reservoirs that differ in the adjacent surrounding. – *Clean – Soil, Air, Water*, 44(6): 638–647. doi [10.1002/clen.201500478](https://doi.org/10.1002/clen.201500478)
16. Karosienė J., Kasperovičienė J., **Koreivienė J.**, Savadova K., Vitonytė I. **2016**. Factors promoting persistence of the bloom-forming *Gonyostomum semen* in temperate lakes. – *Limnologia*. 60: 51–58.
17. Vičkačkaitė, V., Lingytė A., Kasperovičienė J., Bugelytė B., **Koreivienė J.**, Savadova K. **2016**. Selection of an esterification catalyst for assay of total fatty acid content in cyanobacteria and algae using gas chromatography. – *Chemija*. 27 (4): 202–207.
18. Sulcius S., Simoliunas E., Staniulis J., **Koreivienė J.**, Baltrusis P., Meskys R., Paskauskas R. **2015**. Characterization of a lytic cyanophage that infects the bloom-forming cyanobacterium *Aphanizomenon flos-aquae*. – *FEMS Microbiology Ecology*, 91(2): 1–7. doi: [10.1093/femsec/fiu012](https://doi.org/10.1093/femsec/fiu012)
19. Anne O., Bugajev D., **Koreivienė J.** **2015**. Determining optimal growth conditions for the highest biomass microalgae species in Lithuanian part of the Curonian Lagoon for further cultivation. – *International Journal of Environmental Research*, 9(1): 233–246.
20. Karosienė, J., Kasperovičienė, J., **Koreivienė, J.**, Vitonytė, I. **2014**. Assessment of the vulnerability of Lithuanian lakes to expansion of *Gonyostomum semen* (Raphidophyceae). *Limnologia*, 45:7–15. <https://doi.org/10.1016/j.limno.2013.10.005>
21. **Koreivienė J.**, Anne O., Kasperovičienė J., Burškytė V. **2014**. Cyanotoxin management and human health risk mitigation in recreational waters. – *Environmental Monitoring and Assessment*, 186(7): 4443–4459. doi: [10.1007/s10661-014-3710-0](https://doi.org/10.1007/s10661-014-3710-0)
22. Motiejūnaitė, J., Iršėnaitė, R., Adamonytė, G., Dagys, M., Taraškevičius, R., Matulevičiūtė, D., **Koreivienė, J.** **2014**. Pine forest lichens under an eutrophication generated by a great cormorant colony. – *The Lichenologist*, 46(2): 1–16. <https://doi.org/10.1017/S0024282913000820>
23. **Koreivienė J.**, Valčiukas R., Karosienė J., Baltrėnas P. **2014**. Testing of *Chlorella/Scenedesmus* microalgae consortia for remediation of wastewater, CO<sub>2</sub> mitigation and algae biomass feasibility for lipid production. – *Journal of Environmental Engineering and Landscape Management*, 22(02): 105–114.

**Scientific articles published in conference proceedings, indexed in „Clarivate Analytics Web of Science“ database:**

1. **Koreivienė J.**, Savadova K., MazurMarzec H., Karosienė J., Kasperovičienė J., Vitonytė I., Toruńska-Sitarz A. **2019**. Effect of nutrients on native and alien nuisance cyanobacteria strains from temperate lakes and their interspecies competition. – *European Journal of Phycology*. 54 (1): 93. <https://doi.org/10.1080/09670262.2019.1626627>

2. Kasperovičienė J., Karosienė J., **Koreivienė J.**, Savadova-Ratkus K., Vitonytė. I., **2015**. Peculiarities of *Gonyostomum semen* establishment in lakes of different trophy: an experimental approach. – *European Journal of Phycology*, 50(1): p. 205. doi: 10.1080/09670262.2015.1069493. ISSN: 0967-0262
3. Savadova-Ratkus K., **Koreivienė J.**, Sivonen K., Kasperovičienė J., Suurnäkki S., Karosienė J., Wahlsten M., Vitonytė. I., **2015**. Variation of bloom forming cyanobacteria and microcystins in shallow hypertrophic lake. – *European Journal of Phycology*, 50(1): p. 204. doi: 10.1080/09670262.2015.1069493. ISSN: 0967-0262
4. Kasperovičienė J., **Koreivienė J.**, Vasiljev P., Bareikis R., Borodinas S., Struckas A., **2015**. Compound piezo-mechanical systems: a beneficial option for rupturing of microalgal cells. – *European Journal of Phycology*, 50(1): p. 140. doi: 10.1080/09670262.2015.1069493. ISSN: 0967-0262

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

1. **Koreivienė J.**, Paškauskas R. **2020**. In memoriam Genovaitė Jankavičiūtė (1932–2019). – *Botanica*, 26(2): 206–210.
2. **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., Messyasz 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.
3. **Koreivienė J.**, Karosienė J., Kasperovičienė J., Paškauskas R., Messyasz 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.
4. **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.
5. **Koreivienė J.**, Kasperovičienė J., Savadova K., Karosienė J., Vitonytė I. **2016**. Collection of pure cultures of algae and cyanobacteria for research, teaching and biotechnological applications (Nature Research Centre, Lithuania). – *Botanica Lithuanica*, 22(1): 87–92.
6. **Koreivienė J.**, Kasperovičienė J., Karosienė J. **2015**. Cyanobacteria diversity in the Kamanos raised bog (north-west Lithuania). – *Botanica Lithuanica*, 21(2): 139–149.
7. Šulčius S., Alzbutas G., Kvederavičiūtė K., **Koreivienė J.**, Zakrys L., Lubys A., Paškauskas R. **2015**. Draft genome sequence of the cyanobacterium *Aphanizomenon flos-aquae* strain 2012/KM1/D3, isolated from the Curonian Lagoon (Baltic Sea). – *Genome Announc.* 3(1): e01392-14. doi:10.1128/genomeA.01392-14.
8. **Koreivienė J.**, Belous O., Kasperovičienė J. **2013**. Qualitative and quantitative variations of microcystins in the water bodies. – *Botanica Lithuanica*, 19(2): 139–148.
9. **Koreivienė J.**, Belous O. **2012**. The methods of cyanotoxins detection. – *Botanica Lithuanica*, 18(1): 58–65.
10. Servienė E., Kemežienė I., Kasperovičienė J., Čapukoitienė B., Rančelienė V., **Koreivienė J.** **2012**. Optimisation of DNA isolation and PCR parameters for RAPD analysis of *Gonyostomum semen* (Raphidophyceae). – *Botanica Lithuanica*, 18(1): 40–45.



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

1. 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.
2. **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>
3. Posadas E., Alcántara C., García-Encina P.A., Gouveia L., Guieysse B., Norvill Z., Ación 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
4. 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
5. Pilkaitytė R., **Koreivienė J.** 2017. Eualgae – Europos dumblių bioproduktų tyrimų tinklas (<http://eualgae.eu/>). – *Jūros ir krantų tyrimai 2017. Konferencijos medžiaga*: 174–175.
6. **Koreivienė, J.**, Kasperovičienė, J., Karosienė, J. 2012. Morphological variability of raphidophycean algae in the lakes of Lithuania. – In: Wołowski K., Kaczmarska I., Ehrman J.M., Wojtal A.Z. (eds.), *Current advances in algal taxonomy and its applications. Phylogenetic, ecological and applied perspective*: 153–164. Kraków: Polish Academy of Sciences.
7. Seppälä J., Spilling K., Manninen K., Salo E., Cahill B., F. Gröndahl, Pechsiri J.S., , Christensen P. B., Belous O., **Koreivienė J.**, Olenina I. 2012. Large-scale microalgae cultivation (pp. 125–145). – In: Schultz-Zehden A., Matczak M. (eds.), *COMPENDIUM. An assessment of innovative and sustainable uses of Baltic marine resources*. Maritime Institute in Gdańsk. Available on the website: [http://www.submariner-project.eu/index.php?option=com\\_content&view=article&id=233&Itemid=384](http://www.submariner-project.eu/index.php?option=com_content&view=article&id=233&Itemid=384)
8. Blidberg E., Gröndahl F., Cahill B., **Koreivienė J.**, Belous O., Shabayeva D., 2012. Macroalgae harvesting and cultivation. – In: Schultz-Zehden A., Matczak M. (eds.), *COMPENDIUM. An assessment of innovative and sustainable uses of Baltic marine resources*. Maritime Institute in Gdańsk. Available on the website: [http://www.submariner-project.eu/index.php?option=com\\_content&view=article&id=233&Itemid=384](http://www.submariner-project.eu/index.php?option=com_content&view=article&id=233&Itemid=384)

**PARTICIPATION IN INTERNATIONAL AND NATIONAL SCIENTIFIC PROGRAMMES AND PROJECTS (2012-2022)**

- 2022 **Project principal investigator.** Support for renewal of scientific infrastructure. Research Council of Lithuania, agreement No. S-IRA-22-10
- 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.
- 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. Radoslaw Pankiewicz, A. Mickiewicz University in Poznan, 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://algaservice.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/>
- 2013–2014 **Lecturer-consultant.** The Young Investigator. Development of the young researches education system in the secondary schools. Executor: National Education Agency, Center for Informal Education of Lithuanian Students. Founded by Investment action programs of European Union funds for period 2014-2020.
- 2012–2014 **Project investigator.** Responses of plankton communities to *Gonyostomum semen* in combination with biotic, abiotic factors. National Scientific Programme „Lithuanian ecosystems: climate change and anthropogenic pressure“. Founded by Research Council of Lithuania.
- 2012–2016 **Substitute of MC member.** Cyanobacterial blooms and toxins in water resources: occurrence, impacts and management (CyanoCOST). ESSEM COST Action ES1105. <https://www.cost.eu/actions/ES1105/>
- 2012–2013 **Project investigator and member of Steering committee.** LAKES for FUTURE. Cross Border Cooperation for Sustainable Management of Lake Areas in Kurzeme and Lithuania.
- 2011–2013 **Leader of Lithuanian research group.** Trophic relationship of phyto-zooplankton in the anthropogenic water reservoirs. Bilateral collaboration between Lithuanian and Polish Academies of Sciences.
- 2011–2013 **Project investigator.** SUBMARINER, Sustainable Uses of Baltic Marine Resources (Project partner Klaipėda University). The European Union’s Baltic Sea Region Programme. <http://www.submariner-project.eu/>

## INTERNSHIP AND TRAINING

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- 2015 European Multi Lake Survey (Evian les Bains, France)
- 2013 Algae identification workshop (Konin-Mikorzyn, Poland)
- 2010 Algae isolation and culturing technique (Lund University, Sweden)
- 2008 Statistical analysis with SPSS“ (Vilnius, Lithuania)
- 2007 Workshop „Introduction to ArcGIS“(Vilnius, Lithuania)
- 2007 Phenotype and molecular aspects of cyanoprokaryotes (Klaipėda, Lithuania)
- 2005 Workshop. Identification of desmids (A. Mickewicz University, Poznan, Poland)
- 2004 Workshop. Identification of green algae (A. Mickewicz University, Poznan, Poland)
- 2004 Taxonomy and ecology of freshwater benthic algae. Diatoms (Erken field station, Uppsala University, Sweden)
- 2003 Taxonomy and ecology of freshwater benthic algae. Filamentous green algae (Erken field station, Uppsala University, Sweden)
- 1999 Limnology. 3-month study course (Lund University, Sweden)
- 1998 Freshwater algae workshop (Kindrogan Field Centre, Great Britain)
- 1997 Restoration of streams (Praha, Czech Republic)

## PARTICIPATION IN SCIENTIFIC CONFERENCES (2018-2022)

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### *International scientific conferences:*

1. Kokociński M., Jasser I., Kobos J., **Koreiviene 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>
2. **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/>
3. Šuikaitė I., Karosienė J., **Koreivienė J.** **2022**. Impact of alien species *Raphidiopsis raciborskii*, *Chrysoosporum 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/>
4. 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>
5. Krztoń W., Wilk-Woźniak E., Walusiak E., Žutinić 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](https://www.sil2022.org/wp-content/uploads/2022/08/Final_SIL2022_Abstract-Book.pdf)
6. 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.
7. Ušinskienė A., Karosienė J., Jankauskienė J., Kasperovičienė J., **Koreivienė J.** **2021**. Effect of *Cladophora glomerata* extracts on seeds germination. – *39th International conference of the Polish Phycological Society*, 27–30 of September, Gdynia-Łeba, Poland. Book of Abstracts: 60.
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10. Wilk-Woźniak E., Krztoń W., Walusiak E., Łaciak M., Žutinić P., Gligora Udovič M., Kulaš A., **Koreiviene J.**, Karosiene J., Galir Balkić A., Stević F., Žuna Pfeiffer T., Špoljarić Maronić D. **2021**. 24/7 – when cyanobacteria blooms end. – *39th International conference of the Polish Phycological Society*, 27–30 of September, Gdynia-Łeba, Poland. Book of Abstracts: 61.
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  13. Walusiak E., **Koreivienė J.**, Wilk-Woźniak E., Karosienė J., Kasperovičienė J., Juškaitė L., Zagorskis A., Paškauskas R., Gulbinas Z., Valskys V., Messyasz B., Łęska B., Pankiewicz R., Krzton W., Łaciak M. **2020**. Tools to manage cyanobacteria agglomerations in freshwater ecosystems. – *International distance conference “Natural Toxins: Environmental Fate and Safe Water Supply”*, 24–25 of September, Brno, Czech Republic. Book of Abstracts: 59. <https://munispace.muni.cz/library/catalog/view/1725/4868/2684-1/1#preview>
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  15. Kokociński M., Jasser I., Kobos J., **Koreivienė J.**, Soininen J., Szczurowska A., Mankiewicz-Boczek J. **2019**. Distribution pattern of toxigenic cyanobacteria in Polish and Lithuanian lakes. – *38th International Conference of Polish Phycological Society*, 4–7 June, Kielce-Sandomierz, Poland. <https://sin.put.poznan.pl/conferences/details/conference/38th-international-conference-of-the-polish-phycological-society-evolution-and-biodiversity-of-algae>
  16. **Koreivienė J.**, Karosienė J., Vitonytė I., Savadova K., Staniulis D., Spudulytė S., Legotaitė M., Želvis K., Kasperovičienė J. **2019**. Prospecting of indigenous freshwater microalgae as a resource for lipids and pigments. – *EUALGAE Final conference – European recent advances in the microalgae field*, 26–27 of February, Madrid, Spain.
  17. **Koreivienė J.**, Kasperovičienė J., Karosienė J., Savadova K., Vitonytė I., Valčiukas R., Staniulis D., Želvis K. **2018**. Prospecting of indigenous freshwater microalgae as a valuable regional resource. – *37th International Conference of the Polish Phycological Society „Green future: algae – applications and perspective“*, 22–25 of May, Krakow, Dobczyce-Jalowcowa Gora, Poland. Book of Abstracts: 28. ISBN 978-83-61191-01-8.
  18. Želvis K., **Koreivienė J.**, Karitonas R., Vičkačkaitė V. **2018**. The importance of microalgal cell wall for the evaluation of lipids using fluorescent dyes. – *The 37th International Conference of the Polish Phycological Society “Green future: algae – applications and perspective”*, 22–25 of May, Krakow, Dobczyce-Jalowcowa Gora, Poland. Book of Abstracts: 104. ISBN 978-83-61191-01-8
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*National scientific conferences, workshops:*

1. **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).
2. **Koreivienė J. 2021.** Dumблиų perteklinės biomasės surinkimas vandens telkiniuose: vandens kokybės gerinimo ir žiedinės ekonomikos dermė. – *LIFE programa – aplinkos, klimato ir energetikos iššūkių sprendimui LIFE LT baigiamasis seminaras*. "LIFE capacity building in Lithuania" project, Nr. LIFE14 CAP/LT/000008; Link: <https://www.youtube.com/watch?v=Icld9mkhcfg>
3. Nutautaitė M., Racevičiūtė-Stupelienė A., Jonuškienė I., **Koreivienė J.**, Karosienė J., Vilienė V., **2022.** Gėlavandenės makrodumблиų *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
4. Noreikaitė E., Balčiūnaitė-Murzienė G., **Koreivienė J.**, Miknienė Z., Savickienė N., **2021.** Hemagglutinating activity of proteins from *Kirchneriella* sp. Schmidle biomass. – *15 th International Scientific Conference: The vital nature sign*”, 20–21 of May, Kaunas, Lithuania. Abstract book: 71. [http://vns.microsep.org/wp-content/uploads/2021/05/VNS-2021\\_Abstract-book\\_final.pdf](http://vns.microsep.org/wp-content/uploads/2021/05/VNS-2021_Abstract-book_final.pdf)
5. **Koreivienė J.**, Karosienė J., Kasperovičienė J. **2020.** Vertingi bioproduktai iš gėlavandenių dumблиų ir melsvabakterių. – *Seminaras Geologijos tarnyboje*, 24 of September, Vilnius, Lithuania (oral presentation).
6. **Koreivienė J. 2022.** Mikroorganizmai – energetikos ateitis. – *Seminaras „Atsinaujinančių energijos išteklių inovacijos: ką renkasi verslas?“*, LVPA, 12 of February, Vilnius, Lithuania (oral presentation).
7. Noreikaitė E., Balčiūnaitė-Murzienė G., **Koreivienė J.**, Savickienė N., **2020.** Comparison of protein content extracted from green algae *Kirchneriella* sp. Schmidle lyophilized biomass using different determination methods. – *International distance conference “Contemporary Pharmacy: Issues, Challenges and Expectations 2020 Autumn”*, 23 of October, Kaunas, Lithuania. Book of Abstracts: 18. <https://hdl.handle.net/20.500.12512/108405>
8. Noreikaitė E., Balčiūnaitė G., Karosienė J., **Koreivienė J.**, Kasperovičienė J., Savickienė, N. **2019.** Determination of protein content extracted from lyophilized biomass of *Kirchneriella* sp. Schmidle. – *10th International pharmaceutical conference „Science and Practice“*, 15 of November, Kaunas, Lithuania. Book of Abstracts: 64. <https://ismuni.lt/cris/handle/20.500.12512/99531>
9. Paurytė A., Savickienė N., Balčiūnaitė-Murzienė G., Noreikaitė E., Karosienė J., **Koreivienė J.**, Kasperovičienė J., **2020.** Determination of cyanobacteria protein quantity. – *International Students’, Doctoral and Residents’ Conference „Health for All: 2020“*, 19–20 of November, Kaunas, Lithuania. Book of Abstracts: 133–134. <https://smd.lt/download/2020-health-for-all/?wpdmdl=24166&refresh=5fc73ac0a8b0e1606892224>
10. Paškonytė N., Balčiūnaitė-Murzienė G., Savickienė N., Karosienė J., **Koreivienė J.**, Kasperovičienė J., Noreikaitė E., **2020.** Bradford method for microcystis biomass protein quantification. – *International Students’, Doctoral and Residents’ Conference „Health for All: 2020“*, 19–20 of November, Kaunas, Lithuania. Book of Abstracts: 174–175. <https://smd.lt/download/2020-health-for-all/?wpdmdl=24166&refresh=5fc73ac0a8b0e1606892224>

## PARTICIPATION IN THE STUDY PROCESS

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### *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 – 2025-09-30

### *Participation in the process of PhD defence:*

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

Daiva Kalytytė (Nature Research Centre)	<b>Reviewer.</b> Topic: „Phytoplankton and zooplankton community structure and change in characteristic mesotrophic lakes of Lithuania“, supervisor K. Arbačiauskas	2004–2010
Aistė Paldavičienė (Klaipėda University)	<b>Opponent.</b> Topic: „Cyanotoxins and their accumulation in the Curonian Lagoon“, supervisor A. Razinkovas-Baziukas	2005–2015
Research field: <i>Natural Sciences (N000): Geology (N005)</i>		
Neringa Gastevičienė (Nature Research Centre)	<b>Member of Defence Council.</b> Topic: „Late Glacial and Early Holocene climate dynamics in the southeaster Baltic region based on Chironomidae data“, scientific consultant V. Šeirienė	2015–2021

### *Supervision of bachelor and master students:*

Daiva Kalytytė	<i>Topic of Bachelor:</i> „The phytoplankton structure and features of function in Buivydiškės ponds” (VU)	1999–2000
Dalia Jagėlaitė	<i>Topic of Bachelor:</i> „Evaluation of the potential toxicity of cyanobacterial bloom in Lake Gineitiškės” (VU)	2006–2007
Robertas Valčiukas	<i>Topic of Master:</i> Microalgae clean wastewater research and application (VGTU, Environmental engineering study program)	2012–2013
Donatas Staniulis	<i>Topic of Bachelor:</i> „Phycoremediation of wastewaters as a tool to reduce nutrients in hydroecosystems” (VU)	2014–2015
Konradas Želvis	<i>Topic of Bachelor:</i> „Growth characteristics of <i>Scenedesmus</i> and <i>Coelastrum</i> green algae in wastewater” (VDU, Biology study program)	2015–2016
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	2020–2021

Karina Šmeliova	for biofuel production” (VGTU, Bioengineering study program) <i>Topic of Bachelor:</i> „Significance of microalgae and cyanobacteria envelopes for the assessment of accumulated lipids by fluorescence microscopy and spectrophotometry methods” (VU, Microbiology study program)	2022–2023
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***Supervision of summer internship:***

Lina Petrauskaitė	Topic: „Identification and monitoring of macroalgae in the Curonian Lagoon and assessment of the possibilities of their use in biotechnology“ (Klaipėda University)	2012
Konradas Želvis	„Application of algae for wastewater treatment“. Research Council of Lithuania, special practice in biology (BIO4011) (Vytautas Magnus University)	2016

***Lectures and practical training:***

Vilnius University	Topic: Ecology of the waters (lecturer, 15 h)	2021–2022
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***Counselling of pupils mature works:***

Greta Šarkaitė	Topic: „Determining the water quality of the Neris River based on different indicators“, Vilnius Žvėrynas gymnasium	2019–2020
Viktorija Skverekaitė	Topic: „Effects of sunscreens on the freshwater green alga Scenedesmus“, Juozas Balčikonis gymnasium in Panevėžys	2022–2023

**OTHERS**

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***Membership in editorial boards of scientific journals:***

<i>Botanica</i> (former <i>Botanica Lithuanica</i> )	Subject Editor: Fundamental and applied algology <a href="https://botanicalithuanica.gamtc.lt/en">https://botanicalithuanica.gamtc.lt/en</a>	from 2008
<i>Plants and Fungi Systematics</i>	Associated Editor, <a href="https://pfsyst.botany.pl/Editorial-Board,2221.html">https://pfsyst.botany.pl/Editorial-Board,2221.html</a>	from 2018

***Membership in associations:***

Society of Lithuanian Algologists	member from 1998 head from 2022
The Federation of European Phycological Societies <a href="https://www.feps-algae.org/about/member-societies/member-societies">https://www.feps-algae.org/about/member-societies/member-societies</a>	member from 2019

***Dissemination of science to the society 2012–2022:***

***Popular papers:***

1. **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>

2. Kasperovičienė J., Karosienė J., **Koreivienė J.** 2021. Ar po gilios, šaltos žiemos vandens telkiniuose vasarą „žydės“ melsvabakterės? – *15min.lt*. <https://www.15min.lt/naujiena/aktualu/lietuva/ar-po-gilios-saltos-ziemos-vandens-telkiniuose-vasara-zydes-melsvabakteres-56-1463432>
3. Kasperovičienė J., Karosienė J., **Koreivienė J.** 2021. Ar po gilios, šaltos žiemos vandens telkiniuose vasarą „žydės“ melsvabakterės? – *Žaliasis pasaulis*, 11, published 2021-03-18.
4. Kasperovičienė J., **Koreivienė J.**, Karosienė J. 2020. Vandens telkinių "žydėjimai" klimato kaitos kontekste: grėsmės ir sprendimai. – *Žaliasis pasaulis*, published 2020-07-22. <https://zpasaulis.lt/vandens-telkiniu-zydejimai/>
5. Karosienė J., **Koreivienė J.**, Kasperovičienė J. 2020. Vandens „žydėjimai“ – ar saugu maudytis Lietuvos vandens telkiniuose? – *15min.lt*, published 2020-08-06. <https://www.15min.lt/naujiena/aktualu/lietuva/vandens-zydejimai-ar-saugu-maudytis-lietuvos-vandens-telkiniuose-56-1356698>
6. Karosienė J., **Koreivienė J.**, Kasperovičienė J. 2020. Vandens „žydėjimai“ – ar saugu maudytis Lietuvos vandens telkiniuose? – *Suvakietis*, published 12/08/2020.
7. **Koreivienė J.**, Kasperovičienė J., Karosienė J. 2020. Gamtai draugiškų priemonių įvaldymas vandens „žydėjimų“ švelninimui ir tvariam gamtinių resursų naudojimui. – Vilniaus miesto savivaldybės internetinis puslapis, published 2020-10-02. <https://aplinka.vilnius.lt/gamtai-draugisku-priemoniu-ivaldymas-vandens-zydejimu-svelninimui-ir-tvariam-gamtiniu-resursu-naudojimui/>
8. Wilk-Woźniak E., **Koreivienė J.**, Krztoń W., Walusiak E., Kustosz D., Łaciak M., Karosienė J., Kasperovičienė J., Messyasz B., Łęska B., Pankiewicz R., Juškaitė L., Zagorskis A., Gulbinas Z., Valskys V. 2020. Sinice i glony pomogą złagodzić skutki globalnego ocieplenia - projekt LIFE. – *Chrońmy Przyrodę Ojczystą*, 76 (1): 66–76.

#### **Interviews for newspapers, online portals, radio and television:**

1. **Koreivienė J.**, Drazdas J. 2022. Pavojingoms melsvabakterėms surinkti – specialus lietuviškas laivas. – *LRT Mokslo sriuba*, 2022-10-27. Link: <https://algaeservice.gamtostyrimai.lt/lt/rezultatai/>
2. **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>
3. **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>
4. **Koreivienė J.**, Drazdas J. 2022. Žydinčios Kauno marios - pavojus žmonėms ir gyvūnams. Mokslininkai į Kauno marias siunčia 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-renkantis-kenksmingus-dumbliaus-n1186910>
5. **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>
6. **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-murai-1086214>
7. **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>
8. **Koreivienė J.** 2020. Vienkartinė planeta. Pavojingas „žydėjimas“. – *Lietuvos radijas*, radio interviu, 2020-08-17, Link: <https://www.lrt.lt/mediateka/irasas/2000118419/vienkartine-planeta-pavojingas-zydejimas>

9. **Koreivienė J.** Radio interviu. – *LRT*, "*Gamta visų namai*". 15/08/2020, 13:05-19:15 min.,  
Link: <https://www.lrt.lt/mediateka/irasas/2000118281/gamta-visu-namai-zolines-brandziosios-vasaros-svente?fbclid=IwAR0CCBpUckP2nsFqrD95bON99wSjiR18SN9r95E87C-TgVZERuko0c5V4AI>
10. **Koreivienė J.**, Paškauskas R. **2019**. Kuo pavojingas vandens telkinių žydėjimas? – *Naujienu portalas lrytas.lt* , videoreport 2019-06-03. <https://www.lrytas.lt/gamta/eko/2019/06/03/news/kuo-pavojingas-vandens-telkiniu-zydejimas--10597965/>