

Jūratė Karosienė

CONTACT INFORMATION

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ACADEMIC DEGREE

2008 PhD in Biomedical sciences, botany (04B) (Vilnius University and Institute of Botany).
Doctoral dissertation: “*Spatial and seasonal formation of epiphyton algal communities in lakes of different trophic status*”, supervisor dr. J. Kasperovičienė.

PROFESSIONAL EXPERIENCE

since 2018 **Senior Researcher**
(since 2017 07 01 – Laboratory of Algology and Microbial Ecology)

RESEARCH INTERESTS

Algae and cyanobacteria, species diversity, biology, ecology; alien species; harmful blooms, toxic cyanobacteria, cyanotoxins and other secondary metabolites; water quality assessment; applications of cyanobacteria and algae in biotechnology, bioproducts.

PUBLICATIONS

Scientific articles published in journals (books), indexed in „Clarivate Analytics Web of Science“ database (with citation index) (2018–2022):

1. Dranseikienė D., Balčiūnaitė-Murzienė G., **Karosienė J.**, Morudov D., Juodžiukynienė N., Hudz N., Gerbutavičienė R.J., Savickienė N. 2022. Cyano-phyco cyanin: Mechanisms of action on human skin and future perspectives in medicine. – *Plants*, 11 (9): art. no. 1249. <https://doi.org/10.3390/plants11091249>.
2. 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 (22): art. no. 15341. <https://doi.org/10.3390/ijerph192215341>.
3. 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): art. no. 1138. <https://doi.org/10.3390/w14071138>.
4. 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 (1): art. no. 23. <https://doi.org/10.3390/toxins13010023>.

5. Nutautaitė M., Vilma 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 (7): art. no. 582. <https://doi.org/10.3390/agriculture11070582>.
6. Donis D., Mantzouki E., McGinnis D.F., Vachon D., Gallego I., Grossart H.P., Domis L.N.D., Teurlincx S., Seelen L., Lurling M., Verstijnen Y., Maliaka V., Fonvielle J., Visser P.M., Verspagen J., van Herk, M., Antoniou M.G., Tsiarta N., McCarthy V., Perello V.C., Machado-Vieira D., de Oliveira A.G., Maronic D.S., Stevic F., Pfeiffer T.Z., Vucelic I.B., Zutinic P., Udovic M.G., Blaha L., Geris R., Fankova M., Christoffersen K.S., Warming T.P., Feldmann T., Laas A., Panksep K., Tuvikene L., Kangro K., Koreivienė J., **Karosienė J.**, <...>, 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. – *Limnology and Oceanography*, 66 (12): 4314–4333. <https://doi.org/10.1002/lno.11963>.
7. Adamovich B., Mikheeva T., Sorokovikova E., Belykh O., Paškauskas R., Kuzmin A., Fedorova G., Zhukava H., **Karosienė J.** 2021. Phytoplankton of the transboundary River Viliya (Neris): community structure and toxic cyanobacterial blooms. – *Baltica*, 34 (2): 174–184. <https://doi.org/10.5200/baltica.2021.2.4>.
8. **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>.
9. Syrpas M., Bukauskaitė J., Ramanauskienė K., **Karosienė J.**, Majienė D., Basinskienė L., Venskutonis P.R. 2020. Ultrasound-assisted extraction and assessment of biological activity of phycobiliprotein-rich aqueous extracts from wild cyanobacteria (*Aphanizomenon flos-aquae*). – *Journal of Agricultural and Food Chemistry*, 68 (7): 1896–1909. <https://doi.org/10.1021/acs.jafc.9b05483>.
10. Barisevičiūtė R., Mažeika E., Ežerinskis Z., Mažeika J., Butkus L., Šapolaitė J., Garbaras A., Paškauskas R., Jefanova O., **Karosienė J.**, Kasperovičienė J., Remeikis V. 2019. Tracing carbon isotope variations in lake sediments caused by environmental factors during the past century: a case study of Lake Tapeliai, Lithuania. – *Radiocarbon*, 61 (4): 885–903. <https://doi.org/10.1017/RDC.2019.63>.
11. Lesutienė J., Ložys L., Dainys J., **Karosienė J.**, Pilkaitytė R., Pūtys Ž., Bukaveckas P.A., Gasiūnaitė Z.R. 2018. Migratory patterns and cyanotoxin concentrations of pikeperch (*Sander lucioperca*) in the coastal waters of the Baltic Sea. – *Boreal Environment Research*, 23: 315–327. ISSN 1797-2469 (online).
12. Savadova K., Mazur-Marzec H., **Karosienė J.**, Kasperovičienė J., Vitonytė I., Torunska-Sitarz A., Koreivienė J. 2018. Effect of increased temperature on native and alien Nuisance cyanobacteria from temperate lakes: an experimental approach. – *Toxins*, 10 (11): art. no. 445. <https://doi.org/10.3390/toxins10110445>.
13. Mantzouki E., Campbell J., van Loon E., Visser P., Konstantinou I., Antoniou M., Giuliani, G., Machado-Vieira D., de Oliveira A.G., Maronic D.S., Stevic F., Pfeiffer T.Z., Vucelic I.B., Zutinic P., Udovic M.G., Plenkovc-Moraj A., Tsiarta N., Blaha L., Geris R., Frankova M., Christoffersen K.S., Warming T.P., Feldmann T., Laas A., Panksep K., Tuvikene L., Kangro K., Haggqvist K., Salmi P., Arvola L., Fastner J., Straile D., Rothhaupt K.O., Fonvielle J., Grossart H.P., Avagianos C., Kaloudis T., Triantis T., Zervou S.K., Hiskia A., Gkelis S., Panou M., McCarthy V., Perello V.C., Obertegger U., Boscai A., Flaim G., Salmaso N., Cerasino L., Koreivienė J., **Karosienė J.**, <...>, Ibelings B.W. 2018. Data Descriptor: A European Multi Lake Survey dataset of environmental variables, phytoplankton pigments and cyanotoxins. – *Scientific Data*, 5: art. no. 180226. <https://doi.org/10.1038/sdata.2018.226>.
14. Mantzouki E., Lurling M., Fastner J., Domis L.D., Wilk-Wozniak E., Koreivienė J., Seelen L., Teurlincx S., Verstijnen Y., Krzton W., Walusiak E., **Karosienė J.**, <...>, Ibelings B.W.

2018. Temperature effects explain continental scale distribution of cyanobacterial toxins. – *Toxins*. 10 (4): art. no. 156. <https://doi.org/10.3390/toxins10040156>.

Scientific articles published in journals (books), indexed in „Clarivate Analytics Web of Science“ database (without citation index) (2012–2022):

1. Hudz N., Turkina V., Yezerska O., Kobylinska L., Filipiska A., **Karosienė J.**, Galinytė D., Balčiūnaitė–Murzienė G., Khomyak S., Savickienė N. 2022. Evaluation of the spectral characteristics, purity and antioxidant activity of phycocyanin from the cyanobacteria collected in Kaunas Lagoon (Lithuania). – *The Ukrainian Biochemical Journal*, 94 (5): 47–58. <https://doi.org/10.15407/ubj94.05.047>.
2. Zhukova H.A., Smolskaja V.S., Vishnevetskaya E.A., **Karosienė J.**, 2021. The content of plant pigments in bottom sediments of Batorino Lake and their spectral pigment indices. – *Journal of the Belarusian State University. Biology*, 2: 84–96. <https://doi.org/10.33581/2521-1722-2021-2-84-96>.
3. Koreivienė J., Savadova K., Mazur-Marzec 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), Oral papers: p. 93. <https://doi.org/10.1080/09670262.2019.1626627>.
4. Koreivienė J., **Karosienė J.**, Kasperovičienė J., Paškauskas R., Messyasz B., Łęska B., Pankiewicz R., Gulbinas Z., Valskys V., Walusiak E., Krzton W., Kustosz D., Wilk-Woźniak E. 2019. EU project of LIFE programme “Algae Service for LIFE” creates tools for Ecological service to mitigate cyanobacteria and macroalgae blooms in freshwater ecosystems. – *Botanica*, 25(1): 65–73. <https://doi.org/10.2478/botlit-2019-0007>.
5. 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. <https://doi.org/10.2478/botlit-2019-0019>.
6. Grendaitė D., Stonevičius E., **Karosienė J.**, Savadova K., Kasperovičienė J. 2018. Chlorophyll-a concentration retrieval in eutrophic lakes in Lithuania from Sentinel-2 data. – *Geologija. Geografija*, 4(1): 15–28. <https://doi.org/10.6001/geol-geogr.v4i1.3720>.
7. 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. <https://doi.org/10.1515/botlit-2016-0009>.
8. 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), Posters: p. 205. <https://doi.org/10.1080/09670262.2015.1069493>. ISSN: 0967-0262.
9. 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), Posters: p. 204. <https://doi.org/10.1080/09670262.2015.1069493>. ISSN: 0967-0262.
10. Koreivienė J., Kasperovičienė J., **Karosienė J.** 2015. Cyanobacteria diversity in the Kamanos raised bog (north-west Lithuania). – *Botanica Lithuanica*, 21(2): 139–149. <https://doi.org/10.1515/botlit-2015-0018>.
11. Kasperovičienė J., Paškauskas R., **Karosienė J.** 2014. Phytoplankton community, Special Issue: Transformation in Lake Drūkšiai ecosystem upon Ignalina Nuclear Power Plant decommissioning. – *Zoology and Ecology*, 24: 92–98. <https://doi.org/10.1080/21658005.2014.925238>.

12. **Karosienė J.**, Kasperovičienė J. 2012. Peculiarities of epiphyton algal communities formation on different macrophyte species. – *Botanica Lithuanica*, 18(2): 154–163. <https://doi.org/10.2478/v10279-012-0017-3>.

Scientific articles published in conference proceedings, indexed in „Clarivate Analytics Web of Science“ database (2012–2022):

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“*. Botany, 106 (2): 31–45.
2. 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*. Kraków, pp. 153–164. ISBN: 9788362975037.

Other reviewed scientific publications (books, books' chapters, collections of articles, articles, textbooks and etc.) (2012–2022):

1. Lesutienė J., Dainys J., **Karosienė J.**, Ložys L., Pūtys Ž., Gasiūnaitė Z., Pilkaitytė R. 2016. Migruojančių starkingų (*Sander lucioperca* L.) identifikavimas stabiliųjų izotopų metodu nustatant melsvabakterijų hepatoksinų koncentracijas. – *Jūros ir krantų tyrimai. Konferencijų medžiaga*. Klaipėda. ISBN: 978-9955-18-901-5.

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

- | | |
|-------------|---|
| 2021 – 2023 | Project coordinator in NRC. EUREKA project „Design of functional fish feed additives from wild algal biomass (Eco-Aqua-Recycle)“ (Project leader: Dr. Nijolė Savickienė, Lithuanian University of Health Sciences). The Lithuanian Agency for Science, Innovation and Technology (MITA) agreement No 01.2.2-MITA-K-702-10-0008, grant number E!13474 ECO-AQUA-RECYCLE. |
| 2018 – 2023 | Researcher in EU Environment and Climate Policy (LIFE) project „Algae – economy based ecological service of aquatic ecosystems (AlgaeService for Life)“. Projektas No. LIFE17 ENV/LT/000407. http://algaeservice.gamtostyrimai.lt . |
| 2021 – 2023 | Researcher in the project of Environmental Protection Agency „Study on phytoplankton biomass harvesting by floating devices in the Curonian Lagoon and application of harvested biomass in bioreactors, agrotechnology or other purposes“. |
| 2017 – 2020 | Researcher in the joint research project of bilateral collaboration between the Lithuanian and Poland Academies of Sciences “Cyanobacteria, Viruses, Protozoan and Metazoan – Understanding ecological interactions in communities of aquatic ecosystems”. |
| 2014 – 2018 | Member in ESSEM COST Action ES1408 “European network for algal-bioproductions (EUALGAE)”. |
| 2014 – 2016 | Researcher in the project of Research Council of Lithuania “Cyanotoxins in the food web of Curonian Lagoon and their transport to the coastal waters (MIMIT)“. |
| 2012 – 2016 | Member in ESSEM COST Action ES1105COST „Cyanobacterial blooms and toxins in water resources: Occurrence, impacts and management |

(CYANOCOST)”.

- 2012 – 2014 **Researcher** in the project „Plankton communities response to Gonyostomum semen establishment and other biotic, abiotic factors (BeGONY)” of the National Research Programme „Ecosystems in Lithuania: climate change and human impact“. Research Council of Lithuania
- 2013 – 2014 **Lector-consultant** in the project of Creation of discovery and education system of scholar’s young researchers “Young Researcher”. Lithuanian centre of non-formal youth education. The project funded by the Human Resources Development Operational Programme of the European Social Fund and the Lithuanian state budget.
- 2012 – 2013 **Researcher** in the project of Latvian-Lithuanian cross border cooperation programme 2007-2013 “Cross Border Cooperation for Sustainable Management of Lake Areas in Kurzeme and Lithuania (Lakes for Future)”. Project No. LLIV-326.
- 2011 – 2013 **Researcher** in the joint research project of bilateral collaboration between the Lithuanian and Poland Academies of Sciences „Trophic relationship of phyto-zooplankton in the anthropogenic water reservoirs”.

INTERNSHIP AND TRAINING

- 2016 Cyanotoxins and other non-ribosomal peptides in cyanobacteria (Institute of Oceanography, University of Gdańsk, Gdynia, Poland)
- 2015 Cyanotoxins and other non-ribosomal peptides in cyanobacteria populations of shallow hypertrophic lake (STSM according to COST action ES1105. Institute of Oceanography, University of Gdańsk. Gdynia, Poland)
- 2015 11th Summer School on Toxic Compounds in the Environment 2015 (Masaryk University, Brno, Czech Republic)
- 2015 Analytical & Chromatography Technology (Vilnius, Lithuania)
- 2013 Cyanobacteria, diatoms and green algae workshop (Konin, Poland)
- 2009 Applying of biological pollution assessment methods (Klaipėda, Lithuania)
- 2008 Advanced statistical analysis with SPSS (Vilnius, Lithuania)
- 2008 Introduction to SPSS (Vilnius, Lithuania)
- 2007 Introduction to ArcGIS (Vilnius, Lithuania)
- 2007 Phenotype and molecular aspects of cyanoprokaryotes (Klaipėda, Lithuania)

PARTICIPATION IN SCIENTIFIC CONFERENCES (2018–2022)

International scientific conferences:

1. 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 August, České Budějovice, Czech Republic. Book of Abstracts. <https://www.iac2022.cz/>
2. 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 August, České Budějovice, Czech Republic. Book of Abstracts: 64. <https://www.iac2022.cz/>

3. 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 August. Berlyn, Germany. Book of Abstracts: 319. https://www.sil2022.org/wp-content/uploads/2022/08/Final_SIL2022_Abstract-Book.pdf.
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 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. Galinytė D., Balčiūnaitė-Murzienė G., **Karosienė J.**, Morudov D., Juodžiukynienė N., Hudz Natalija, Raudonė L., Savickienė N. 2022. Antioxidant activity of cyano-phycoyanin isolated from cyanobacterial biomass collected in Kaunas Lagoon. – *The 12th International Pharmacy Conference „Contemporary Pharmacy: Issues Challenges and Expectations 2022 autumn“*, 21 October, Kaunas, Lithuania. Book of Abstracts: 25. <https://hdl.handle.net/20.500.12512/115861>.
6. Buzytė K., Jankauskienė J., **Karosienė J.**, Paškauskas R. 2022. The impact of algae biomass on the growth and development process of rapeseed plant. – *International Conference of Life Science “The Coins 2022”*, 28 February–3 March, Vilnius, Lithuania. Book of Abstracts: 100. <https://www.thecoins.eu/static/resources/booksofabstracts/COINS2022.pdf>.
7. Galinytė D., Balčiūnaitė-Murzienė G., **Karosienė J.**, Morudov D., Juodžiukynienė N., Hudz Natalija, Raudonė L., Savickienė N. 2022. Effects of cyano-phycoyanin on skin and future perspectives in medicine. – *The Joint International Scientific Practical Conference „Contemporary Pharmacy: Issues, Challenges and Expectations 2022“*, 6 May, Kaunas, Lithuania. Book of Abstracts: 27–28. <https://hdl.handle.net/20.500.12512/114609>.
8. 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 September, Gdynia-Łeba, Poland. Book of Abstracts: 60.
9. Koreivienė J., **Karosienė J.**, Kasperovičienė J., Juškaitė-Drazdienė L., Skorupskas R., Valskys V., Gulbinas Z., Paškauskas R., Bakšienė E., Morudov D., Gedvilas A., **2021**. Harvesting of wild algal biomass from Lithuanian freshwaters and testing for bioproducts within the framework of the project AlgaeService for LIFE. – *39th International conference of the Polish Phycological Society*, 27–30 September, Gdynia-Łeba, Poland. Book of Abstracts: 23.
10. Wilk-Woźniak E., Krztoń W., Walusiak E., Łaciak M., Žutinić P., Gligora Udovič M., Kulaš A., Koreivienė J., **Karosienė 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 September, Gdynia-Łeba, Poland. Book of Abstracts: 61.
11. Morudov D., **Karosienė J.**, Kasperovičienė J., Bakšienė E., Jankauskienė J., Buzytė K., Koreivienė J. 2021. Exploring the potential of *Cladophora glomerata* biomass as a fertilizer for barley growth. – *39th International conference of the Polish Phycological Society*, 27–30 September, Gdynia-Łeba, Poland. Book of Abstracts: 57.
12. Krztoń W., Wilk-Woźniak E.1, 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. 2021. Nutrition facts: impact of cyanobacterial blooms on C:N ratio of freshwater Crustacean zooplankton. – *10th International Shallow Lakes Conference*, 1–5 March, Natal, Brazilija. Book of Abstracts: 171.
13. Paurytė A., **Karosienė J.**, Mikniene Z., Savickienė N., Balčiūnaitė-Murzienė G. 2021. Comparison of Hemagglutination with Blood Samples from Different Species of Animals. – *15th International Scientific Conference: The vital nature sign*, 20–21 May, Kaunas, Lithuania.

Abstract book: 74. http://vns.microsep.org/wp-content/uploads/2021/05/VNS-2021_Abstract-book_final.pdf.

14. Wilk-Woźniak E., **Karosienė J.**, Koreivienė J., Mantzouki E., Krztoń W., Walusiak E., Kasperovičienė J., Žutinič P., Gligora Udovič M., Kobos J., Toporowska M., Bańkowska-Sobczak A., Budzyńska A., Domek P., Dunalska J., Frąk M., Gołdyn R., Grabowska M., Jakubowska-Krepska N., Jasser I., Karpowicz M., Kokociński M., Kozak A., Mazur-Marzec H., Mądrecka B., Messyasz B., Napiórkowska-Krzebietke A., Niedźwiecki M., Pawlik-Skowrońska B., Pasztaleniec A., Pełechata A., Mariusz P., Pęczuła W., Rosińska J., Szelaż-Wasielewska E., Wasilewicz M., Stević F., Špoljarić Maronić D., Pfeiffer Žuna T., Mankiewicz-Boczek J., Gaęła-Borowska I. 2020. Cyanobacterial diversity, biomass and cyanotoxins across the latitude in European freshwaters. – *International distance conference “Natural Toxins: Environmental Fate and Safe Water Supply”*, 24–25 September, Brno, Czech Republic. Book of Abstracts: 107–108. <https://munispace.muni.cz/library/catalog/view/1725/4868/2684-1/1#preview>.
15. 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 September, Brno, Czech Republik. Book of Abstracts: 59. <https://munispace.muni.cz/library/catalog/view/1725/4868/2684-1/1#preview>.
16. Paurytė A., Savickienė N., **Karosienė J.**, Miknienė Z., Balčiūnaitė-Murzienė G. 2020. Hemagglutination activity determination of cyanobacteria proteins. – *International distance conference “Contemporary Pharmacy: Issues, Challenges and Expectations 2020 Autumn”*, 23 October, Kaunas, Lithuania. Book of Abstracts: 18. <https://hdl.handle.net/20.500.12512/108404>.
17. 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 November, Kaunas, Lithuania. Book of Abstracts: 133–134. <https://smd.lt/download/2020-health-for-all/?wpdmdl=24166&refresh=5fc73ac0a8b0e1606892224>.
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20. 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 November, Kaunas, Lithuania. Book of Abstracts: 64. <https://lsmuni.lt/cris/handle/20.500.12512/99531>.
21. Grendaitė D., Stonevičius E., **Karosienė J.**, Savadova K., Kasperovičienė J. 2019. Seasonal variation of satellite derived chlorophyll-a concentration in eutrophic and hypertrophic Lakes. – *2019 Living Planet Symposium*, 13–17 May, Milan, Italy. <https://lps19.esa.int/NikalWebsitePortal/living-planet-symposium-2019/lps19/Agenda/AgendaItemDetail?id=f7446c8a-f07a-43a3-aebf-9743f93b64ce>.
22. 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 May, Krakow, Dobczyce-Jalowcowa Gora, Poland. Book of Abstracts: 28. ISBN 978-83-61191-01-8.

23. 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 February, Madrid, Spain.
24. Wilk-Woźniak E., Koreivienė J., Mantzouki E., Krztoń W., Walusiak E., Chmura D., **Karosienė J.**, Kasperovičienė J., Savadova K., Vitonytė I., Kobos J., Toporowska M., Bańkowska-Sobczak A., Budzyńska A., Domek P., Dunalska J., Frąk M., Gagala I., Gołdyn R., Grabowska M., Jakubowska-Krepska N., Jasser I., Karpowicz M., Kokociński M., Kostrzewska-Szlakowska I., Kruk M., Kozak A., Kwasiżur K., Mankiewicz-Boczek J., Mądrecka B., Mazur-Marzec H., Messyas B., Napiórkowska-Krzebietke A., Nawrocka L., Niedźwiecki M., Ochocka A., Pawlik-Skowrońska B., Pasztaleniec A., Pelechata A., Pelechaty M., Pęczuła W., Rosińska J., Sieńska J., Szelaż-Wasielewska E., Szymański D., Wasilewicz M. 2018. Cyanotoxins and their producers in lakes of Central and Eastern Europe. – *37th International Conference of the Polish Phycological Society „Green future: algae – applications and perspective“*, 22–25 May, Krakow, Dobczyce-Jalowcowa Gora, Poland. Book of Abstracts: 41. ISBN 978-83-61191-01-8.
25. Grendaitė D., Stonevičius E., **Karosienė J.**, Savadova K., Kasperovičienė J. 2018. Ecological water quality assessment of Lithuanian lakes using remote sensing. – *61st International Conference for Students of Physics and Natural Sciences „Open Readings 2018“*, 20–23 March, Vilnius, Lithuania. Book of Abstracts: 314. <http://www.openreadings.eu/wp-content/uploads/2018/03/knyga-after.pdf>.

National scientific conferences, seminars:

1. 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 November, Vilnius, Lithuania. Book of Abstracts: 12. ISBN 978-9986-08-090-9.
2. **Karosienė J.** 2019. Cyanobacteria toxicity, impact on human health, experience of foreign countries and the situation in Lithuania. – *Seminar organized by the Health Promotion Center of the Institute of Hygiene „Actual issues of bathing water quality management in municipalities“*, 14 November, Trakai, Lithuania. http://www.smlpc.lt/media/image/Naujienuoms/2017%20metai/Aplinkos%20sveikatos%20skyrius/Karosiene_melsvabakteres_maudykla.14%20-%20Copy%201.pdf.

PARTICIPATION IN THE STUDY PROCESS

Supervision of PhD students:

Natural Sciences (N000). Biology (N010)

Antanina Ušinskienė	Dissertation: „Potential application of wild macroalgae biomass as biofertilizer“	2020-12-21 – 2022-09-30
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Membership in the council for doctoral thesis defense:

Elžbieta Jankovska-Bortkevič	Member. Dissertation: „Winter oilseed rape cold resistance characteristics and their alteration after treatment with polyamines and proline“. Natural Sciences, Biology (N 010)	2020-08-07
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Donata Overlingė **Member.** Dissertation: „Cyanobacteria as a source of bioactive metabolites: their potential application in biotechnology and environmental impact“. Natural Sciences, Ecology and Environmental (N 012) 2022-05-06

Supervision of bachelor and master students:

Birutė Blužaitė Supervisor. Bachelor thesis: „Monitoring and assesment of recreational water bodies according to cyanobacteria parameters“ (VU, LSC, Biology) 2022

Karolina Voronkaitė Supervisor. Bachelor thesis: „Polyphenols and Antioxidant Activity in the Biomass of Filamentous Green Algae *Cladophora glomerata*“ (VU LSC, Microbiology and Biotechnology) 2021

Agata Paurytė Consultant. Master thesis: „Quantitative-qualitative analysis of pProteins isolated from biomass of cyanobacteria and *in vitro* study of haemagglutinative Activity“ (LSMU, Pharmacy) 2021

Aušrinė Jurgelė Supervisor. Master thesis: “Filamentous green algae and their ecological peculiarities in Lithuanian rivers” (VU, LSC, Biodiversity) 2020

Simona Spudulytė Supervisor. Bachelor thesis: „Diversity and accumulation of phycobiliproteins in bloom forming cyanobacteria” (VU, LSC, Microbiology and Biotechnology) 2019

Agnė Grabauskytė Supervisor. Bachelor thesis: „Peculiarities of phytoplankton in a eutrophic lake dominated by *Gonyostomum semen*” (VU, Botany) 2014

Robertas Valčiukas Consultant. Bachelor thesis: „Microalgae clean wastewater research and applications“ (VGTU, Environmental engineering) 2013

Ksenija Savadova Supervisor. Master thesis: „Peculiarities of *Gonyostomum semen* (*Raphidophyceae*) morphology, ecology and genetic diversity in Lithuanian lakes“ (VU, Botany) 2013

Ksenija Savadova Supervisor. Bachelor thesis: „Epiphyton diatoms in the assessment of ecological status of Lithuanian lakes“ (Vilnius Pedagogical University) 2011

Supervision of other scientific researchers:

Šarūnas Katukevičius Scientific consultant of research study “Effects of leaf litter extracts of invasive ash-leaved maple and native tree species on diversity and abundance of infusoria” presented at STEAM Science competition “Our Experiment” (Alytus Adolfas Ramanauskas-Vanagas gymnasium) 2017

Šarūnas Katukevičius Scientific consultant of research study “ Study of the effect of different tree leaf litters on protozoan diversity and abundance” presented at the National stage of EU Contest for Young Scientists “Ideas Fair” (Alytus Adolfas Ramanauskas-Vanagas gymnasium) 2016

OTHER

Science popularising activities:

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*, Published: 26 July 2022. <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? *15 min.* Published: 1 March 2021. <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 žiemos vandens telkiniuose vasarą „žydės“ melsvabakterės? *Švenčionių kraštas*. Published: 20 March 2021. https://www.svencioniukrastas.lt/index.php?option=com_content&view=article&id=8216:ar-po-ziemos-vandens-telkiniuose-vasar-yds-melsvabakters&catid=976:2021-m-kovo-20-d_
4. Kasperovičienė J., **Karosienė J.**, Koreivienė J. 2021. Melsvabakterės. Ar jos „žydės“ po gilios, šaltos žiemos vandens telkiniuose vasarą? *Žaliasis pasaulis*. Published: 18 March 2021. https://zpasaulis.lt/vandens-telkiniu-zydejimai/?fbclid=IwAR2obxfOv31KD-tOyUySv72JiJnchsKNj5qt_tcxw4x1maG7fxMaygtgxKw.
5. Kasperovičienė J., Koreivienė J., **Karosienė J.** 2020. Vandens telkinių „žydėjimai“ klimato kaitos kontekste. *Žaliasis pasaulis*. <https://zpasaulis.lt/vandens-telkiniu-zydejimai>.
6. **Karosienė J.**, Koreivienė J., Kasperovičienė J. 2020. Vandens „žydėjimai“ – ar saugu maudytis Lietuvos vandens telkiniuose? *15 min.* Published: 26 August 2020. <https://www.15min.lt/naujiena/aktualu/lietuva/vandens-zydejimai-ar-saugu-maudytis-lietuvos-vandens-telkiniuose-56-1356698>.
7. **Karosienė J.**, Koreivienė J., Kasperovičienė J. 2020. Vandens „žydėjimai“ – ar saugu maudytis Lietuvos vandens telkiniuose? *Suvalkietis*, Published: 12 August 2020.
8. **Karosienė J.**, Koreivienė J., Kasperovičienė J. 2020. Vandens „žydėjimai“. Ar saugu maudytis Lietuvos vandens telkiniuose? *Švenčionių kraštas*, Published: 12 August 2020. https://www.svencioniukrastas.lt/index.php?option=com_content&view=article&id=7736:vandens-zydejimai-ar-saugu-maudytis-lietuvos-vandens-telkiniuose&catid=925:2020-m-rugpjio-12-d-treidienuis-nr601975.

Other experience:

1. Participation in the education project „A sustainable waste-free future lab, 2022“. Klaipėda. 10 June 2022, Klaipėda, Lithuania.
2. Collaboration with the Health Promotion Center of the Institute of Hygiene in consulting on the draft amendment the Hygiene norm HN 92:2018 "Beaches and their bathing water quality". 2021.
3. Participation in XVI National Science Festival „Spaceship Earth“, 20 September, Vilnius, Lithuania. Oral presentation: **Karosienė J.**, Koreivienė J. 2019. Harmful blooms: is it safe to swim in Lithuanian lakes.
4. Experience in inventory of EU critical natural water habitats (2012–2013).

Membership in societies:

Lithuanian Psychological Society

The Federation of European Psychological Society (FEPS)

2022.12.12