

Nijolė Kazlauskienė

CONTACT INFORMATION

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EDUCATION AND ACADEMIC DEGREE

1993 Nostrified as Doctor of Natural Sciences by Lithuanian Scientific Council
1987 Leningrad I. Sečenov Institute of Evolutionary Physiology and Biochemistry of the USSR Academy of Sciences, PhD (Doctor of Natural Sciences)
1979 – 1982 Post-graduate Student of Institute of Zoology and Parasitology of Lithuanian Academy of Sciences
1970 – 1975 Vilnius State University, Faculty of Natural Sciences. Department of Biophysics, M.Sc. in Biology-Biophysics

PROFESSIONAL EXPERIENCE

2021 – until now Senior Researcher The Head of Laboratory of Ecotoxicology of Nature Research Center, Vilnius, Lithuania
2019 – 2021 Senior Researcher and the Head of Sector of Ecological Physiology and Toxicology at the Laboratory of Fish Ecology, Institute of Ecology of Nature Research Center, Vilnius, Lithuania
2018 – 2019 Researcher and the Head of Sector of Ecological Physiology and Toxicology at the Laboratory of Ecology and Physiology of Hydrobionts, Institute of Ecology of Nature Research Center, Vilnius, Lithuania
2010 – 2018 Senior Researcher and the Head of Sector of Ecological Physiology and Toxicology at the Laboratory of Ecology and Physiology of Hydrobionts, Institute of Ecology of Nature Research Center, Vilnius, Lithuania
2008 – 2009 Senior Researcher and the Head of Sector of Ecological Physiology and Toxicology at the Laboratory of Ecology and Physiology of Hydrobionts, Institute of Ecology of Vilnius University, Vilnius, Lithuania
2003 – 2008 Researcher at the Laboratory of Ecology and Physiology of Hydrobionts, Institute of Ecology of Vilnius University, Vilnius, Lithuania
1992 – 2003 Senior Researcher at the Laboratory of Ecology and Physiology of Hydrobionts, Institute of Ecology of Vilnius University, Vilnius, Lithuania
1987 – 1992 Researcher at the Laboratory of Ecology and Physiology of Hydrobionts, Institute of Ecology, Vilnius, Lithuania
1982 – 1987 Younger Researcher at the Laboratory of Ecology and Physiology of Hydrobionts of Institute of Zoology and Parasitology of Lithuanian Academy of Sciences, Vilnius, Lithuania
1979 – 1982 Post-graduate Student of Institute of Zoology and Parasitology of Lithuanian Academy of Sciences.
1978 – 1979 Laboratory Engineer, Younger Researcher at the Laboratory of Ecology and Physiology of Hydrobionts, Institute of Zoology and Parasitology of Lithuanian Academy of Sciences, Vilnius, Lithuania
1976 – 1978 Laboratory Engineer at the Ministry of Food Industry, Vilnius, Lithuania

RESEARCH INTERESTS

Research interests: fish physiology, ecological physiology and embryology, ecotoxicology, and environmental science. Engaged in the research work related to the influence of abiotic factors on artificially reared salmon ontogenesis (development), growth, physiological state, the occurrence of morphological damage, follow the indicators of response physiological and biochemical mechanisms to environmental factors and stress loadings. Participate in complex ecotoxicological studies. Investigate the toxicity of individual pollutants, their mixtures and industrial wastewaters, pollution of natural waters using biological methods, and as a test-object - fish in ontogenesis, carry out the search into specific physiological markers of pollutants of different chemical origin and physiological toxicity mechanisms.

PUBLICATIONS

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

From 1998 until 2022 – 44 publications

1. Marčiulionienė D., Montvydienė D., Svecevičius G., Taraškevičius R., **Kazlauskienė N.**, Jefanova O. **2015**. Heavy metal migration from closed landfill in the water, bottom sediments and macrophytes of neighbouring aquatic ecosystem. *Fresenius Environmental Bulletin*. 24 (10): 3371-3380.
2. Četkauskaitė A., Vosylienė M. Z., **Kazlauskienė N.**, Kalcienė V. **2016**. Waste water and landfill leachate testing: Acute toxicity biotest results evaluation (A review). *Journal of Environmental Engineering and Landscape Management* 24(2), 143-156.
3. Pilinkovskij, A., Vosylienė, M. Z., **Kazlauskienė, N.**, Jakubauskaitė, J. **2017**. Hematological effects of transportation stress on Atlantic sturgeon *Acipenser oxyrinchus* Mitchill L. 1815. *Journal Applied Ichthyology* 33(5), 1021–1023, DOI 10.1111/jai.13402.
4. Stankevičiūtė, M.; Sauliūtė, G.; Svecevičius, G.; **Kazlauskienė, N.**; Baršienė, J. **2017**. Genotoxicity and cytotoxicity response to environmentally relevant complex metal mixture (Zn, Cu, Ni, Cr, Pb, Cd) accumulated in Atlantic salmon (*Salmo salar*). Part I: importance of exposure time and tissue dependence. *Ecotoxicology*, 26(8): 1051–1064, doi: 10.1007/s10646-017-1833-0.
5. Makaras, T., Svecevičius, G., **Kazlauskienė, N.**, Montvydienė, D. **2018**. Rapid detection of sublethal toxicity using locomotor activity of rainbow trout juveniles. *Bull Envi Contam Toxicol* 100(2), 221-227, <https://doi.org/10.1007/s00128-017-2244-x>.
6. Cibulskaitė, Ž.; **Kazlauskienė, N.**; Rotomskis, R.; Kulvietis, V. **2018**. Toxicity of cadmium-based quantum dots and cadmium to rainbow trout *Oncorhynchus mykiss* (Walbaum, 1792) in early development stages. *Fresenius Environmental Bulletin* 27(1), 241-245.
7. Jurgelėnė Ž, **Kazlauskienė N**, Montvydienė D, Kulvietis V, Rotomskis R, Jokšas K. **2018**. Embryotoxicity of Quantum Dots in Rainbow Trout *Oncorhynchus mykiss* During the Hatching Period. *Bull Envi Contam Toxicol* 101(2): 191–196.
8. Rotomskis R, Jurgelėnė Ž, Stankevičius M, Stankevičiūtė M, **Kazlauskienė N**, Jokšas K, Montvydienė D, Kulvietis V, Karabanovas V. **2018**. Interaction of carboxylated CdSe/ZnS quantum dots with fish embryos: Towards understanding of nanoparticles toxicity. *Science of the Total Environment* 635: 1280–1291.
9. Makaras, T., Razumienė, J., Gurevičienė, V., Šakinytė, I., Stankevičiūtė, M., **Kazlauskienė, N.** **2020**. A new approach of stress evaluation in fish using beta-D-Glucose measurement in fish holding-water. *Ecological Indicators*, 109: art. no. 105829.
10. Makaras, T., Montvydienė, D., **Kazlauskienė, N.**, Stankevičiūtė, M., Raudonytė-Svirbutavičienė, E. **2020**. Juvenile fish responses to sublethal leachate concentrations:

comparison of sensitivity of different behavioral endpoints. *Environmental Science and Pollution Research*. 27 (5): 4876–4890.

11. Montvydienė, D., Šulčius, S., Jurgelėnė, Ž., Makaras, T., Kalčienė, V., Taraškevičius, R., Kazlauskas, M., **Kazlauskienė, N.** 2020. Contrasting ecotoxic effects of landfill leachate and cyanobacterial biomass on aquatic organisms. *Water Air and Soil Pollution*, 231 (7): art. no. 323JCR/2019.
12. Montvydienė, D., Jagminas, A., Jurgelėnė, Ž., Kazlauskas, M., Butrimienė, R., Žukauskaitė, Z., **Kazlauskienė, N.** 2021, Toxicological effects of different-sized Co-Fe (CoFe₂O₄) nanoparticles on *Lepidium sativum* L.: towards better understanding of nanophytotoxicity. *Ecotoxicology*. 30(2):277-291. DOI: [10.1007/s10646-020-02340-y](https://doi.org/10.1007/s10646-020-02340-y).
13. Jurgelėnė Ž., Montvydienė D., Stakėnas S., Poviliūnas J., Račkauskas S., Taraškevičius R., Skrodenytė-Arbačiauskienė V., **Kazlauskienė N.** 2022. Impact Evaluation of Marking *Salmo trutta* with Alizarin Red S Produced by Different Manufacturers. *Aquatic Toxicology* **242**, 106051 <https://doi.org/10.1016/j.aquatox.2021.106051> Q2.
14. Butrimienė R., Kalnaitytė A., Januškaitė E., Bagdonas S., Jurgelėnė Ž., Butkauskas D., Virbickas T., Montvydienė D., **Kazlauskienė N.** and Skrodenytė-Arbačiauskienė V. 2022. Interactions of semiconductor Cd-based quantum dots and Cd²⁺ with gut bacteria isolated from wild *Salmo trutta* fry. *PeerJ*, 10, 1-22. <https://doi.org/10.7717/peerj.14025/supp-6>.
15. Kazlauskas M., Jurgelėnė Ž., Šemčuk S., Jokšas K., **Kazlauskienė N.**, Montvydienė D. 2022. Effect of graphene oxide on the uptake, translocation and toxicity of metal mixture to *Lepidium sativum* l. plants: mitigation of metal phytotoxicity due to nanosorption. *Chemosphere* 312(1), 137221 <https://doi.org/10.1016/j.chemosphere.2022.137221>

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

From 2003 until 2022 – 38 publications

1. Cibulskaitė, Ž., **Kazlauskienė, N.**, Kulvietis, V. 2015. Sublethal toxicity of quantum dots and heavy metals to rainbow trout (*Oncorhynchus mykiss*) in early ontogenesis. Proceedings of the 18th Conference for Junior Researchers „Science – Future of Lithuania 18-osios Lietuvos jaunųjų mokslininkų konferencijos „Mokslas – Lietuvos ateitis“ teminė konferencija, 9 April 2015 Vilnius, Lithuania, 7 (4): 31–36.
2. Cibulskaitė, Ž.^{1*}, **Kazlauskienė, N.**¹, Rotomskis, R.², Kulvietis, V.² 2015. Toxicity of Quantum Dots and Cadmium to Rainbow Trout (*Oncorhynchus mykiss*) in early ontogenesis. Abstracts of XV European Congress of Ichthyology, 07 Sep 2015, Porto, Portugal. *Front. Mar. Sci.* doi: 10.3389/conf.FMARS.2015.03.00195.
3. **Kazlauskienė, N.**¹, Rotomskis, R.², Kulvietis, V.², Cibulskaitė, Ž.¹ 2015. Embryotoxicity of Quantum Dots in Rainbow Trout *Oncorhynchus mykiss* During Hatching Period. Abstracts of XV European Congress of Ichthyology, 07 Sep 2015, Porto, Portugal. *Front. Mar. Sci.* doi: 10.3389/conf.fmars.2015.03.00110.
4. Cibulskaitė, Ž., Stankevičiūtė, M., **Kazlauskienė, N.**, Baršienė, J., Kulvietis, V., Rotomskis R. 2016. Long-term toxicity and geno-cytotoxicity of quantum dots to rainbow trout *Oncorhynchus mykiss* embryos. *13th International Conference on Protection and Restoration of the Environment*. Editors: A. Kungolos, C. Christodoulatos, A. Koutsospyros, C. Emmanouil, C. Laspidou, Z. Mallios, D. Dermatas ISBN: 978-960-6865-94-7. 460-470.
5. **Kazlauskienė, N.**, Cibulskaitė, Ž., Stankevičiūtė, M., Baršienė, J. 2016. Experimental studies on the toxicity and geno-cytotoxicity effects of cadmium in embryos and larvae of rainbow trout, *Oncorhynchus mykiss*. *13th International Conference on Protection and Restoration of the Environment*. Editors: A. Kungolos, C. Christodoulatos, A. Koutsospyros, C. Emmanouil, C. Laspidou, Z. Mallios, D. Dermatas ISBN: 978-960-6865-94-7. 449-459.
6. **Kazlauskienė, N.**, Cibulskaitė, Ž., Stankevičiūtė, M., Baršienė, J. 2016. Experimental studies on the toxicity and geno-cytotoxicity effects of cadmium in embryos and larvae of rainbow

- trout, *Oncorhynchus mykiss*. *13th International Conference on Protection and Restoration of the Environment*. Editors: A. Kungolos, C. Christodoulatos, A. Koutsospyros, C. Emmanouil, C. Laspidou, Z. Mallios, D. Dermatas ISBN: 978-960-6865-94-7. 449-459.
7. Cibulskaitė Ž.; **Kazlauskienė, N.**; Jokšas, K.; Kulvietis, V.; Makaras, T.; Stankevičius M.; Rotomskis; R. **2017**. Accumulation of Cd in the Early Stages of the Development of Rainbow Trout *Oncorhynchus mykiss* Exposed to Cd Based Quantum Dots and Cd Salt. In: (D. Cygas and K.D. Froehner, eds.) 10th International Conference “Environmental Engineering” Vilnius Gediminas Technical University, Lithuania, 27-28April 2017. DOI: <https://doi.org/10.3846/enviro.2017.014>.
 8. Montvydienė D., Makaras T., **Kazlauskienė N.**, Cibulskaitė Ž., Šulčius S., **2017**. Ecotoxicity assessment of multicomponent mixtures of different origin (landfill leachate and biomass of harmful algae bloom) using three aquatic organisms. *Book of Proceedings Sixth International Conference on Environmental Management, Engineering and Economics (CEMEPE 2017) and SECOTOX Conference, Thessaloniki, Greece, June 25-30, 2017*. Grafima Publications, Eds.: A. Kungolos, C. Laspidou, K. Aravonssis, P. Samaras, K. W. Schramm, G. Marnellos, 114-124.
 9. Jurgelėnė, Ž, Stankevičiūtė, M., **Kazlauskienė, N.**, Montvydienė, D., Baršienė, J., Jokšas, K., Markuckas, A. **2018**. Investigation of quantum dots toxicity, genotoxicity, cytotoxicity, and uptake in Rainbow trout *Oncorhynchus mykiss* larvae. XIV international conference Protection and Restoration of the Environment, July 3-6, 2018, Thessaloniki, Greece. Full paper.
 10. Kazlauskienė N., Jurgelėnė Ž., Rotomskis R. **2019**. Mechanisms of the impact of quantum dots to fish in early development stages. Proceedings of the Seventh International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE 2019) and SECOTOX Conference Mykonos island, Greece, 25–33.
 11. Makaras T., Montvydienė D., Kazlauskienė N. **2019**. Behavioral responses of European perch (*Perca fluviatilis*) and rainbow trout (*Oncorhynchus mykiss*) to exposure of complex (Pb, Zn, Cu, Cd, Ni and Cr) metal mixture. Proceedings of the Seventh International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE 2019) and SECOTOX Conference Mykonos island, Greece, 90–97.
 12. Kazlauskienė N., Jurgelėnė Ž., Rotomskis R. **2019**. Mechanisms of the impact of quantum dots to fish in early development stages. Proceedings of the Seventh International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE 2019) and SECOTOX Conference Mykonos island, Greece, 25–33.
 13. Makaras T., Montvydienė D., Kazlauskienė N. **2019**. Behavioral responses of European perch (*Perca fluviatilis*) and rainbow trout (*Oncorhynchus mykiss*) to exposure of complex (Pb, Zn, Cu, Cd, Ni and Cr) metal mixture. Proceedings of the Seventh International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE 2019) and SECOTOX Conference Mykonos island, Greece, 90–97.
 14. Jurgelėnė, Ž., Butrimienė, R., Kazlauskienė, N., Montvydienė, D., Skrodenytė-Arbačiauskienė, V., Stankevičius, M., Rotomskis, R. **2020**, Investigations of QDs impact on fish trophic ontogenesis. Proceedings of Conference Protection and Restoration of the Environment XV July 7-10, 2020, Kalamata, Greece <http://www.preXV.civil.upatras.gr>.
 15. Kazlauskas, M., Montvydienė, D., Jurgelėnė, Ž., Kazlauskienė, N. **2020**. Toxicity assessment of different size cobalt ferrite nanoparticles on *Lepidium sativum* L. Proceedings of conference Protection and Restoration of the Environment XV July 7-10, 2020, Kalamata, Greece <http://www.preXV.civil.upatras.gr>.
 16. Jurgelėnė Ž, Poviliūnas J, Montvydienė D, Taraškevičius R, Stakėnas S, Kazlauskienė N. **2020**. Sensitivity of sea trout *Salmo trutta* at early life stages to alizarin. Proceedings of conference Protection and Restoration of the Environment XV July 7-10, 2020, pp. 157. <http://www.preXV.civil.upatras.gr>.
 17. Kazlauskas, M., Jurgelėnė, Ž., Butrimienė, R., Kazlauskienė, N., Montvydienė, D. 2022. Risk assessment of nano- and micro-sized materials for terrestrial and aquatic ecosystems. *Book of Proceedings Ninth International Conference on Environmental Management, Engineering,*

Planning and Economics (CEMEPE 2022) and SECOTOX, Mykonos island, Greece, June 3 to 9. 2022, pp. 239-247 ISBN: 978-618-5494-97-1

18. Butrimienė R., Kalnaitytė A., Januškaitė E., Bagdonas S., Jurgelėnė Ž., Butkauskas D., Virbickas T., Montvydienė D., Kazlauskienė N. and Skrodenytė-Arbačiauskienė V. 2022. An *in vitro* assay to assess the antibacterial efficacy of Cd-based, Cd free quantum dots and Cd²⁺ on gut bacteria from wild *Salmo trutta* fry. *Book of Proceedings 9th International Conference on Environmental Management, Engineering, Planning & Economics (CEMEPE 2022) and SECOTOX, Mykonos, Greece, June 5-9, 2022*, pp. 258-267 ISBN: 978-618-5494-97-1.

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

1. Kesminas, V., Repečka, R., **Kazlauskienė, N.**, Virbickas, T., Stakėnas, S., Kontautas, A., Greičiūnas, V., Ložys, L., Bogdevičius, R. **2000**. Knyga *Baltijos lašiša Lietuvoje*. V., Aldorija, 111 p.
2. **Kazlauskienė N.**, Vosylienė M.Z., Budrys L. **2003**. Naftos ir jos produktų poveikis vandens organizmams. Kn.: *Aplinkos biologinis valymas*. Red. K. Jankevičius, R. Liužinas, Vilnius, Apyaušris, ISBN 9955-609-00-1, 27-55.
3. **Kazlauskienė N.**, Vosylienė M.Z., Repečka R., Svecėvičius G., Ložys L. **2003**. Naftos išsiliejimo Baltijos jūros priekrantėje poveikio žuvims įvertinimas. Kn.: *Baltijos jūros aplinkos būklė*. Red. A. Stankevičius, Kaunas, Aušra, 127-134.
4. **Kazlauskienė N.**, Skrodenytė – Arbačiauskienė V., Leliūna E. **2008**. Lašišos *Salmo salar* L. veisimo biotechnika. Kn.: *Žuvų ir vėžių veisimo biotechnika ir išteklių atkūrimas*. Red. Serpunin G., Gerulaitis A., Vilnius, UAB Inforastras, LHD, 17-33.
5. **Kazlauskienė N.**, Skrodenytė – Arbačiauskienė V., Leliūna E. **2008**. Šlakio *Salmo trutta trutta* L. veisimo biotechnika. Kn.: *Žuvų ir vėžių veisimo biotechnika ir išteklių atkūrimas*. Red. Serpunin G., Gerulaitis A., Vilnius, UAB Inforastras, LHD, 34-46.
6. **Казлаускене Н.**, Скродените-Арбачаускене В., Лялюна Э. **2008**. Искусственное воспроизводство лосося *Salmo salar* L. В кн.: *Биотехника искусственного воспроизводства рыб, раков и сохранение запасов промысловых рыб*. Под ред. Серпунина Г., Гярулайтиса А., Вильнюс, UAB Inforastras, LHD, 2008, 17-38.
7. **Казлаускене Н.**, Скродените-Арбачаускене В., Лялюна Э. **2008**. Искусственное воспроизводство кумжи *Salmo trutta trutta* L. В кн.: *Биотехника искусственного воспроизводства рыб, раков и сохранение запасов промысловых рыб*. Под ред. Серпунина Г., Гярулайтиса А., UAB Inforastras, LHD, Вильнюс, 2008, 39-53.
8. **Kazlauskienė, N.**, Vosylienė, M. Z., Ratkelytė, E. **2008**. The comparative study of the overall effect of crude oil on fish in early stages of development. In: Hlavinek P., Bonacci O., Marsalek J. Mahrikova I. (eds) *Dangerous Pollutants (Xenobiotics) in Urban Water Cycle*. Springer, 307-316.
9. Vosylienė, M.Z., **Kazlauskienė, N.**, Milukaitė A. **2008**. Evaluation of Vilnius city (Lithuania) snow pollution toxicity by use of fish biotests. In: Hlavinek P., Bonacci O., Marsalek J. Mahrikova I. (eds) *Dangerous Pollutants (Xenobiotics) in Urban Water Cycle*. Springer, 317-324.
10. **Kazlauskienė, N.**, Vosylienė, M.Z., Taujanskis, E. **2011**. The Study of toxic effects of wastewaters discharged from the Vilnius treatment plant on fish. In: P.Hlavinek et al. (eds.). *Advanced Water Supply and Wastewater Treatment: A Road to Safer Society and Environment*. Springer Science+Business Media B.V., 267-277.

PARTICIPATION IN INTERNATIONAL AND NATIONAL SCIENTIFIC PROGRAMMES AND PROJECTS

INTERNATIONAL PROJECTS

- 2020 – 2022 **Partner and representative for Lithuania** International project: „Smart water management for sustainable society, framework for organisational decision-making process in water reuse for smart cities“ (Smart-Waterdomain)
- 2006–2009 **Participation** In International program COST 636 “Xenobiotics in urban water cycle”
- 2006 – 2008 **Participation** In International Interreg/Tacis project "Lithuanian-Russian border water fish recovery conditions scientific-technical development"
- 2004 – 2005 **Leader** UNDP GEF SPP project "Restoring and Protecting Salmonid Fish Resources in Neris-Vilnia and Šventoji-Širvinta Rivers with Local Community Participation".

NATIONAL PROJECTS

- 2019 – 2022 **Leader** “Fish as trophic ontogenesis model in transfer of nanoparticles within water trophic chains in climate change context” funded by Research Council of Lithuania
- 2015 – 2018 **Leader** „Nanoparticle and heavy metal toxicity mechanisms in fish during ontogenesis“ funded by Research Council of Lithuania
- 2012 – 2014 **Leader** "The investigation into the peculiarities of the sublethal effects of priority heavy metals
- 2010 – 2011 **Leader** "Persistent pollutants in aquatic ecosystem: complex studies and modeling” (funded by Research Council of Lithuania
- 2009 **Leader** The experimental investigation of Nevėžis River infected and control perch functional (bacteriological, morphological, immunological) state” (funded by Ministry of Environment of Lithuania)
- 2008 – 2009 **Leader** “The evaluation of juvenile salmonid reared in Žeimena hatchery and released into natural waters survival under natural conditions" (funded by Ministry of Agriculture of Lithuania)

INTERNSHIP AND TRAINING

- 2010 NATO Extended Research Workshop on Urban Wastewater Toxicity Brno, Czech Republic
- 2007 NATO Extended Research Workshop on Urban Wastewater Toxicity Lviv, Ukraine
- 2004 UNDP GEF SPP project preparation courses Zapiškyje, Lithuania
- 2003 In Salmonid embryology and histology at the University of Szczecin, Poland
- 2001 In Salmonid embryology and histology at the University of Szczecin, Poland
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PARTICIPATION IN SCIENTIFIC CONFERENCES

International scientific conferences:

1. Kazlauskas M., Butrimienė R., Montvydienė D., Jurgelėnė Ž., Jagminas A., **Kazlauskienė N.** 2020. Impact of magnetic nanoparticles (CoFe₂O₄, MnFe₂O₄ and Fe₃O₄) on *Lepidium sativum* L. Abstract book. Conference of Natural and Life sciences COINS, Vilnius 2020 kovo mėn. (stendinis pranešimas)
2. Montvydienė D., Jurgelėnė Ž., Kazlauskas M., Butrimienė R., Šemčiuk S., Makaras T., Jokšas K., **Kazlauskienė N.** 2020. The impact of graphene oxide nanostructures on phytotoxicity of metal mixtures and metal uptake in *Lepidium sativum*. Abstract book. Sixth International Symposium on Green Chemistry, Sustainable Development and Circular Economy Thessaloniki, Greece, from September 20 to 23, 2020, Žodinis pranešimas (PPT online).
3. Jurgelėnė Ž., Montvydienė D., Butrimienė R., Kazlauskas M., Šemčiuk S., Makaras T., Jokšas K., **Kazlauskienė N.** 2020. Influence of graphene oxide nanostructures on mitigation of metals toxicity to fish at early development Abstract book. Sixth International Symposium on Green Chemistry, Sustainable Development and Circular Economy Thessaloniki, Greece, from September 20 to 23, 2020, Žodinis pranešimas (PPT online).
1. Jurgelėnė Ž., Poviliūnas J., Montvydienė D., Taraškevičius R., Stakėnas S., **Kazlauskienė N.** 2020 Sensitivity of sea trout *Salmo trutta* at early life stages to alizarin. Proceedings of conference Protecton and Restoraton of the Environment XV July 7-10, 2020, Kalamata, Greece, pp. 157. <http://www.preXV.civil.upatras.gr>
2. Jurgelėnė Ž., Butrimienė R., **Kazlauskienė N.**, Montvydienė D., SkrodenytėArbačiauskienė V., Stankevičius M., Rotomskis R. 2020. Investigations of QDs impact on fish trophic ontogenesis. Proceedings of conference Protecton and Restoraton of the Environment XV July 7-10, 2020, Kalamata, Greece, pp. 667. <http://www.preXV.civil.upatras.gr>
3. Kazlauskas M., Montvydienė D., Jurgelėnė Ž., **Kazlauskienė N.** 2020. Toxicity assessment of different size cobalt ferrite nanoparticles on *Lepidium sativum* L. Proceedings of conference Protecton and Restoraton of the Environment XV July 7-10, 2020, Kalamata, Greece, pp. 670. <http://www.preXV.civil.upatras.gr>
4. Kazlauskas, M., Jurgelėnė, Ž., Butrimienė, R., **Kazlauskienė, N.**, Montvydienė, D. 2022. Risk assessment of nano- and micro-sized materials for terrestrial and aquatic ecosystems. *Book of Proceedings* Ninth International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE 2022) and SECOTOX, Mykonos island, Greece, June 3 to 9. 2022, pp. 239-247 ISBN: 978-618-5494-97-1
5. Butrimienė R., Kalnaitytė A., Januškaitė E., Bagdonas S., Jurgelėnė Ž., Butkauskas D., Virbickas T., Montvydienė D., **Kazlauskienė N.** and Skrodenytė-Arbačiauskienė V. 2022. An *in vitro* assay to assess the antibacterial efficacy of Cd-based, Cd free quantum dots and Cd²⁺ on gut bacteria from wild *Salmo trutta* fry. *Book of Proceedings* 9th International Conference on Environmental Management, Engineering, Planning & Economics (CEMEPE 2022) and SECOTOX, Mykonos, Greece, June 5-9, 2022, pp. 258-267 ISBN: 978-618-5494-97-1.
6. Kalnaitytė A., Montvydienė D., Januškaitė E., Jurgelėnė Ž., Kazlauskas M., **Kazlauskienė N.**, Bagdonas S. 2022. Phototoxicity of CdSe/ZnS-COOH quantum dots with microalgae cells: spectroscopic and microscopic studies, 3rd Baltic Biophysics Conference, October 6-7th, 2022 in the Center for Physical Sciences and Technology, Saulėtekio av. 3, Vilnius. P. 101 <https://bbc.lbfd.lt/>
7. Butrimienė R., Jurgelėnė Ž., Montvydienė D., Jokšas K., Šemčuk S., **Kazlauskienė N.** 2022. Influence of graphene oxide on the accumulation of metals in *Salmo trutta* at early life stages. 3rd Baltic Biophysics Conference. October 6-7th, 2022 in the Center for Physical Sciences and Technology, Saulėtekio av. 3, Vilnius, Lithuania. P. 92 <https://bbc.lbfd.lt/>
8. Kazlauskas M., Jurgelėnė Ž., **Kazlauskienė N.**, Kalnaitytė A., Bagdonas S., Montvydienė D. 2022. Effect of quantum dots on green algae *Scenedesmus quadricauda* in various media. 3rd

Baltic Biophysics Conference. October 6-7th, 2022 in the Center for Physical Sciences and Technology, Saulėtekio av. 3, Vilnius, Lithuania. P. 88 <https://bbc.lbfd.lt/>

- Jurgelėnė Ž., Morkvėnas A., **Kazlauskienė N.**, Montvydienė D., Rotomskis R., Karabanovas V. 2022. The bioaccumulation of nanoparticles during fish development: towards a deeper understanding of potential nanotoxicity. 3rd Baltic Biophysics Conference. October 6-7th, 2022 in the Center for Physical Sciences and Technology, Saulėtekio av. 3, Vilnius, Lithuania. P. 28 <https://bbc.lbfd.lt/>

National scientific conferences:

- Morkvėnas A., Jurgelėnė Ž., Šemčiuk S., **Kazlauskienė N.**, Karabanovas V. 2021. Bioaccumulation of graphene oxide nanostructures in *Salmo trutta* at early development stages. Open Readings 2021, March 16-19, 2021, Vilnius, Lithuania Abstract book. P5-18 P. 336. https://www.openreadings.eu/wp-content/uploads/2021/03/Abstract_book_2021S.pdf
- Kazlauskas M., Montvydienė D., Jurgelėnė Ž., Šemčuk S., Jokšas K., **Kazlauskienė N.** 2021. Effects of graphene oxide nanostructures and metal mixtures on *Lepidium sativum*. Open Readings 2021, March 16-19, 2021, Vilnius, Lithuania Abstract book. P2-40 P. 209 https://www.openreadings.eu/wp-content/uploads/2021/03/Abstract_book_2021S.pdf
- Butrimienė, R., Skrodenytė-Arbačiauskienė, V., Montvydienė, D., Jurgelėnė, Ž., Butkauskas, D., **Kazlauskienė N.** 2021. Effects of Cd based, Cd free quantum dots and Cd²⁺ on isolated Gut microbiota of *Salmo trutta* fry. Abstract book. 64th International Conference Open Readings 2021 March 16-19, Vilnius Lithuania. Open Readings 2021, March 16-19, 2021, Vilnius, Lithuania Abstract book. 04-5 P. 53. https://www.openreadings.eu/wp-content/uploads/2021/03/Abstract_book_2021S.pdf (oral presentation)

PARTICIPATION IN THE STUDY PROCESS

Supervision of PhD students:

Field of science: Natural sciences (N000) Ecology and environmental studies (N 012)

| | | |
|-----------------------|---|---|
| Živilė | The topic of the dissertation „Toxicological potential of semiconductor nanoparticles and their impact mechanisms to fish in early development ” | 2014 – 2018 |
| Cibulskaitė-Jurgelėnė | | Defense of the dissertation was held 17-12-2018 |
| Tomas Makaras | The topic of the dissertation „The effects of multicomponent chemical mixtures on behavioural, physiological and biochemical parameters of different fish species“ | 2015 – 2019 |
| | | Defense of the dissertation was held 18-12-2019 |
| Renata Butrimienė | The topic of the dissertation Disertacijos tema „Fish as trophic ontogenesis model in transfer of nanoparticles within water trophic chains in climate change context“. | 2019 – 2023 |

Supervision of bachelor and master students:

| | | |
|------------------------------|--|------------------------------------|
| Member of Committee Chairman | Doctoral Studies Committee Zoology (05 B). of the VU and the of the of Nature Research Center Chairman of defense committee of Vilnius University, Faculty of Natural Sciences, Bachelor and M.Sc. thesis in Ecology and Environmental Sciences | From 2015 until now 2011 – 2018 |
| Supervision | VU, VGTU, VDU studentų bakalauro ir magistro darbams | 1998 – 2018 |

OTHERS**Awards**

2007 Laureate of Lithuanian Science Award with Co-authors for the work cycle "The use of biological tests in aquatic toxicity assessment in 1986-2006"
