

Živilė Jurgelėnė

CONTACT INFORMATION

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EDUCATION AND ACADEMIC DEGREE

2014 – 2018 PhD student in Ecology and Environmental science (03 B, Biomedical sciences) (Vilnius University and Nature Research centre).
Doctoral thesis: “*Toxicological potential of semiconductor nanoparticles and their impact mechanisms to fish in early development*“, supervisor dr. Nijolė Kazlauskienė, consultant prof. dr. Ričardas Rotomskis
Field of research: nanoecotoxicology; embryotoxicology; fish physiology; environmental science and environmental protection.

2012 – 2014 Vilnius University, Master in Ecology (CUM LAUDE).
Master thesis: “*The quantitative and qualitative sedimentation parameters in beaver impoundments*”.
The work was carried out at the Faculty of Natural Sciences.
Field of research: environmental studies and environmental protection; biology; assessment of impact of beavers on ecosystems.

2008 – 2012 Vilnius University, Bachelor in Ecology and Environmental studies.
Bachelor thesis: “*The sedimentation estimation in beaver impoundments*”
The work was carried out at the Faculty of Natural Sciences.
Field of research: environmental studies and environmental protection; biology; assessment of impact of beavers on ecosystems.

1996 – 2008 Secondary education
Vilnius Vytautas Magnus Gymnasium.

PROFESSIONAL EXPERIENCE

2022 07 – 2023 06 **Senior researcher** (postdoctoral internship)
Biomedical Physics Laboratory, National Cancer Institute

2021 07 – current **Researcher**
Laboratory of Ecotoxicology, Institute of Ecology

2019 02 – 2021 07 **Researcher**
Laboratory of fish ecology, Institute of Ecology

2018 11 – 2019 02 **Senior specialist**
Hydrobiont Ecology and Physiology Laboratory, Institute of Ecology

2017 11 – 2018 11 **Junior researcher**
Hydrobiont Ecology and Physiology Laboratory, Institute of Ecology

2014 09 – 2018 10 **PhD student**
Hydrobiont Ecology and Physiology Laboratory, Institute of Ecology

2015 01 – 2017 11 **Biologist**
Hydrobiont Ecology and Physiology Laboratory, Institute of Ecology

RESEARCH INTERESTS

Field of research: nano- and micro-sized derivatives, metal mixtures, (micro-) nanoplastics, pharmaceuticals, wastewater, etc. testing of newly developed products; investigation of these toxicans interactions, accumulation mechanisms and effects on crustaceans (*Daphia magna*, *Ostracoda*...) and fish (*Danio rerio*, *Salmo trutta fario*, *Salmo trutta trutta*, *Oncorhynchus mykiss*, *Salmo salar*, *Esox lucius*, *Anguilla anguilla*, *Acipenser oxyrinchus*...) in all stages of their development using complex of physicochemical and biological evaluation methods; sustainable acute and long-term studies; application of various statistical and toxicity methods (morphophysiological, cardiorespiratory, behavioral, vitality, blood analysis, etc.); pollution risk assessment; search and analysis of specific patterns of grouping and regulation of nanoparticles.

PUBLICATIONS

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

1. Šulčius, S., Montvydienė, D., Mazur-Marzec, H., Kasperovičienė, J., Rulevičius, R., Cibulskaitė, Ž. **2017**. The profound effect of harmful cyanobacterial blooms: From food-web and management perspectives. *Science of the Total Environment*. 609: 1443–1450.
2. 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.
3. Cibulskaitė, Ž., Kazlauskienė, N., Rotomskis, R., Kulvietis, V. **2018**. Toxicity of quantum dots and cadmium to rainbow trout *Oncorhynchus mykiss* (Walbaum, 1792) in early ontogenesis. *Fresenius Environmental Bulletin*. 27(1): 241–245.
4. 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. *Bulletin of Environmental Contamination and Toxicology*. 101(2): 191–196.
5. Jurgelėnė, Ž., Stankevičiūtė, M., Kazlauskienė, N., Baršienė, J., Jokšas, K., Markuckas, A. **2019**. Toxicological Potential of Cadmium Impact on Rainbow Trout (*Oncorhynchus mykiss*) in Early Development. *Bulletin of Environmental Contamination and Toxicology*. 103: 544–550.
6. Montvydienė, D., Šulčius, S., Jurgelėnė, Ž., Makaras, T., Kalcienė, V., Taraškevičius, R., Kazlauskas, M., Kazlauskienė, N. **2020**. Contrasting Ecotoxic Effects of Landfill Leachate and Cyanobacterial Biomass on Aquatic Organisms. *Water, Air, & Soil Pollution*. 231:323.
7. Stankevičiūtė, M., Makaras, T., Pažusienė, J., Čapukoitienė, B., Sauliūtė, G., Jurgelėnė, Ž., Raudonytė-Svirbutavičienė, E., Jokšas, K. **2021**. Biological effects of multimetal (Ni, Cd, Pb, Cu, Cr, Zn) mixture in rainbow trout *Oncorhynchus mykiss*: Laboratory exposure and recovery study. *Ecotoxicology and Environmental Safety*. 216: 112202.
8. Jurgelėnė, Ž., Stankevičius, M., Stankevičiūtė, M., Kazlauskienė, N., Katauskis, P., Ivanauskas, F., Karabanovas, V., Rotomskis, R. **2021**. Imaging of the internal chorion structure of rainbow trout *Oncorhynchus mykiss* live embryos and the distribution of quantum dots therein: Towards a deeper understanding of potential nanotoxicity. *Science of the Total Environment*. 785: 147302. <https://doi.org/10.1016/j.scitotenv.2021.147302>
9. 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*, DOI: 10.1007/s10646-020-02340-y.
10. 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.
11. **Jurgelėnė, Ž.**, Montvydienė, D., Šemčuk, S., Stankevičiūtė, M., Sauliūtė, G., Pažusienė, J., Morkvėnas, A., Butrimienė, R., Jokšas, K., Pakštas, V., Kazlauskienė, N., Karabanovas, V. **2022**. The impact of co-treatment with graphene oxide and metal mixture on *Salmo trutta* at early development stages: the sorption capacity and potential toxicity. *Science of the Total Environment*, after review, *Science of the Total Environment*. 838, 4, 156525, 1-18. DOI: 10.1016/j.scitotenv.2022.156525.
 12. Butrimienė, R., Kalnaitytė, A., Januškaitė, E., Bagdonas, S., **Jurgelėnė, Ž.**, Butkauskas, D., Virbickas, T., Montvydienė, D., Kazlauskienė, N., Skrodenytė Arbačiauskienė, V. **2022**. Interactions of semiconductor Cd-based quantum dots and Cd²⁺ with gut bacteria isolated from wild *Salmo trutta* fry // PeerJ. London: PeerJ. 10, e14025, 1-22. DOI: 10.7717/peerj.14025/supp-6.
 13. Kazlauskas, M., **Jurgelėnė, Ž.**, Šemčuk, S., Jokšas, K., Kazlauskienė, N., Montvydienė, D. **2023**. 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 (2023) 137221. <https://doi.org/10.1016/j.chemosphere.2022.137221>

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

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“, Environmental protection engineering. Vilnius, Lithuania, 31–37.
2. **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. Proceedings of the 13th International Conference on Protection and Restoration of the Environment. Mykonos island, Greece, 460–470. ISBN: 978-960-6865-94-7.
3. 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*. Proceedings of the 13th International Conference on Protection and Restoration of the Environment. Mykonos island, Greece, 449–459. ISBN 978-960-6865-94-7.
4. **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. 10th International Conference. Vilnius Gediminas Technical University, Vilnius, Lithuania, eISSN 2029-7092 / eISBN 978-609-476-044-0; doi.org/10.3846/enviro.2017.014.
5. 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. CEMEPE proceedings of 6th International Conference on Environmental Management, Engineering, Planning & Economics. Thessaloniki, Greece, 114–123. ISBN: 978-618-5271-15-2.
6. **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. Proceedings of the 14th International Conference on Protection and Restoration of the Environment. Thessaloniki, Greece, 775–806. ISBN: 978-960-99922-4-4.

7. Stankevičiūtė, M., **Jurgelėnė, Ž.**, Greiciūnaitė, J., Markovskaja, S., Kazlauskienė, N., Baršienė, J. 2018. Geno-, cytotoxicity and toxicity induced by *Saprolegnia parasitica* and cadmium alone and in combination to *Oncorhynchus mykiss*. Proceedings of the 14th International Conference on Protection and Restoration of the Environment. Thessaloniki, Greece, 795–804. ISBN: 978-960-99922-4-4.
8. 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. ISBN: 978-618-5271-73-2.
9. **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 the 15th International Conference on Protection and Restoration of the Environment Kalamata, Greece, 667.
10. Kazlauskas, M., Montvydienė, D., **Jurgelėnė, Ž.**, Kazlauskienė N. 2020. Toxicity assessment of different size cobalt ferrite nanoparticles on *Lepidium sativum* L. Proceedings of the 15th International Conference on Protection and Restoration of the Environment Kalamata, Greece, 677.
11. **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 the 15th International Conference on Protection and Restoration of the Environment Kalamata, Greece, 157.
12. Kazlauskas, M., **Jurgelėnė, Ž.**, Butrimienė R., Kazlauskienė, N., Montvydienė, D. 2022. Risk assessment of nano- and micro-sized materials for terrestrial and aquatic ecosystems. Proceedings of the Ninth International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE 2022) and SECOTOX Conference Mykonos island, Greece, P-153.
13. Butrimienė, R., Kalnaitytė, A., Januškaitė, E., Bagdonas, S., **Jurgelėnė, Ž.**, Butkauskas, D., Virbickas, T., Montvydienė, D., Kazlauskienė, N., 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. Proceedings of the Ninth International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE 2022) and SECOTOX Conference Mykonos island, Greece, P-153.
14. **Jurgelėnė, Ž.**, Montvydienė, D., Šemčuk, S., Stankevičiūtė, M., Sauliutė, G., Pažusienė, J., Morkvėnas, A., Butrimienė, R., Kazlauskas, M., Kazlauskienė, N., Karabanovas, V. 2022. Acute toxicity assessment of graphene oxide nanoderivatives on *Salmo trutta* at early development stages. Proceedings of the 16th International Conference on Protection and Restoration of the Environment Kalamata, Greece, 3763A.
15. Stankevičiūtė, M., **Jurgelėnė, Ž.**, Pažusienė, J., Valskienė, R., Sauliutė, G., Markovskaja S., 2022. Bio-effects of saprolegniasis in *Salmo trutta* larvae. Proceedings of the 16th International Conference on Protection and Restoration of the Environment Kalamata, Greece, 3756A.

PARTICIPATION IN INTERNATIONAL AND NATIONAL SCIENTIFIC PROGRAMMES AND PROJECTS

- 2021 – 2025 **project manager** for work with experimental animals „Investigations of ecotoxicological potential of chemical, physical and biological factors and their complex in fish“ (Nr. G2-168).
- 2022 – 2025 **non-principal promoter** in young scientists project supported by Research Council of Lithuania „Padangų gaisrų ir mikro/nano-dalelių rizikos vandens aplinkai vertinimas“ (P-MIP-22-297, supervisor dr. T. Makaras)

- 2021 – 2024 **principal promoter** in young scientists project supported by Research Council of Lithuania „The impact of the interaction between parasites and pollution on aquatic organisms“ (P-MIP-21-229, supervisor dr. M. Stankevičiūtė)
- 2020 – 2023 **principal promoter** Framework for Organisational Decision-Making Process in Water Reuse for Smart Cities. „Joint Call on Smart water management for sustainable society“, EIG Concern-Japan, Serena Caucci (01DR20007A, supervisor in Lithuania dr. N. Kazlauskienė)
- 2021 – 2023 **principal promoter** in project supported by EU „Design of functional fish feed additives from wild algal biomass“ (01.2.2-MITA-K-702-10-0008, supervisor prof. dr. Nijolė Savickienė)
- 2021 – 2023 **post-doctoral fellowship** „The impact of nanoderivatives on fish in early development stages“ (09.3.3-LMT-K-712-23-0060, supervisor prof. dr. Vitalijus Karabanovas (National Cancer Institute).
- 2020 – 2022 **principal promoter** in project supported by Research Council of Lithuania „Fish as a model of trophic ontogenesis in the study of nanoparticles transport through aquatic food chain in the context of climate change“ (MIP-S-20-22, supervisor dr. N. Kazlauskienė)
- 2017 – 2020 **project manager** for work with experimental animals „Nanoparticle and metal-based mixtures toxicity mechanisms in fish during ontogenesis“ (G2-69)
- 2017 – 2020 **principal promoter** in young scientists project supported by Research Council of Lithuania „Assessment of toxicity of different stressor types to aquatic organisms“. Supported by Research Council of Lithuania (S-MIP-17-10, supervisor dr. L. Butrimavičienė)
- 2015 – 2018 **principal promoter** in project supported by Research Council of Lithuania „Nanoparticle and heavy metal toxicity mechanisms in fish during ontogenesis“. Supported by Research Council of Lithuania (MIP-108/2015, supervisor dr. N. Kazlauskienė)

INTERNSHIP AND TRAINING

- 2022 m. 06-07 The principles and methods for rearing, breeding and conducting experiments with *Danio rerio* (University of Pisa, Pisa, Italy).

PARTICIPATION IN SCIENTIFIC CONFERENCES

International scientific conferences:

1. **Cibulskaitė, Ž.**, Kazlauskienė, N., Rotomskis, R., Kulvietis, V. 2015. Toxicity of Quantum Dots and Cadmium to Rainbow Trout (*Oncorhynchus mykiss*) in early ontogenesis. *XV European Congress of Ichthyology*. The theme session “Physiology, Behaviour and Toxicology”. September 06-11, 2015, Porto, Portugal. Poster presentation.
2. Kazlauskienė, N., Rotomskis, R., Kulvietis, V., **Cibulskaitė, Ž.** 2015. Embryotoxicity of Quantum Dots During Hatching Period in Rainbow Trout (*Oncorhynchus mykiss*). *XV*

- European Congress of Ichthyology. The theme session “Physiology, Behaviour and Toxicology”. September 06-11, 2015, Porto, Portugal. Poster presentation.
3. Kazlauskienė, N., **Cibulskaitė, Ž.**, Svecevičius, G., Sauliutė, G., Makaras, T., Rotomskis, R., Kulvietis, V., Stankevičius, M., Markuckas, A., Stankevičiūtė, M., Baršienė, J. **2016**. Nanoparticle And Heavy Metal Toxicity Mechanisms In Fish During Ontogenesis: An Interdisciplinary Project. The international Conference of Natural and Life Sciences The Coins 2016, February 29 - March 03, 2016, Vilnius, Lithuania. Poster presentation.
 4. **Cibulskaitė, Ž.**, Stankevičiūtė, M., Kazlauskienė, N., Baršienė, J. 2016. Toxicity and Genocytotoxicity of Cadmium to Rainbow Trout (*Oncorhynchus mykiss*) in early ontogenesis. *International Conference, Vita Scientia*. January 04, 2016, Vilnius, Lithuania. Poster presentation.
 5. **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. July 3-8, 2016, Mykonos island, Greece. Poster presentation.
 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. July 3-8, 2016, Mykonos island, Greece. Poster presentation.
 7. Stankevičius, M., **Cibulskaitė, Ž.**, Kazlauskienė, N., Rotomskis, R. 2016. Accumulation of Quantum dots in Rainbow Trout (*Oncorhynchus mykiss*) Embryos. 59th Scientific Conference for Students of Physics and Natural Sciences "Open Readings 2016". March 15-18, 2016, Vilnius, Lithuania. Poster presentation.
 8. Stankevičius, M., **Cibulskaitė, Ž.**, Kazlauskienė, N., Rotomskis, R. 2016. 3D imaging of distribution of CdSe/ZnS-COOH quantum dots in rainbow trout *Oncorhynchus mykiss* embryos. Summer School & International Workshop on Advanced Materials Challenges for Health and Alternative Energy Solutions (AMAES V). August 31 - September 3, 2016, University of Cologne, Cologne, Germany. Poster presentation.
 9. Stankevičius, M., **Cibulskaitė, Ž.**, Kazlauskienė, N., Rotomskis, R. 2017. Fluorescence microscopy of quantum dots distribution in rainbow trout embryos chorion. 60th Scientific Conference for Students of Physics and Natural Sciences "Open Readings 2017". March 14-17, 2017, Vilnius, Lithuania. Poster presentation.
 10. **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. “Environmental Engineering” 10th International Conference. April 27-28, 2017, Vilnius Gediminas Technical University, Vilnius, Lithuania. Poster presentation.
 11. **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. Proceedings of the 14th International Conference on Protection and Restoration of the Environment. July 3-6, 2018, Thessaloniki, Greece. Oral presentation.
 12. Stankevičiūtė, M., **Jurgelėnė, Ž.**, Greiciūnaitė, J., Markovskaja, S., Kazlauskienė, N., Baršienė, J. 2018. Geno-, cytotoxicity and toxicity induced by *Saprolegnia parasitica* and

- cadmium alone and in combination to *Oncorhynchus mykiss*. Proceedings of the 14th International Conference on Protection and Restoration of the Environment. July 3-6, 2018, Thessaloniki, Greece. Oral presentation.
13. Kazlauskienė, N., **Jurgelėnė, Ž.**, Rotomskis, R. 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 May 19-24, 2019, Mykonos island, Greece, 25–33. Oral presentation.
 14. Kazlauskas, M., Montvydienė, D., Butrimienė, R., **Jurgelėnė, Ž.**, Kazlauskienė N. Impact of Magnetic Nanoparticles (CoFe₂O₄, MnFe₂O₄ and Fe₃O₄) on *Lepidium sativum* L. The international Conference of Natural and Life Sciences The Coins 2020, February 25 - 27, 2020, Vilnius, Lithuania. Poster presentation.
 15. Montvydienė, D., **Jurgelėnė, Ž.**, Kazlauskas, M., Butrimienė, R., Šemčuk, S., Makaras, T., Jokšas, K., Kazlauskienė N. The impact of graphene oxide nanostructures on *Lepidium sativum* L. GREENCHEM6, Sept. 20-23, 2020, Thessaloniki, Greece. Oral presentation.
 16. **Jurgelėnė, Ž.**, Montvydienė, D., Butrimienė, R., Kazlauskas, M., Šemčuk, S., Makaras, T., Jokšas, K., Kazlauskienė, N. Influence of graphene oxide nanostructures on fish at early development. GREENCHEM6, Sept. 20-23, 2020, Thessaloniki, Greece. Oral presentation.
 17. Kazlauskas, M., Montvydienė, D., **Jurgelėnė, Ž.**, Šemčuk, S., Jokšas, K., Kazlauskienė, N. Effects of graphene oxide nanostructures and metal mixtures on *Lepidium sativum*. 64th Scientific Conference for Students of Physics and Natural Sciences "Open Readings 2021", March 16-19, 2021, Vilnius, Lithuania. Poster presentation.
 18. Butrimienė, R., Skrodenytė-Arbačiauskienė, V., Montvydienė, D., **Jurgelėnė, Ž.**, Butkauskas, D., Kalnaitytė, A., Bagdonas, S., Kazlauskienė, N. Effects of cd based, Cd free Quantum dots and Cd²⁺ on isolated gut microbiota of *Salmo trutta* fry. 64th Scientific Conference for Students of Physics and Natural Sciences "Open Readings 2021", March 16-19, 2021, Vilnius, Lithuania. Poster presentation.
 19. Martusevičius, G., Sauliutė, G., Pažusienė, J., **Jurgelėnė, Ž.**, Šemčuk, S., Stankevičiūtė, M. Investigations of biological effects of graphene oxide nanostructures on brown trout (*Salmo trutta*). 64th Scientific Conference for Students of Physics and Natural Sciences "Open Readings 2021", March 16-19, 2021, Vilnius, Lithuania. Poster presentation.
 20. Anulevičiūtė, L., Sauliutė, G., Markuckas, A., **Jurgelėnė, Ž.**, Stankevičiūtė, M. Toxicological effects of tire fire effluents: catalase and metallothionein induction in rainbow trout (*Oncorhynchus mykiss*) larvae. 64th Scientific Conference for Students of Physics and Natural Sciences "Open Readings 2021", March 16-19, 2021, Vilnius, Lithuania. Poster presentation.
 21. Morkvėnas, A., **Jurgelėnė, Ž.**, Šemčiuk, S., Kazlauskienė, N., Karabanovas, V. Bioaccumulation of graphene oxide nanostructures in *Salmo trutta* at early development stages. 64th Scientific Conference for Students of Physics and Natural Sciences "Open Readings 2021", March 16-19, 2021, Vilnius, Lithuania. Poster presentation.
 22. Morkvėnas, A., **Jurgelėnė, Ž.**, Šemčiuk, S., Kazlauskienė, N., Karabanovas, V. Grafeno oksido nanodarinių bioakumuliacijos tyrimai *Salmo trutta* ankstyvose vystimosi stadijose. Lietuvos nacionalinė fizikų konferencija, spalio 6-8, 2021, Vilnius, Lithuania. Poster presentation.
 23. Kazlauskas, M., **Jurgelėnė, Ž.**, Butrimienė, R., Kazlauskienė, N., Montvydienė, D. 2022. Risk assessment of nano- and micro-sized materials for terrestrial and aquatic ecosystems. Proceedings of the Ninth International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE 2022) and SECOTOX Conference Mykonos island, Oral presentation.
 24. Butrimienė, R., Kalnaitytė, A., Januškaitė, E., Bagdonas, S., **Jurgelėnė, Ž.**, Butkauskas, D.,

- Virbickas, T., Montvydienė, D., Kazlauskienė, N., 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. Proceedings of the Ninth International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE 2022) and SECOTOX Conference Mykonos island, Oral presentation.
25. **Jurgelėnė, Ž.**, Montvydienė, D., Šemčuk, S., Stankevičiūtė, M., Sauliutė, G., Pažusienė, J., Morkvėnas, A., Butrimienė, R., Kazlauskas, M., Kazlauskienė, N., Karabanovas, V. 2022. Acute toxicity assessment of graphene oxide nanoderivatives on *Salmo trutta* at early development stages. Proceedings of the 16th International Conference on Protection and Restoration of the Environment Kalamata, Oral presentation.
26. Stankevičiūtė, M., **Jurgelėnė, Ž.**, Pažusienė, J., Valskienė, R., Sauliutė, G., Markovskaja, S. 2022. Bio-effects of saprolegniasis in *Salmo trutta* larvae. Proceedings of the 16th International Conference on Protection and Restoration of the Environment Kalamata, Oral presentation.
27. **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/>
28. 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. <https://bbc.lbfd.lt/>
29. 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. <https://bbc.lbfd.lt/>
30. Morkvėnas, A., Ežerskytė, E., Klimkevičius, V., **Jurgelėnė, Ž.**, Karabanovas, V. Does morphology matter? Toxicity and magnetic properties of GdPO₄:Eu³⁺ nanoparticles. 3rd Baltic Biophysics Conference. October 6-7th, 2022 in the Center for Physical Sciences and Technology, Saulėtekio av. 3, Vilnius, Lithuania. <https://bbc.lbfd.lt/>

National scientific conferences:

1. **Cibulskaitė, Ž.**, Kazlauskienė, N., Kulvietis, V. 2015. Subletalus kvantinių taškų ir sunkiųjų metalų toksinis poveikis vaivorykštiniam upėtakiui (*Oncorhynchus mykiss*) ankstyvojoje ontogenezeje. Lietuvos jaunųjų mokslininkų konferencijos „Mokslas – Lietuvos ateitis“ antropogeninės taršos poveikis aplinkai sekcijoje. 2015 m. balandžio 9 d. Vilnius, Lietuva. Oral presentation.
2. **Cibulskaitė, Ž.**, Kazlauskienė, N. 2015. Žuvis – biomedicininis tyrimų objektas. 19-oji Balt-LASA konferencija “Bandomieji gyvūnai moksliniuose tyrimuose”. 2015 m. lapkričio 26 d. Vilnius, Lithuania. Oral presentation.

PARTICIPATION IN THE STUDY PROCESS

Supervision of bachelor and master students:

Alina Raklevičiūtė	Master thesis: „Fikocianino poveikis vaivorykštinio upėtakio (<i>Oncorhynchus mykiss</i>) embrionams ir lervoms“ (VU Life Science Center, Environmental Studies and Environmental Management study program 2022)	2021 – 2022
Goda Slučkaitė	Master thesis: „Grafeno oksido ir metalų mišinių toksinio poveikio <i>Daphnia magna</i> tyrimai“ (VGTU Faculty of Fundamental Sciences, Department of Chemistry and Bioengineering, Nanobiotechnology study program 2022)	2021 – 2022
Milda Marija Lizzi	Bachelor thesis: “Kobalto ferito (CoFe_2O_4) nanodalelių poveikis vaivorykštinio upėtakio (<i>Oncorhynchus mykiss</i> Walbaum, 1792) embrionams ir lervoms“ (VU Life Science Center, Biology study program 2022 m.)	2021 – 2022
Augustas Morkvėnas	Master thesis: „Grafeno oksido nanodarinių bioakumuliacijos biologiniuose objektuose tyrimai naudojant konfokalinę fluorescencinę mikroskopiją“ (VU Life Science Center, Biophysics study program 2021)	2020 – 2021
Jolanta Dubickaitė	Bachelor thesis: “Fluorochrominių dažų Alizarin red s poveikis margiesiems upėtakiams“ (VDU, Academy of Education, Biology study program 2020)	2019 – 2020

OTHERS

Membership	<ol style="list-style-type: none"> 1. Lithuanian Metaloecologists Society (member) and Lithuanian Society of Hydrobiologists (member since 2015-2020). 2. Expert (ECHA-NMEG: European Chemicals Agency-Nanomaterial Expert Group) Annankatu 18, P.O. Box 400, FI-00121 Helsinki, Finland(since 2017-01) https://echa.europa.eu/regulations/nanomaterials/nanomaterials-expert-group/members 3. Member of Animal Welfare Council, Nature Research Centre (2017-present) 4. 2022 Participatation in the competition for the selection of the best master's theses organized by the Lithuanian Students' Union
Courses	<ol style="list-style-type: none"> 1. Course of Laboratory Animal Science (6 ECTS) for Research Worker at Life Sciences Center, Vilnius university has been completed. The Course approved by Directive 2010/63/EU of the European Parliament.
Awards	<ol style="list-style-type: none"> 1. Scholarship was granted for academic accomplishments (2018 Research Council of Lithuania) 2. 2019 Laureate of Young Scientist and Doctoral Student Award of Lithuanian Academy with Co-authors Dr. Milda Stankevičiūtė and Dr. Gintarė Sauliūtė (for the research work ”Biological effects of multicomponent chemical stressors in fish“. 3. 2019 Laureate of Young Scientist Award of Lithuanian Academy 4. 2022 Laureate of Young Scientist Award of Lithuanian Academy https://www.lma.lt/index.php?page=lma-jaunuju-mokslininku-stipendijos
Interview	<ol style="list-style-type: none"> 1. „Nanomaterials: quality of life or risks for health and environmental“. Žurnalas „Veidas“ March 10/2017, No. 19.

2. 2022-01-08 Portuguese show about EU-funded projects
<https://www.rtp.pt/play/p8717/e591077/de-lisboa-a-estocol>

Events

Stankevičiūtė M., **Jurgelėnė Ž.**, Makaras T., Pažusienė J., Sauliūtė G., Valskienė R. ir Bučaitė A. 2022. Vandens tarša ir jos poveikis žuvims. Event for science festival „Erdvėlavis 2022“, 16 September 2022
<https://www.mokslofestivalis.eu/renginys/2022/vandens-tarsa-ir-jos-poveikis-Zuvims/>