

Roberta Valskienė

CONTACT INFORMATION

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EDUCATION AND ACADEMIC DEGREE

- 2014 – 2018 Nature research centre/Vilnius university, Doctor in Ecology and Environmental (03 B), Biomedical sciences (VV Nr. 002031).
Doctoral thesis: “Studies of environmental genotoxicity and cytotoxicity effects in different fish species inhabiting the southern Baltic Sea”.
Supervisor: habil. Dr. Janina Baršienė.
Vilnius university and Nature Research Centre.
- 2011 – 2013 Vilnius university, Master in Ecology and Environmental Studies (BA Nr. 1240688)
Master thesis: „Investigations of heavy metal contamination of the bottom sediments of the Nemunas River near the city of Alytus”.
Supervisor: Dr. Gytautas Ignatavičius.
Vilnius University, Center of Ecology and Environment.
- 2007 – 2011 Vilnius university, Bachelor in Ecology (MA Nr. 1110451).
Bachelor thesis: “Preparation of laboratory work on the interaction of small mammals with pheromones (as an example of *Mus musculus*)”.
Supervisor: Prof. Vincas Būda.
Vilnius University, Center of Ecology and Environment.
- 2005 – 2007 Young biochemists school (Vilnius university) (PŽ1-325).
Lithuanian Center for Young Naturalists/Vilnius University.
- 2004 – 2007 Alytus Jotvingiai gymnasium, Secondary education (V Nr. 136680).
- 1998 – 2004 Alytus Vidzgiris primary school, Primary education.

PROFESSIONAL EXPERIENCE

- 2020 – 2022 **Researcher**
Vilnius University
- 2019 – until now **Researcher**
Nature Research Centre
- 2018 – 2019 **Junior researcher**
Nature Research Centre
- 2013 – 2018 **Biologist**
Nature Research Centre

RESEARCH INTERESTS

Field of research: aquatic toxicology, genetic toxicology, ecotoxicology. Investigation of genotoxic and cytotoxic effects for various aquatic organisms (molluscs, fish, etc.) and their different developmental stages (embryos, larvae and juvenile) using micronucleus and other nuclear abnormalities assays in different tissues (peripheral blood, liver, kidney, gills, hemolymph). Genotoxic and cytotoxic studies are carried out in various parts of the Baltic Sea, assessing the genotoxic risk to fish. Furthermore, studies are carried out in various Lithuanian freshwater ecosystems (in situ) and in laboratory conditions for acute and chronic toxicity studies/tests on aquatic organisms (in vivo).

PUBLICATIONS

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

1. Saulienė I., Valiulis A., Kerienė I., Sukienė L., Dovydaitytė D., Prokopciuk N., Valskys V., **Valskienė R.**, Damialis A.. Airborne pollen and fungi indoors: Evidence from primary schools in Lithuania. *Heliyon*. 2023 Jan 3;9(1):e12668. doi: 10.1016/j.heliyon.2022.e12668. PMID: 36685406; PMCID: PMC9850001.
2. Pažusienė J., **Valskienė R.**, Grygiel W., Stankevičiūtė M., Butrimavičienė L., Baršienė J., 2021. Cytogenetic damage in native Baltic Sea fish species: environmental risks associated with chemical munition dumping in the Gotland Basin of the Baltic Sea. *Environmental Science and Pollution Research*.
3. **Valskienė R.**, Baršienė J., Butrimavičienė L., Pažusienė J., Grygiel W., Stankevičiūtė M., Rybakovas A., 2019. Induction of nuclear abnormalities in herring (*Clupea harengus membras*), flounder (*Platichthys flesus*), and Atlantic cod (*Gadus morhua*) collected from the southern part of the Gotland Basin—the Baltic Sea (2010–2017). *Environmental Science and Pollution Research* 26 (13).
4. **Valskienė R.**, Baršienė J., Butrimavičienė L., Grygiel W., Stunžėnas V., Jokšas K., Stankevičiūtė M., 2018. Environmental genotoxicity and cytotoxicity levels in herring (*Clupea harengus*), flounder (*Platichthys flesus*) and cod (*Gadus morhua*) inhabiting the Gdansk Basin of the Baltic Sea. *Marine Pollution Bulletin*. 133, 65–76.
5. Butrimavičienė L., Baršienė J., Greiciūnaitė J., Stankevičiūtė M., **Valskienė R.**, 2018. Environmental genotoxicity and risk assessment in the Gulf of Riga (Baltic Sea) using fish, bivalves and crustaceans. *Environmental Science and Pollution Research* 25: 24818 <https://doi.org/10.1007/s11356-018-2516-y>.
6. Baršienė J., Butrimavičienė L., Grygiel W., Stunžėnas V., **Valskienė R.**, Greiciūnaitė J., Stankevičiūtė M., 2016. Environmental genotoxicity assessment along the transport routes of chemical munitions leading to the dumping areas in the Baltic Sea. *Marine Pollution Bulletin*. 103(1–2), 45–53.
7. Stankevičiūtė M., Butrimavičienė L., **Valskienė R.**, Greiciūnaitė J., Baršienė J., Vosyliene M.Z., Svecevičius G., 2016. Analysis of nuclear abnormalities in erythrocytes of rainbow trout (*Oncorhynchus mykiss*) treated with Cu and Zn and after 4-, 8-, and 12-day depuration (post-treatment recovery). *Mutation Research - Genetic Toxicology and Environmental Mutagenesis*. 797, 26–35.
8. Valskys V, **Valskienė R.**, Ignatavicius G., 2015. Analysis and assessment of heavy metals concentrations in Nemunas river bottom sediments at Alytus city territory. *Journal of environmental engineering and landscape management*. Vol. 23 (2). P. 155-162.

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

1. **Valskienė R.**, Pažusienė J., Stankevičiūtė M., Baršienė J., 2022. Genotoxicity risk assessment: Impact of munition/weapon dumps for native fish species in the Baltic Sea. Conference: “Preventing massive marine waters chemical pollution from the leaking wrecks and munition/weapon dumps in the South Baltic”, Gdansk, Poland.
2. Sauliūtė G., Stankevičiūtė M., Svecevičius G., Baršienė J., **Valskienė R.**, 2017. Assessment of heavy metals bioconcentration factor (BCF) and genotoxicity response induced by metal mixture in *Salmo salar* tissues. *10th International Conference on Environmental Engineering*. eISBN 978-609-476-044-0 (doi: <https://doi.org/10.3846/enviro.2017.043>)
3. **Valskienė R.**, Stankevičiūtė M., Butrimavičienė L., Greiciūnaitė J., Svecevičius G., 2015. Induction of nuclear abnormalities in rainbow trout (*Oncorhynchus mykiss*) after exposure to model mixture of heavy metals (Zn, Cu, Ni, Cr, Cd, Pb) at maximum permissible concentration. *Proceedings of the 18th Conference for Junior Researchers “Science – Future of Lithuania”*. ISSN 2029-5456. Vilnius, Technika. 100–105.

PARTICIPATION IN INTERNATIONAL AND NATIONAL SCIENTIFIC PROGRAMMES AND PROJECTS

- 2023 – 2025 **Primary project implementer**, Detect2Protect project “Methods of assessing the effects of chemical pollution and perspectives for the protection of the biodiversity of the Baltic Sea”. Research Council of Lithuania, project no. S-BIODIVERSA-23-1. Project leader: Prof. Kari Lehtonen.
- 2022 – 2025 **Primary project implementer**, ARFA project „Assessment of risk from tire fire accidents and micro-/nano-particle-related pollution in the aquatic environment“. Research Council of Lithuania, project no. S-MIP-22-51, budget – 149 999 Eur. Project leader: dr. Tomas Makaras).
- 2021 –2024 **Primary project implementer**, MULTIS project “Multiple stressors on threshold levels: interactive effects of parasites infestation and pollution in aquatic organisms”. Research Council of Lithuania, S-MIP-21-10, budget – 150 000 Eur. Project leader: M. Stankevičiūtė.
- 2020 –2022 **Secondary project implementer** Project “Seasonal features of school air pollution and its impact on the incidence of respiratory diseases and allergies in primary school students”, Research Council of Lithuania, S-MIP-20-52, budget – 148 202 Eur. Project leader: Arūnas Valiulis.
- 2017 –2020 **Primary project implementer** ACTIS project “Assessment of cumulative toxicity impact in the aquatic organisms induced by different types of stressors”, Research Council of Lithuania, S-MIP-17-10, budget – 99 993 Eur. Project leader: Laura Butrimavičienė.
- 2015 –2016 Project “Blood sample analysis of fish from the Gulf of Finland, the Baltic Sea”. Estonian University of Life Sciences, budget – 30 000 Eur.
- 2012 –2014 **Primary project implementer** GENOTOX-CG project "Environmental genotoxicity studies in chemical munitions dumping zones of the Baltic Sea",

Research Council of Lithuania, MIP-33/2012, (Partners National Marine Fisheries Research Institute, Gdynia, Poland and Estonian University of Life Sciences, Tartu, Estonia), budget – 347 300 Lt. Project leader: J. Baršienė.

MEMBERSHIPS

2015 – until now Lithuanian metaloecologists society

INTERNSHIP AND TRAINING

GTC-2014-175 Mokslininko matomumo didinimas

ECO-04-019 Projektų valdymo teisiniai, finansiniai ir vadybiniai aspektai

GTC-2014-102 Lietuvos ir užsienio žurnalų situacija – mokslinių darbų publikavimo ir vertinimo aspektai

EK 39 Ekologinė komunikacija mokslo populiarinimas

GTC-2014-118 Web of science duomenų bazė ir tarptautinių leidyklų reikalavimai autoriams

S-13 4326 Strateginis planavimas (bendradarbiavimo su verslu strategijos kūrimas)

PARTICIPATION IN SCIENTIFIC CONFERENCES

International scientific conferences:

1. **Valskienė, R.**, Pažusienė P., Stankevičiūtė, M., Baršienė J. 2022. Research on Genotoxicity and Cytotoxicity: Impact of munition/weapon dumps for Native Fish Species in the Baltic Sea. International conference of "Baltwreck" European Project: Preventing massive marine waters chemical pollution from the leaking wrecks and munition/weapon dumps in the South Baltic, October 26, Gdansk, Poland.
2. Stankevičiūtė, M., Jurgelėnė, Ž., Pažusienė, J., **Valskienė, R.**, Sauliutė, G., Markovskaja, S. 2022. Bio-effects of saprolegniasis disease in *Salmo trutta* larvae. *Protection and Restoration of the Environment XVI*, July 5-8, 2022, Kalamata, Greece. <http://www.prexvi.civil.upatras.gr/>
3. Pažusienė J., **Valskienė R.**, Grygiel W., Stankevičiūtė M., Butrimavičienė L., Sauliutė G., Čapukoitienė B., Baršienė J. 2020. Induction of nuclear abnormalities in flounder (*Platichthys flesus*), herring (*Clupea harengus membras*) and Atlantic cod (*Gadus morhua callarias*) collected from the Gotland Basin of the Baltic Sea (2011–2017). *15th International conference COINS 2020*, February 25-27th, Vilnius, Lithuania.
4. Pažusienė J, Butrinavičienė L, Baršienė J, Stankevičiūtė M, **Valskienė R.** Environmental genotoxicity and risk assessment in the gulf of Ryga (Baltic Sea) using fish, bivalves and crustaceans. 62th International Conference for Students of Physics and Natural Sciences „Open Readings 2019“. March 19-22, 2019. Vilnius, Lithuania.
5. Pažusienė J, Stankevičiūtė M, **Valskienė R.**, Butrimavičienė L, Baršienė J. Environmental genotoxicity and risk assessment in herring (*Clupea harengus*) caught in the Bornholm and Gotland Basins from the Baltic Sea (2009-2017). 8th young environmental scientists meeting 05-10 February 2019, Ghent University, Belgium.
6. Sauliutė G, Stankevičiūtė M, Svecėvičius G, Baršienė J, **Valskienė R.** Assessment of heavy metals bioconcentration factor (BCF) and genotoxicity response induced by metal mixture in *Salmo salar* tissues. 10th International Conference “Environmental Engineering” 27–28 April 2017, Vilnius, Lithuania.

7. Greiciūnaitė J, **Valskienė R**, Butrimavičienė L, Baršienė J. Genotoxicity studies in blood cells of fish collected in Eastern Gotland basin (the Baltic Sea). 62nd International Conference for Students of Physics and Natural Sciences „Open Readings 2017“.
8. **Valskienė R**, Butrimavičienė L, Stankevičiūtė M, Greiciūnaitė J, Dasevičiūtė L, Baršienė J. Environmental Genotoxicity Assessment in Chemical Munitions Dumping Zones in the Southern Baltic Sea. The Coins 2016 – International Conference of Natural and Life Sciences. 29th February – 3rd March 2016. Life Science Centre Saulėtekio Ave. 7.
9. Baršienė J, Butrimavičienė L, Michailovas A, Rybakovas A, **Valskienė R**, Stankevičiūtė M, Eiva P, Greiciūnaitė J. Aplinkos genotoksiškumo dėsniumai jūrinėse ekosistemose. Lietuvos mokslų akademijos konferencija, „Šiuolaikiniai biologijos tyrimai Lietuvoje“- jūros biologijai. Vilnius 2015-10-29.
10. **Valskienė R**, Stankevičiūtė M, Butrimavičienė L, Greiciūnaitė J, Svecevičius G. Induction of nuclear abnormalities in rainbow trout (*Oncorhynchus mykiss*) after exposure to an model mixture of heavy metals (Zn, Cu, Ni, Cr, Cd, Pb) at maximum permissible concentration. 18-osios Lietuvos jaunųjų mokslininkų konferencijos „Mokslas – Lietuvos ateitis“ antropogeninės taršos poveikis aplinkai sekcijoje. 2015 m. balandžio 9 d. Vilnius.
11. Baršienė J, Butrimavičienė L, Rybakovas A, Grygiel W, Lang T, Turja R, Michailovas A, **Valskienė R**, Stankevičiūtė M, Greiciūnaitė J, Eiva P. 2014. Aplinkos genotoksinis poveikis organizmams (Baltijos jūros CG zonose). Lietuvos užsienio reikalų ministerijos Transatlantinio bendradarbiavimo ir saugumo politikos departamento diskusija "Baltijos jūroje paskandintas cheminis ginklas – projektai ir perspektyvos", 2014 m. birželio 16 d (oral presentation).
12. Baršienė J, Butrimavičienė L, Rybakovas A, Grygiel W, Lang T, Michailovas A, **Valskienė R**, Stankevičiūtė M, Greiciūnaitė J, Eiva P. 2014. Genotoxicity and cytotoxicity respes in fish from chemical munitions zones of the Baltic Sea. Fifth International Dialogue on Underwater Munitions. May 28-29, Halifax, Nova Scotia, Canada.

PARTICIPATION IN THE STUDY PROCESS

Supervision of bachelor students:

Ula Marija Statkevičiūtė Bachelor work topic: „Cytogenetic status studies of Atlantic salmon (*Salmo salar*) reproductives in Lithuanian rivers“ (VU GMC) 2022–2024

OTHERS

1. XIX Mokslo festivalis ERDVĖLAIVIS ŽEMĖ 2022. Nuotolinis seminaras „Vandens tarša ir jos poveikis žuvims“. Tiesioginė transliacija 2022 m. rugsėjo 16 d. <https://www.mokslofestivalis.eu/renginys/2022/vandens-tarsa-ir-jos-poveikis-zuvims/>.