

# Laura Butrimavičienė

## CONTACT INFORMATION

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## EDUCATION AND ACADEMIC DEGREE

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2006 – 2010 PhD, Biomedical Science (N 012) (Vilnius University, Nature Research Center)  
Thesis Title – „Genotoxic and cytotoxic effects of contaminants discharged from the oil platforms in fish and mussels“

2002 – 2004 MS, Ecology and Environment Science (Vilnius University Faculty of Natural Sciences)  
Thesis Title – „Genotoxic and cytotoxic effects of oil exposure in fish cells“

1998 – 2002 BS, Biology (Vilnius University Faculty of Natural Sciences)  
Thesis Title – „Cyclic and acyclic chlorinated compounds as an additional substrate influence of microorganisms development“

## PROFESSIONAL EXPERIENCE

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2013 07 – until now **Senior Researcher**  
(Laboratory of evolutionary ecology of hydrobionts, Nature Research Centre)

2011 03 – 2013 05 **Researcher**

2004 06 – 2006 10 **Junior Researcher**

## RESEARCH INTERESTS

Cytogenetic, biochemical, and haematological biomarkers, analysis of biomarker responses in bioindicators, assessment of environmental pollution, determination of marine and freshwater ecosystems status, monitoring, evaluation of geno- and cytotoxic parameters in selected bioindicators under various stressors exposure *in situ* or under laboratory conditions.

## PUBLICATIONS

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

1. 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 munitions dumping in the Gotland Basin. Environmental Science and Pollution Research <https://doi.org/10.1007/s11356-021-14827-0>

2. **Butrimavičienė L.**, Nalivaikienė R., Kalcienė V., Rybakovas A. 2021. Impact of Cu<sup>2+</sup> and Zn<sup>2+</sup> mixture on haematological parameters of rainbow trout (*Oncorhynchus mykiss*), laboratory exposure and recovery. *Ecotoxicology* 30, 873–884. <https://doi.org/10.1007/s10646-021-02404-7>
3. Lastumäki A., Turja R., Brenner M., Vanninen P., Niemikoski H., **Butrimavičienė L.**, Stankevičiūtė M., Lehtonen K. 2020. Biological effects of dumped chemical weapons in the Baltic Sea: a multi-biomarker study using caged mussels at the Bornholm main dumping site. *Marine Environmental Research* 161 105036. <https://doi.org/10.1016/j.marenvres.2020.105036>
4. Turja R., Sanni S., Stankevičiūtė M., **Butrimavičienė L.**, Devier M.H., Budzinski H., Lehtonen K.K. 2020. Biomarker responses and accumulation of polycyclic aromatic hydrocarbons in *Mytilus trossulus* and *Gammarus oceanicus* during exposure to crude oil. *Environmental Science and Pollution Research* 27: 15498–15514. <https://doi.org/10.1007/s11356-020-07946-7>
5. 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):13366-13380. <https://doi.org/10.1007/s11356-019-04687-0>
6. Höher N., Turja R., Brenner M., Nyholm J.R., Östin A., Leffler P., **Butrimavičienė L.**, Baršienė J., Halme M., Karjalainen M., Niemikoski H., Vanninen P., Broeg K., Lehtonen K., Berglind R. 2019. Toxic effects of chemical warfare agent mixtures on the mussel *Mytilus trossulus* in the Baltic Sea: a laboratory exposure study. *Marine Environmental Research* 145:112-122 <https://doi.org/10.1016/j.marenvres.2019.02.001>
7. **Butrimavičienė L.**, Stankevičiūtė M., Kalcienė V., Jokšas K., Baršienė J. 2019. Genotoxic, cytotoxic, and neurotoxic responses in *Anodonta cygnea* after complex metal mixture treatment. *Environmental Science and Pollution Research* 26(8):7627-7639 <https://doi.org/10.1007/s11356-019-04206-1>
8. **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* 25:24818–24828 <https://doi.org/10.1007/s11356-018-2516-y>
9. 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. <https://doi.org/10.1016/j.marpolbul.2018.05.023>

## **PARTICIPATION IN SCIENTIFIC CONFERENCES**

### ***International scientific conferences:***

1. Micutaitė J., Kalcienė V., Nalivaikienė R., Rybakovas A., **Butrimavičienė L.** Responses of biochemical biomarkers in *Unionidae* molluscs from Neris river (Lithuania). 17th international conference of Life Sciences „The COINS 2022“. February-3 March 2022, Vilnius, Lithuania: 62. <https://thecoins.eu/static/resources/booksofabstracts/COINS2022.pdf>
2. Micutaitė J., Kalcienė V., Nalivaikienė R., Rybakovas A., **Butrimavičienė L.** Biožymenų atsakai Unionidae šeimos moliuskuose, surinktuose Neris upėje. Vilniaus universiteto Šiaulių akademijos organizuojamoje tarptautinėje studentų mokslinėje konferencijoje „Jaunasis tyrėjas išmaniajai visuomenei 2022“ 2022, gegužės 11 d., Šiauliai, Lietuva.
3. Nalivaikienė R., Kalcienė V., Rybakovas A., Pūtys Ž., Višinskienė G., **Butrimavičienė L.** Geno- and cytotoxic responses in flounder (*Platichthys flesus*) from the Lithuanian coastal zone (Baltic Sea). 64th International Conference for Students of Physics and Natural

- Sciences „Open Readings 2021“. March 16–19. 2021. Center for Physical Sciences and Technology, Vilnius. [https://www.openreadings.eu/wp-content/uploads/2021/03/Abstract\\_book\\_2021S.pdf](https://www.openreadings.eu/wp-content/uploads/2021/03/Abstract_book_2021S.pdf)
4. Nalivaikienė R., Kalcienė V., Rybakovas A., Jakutaitė V., **Butrimavičienė L.** Responses of biochemical biomarkers in bivalve mussels (*Unio pictorum*) from Nemunas river (Lithuania). 16th international conference of Life Sciences „The COINS 2021“. March 27–30. 2021. Life Sciences Center, Vilnius University, Vilnius. <https://www.thecoins.eu/static/resources/booksofabstracts/COINS2021.pdf>
  5. Nalivaikienė R., Kalcienė V., **Butrimavičienė L.** Response of oxidative stress and neurotoxicity biomarker in Rainbow trout (*Oncorhynchus mykiss*) after exposure to six metals mixtures. OPEN Readings, 63rd International Conference for students of physics and natural sciences, March 17-20 2020 Vilnius, Lithuania. <https://www.openreadings.eu/wp-content/uploads/2020/04/knyga20N.pdf>
  6. Stankevičiūtė M., Turja R., **Butrimavičienė L.**, Pažusienė J., Ahvo A., Lehtonen K.K., Jørgensen K.S. Geno- and cytotoxic effects of crude oils on the mussel *Mytilus spp.* from the Baltic Sea. SETAC Europe 29th Annual Meeting, May 26-30 2019 Helsinki, Finland. <https://helsinki.setac.org/wp-content/uploads/2019/05/SETAC-Helsinki-Abstract-Book-2019.pdf>
  7. Höher N., Turja R., Brenner M., Nyholm J.R., Ostin A., Leffler P., **Butrimavičienė L.**, Baršienė J., Karjalainen M., Vanninen P., Niemikoski H., Broeg K., Lehtonen K.K., Berglind R.S. Toxic effects of chemical warfare agent mixtures on the mussel *Mytilus trossulus* in the Baltic Sea: a laboratory exposure study. SETAC Europe 29th Annual Meeting, May 26-30 2019 Helsinki, Finland. <https://helsinki.setac.org/wp-content/uploads/2019/05/SETAC-Helsinki-Abstract-Book-2019.pdf>
  8. **Butrimavičienė L.**, Kalcienė V., Stankevičiūtė M., Jokšas K. Neuro-, geno- and cytotoxicity responses in mussels *Anodonta cygnea* after six metals mixture treatment. 16th International Conference on Environmental Science and Technology, September 4-7, 2019 Rhodes, Greece. [https://cest2019.gnest.org/sites/default/files/ABSTRACT%20BOOK\\_CEST2019\\_FINAL%202.pdf](https://cest2019.gnest.org/sites/default/files/ABSTRACT%20BOOK_CEST2019_FINAL%202.pdf)
  9. Pažusienė J., Valskiienė R., Stankevičiūtė M., **Butrimavičienė L.**, Baršienė J. Environmental genotoxicity and risk assessment in herring (*Clupea harengus*), Atlantic cod (*Gadus morhua*) and flounder (*Platichthys flesus*) caught in the Gotland Basins from the Baltic Sea (2010-2017). 16th International Conference on Environmental Science and Technology, September 4-7, 2019 Rhodes, Greece. [https://cest2019.gnest.org/sites/default/files/ABSTRACT%20BOOK\\_CEST2019\\_FINAL%202.pdf](https://cest2019.gnest.org/sites/default/files/ABSTRACT%20BOOK_CEST2019_FINAL%202.pdf)
  10. Stasiūnaitė E., Čapukotienė B., Eglinskaitė R., Stankevičiūtė M., Makaras T., **Butrimavičienė L.** Haematological and biochemical indices in Rainbow trout (*Oncorhynchus mykiss*) after 4, 7- and 14-days exposure with metals mixture. OPEN Readings, 62-nd International Conference for students of Physics and natural Sciences, March 19-22, 2019 Vilnius, Lithuania. <https://www.openreadings.eu/wp-content/uploads/2019/03/abstractbook19.pdf>
  11. Pažusienė J., **Butrimavičienė L.**, Baršienė J., Stankevičiūtė M., Valskienė R. Environmental genotoxicity and risk assessment in the Gulf of Riga (Baltic Sea) using fish, bivalves and crustaceans. OPEN Readings, 62-nd International Conference for students of Physics and natural Sciences, March 19-22, 2019 Vilnius, Lithuania. <https://www.openreadings.eu/wp-content/uploads/2019/03/abstractbook19.pdf>
  12. Pažusienė J., Stankevičiūtė M., Valskienė R., **Butrimavičienė L.**, Baršienė J., 2019. Environmental genotoxicity and risk assessment in herring (*Clupea harengus*) blood erythrocytes collected in the Bornholm and Gotland Basins from the Baltic Sea (2009-

- 2017). 8th Young Environmental Scientists „Yes 2019“ meeting. February 05-10, Ghent University, Belgium.
13. Brenner M., Höher N., Schuster R., Turja R., Lastumäki A., Nyholm J.R., Östin A., Leffler P., **Butrimavičienė L.**, Baršienė J., and et al. Biological effects of dumped warfare agent on the Baltic mussel *Mytilus* spp.; first results from field and lab exposure studies INTERNATIONAL SYMPOSIUM for sea-dumped munition and UXO Munition in the sea is a global problem for marine economy and has an unknown environmental impact From May 2nd to 4th, 2018 an interdisciplinary symposium in Berlin (Germany). <https://epic.awi.de/id/eprint/47189/>

## **PARTICIPATION IN THE STUDY PROCESS**

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### *Supervision of PhD students:*

**Reda** Research theme: „Responses of biochemical and cytogenetic biomarkers in  
**Nalivaikienė** aquatic organisms after exposure to a single stressor or a complex of them“  
(Ecology and Environmental Science, N012) **2019-01-02 – 2023-12-31**