

# Rasa Binkienė

## CONTACT INFORMATION

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## EDUCATION AND ACADEMIC DEGREE

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2001 – 2007 PhD in Biomedical Sciences, Zoology, Vilnius University and Nature Research Centre, Vilnius, Lithuania  
Doctoral Theses: “Faunistic and ecogeographic analysis of helminths of insectivorous mammals (Insectivora) of the northwestern Palearctic”, scientific supervisor – dr. V. Kontrimavičius.  
Field of research: morphological and molecular analysis of helminths.

1993 – 1998 M.Sc. in Veterinary Surgery, Lithuanian Veterinary Academy, Kaunas, Lithuania.

## PROFESSIONAL EXPERIENCE

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2021– until now **Senior Researcher**  
P.B. Šivickis laboratory of Parasitology, Nature Research Centre, Vilnius, Lithuania

2007 – 2021 **Researcher**  
P.B. Šivickis laboratory of Parasitology, Vilnius university (from 2010 01 01 – Nature Research Centre)

2006 – 2007 **Junior Researcher**  
P.B. Šivickis laboratory of Parasitology, Vilnius university, Institute of ecology

2001– 2007 **PhD studies**  
P.B. Šivickis laboratory of Helminthology, Vilnius university, Institute of ecology

1998 – 2001 **Research assistant**  
P.B. Šivickis laboratory of Helminthology, Vilnius university, Institute of ecology, Vilnius, Lithuania

## RESEARCH INTERESTS

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Identification of helminths of birds, fishes and small mammals (Cestoda, Trematoda, Nematoda) using microscopic and molecular analysis, taxonomy and systematics of parasites; research on vectors and explanation of transmission routes; isolation of DNA from adult organisms and their larval stages in definitive and intermediate hosts, application of PCR methods, sequences analysis.

## PUBLICATIONS

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

1. **Binkienė, R.**, Chagas, C.R.F., Bernotienė, R., Valkiūnas, G., 2021. Molecular and morphological characterization of three new species of avian Onchocercidae (Nematoda) with emphasis on circulating microfilariae. – *Parasites & vectors*, 14 (1): art. no. 137. <https://doi.org/10.1186/s13071-021-04614-8>.
2. Chagas, C.R.F., **Binkienė, R.**, Ilgūnas, M., Ježova, T., Valkiūnas, G. 2020. The buffy coat method: A tool for detection of blood parasites without staining procedures. – *Parasites and vectors*, 13 (1): 3977-3988. <https://doi.org/10.1186/s13071-020-3984-8>.
3. Kornienko, S.A., **Binkienė, R.**, Dokuchaev, N.E., Tkach, V.V. 2019. Molecular phylogeny and systematics of cestodes with rudimentary rostellum (Cestoda: Hymenolepididae) from Holarctic *Sorex* shrews (Eulipotyphla: Soricidae). – *Zoological journal of the Linnean Society*, 187 (3): 965-986. <https://doi.org/10.1093/zoolinnean/zlz061>.
4. **Binkienė, R.**, Miliūtė, A., Stunžėnas, V. 2019. Molecular data confirm the taxonomic position of *Hymenolepis erinacei* (Cyclophyllidea: Hymenolepididae) and host switching, with notes on cestodes of Palearctic hedgehogs (Erinaceidae). – *Journal of helminthology*, 93 (2): 195-202. <https://doi.org/10.1017/S0022149X18000056>.
5. Kornienko, S., **Binkienė, R.**, Tkach, V. V. 2016. Revision of the genus *Soricinia* Spassky & Spasskaja, 1954 (Cestoda: Cyclophyllidea: Hymenolepididae) with redescriptions of three species, an amended generic diagnosis and an identification key to species. – *Systematic parasitology*, 93 (5): 451-465. <https://doi.org/10.1007/s11230-016-9639-7> Dordrecht : Springer Netherlands, ISSN 0165-5752. eISSN 1573-5192.
6. **Binkienė, R.**, Kontrimavičius, V., Hoberg, E.P. 2011. Overview of the cestode fauna of European shrews of the genus *Sorex* with comments on the fauna in *Neomys* and *Crocidura* and an exploration of historical processes in post-glacial Europe. – *Helminthologia*, 48 (4): 207-228. <https://doi.org/10.2478/s11687-011-0031-5>.

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

1. **Binkienė, R.** 2006. Helminth fauna of shrews (*Sorex* spp.) in Lithuania = *Sorex* kirstukų helmintų fauna Lietuvoje. – *Acta zoologica Lituanica*, 16 (3): 241-245. ISSN 1392-1657

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

1. Nikonorova, I.A.; **Binkienė, R.**; Bugmyrin, S.V.; Ieshko, E.P. 2018. Helminth fauna of the common shrew *Sorex araneus* L. in the European part of the species range. – *Parazitologia*, 52 (1): 41-69. Maskva : Rusijos mokslų akademija, ISSN 0031-1847.

***Reviewed scientific articles, published in Lithuania:***

1. **Binkienė, R.** 2006. Helminth fauna of shrews (*Sorex* spp.) in Lithuania. – *Acta zoologica Lituanica*. 16 (3): 241-245. ISSN 1392-1657.
2. Valkiūnas, G., Grikienienė, J., Petkevičiūtė, R., Stanevičiūtė, G., Križanauskienė, A., Stunžėnas, V., **Binkienė, R.**, Komisarovas, J., Kutkienė, L. 2007. Parazitų sukeltos ligos globalios klimato kaitos sąlygomis: nauja grėsmė. – *Biota ir globali kaita*. 1. p. 212-238. Vilnius, ISBN 9789955668978.
3. Grikienienė, J., **Binkienė, R.** 2002. Some data on endoparasites of common mole in Lithuania. – *Acta zoologica Lituanica*, 12 (4): 403-409. ISSN 1392-1657.

**PARTICIPATION IN INTERNATIONAL AND NATIONAL SCIENTIFIC PROGRAMMES AND PROJECTS**

- 2022 – 2025 **investigator** Research Council of Lithuania „Molecular diagnostics and epidemiology of neglected avian blood parasites“. Contract: P-MIP-22-147
- 2015 – 2018 **investigator** Research Council of Lithuania „Specificity of parasitic Platyhelminthes and their speciation in relation to the host spectrum“. Contract: MIP-043/2015.
- 2007 – 2009 **investigator** Lithuanian National Science and Study foundation „Evolution of ecosystems and molecular investigations of phylogeography of populations in Baltic region“. Contract: C-07002.

## INTERNSHIP AND TRAINING

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- 2008 m. 10 The reconstruction of Cestoda postglacial fauna in Europe using modern methods of molecular genetics. EU Synthesis scholarship programme; traineeship in the Natural History Museum, London.
- 2005 m. 09 Cestodes genetic testing (DNA extraction, amplification and sequencing). The Finnish Forest Research Institute (METLA), Helsinki.
- 2002 m. 11 Description of helminths and taxonomy of cestodes of insectivorous. Institute of Animal Taxonomy and Ecology, Laboratory of Parasitology and Ichthyology, Novosibirsk, Russia.

## PARTICIPATION IN SCIENTIFIC CONFERENCES

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### International scientific conferences:

1. Bernotienė, R., **Binkienė, R.**, Iezhova, T., Chagas, C. R. F. 2022. What other knowledge can we gain by researching avian malarial parasites? – *5<sup>th</sup> International Conference on Malaria and Related Haemosporidian Parasites of Wildlife*, September 5-8, Bielefeld, Germany, abstrakt book: 88. <https://mesamalaria.org/updates/5th-international-conference-malaria-and-related-haemosporidian-parasites-wildlife-0>
2. **Binkienė, R.**, Chagas, C. R. F., Bernotienė, R., Valkiūnas, G. 2021. Molecular and morphological characterization of the circulating microfilariae of filarioid nematodes in warblers. – *9<sup>th</sup> Conference of the Scandinavian-Baltic Society for Parasitology*, April 21-23, Vilnius, Lithuania, abstrakt book: 72 <https://gamtostyrimai.lt/en/news/9th-conference-of-the-scandinavian-baltic-society-for-parasitology>
3. **Binkienė, R.**, Kornienko, S. A. 2017. Review of the cestodes of the tribe Ditestolepidini Spassky, 1954 (Cyclophyllidea, Hymenolepididae). *9th International Workshop on Cestode Systematic and Phylogeny*, August 05-10, Rostock, Germany, abstrakt book: 16. [https://www.auf.uni-rostock.de/fileadmin/uni-rostock/Alle\\_AUF/AUF/AQ/Abstrakt\\_book\\_fertig.pdf](https://www.auf.uni-rostock.de/fileadmin/uni-rostock/Alle_AUF/AUF/AQ/Abstrakt_book_fertig.pdf).
4. **Binkienė, R.** 2016. Helminthes fauna of common shrew (*Sorex araneus*) in Baltic States. – *International Colloquium Biology of the Soricidae IV*, September 11–14, Poznan, Lenkija, abstrakt book: 42. <https://www.wkn.com.pl/monografie-naukowe/nauki-przyrodnicze-monografie-naukowe/alessandro-minelli-formy-przemian-2/>

## PARTICIPATION IN THE STUDY PROCESS

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### Participation in the doctoral process:

Member of the doctoral defence committee

Dovilė Doctoral Theses: „Avian haemosporidian parasites 2018-12-28

Bukauskaitė (Haemosporida): sporogonic development and determination of

vectors“ (Vilnius university, Nature research centre, Ecology and Environmental Sciences)

***Supervision of bachelor and master students:***

Deimantė Pupšytė	Bachelor Theses: „Morphological and phylogenetic researche of filaria (Nematoda, Spirurida) of Lithuanian passerine birds“ (Vilnius university, Biology)	2019 – 2020
Aurelija Miliūtė	Bachelor Theses: „Parasitic helminths of northern White-breasted hedgehog (Erinaceus romanicus)“ (Vilnius university, Biology)	2015 – 2016