

Dovilė Laisvūnė Bagdonaitė

CONTACT INFORMATION

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EDUCATION

- 2023 – current Nature sciences, Biology (N010).
Doctoral thesis topic: Studies on *Sarcocystis* parasites in the muscles and brain of small mammals, thesis supervisor - dr. Petras Prakas.
Field of research: *Sarcocystis*, parasitology, phylogeny, small mammals, rodents, shrews.
- 2021 – 2023 Vytautas Magnus university, Molecular biology and biotechnology / Masters.
Topic of thesis: Identification of *Sarcocystis* species in the blood samples of domestic sheep (*Ovis aries*).
Research carried out in: Nature Research Centre, Laboratory of Molecular Ecology.
Field of research: *Sarcocystis*, parasitology, phylogeny, identification of species with molecular research methods.
- 2016 – 2020 Vytautas Magnus university, Academy of Education, Biology / Bachelors.
Topic of thesis: Studies on the Biocidal Nature of Yeasts from the Genus *Metschnikowia* with Special Antimicrobial Activity.
Research carried out in: Nature Research Centre, Laboratory of Genetics.
Field of research: yeasts, *Metschnikowia*, pulcherrimin.

RESEARCH INTERESTS

Studies on parasites of the genus *Sarcocystis* in intermediate hosts using morphological and molecular methods. Studies on small mammalian muscle tissues using the digestive method. Microscopy of small mammalian muscle tissues, isolation of detected sarcocysts and DNA extraction. Identification of *Sarcocystis* species using different types of PCR reactions, visualisation of the amplified products on agarose gels, purification and preparation for sequencing, analysis of the resulting DNA sequences.

PUBLICATIONS

1. Marandykina-Prakienė, A., Butkauskas, D., Gudiškis, N., Juozaitytė-Ngugu, E., **Bagdonaitė, D. L.**, Kirjušina, M., Calero-Bernal, R. & Prakas, P. (2023). *Sarcocystis* Species Richness in Sheep and Goats from Lithuania. *Veterinary Sciences*, 10(8), 520. <https://doi.org/10.3390/vetsci10080520>
2. Prakas, P., Gudiškis, N., Kitrytė, N., **Bagdonaitė, D. L.** & Baltrūnaitė, L. (2024). Detection of Three *Sarcocystis* Species (Apicomplexa) in Blood Samples of the Bank Vole and Yellow-Necked Mouse from Lithuania. *Life*, 14, 365. <https://doi.org/10.3390/life14030365>
3. **Bagdonaitė, D. L.**, Rudaitytė-Lukošienė, E., Stirė, V., Balčiauskas, L., Butkauskas, D. & Prakas, P. (2025). Description of *Sarcocystis arvalis* n. sp. from the Common Vole (*Microtus arvalis*) in Lithuania Using Morphological and Molecular Methods. *Pathogens* 14(11), 1086. <https://doi.org/10.3390/pathogens14111086>
4. Šidlauskas, G., Gudiškis, N., **Bagdonaitė, D. L.**, Rudaitytė-Lukošienė, E., Juozaitytė-Ngugu, E., Jasiulionis, M., Balčiauskas, L., Butkauskas, D. & Prakas, P. (2025). Evidence of *Toxoplasma*

gondii in Neural and Cardiac Tissues of Wild Rodents in Lithuania. *Pathogens*, 14(12), 1252. <https://doi.org/10.3390/pathogens14121252>

PARTICIPATION IN SCIENTIFIC CONFERENCES

1. **Bagdonaitė D. L.**, Gudiškis, N., Kitrytė, N., Baltrūnaitė, L., Prakas P. 2024. Identification of *Sarcocystis* spp. in the Blood of the Bank Vole and Yellow-Necked Mouse. International Conference of Life Sciences, The COINS 2024. April 15-17, Vilnius, Lithuania. (Poster presentation)
2. **Bagdonaitė D. L.**, Gudiškis, N., Kitrytė, N., Baltrūnaitė, L., Prakas P. 2024. *Sarcocystis* Species Identification in the Blood Samples of Wildlife and Livestock. The 14th European Multicolloquium of Parasitology (EMOP XIV). August 26-30, Wrocław, Poland. (Poster presentation)
3. **Bagdonaitė D. L.** *Sarcocystis* genties parazitų identifikacija smulkiuosiuose žinduoliuose. 2024. 17-oji Lietuvos jaunųjų mokslininkų konferencija „Bioateitis: gamtos ir gyvybės mokslų perspektyvos“. November 21st., Vilnius, Lithuania. (Oral presentation)
4. **Bagdonaitė D. L.** Rudaitytė-Lukošienė, E., Prakas, P., Butkauskas, D. 2025. Genetic Characterisation of *Sarcocystis* Cysts Isolated from Muscles and Brain of Voles from Lithuania. 83rd Annual Scientific Conference of the University of Latvia section “Innovative and Applied Research in Biology”. March 6th., Riga, Latvia. (Poster presentation)