

Evelina Juozaitytė-Ngugu

CONTACT INFORMATION

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EDUCATION AND ACADEMIC DEGREE

2018 – 2022 Natural Sciences, Biology (N010) PhD study (Nature Research Centre, Vytautas Magnus University and the Centre for Innovative Medicine).
Research theme: “Morphological and genetic diversity of *Sarcocystis* species parasitizing gulls (*Larus*) and corvidae (*Corvidae*) in Lithuania”, Scientific Supervisor – dr. P. Prakas.
Research area: *Sarcocystis*, protozoa, parasitology, molecular biology research methods, genes, gulls and corvids.

2015 – 2017 Vilnius University, Zoology/ Master.
Research theme: “ Diversity of *Sarcocystis* species in gulls (*Larus*) and corvids (*Corvus*)”.
The work was carried out at the Nature Research Center, Laboratory of Molecular Ecology.
Research area: *Sarcocystis*, protozoa, parasitology, molecular biology research methods, genes, gulls and corvids.

2011 – 2015 Vilnius University, Biology / Bachelor.
Research theme: “Diversity of *Sarcocystis* species forming microscopic sarcocysts in geese (*Anseriformes*). ”.
The work was carried out at the Nature Research Center, Laboratory of Molecular Ecology.
Research area: *Sarcocystis*, protozoa, parasitology, molecular biology research methods, geese, *Anseriformes*.

PROFESSIONAL EXPERIENCE

2022 10 – till now **Junior researcher**
Laboratory of Molecular Ecology, Nature Research Center

2018 10 – 2022 09 **PhD student**
Laboratory of Molecular Ecology, Nature Research Center

2015 06 – 2017 06 **Laboratory assistant**
Laboratory of Molecular Ecology, Nature Research Center

RESEARCH INTERESTS

Field of research: microscopic-morphological studies of *Sarcocystis* parasites, investigating the muscles of birds and looking for sarcocysts, and analyzing the intestines of birds seeking to detect oocysts and sporocysts. Identification of *Sarcocystis* species using microscopic and molecular

analysis, diagnostic selection of genes and primers for research, isolation of DNA from sarcocysts and oocysts/sporocysts, application of PCR methods, visualization of amplified products, purification and preparation for sequencing, analysis of obtained DNA sequences and interpretation of results.

PUBLICATIONS

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

1. Marandykina-Prakienė, A., Butkauskas, D., Gudiškis, N., Juozaitytė-Ngugu, E., Januškevičius, V., Rudaitytė-Lukošienė, E., & Prakas, P. 2022. Molecular identification of *Sarcocystis* species in sheep from Lithuania. – *Animals*, 12 (16), 1–13. <https://doi.org/10.3390/ani12162048>
2. Juozaitytė-Ngugu, E., Butkauskas, D., Švažas, S., & Prakas, P. 2022. Investigations on *Sarcocystis* species in the leg muscles of the bird family Corvidae in Lithuania. – *Parasitology research*, 121 (2), 703–711. <https://doi.org/10.1007/s00436-021-07409-z>
3. Juozaitytė-Ngugu, E., Švažas, S., Šneideris, D., Rudaitytė-Lukošienė, E., Butkauskas, D., & Prakas, P. 2021. The role of birds of the family Corvidae in transmitting *Sarcocystis* protozoan parasites. – *Animals*, 11 (11), 1–11. <https://doi.org/10.3390/ani11113258>
4. Prakas, P., Bea, A., Juozaitytė-Ngugu, E., Olano, I., Villanúa, D., Švažas, S., & Butkauskas, D. 2021. Molecular identification of *Sarcocystis halieti* in the muscles of two species of birds of prey from Spain. – *Parasites & Vectors*, 14 (1), 1–7. <https://doi.org/10.1186/s13071-021-04921-0>
5. Prakas, P., Balčiauskas, L., Juozaitytė-Ngugu, E., & Butkauskas, D. 2021. The role of mustelids in the transmission of *Sarcocystis* spp. using cattle as intermediate hosts. – *Animals*, 11 (3), 1–10. <https://doi.org/10.3390/ani11030822>
6. Prakas, P., Butkauskas, D., & Juozaitytė-Ngugu, E. 2020. Molecular and morphological description of *Sarcocystis kutkienae* sp. nov. from the common raven (*Corvus corax*). – *Parasitology research*, 119 (2), 4205–4210. <https://doi.org/10.1007/s00436-020-06941-8>
7. Prakas, P., Butkauskas, D., & Juozaitytė-Ngugu, E. 2020. Molecular identification of four *Sarcocystis* species in the herring gull, *Larus argentatus*, from Lithuania. – *Parasites & Vectors*, 13 (1), 45–58. <https://doi.org/10.1186/s13071-019-3869-x>
8. Prakas, P., Butkauskas, D., Švažas, S., Juozaitytė-Ngugu, E., & Stanevičius, V. 2018. Morphologic and genetic identification of *sarcocystis fulicae* n. Sp. (apicomplexa: Sarcocystidae) from the eurasian coot (*fulica atra*). – *Journal of wildlife diseases*, 54 (4), 765–771. <https://doi.org/10.7589/2017-11-279>

PARTICIPATION IN INTERNATIONAL AND NATIONAL SCIENTIFIC PROGRAMMES AND PROJECTS

2019 – 2022 researcher "Study of molecular identification of *Sarcocystis* species in predators and water samples". Project: S-MIP-20-24.

INTERNSHIP AND TRAINING

2020 09 / 2021 06 Latvia, Daugavpils, University of Daugavpils, Erasmus+study program, learning general parasitological research and accumulating knowledge.

PARTICIPATION IN SCIENTIFIC CONFERENCES

International scientific conferences:

1. Prakas P., Liaugaudaitė S., Butkauskas D., Kutkienė L., Sruoga A., Švažas S., Grishanov G., Oksanen A., Kozulin A., Janaus M., **Juozaitytė E.**, Žebraukaitė J. 2016. Investigations of *Sarcocystis* infection in birds of the order Anseriformes. – *12th European Multicolloquium of Parasitology*, July 20-24, Turku, Finland.
2. Prakas P., Kirillova V., Rudaitytė-Lukošienė E., Gavarāne I., **Juozaitytė-Ngugu E.**, Grāvele E., Kirjušina M., Butkauskas D. 2018. Molecular investigations on *Sarcocystis* parasites in the Baltic States. – *7th Baltic Genetics Congress*, October 24-28, Riga, Latvia.
3. **Juozaitytė-Ngugu E.**, Prakas P., Butkauskas D. 2019. Molecular identification of *Sarcocystis* species in muscles of the Herring Gull (*Larus Argentatus*) in Lithuania. – *62nd International Conference for Students of Physics and Natural Sciences „Open Readings 2019“*, March 19-22, Vilnius, Lithuania.
4. **Juozaitytė-Ngugu E.**, Butkauskas D., Prakas P. 2019 *Sarcocystis* Species Diversity in Muscles and Intestines of Common Raven (*Corvus Corax*) and Hooded Crow (*Corvus Cornix*). – *3rd International Conference of Life and Environmental Sciences „Smart Bio 2019“*, May 2-4, Kaunas, Lithuania.
5. **Juozaitytė-Ngugu E.**, Prakas P., Butkauskas D. 2020. Molecular and morphological investigations of *Sarcocystis* sp. from the common raven (*Corvus corax*). – *15th International Conference of Life Sciences „Coins 2020“*, February 25-27, Vilnius, Lithuania. <https://www.thecoins.eu/static/resources/booksofabstracts/COINS2020.pdf>
6. Prakas P., Kutkienė L., Butkauskas D., **Juozaitytė-Ngugu E.**, Švažas S. 2019. *Sarcocystis* species identified in game birds in Lithuania. – *34th International Union of Game Biologists „IUGB 2019“*, August 26-30, Kaunas, Lithuania.
7. **Juozaitytė-Ngugu E.**, Bea A., Prakas P., Švažas S., Butkauskas D., Olano I., Villanúa D. 2021. *Sarcocystis* species identification in muscles of birds from Spain. – *79th International Scientific Conference of the University of Latvia. Innovative and applied research in biology*. February 5, Riga, Latvia.
8. Prakas P., Servienė E., Butkauskas D., Strazdaitė-Žielienė Ž., Rudaitytė-Lukošienė E., **Juozaitytė-Ngugu E.**, Baranauskaitė A., Šneideris D., Šikšniūtė E. 2021. – *Apicowplexa Virtual Meeting. Diagnosis of apicomplexan parasites*, February 18, online, Abstract book page 2. <http://www.apicowplexa.net/wp-content/uploads/2021/02/Abstracts-February-18-2021.pdf>
9. **Juozaitytė-Ngugu E.**, Butkauskas D., Prakas P. 2021. Investigations of *Sarcocystis* species in muscles of Laridae and Corvidae birds. – *9th Conference of the Scandinavian - Baltic Society for Parasitology*. April 21-23, Vilnius, Lithuania.
10. Prakas P., **Juozaitytė-Ngugu E.**, Rudaitytė-Lukošienė E., Šneideris D., Butkauskas D. 2021. Molecular identification of *Sarcocystis* species in the intestines of mustelids from Lithuania. *9th Conference of the Scandinavian - Baltic Society for Parasitology*. April 21-23, Vilnius, Lithuania.
11. Šukytė T., **Juozaitytė-Ngugu E.**, Butkauskas D., Prakas P. 2021. Preliminary results of *Sarcocystis* spp. infection in birds of prey in Lithuania. – *80th International Scientific Conference of the University of Latvia, Innovative and applied research in Biology*. February 3, Riga, Latvia.
12. Šukytė T., **Juozaitytė-Ngugu E.**, Šneideris D., Butkauskas D., Prakas P. 2022. Molecular identification of *Sarcocystis* infection in the Northern goshawk (*Accipiter gentilis*) from Lithuania. – *16th International Conference of Life Sciences „Coins 2022“*, February 28 - March 3, Lithuania. Abstract book page 66. <https://www.thecoins.eu/static/resources/booksofabstracts/COINS2022.pdf>
13. Maziliauskaitė E., **Juozaitytė-Ngugu E.**, Butkauskas D., Prakas P. 2022. Preliminary results on molecular investigations of *Trichinella* spp. in predators from Lithuania. – *16th International Conference of Life Sciences „Coins 2022“*, February 28 - March 3, Lithuania.

OTHERS

1. Šilalės Artojas. in 2020 November 27 No. 92 (7751) Page 6. "Sarcocystosis - what is it?".
2. Support for doctoral students of the Lithuanian Science Council for the achieved study results: 2019 (P-DAP-20-242).
3. Promotion for PhD students of the Nature Research Center for significant achievements in 2021. Results of scientific activities.
4. Promotion for PhD students of the Nature Research Center for significant achievements in 2022. Results of scientific activities.