

Gabrielė Bumbulytė

CONTACT INFORMATION

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EDUCATION AND ACADEMIC DEGREE

2015 – 2019 Vilnius University, Biology / Bachelor
2019 – 2021 Vilnius University, Biodiversity / Master
2021 – dabar Nature Research Centre, Ecology and Environmental Science / PhD student

PROFESSIONAL EXPERIENCE

2019-05 – 2022-11 **Laboratory assistant/biologist**
Nature Research Centre

RESEARCH INTERESTS

Working with the Ethovision XT video tracking system for recording animal behaviour, other general techniques for insect behavioural studies, techniques for various insect field trials and preparations, working with electroantennogram (EAG) recording, gas chromatography-electroantennographic detection (DC-EAG), and insect rearing and care.

PUBLICATIONS

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

1. Būda, V., Radžiutė, S., Apšegaitė, V., Blažytė-Čereškienė, L., Čepulytė, R., **Bumbulytė, G.**, & Mozūraitis, R. (2022). Electroantennographic and behavioural responses of European cherry fruit fly, *Rhagoletis cerasi*, to the volatile organic compounds from sour cherry, *Prunus cerasus*, fruit. *Insects*, 13(2), 114. DOI: 10.3390/insects13020114

PARTICIPATION IN INTERNATIONAL AND NATIONAL SCIENTIFIC PROGRAMMES AND PROJECTS

2021 – 2022 Applied research for cultivation of the yellow mealworm. Biologist of project. Customer: Divaks, UAB.
2021 09 – 2021 12 The role of metabolites in three-trophic interactions between plant, microorganisms, and phytophagous insects. Biologist. Project No. 09.3.3.-LMT-K-712-01-0099

INTERNSHIP AND TRAINING

2020-08 – 2021-04 Search for repellent compounds in volatile metabolites of microscopic fungi for *Tenebrio molitor* L. Competitive student research internship funded by the

Research Council of Lithuania. Project No. 09.3.3.-LMT-K-712-15-0225

- 2019-10 – Searching for repellent chemical compounds for yellow mealworm (*Tenebrio molitor*) in essential oils of spearmint (*Mentha spicata*), thyme (*Thymus vulgaris*). Competitive student research internship funded by the Research Council of Lithuania. Project No. 09.3.3.-LMT-K-712-16-0204
- 2019-07 – Possible influence of hygienic behavior of bees on the spread of viruses in bee colonies. Competitive student research internship funded by the Research Council of Lithuania. Project No. 09.3.3.-LMT-K-712-15-0104.

PARTICIPATION IN SCIENTIFIC CONFERENCES

International scientific conferences:

1. Bumbulytė, G., Būda, V. (2020-01-03) (Lithuania). Effects of essential oils on mealworms (*Tenebrio molitor* L.) larvae. International Vita Scientia Conference: conference book: p. 32, Vilnius: Vita est scientia.
2. Bumbulytė, G., Būda, V. (2020-02-25 - 27) (Lithuania). Effects of essential oils and their compounds on mealworms (*Tenebrio molitor* L.) larvae. International Conference of Life Sciences The COINS: abstract book p. 37-38, Vilnius. <https://thecoins.eu/wp-content/uploads/2020/02/abstract-book-word-2020.pdf>;
3. Bumbulytė, G., Būda, V. (2020-03-17 - 20) (Lithuania). Effects of essential oils and their compounds on mealworms (*Tenebrio molitor* L.). 63rd International Conference for Students of Physics and Natural Sciences: abstract book p. 505, Vilnius Lithuania. <http://www.openreadings.eu/wp-content/uploads/2020/04/knyga20N.pdf>.
4. Bumbulytė, G., Būda, V. (2021-03-16 - 19) (Lithuania). Natural Repellents for Mealworm (*Tenebrio molitor* L.) Larvae. 64th International Conference for Students of Physics and Natural Sciences: abstract book p. 353, Vilnius Lithuania. http://www.openreadings.eu/wp-content/uploads/2021/03/Abstract_book_2021S.pdf.
5. Bumbulytė, G., Būda, V. (2022-08-08 - 12). Effects of essential oils and their compounds on mealworm (*Tenebrio molitor* L.) larvae. 3rd Joint Meeting of the International Society of Chemical Ecology (ISCE) and the Asia-Pacific Association of Chemical Ecologists (APACE): abstract book p. 217, Kuala Lumpur, Malaysia.

National scientific conferences:

1. Bumbulytė, G. (2020-09-29) (Lithuania). Search for repellent chemical compounds for *Tenebrio molitor* in essential oils of mint (*Mentha spicata*), thyme (*Thymus vulgaris*). “Student Scientific Conference 2020“organized by the Lithuanian Science Council: abstract book p. 58. <https://www.lmt.lt/lt/doclib/2aa2wt4rkd9g4zep1nuxhw9e9a197v7s>.

OTHERS

1. Norvilaitė, A., Bumbulytė, G. (2013-04-12) (Lithuania). Use of plant extracts to avoid *Sitophilus granarius* L. In the European Union Young Scientists' Competition - II-degree diploma of the Ministry of Education and Science of the Republic of Lithuania. <http://www.njmk.smm.lt/files/Protokolas%20baigiamojo%20turo2013.pdf>.
2. Norvilaitė, A., Bumbulytė, G. (2014-04-04) (Lithuania). Use of plant extracts for control of *Sitophilus granarius* L. In the European Union Young Scientists' Competition - I-degree

- diploma of the Ministry of Education and Science of the Republic of Lithuania. <http://www.njmk.smm.lt/lt/naujienos/13/>
3. Bumbulytė, G., Petreikis, L., (2015-04-03) (Lithuania). Modification of the behavior of the *Sitophilus granarius* L. using natural plant extracts and physical factors. In the European Union Young Scientists' Competition - I-degree diploma of the Ministry of Education and Science of the Republic of Lithuania and a ticket to the international EU Young Scientists' Competition in Milan (Italy); <http://www.njmk.smm.lt/lt/naujienos/32/>.
 4. Bumbulytė, G., Petreikis, L., (2015-09-17) (Italy). Herbal Extracts to Control Granary Weevil (*Sitophilus granarius* L.). In the European Union Young Scientists' Competition won a special prize - a research improvement trip to the Joint Research Center in Ispra (Italy). https://www.smm.lt/web/lt/pranesimai_spaudai/naujienos_1/es-jaunuju-mokslininku-konkursepuikus-musu-atstovu-pasiekimai.
 5. 2019-02-19 in Competition for Research Works of College Students awarded the winner's diploma for the work "Effects of essential oils on the larvae of the stored agricultural product pest *Tenebrio molitor* L.". <http://www.lma.lt/archyvas-2019-m>.
 6. Competition winner for the best Master's Thesis 2020 in agriculture area.
 7. 2021-11-24. LRT radio programme "10-12". The topic was the winning of the competition for the best Master's thesis and the use of insects in the human food and animal feed industry. https://www.lrt.lt/mediateka/irasas/2000187694/10-12-kaip-ziniasklaidoje-piesiami-mamos-ir-tecio-portretai?fbclid=IwAR2FkFukJ9mATfJNJ1_1-Au8aa1UtVLiuEJ8WCGDqBcP8dWqnXdyW8g4k3w (nuo 57 min.)
 8. Bumbulytė, G. (2021). Slyvas atakuoja pjūkleliai. *Rasos*, 24 (584): 34-35
 9. Bumbulytė, G. (2022). Vabzdžiai – ateities maistas ir pašaras. *Jaunasis tyrėjas*. Internetinė nuoroda: <https://www.jaunasis-tyrejas.lt/lt/naujiena/vabzdžiai---ateities-maistas-ir-pasaras/>
 10. Bumbulytė, G. (2022). Avietiniai žiedgraužiai kėsina į uogas. *Rasos*, 7 (591): 31 p.
 11. Bumbulytė, G. (2022). Grėsmingieji kurkliai: ką daryti? *Mano ūkis*, 6: 45 p.
 12. Lučinskaitė, I., Bumbulytė G. (2022) Augalams pavojingos muselės, apie kurias žino ne visi: kai kurių augalų derlių gali sunaikinti visiškai. Internetinė nuoroda: <https://www.lrytas.lt/gamta/flora/2022/04/16/news/augalams-pavojingos-museles-apie-kurias-zino-ne-visi-kai-kuriu-augalu-derliu-gali-sunaikinti-visiskai-23077560>