

Sandra Radžiutė

CONTACT INFORMATION

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EDUCATION AND ACADEMIC DEGREE

- 2009 Doctoral degree of Ecology and Environmental science, title of dissertation "The investigation of kairomones and photosensitizers, affecting *Liriomyza bryoniae* (Diptera, Agromyzidae)", supervisor Prof. Dr Habil. Vincas Būda (Vilnius University, Lithuania)
- 2003 Master's Degree of Ecology and Environmental Studies, thesis title "Chemoecological interactions between insects, between insects and their symbiotic microorganisms using model species from orders Lepidoptera and Coleoptera" (Centre for Environmental Studies of Vilnius University, Lithuania)
- 2001 Bachelor's Degree of Ecological Biology, thesis title "Research of microorganisms, which produce mycotoxins" (Nature Science Faculty of Vilnius University, Lithuania)

PROFESSIONAL EXPERIENCE

- 2021 – until now Senior Researcher, Laboratory of Chemical and Behavioural Ecology, the Institute of Ecology of Nature Research Centre (Vilnius, Lithuania)
- 2010 – 2020 Researcher, Laboratory of Chemical and Behavioural Ecology, the Institute of Ecology of Nature Research Centre (Vilnius, Lithuania)
- 2009 – 2010 Junior Researcher, Laboratory of Chemical and Behavioural Ecology, the Institute of Ecology of Vilnius University, Lithuania
- 2005 – 2009 PhD student, Laboratory of Chemical and Behavioural Ecology, the Institute of Ecology of Vilnius University, Lithuania
- 2003-2005 Engineer in Laboratory of Chemical and Behavioural Ecology, the Institute of Ecology of Vilnius University, Lithuania

RESEARCH INTERESTS

Animal-plant interactions, insects' chemical ecology, insect behaviour, info chemical communication, photoactive compounds' effect on insects, bee pathogens, insects' microbiota.

PUBLICATIONS

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

1. Blažytė-Čereškienė, L., Būda, V., Apšegaitė, V., **Radžiutė, S.**, Būdienė, J., Aleknavičius, D., Mozūraitis, R. (2022). Sea Buckthorn *Hippophae rhamnoides* and Fruit Flies *Rhagoletis batava*: Search for Volatile Semiochemicals Involved in Pest Attraction. *Horticulturae*, 8, 179. <https://doi.org/10.3390/horticulturae8020179> 2021 IF 2.923 / JCR - Q1 (Horticulture) / CiteScore - Q2 (Horticulture)
2. Mozūraitis, R., Apšegaitė, V., **Radžiutė, S.**, Aleknavičius, D., Būdienė, J., Stanevičienė, R., Blažytė-Čereškienė, L., Servienė, E., & Būda, V. (2022). Volatiles Produced by Yeasts Related to *Prunus avium* and *P. cerasus* Fruits and Their Potentials to Modulate the Behaviour of the Pest *Rhagoletis cerasi* Fruit Flies. *Journal of fungi*, 8(2), 1-15. doi:10.3390/jof8020095 [Science Citation Index Expanded (Web of Science); Scopus] [IF: 5,724; AIF: 5,254; IF/AIF: 1,089; Q1 (2021, InCites JCR SCIE)] [CiteScore: 4,10; SNIP: 1,600; SJR: 0,980; Q1 (2021, Scopus Sources)] [M.kr.: N 012] [Contribution: 0,111]
3. 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), 1-12. doi:10.3390/insects13020114 [Science Citation Index Expanded (Web of Science); Scopus] [IF: 3,139; AIF: 2,484; IF/AIF: 1,263; Q1 (2021, InCites JCR SCIE)] [CiteScore: 3,10; SNIP: 1,116; SJR: 0,707; Q2 (2021, Scopus Sources)] [M.kr.: N 012] [Contribution: 0,142]
4. Būda, V., Blažytė-Čereškienė, L., **Radžiutė, S.**, Apšegaitė, V., Stamm, P., Schultz, S., Aleknavičius, D., & Mozūraitis, R. (2020). Male-produced (–)- δ -heptalactone, pheromone of fruit fly *Rhagoletis batava* (diptera: Tephritidae), a sea buckthorn berries pest. *Insects*, 11(2), 7-20. DOI: 10.3390/insects11020138. [Science Citation Index Expanded (Web of Science); Scopus; Zoological Record] [IF: 2,769; AIF: 2,309; IF/AIF: 1,199; Q1 (2020, InCites JCR SCIE)] [CiteScore: 2,30; SNIP: 1,231; SJR: 0,802; Q2 (2020, Scopus Sources)] [M.kr.: N 014, N 010] [Contribution: 0,125]
5. Mozūraitis, R., Aleknavičius, D., Vepškaitė-Monstavičė, I., Stanevičienė, R., Emami, S. N., Apšegaitė, V., **Radžiutė, S.**, Blažytė-Čereškienė, L., Servienė, E., & Būda, V. (2020). *Hippophae rhamnoides* berry related *Pichia kudriavzevii* yeast volatiles modify behaviour of *Rhagoletis batava* flies. *Journal of advanced research*, 21, 71-77. doi:10.1016/j.jare.2019.08.001 [Science Citation Index Expanded (Web of Science); Scopus; ScienceDirect] [IF: 10,479; AIF: 6,440; IF/AIF: 1,627; Q1 (2020, InCites JCR SCIE)] [CiteScore: 13,00; SNIP: 3,288; SJR: 1,659; Q1 (2020, Scopus Sources)] [S.fld.: N 012, N 010] [Contribution: 0,100]
6. Blažytė-Čereškienė, L., Skrodenytė Arbačiauskienė, V., **Radžiutė, S.**, Čepulytė-Rakauskienė, R., Apšegaitė, V., & Būda, V. (2016). A three-year survey of honey bee viruses in Lithuania. *Journal of apicultural research*, 55(2), 176-184. doi:10.1080/00218839.2016.1211389 [Science Citation Index Expanded (Web of Science); Scopus; Zoological Record] [IF: 1,364; AIF: 1,524; IF/AIF: 0,895; Q2 (2016, InCites JCR SCIE)] [CiteScore: 2,00; SNIP: 1,313; SJR: 1,569; Q1 (2016, Scopus Sources)] [S.fld.: N 012] [Contribution: 0,166]
7. Blažytė-Čereškienė, L., Skrodenytė Arbačiauskienė, V., **Radžiutė, S.**, Nedveckytė, I., & Būda, V. (2016). Honey bee infection caused by *Nosema* spp. in Lithuania. *Journal of apicultural science*, 60(2), 77-88. doi:10.1515/JAS-2016-0019 [Science Citation Index Expanded (Web of Science); Scopus; BIOSIS Previews] [IF: 0,722; AIF: 1,524; IF/AIF: 0,473; Q3 (2016, InCites JCR SCIE)] [CiteScore: 0,84; SNIP: 0,720; SJR: 0,384; Q2 (2016, Scopus Sources)] [S.fld.: N 012] [Contribution: 0,200] [Contribution: 0,200]
8. Blažytė-Čereškienė, L., Apšegaitė, V., **Radžiutė, S.**, Mozūraitis, R., Būda, V., & Pečiulytė, D. (2016). Electrophysiological and behavioural responses of *Ips typographus* (L.) to trans-4-thujanol - a host tree volatile compound. *Annals of forest science*, 73(2), 247-256. doi:10.1007/s13595-015-

0494-5 [Science Citation Index Expanded (Web of Science); Scopus; SpringerLink] [IF: 2,101; AIF: 1,697; IF/AIF: 1,238; Q1 (2016, InCites JCR SCIE)] [CiteScore: 2,00; SNIP: 0,982; SJR: 0,807; Q1 (2016, Scopus Sources)] [S.fld.: N 012] [Contribution: 0,166]

9. Mozūraitis, R., **Radžiutė, S.**, Apšegaitė, V., Cravcenko, A., Būda, V., & Nylín, S. (2016). Volatiles released from foliar extract of host plant enhance landing rates of gravid *Polygona c-album* females, but do not stimulate oviposition. *Entomologia experimentalis et applicata*, 158(3), 275-283. doi:10.1111/eea.12405. [Science Citation Index Expanded (Web of Science); Scopus; Wiley Online Library] [IF: 1,162; AIF: 1,524; IF/AIF: 0,762; Q2 (2016, InCites JCR SCIE)] [CiteScore: 1,57; SNIP: 0,868; SJR: 0,804; Q2 (2016, Scopus Sources)] [M.kr.: N 012] [Contribution: 0,166]

10. **Radžiutė, S.** & Būda, V. (2013). Host feeding experience affects host plant odour preference of the polyphagous leafminer *Liriomyza bryoniae*. *Entomologia experimentalis et applicata*, 146(2), 286-292. doi:10.1111/eea.12028. [Science Citation Index Expanded (Web of Science); Scopus; CABI Abstracts Databases] [IF: 1,711; AIF: 1,350; IF/AIF: 1,267; Q1 (2013, InCites JCR SCIE)] [CiteScore: 1,88; SNIP: 0,974; SJR: 0,949; Q1 (2013, Scopus Sources)] [M.kr.: N 012] [Contribution: 0,500]

11. Skrodenytė-Arbačiauskienė, V., **Radžiutė, S.**, Stunžėnas, V., & Būda, V. (2012). *Erwinia typographi* sp. nov., isolated from bark beetle (*Ips typographus*) gut. *International journal of systematic and evolutionary microbiology*. 62(4), 942-948. doi:10.1099/ij.s.0.030304-0. [Science Citation Index Expanded (Web of Science); ASFA: Aquatic Sciences and Fisheries Abstracts selective; MEDLINE] [IF: 2,112; AIF: 3,658; IF/AIF: 0,577; Q3 (2012, InCites JCR SCIE)] [CiteScore: 1,96; SNIP: 1,205; SJR: 1,084; Q2 (2012, Scopus Sources)] [M.kr.: N 012] [Contribution: 0,500]

12. Būda, V., **Radžiutė, S.**, & Lutovinovas, E. (2009). Attractant for vinegar fly, *Drosophila busckii*, and cluster fly, *Pollenia rudis* (Diptera: Drosophilidae et Calliphoridae). *Zeitschrift für Naturforschung = A journal of biosciences*. C, 64(3-4), 267- 270. [Science Citation Index Expanded (Web of Science); Scopus; Biological Abstracts] [IF: 0,800; AIF: 3,571; IF/AIF: 0,224; Q4 (2009, InCites JCR SCIE)] [SNIP: 0,445; SJR: 0,350 (2009, Scopus Sources)] [M.kr.: N 012] [Contribution: 0,333]

13. Būda, V. & **Radžiutė, S.** (2008). Kairomone attractant for the leafmining fly, *Liriomyza bryoniae* (Diptera, Agromyzidae). *Zeitschrift für Naturforschung*, 63(7-8), 615-618. [Social Sciences Citation Index (Web of Science); Science Citation Index Expanded (Web of Science); Scopus] [IF: 0,776; AIF: 3,585; IF/AIF: 0,216; Q4 (2008, InCites JCR SCIE)] [SNIP: 0,609; SJR: 0,349 (2008, Scopus Sources)] [M.kr.: N 004] [Contribution: 0,500]

14. Lukšienė, Ž., Kurilčik, N., Juršėnas, S. A., **Radžiutė, S.**, & Būda, V. (2007). Towards environmentally and human friendly insect pest control technologies: photosensitization of leafminer flies *Liriomyza bryoniae*. *Journal of photochemistry and photobiology*. B, 89(1), 15-21. doi: 10.1016/j.jphotobiol.2007.07.001. [Science Citation Index Expanded (Web of Science); Ingenta Connect; ScienceDirect] [IF: 1,919; AIF: 3,611; IF/AIF: 0,531; Q3 (2007, InCites JCR SCIE)] [SNIP: 1,108; SJR: 0,630 (2007, Scopus Sources)] [M.kr.: N 002, N 012] [Contribution: 0,200]

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

1. Būda, V., Lukšienė, Ž., **Radžiutė, S.**, Kurilčik, G., & Juršėnas, S. A. (2006). Search for photoinsecticides: effect of hematoporphyrin dimethyl ether on leafmining pest *Liriomyza bryoniae* (Diptera: Agromyzidae). *Agronomy research*, 4(spec. iss.), 141-146 [Science Citation Index Expanded (Web of Science); AGRICOLA; CAB Abstracts] [M.kr.: N 002, N 012] [Contribution: 0,200]

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

1. Apšegaitė, V., Binkienė, R., Blažytė-Čereškienė, L., Būda, V., Griekienienė, J., Karalius, V., Komisarovas, J., Križanauskienė, A., Kutkienė, L., Lekevičius, E., Petkevičiūtė, R., **Radžiutė, S.**, Repečka, R., Stanevičiūtė, G., Stunžėnas, V., Vaitkevičienė, G. ir Valkiūnas, G. (2007). *Biota and global change: the first book*. Vilnius: [VU Ekologijos institutas, Petro ofsetas]. [M.kr.: N 012] [Contribution: 0,058]
2. Skrodenytė-Arbačiauskienė, V., Būda, V., **Radžiutė, S.**, & Stunžėnas, V. (2006). Myrcene-resistant bacteria isolated from the gut of phytophagous insect *Ips typographus*. *Ekologija*, 4, 1-6 [Zoological Record; ASFA: Aquatic Sciences and Fisheries Abstracts; VINITI] [M.kr.: N 012] [Contribution: 0,250]
3. Lukšienė, Ž., Būda, V., & **Radžiutė, S.** (2005). Effects of visible-light-activated hematoporphyrin dimethyl ether on the survival of leafminer *Liriomyza bryoniae*. *Ekologija*, 3, 17-21. [Zoological Record] [M.kr.: N 010, N 011] [Contribution: 0,333]

Reviewed scientific articles, published in Lithuania:

1. Blažytė-Čereškienė, L., Skrodenytė Arbačiauskienė, V., **Radžiutė, S.**, Čepulytė-Rakauskienė, R. ir Būda, V. (2014). *Nosema spp. and bee viruses in Lithuanian apiaries in 2012-2013; effect on wintering of bees*. From Bee Wellness: The Republican Scientific-Practical Conference to celebrate the 25th anniversary of the restoration of the Lithuanian Beekeepers' Union, which took place on April 30, 2014. Lithuanian University of Education, materials (pp. 23-33). Vilnius: Vaibra. [M.kr.: N 012] [Contribution: 0,200] [Indėlis autoriniais lankais: 0,157]

PARTICIPATION IN INTERNATIONAL AND NATIONAL SCIENTIFIC PROGRAMMES AND PROJECTS

2020 – 2021	Project implementer Project supported by the EU „Development of a prototype of spectrometric technology and methodology for preventive on-site quality assessment of oysters " (EUREKA). Project funded by the Agency for Science, Innovation and Technology.
2018 – 2021	Project implementer Project supported by the EU. “The role of metabolites in three-trophic interactions between plant, microorganisms and phytophagous insects” Project funded by the Research Council of Lithuania.
2019	Project implementer EIP project „Development of an integrated pest control system using aerodistance-spectrometric methods”. Project funded by National Paying Agency under the Ministry of Agriculture of the Republic of Lithuania.
2012	Project leader Project funded by the Research Council of Lithuania „Detection of alien disease agents in bees, <i>Apis mellifera</i> , and regularities of their distribution in Lithuania“.
2010-2011	Project implementer Project funded by the Research Council of Lithuania “Insects and entomopathogens: interactions between alien and local species and

- diagnostic methods”.
- 2010-2011 **Project implementer** Project funded by the Research Council of Lithuania “Dynamics of spruce metabolites, which influences the attractiveness of the tree to bark beetles *Ips typographus* and the factors causing the dynamics“.
- 2008 **Project implementer** Project funded by Lithuanian State Science and Studies Foundation (Lithuania) “Biological invasions in Lithuanian ecosystems under climate change conditions: causes, impact, prognosis”.
- 2006 **Project implementer** Project funded by Lithuanian State Science and Studies Foundation (Lithuania) “Photosensibilization for pest control: leafmining fly *Liriomyza bryoniae*”.
- 2005 **Project implementer** Project funded by Lithuanian State Science and Studies Foundation (Lithuania) “Research of conversion of plant ethereal oil component myrcene to ipsdienol”.

INTERNSHIP AND TRAINING

- 2006-2008 "Interdisciplinary Trainings on Global Change", Vilnius University, Institute of Ecology of Vilnius University, Vilnius

PARTICIPATION IN SCIENTIFIC CONFERENCES

International scientific conferences:

1. Mozūraitis R., Blažytė-Čereškienė L., **Radžiutė S.**, Apšegaitė V., Čepulytė R., Stamm P., Schulz S., Aleknavičius D., Būda V. 2021. (S) - (-)- δ -Heptalactone, an aggregation pheromone of fruit fly *Rhagoletis batava*, a Hippophae rhamnoides berries pest. The 36th ISCE Annual Meeting, South Africa, September 5-10, p. 91. [2021 abstracts.pdf \(chemecol.org\)](#)
2. Mozūraitis R., Aleknavičius D., **Radžiutė S.**, Blažytė-Čereškienė L., Servienė E., Būda V. 2019. Effect of the volatiles released by yeasts related to sea buckthorn *Hippophae rhamnoides* berries on behaviour of *Rhagoletis batava* flies. The 35th ISCE Annual Meeting, Atlanta, USA, June 2- 6, p. 66. <https://chemecol.org/programs/2019%20abstracts.pdf>
3. Būda V., Aleknavičius D., Apšegaitė V., **Radžiutė S.**, Blažytė-Čereškienė L., Servienė E., and Butkienė R. 2019. Is buckthorn and fruit fly interaction mediated by yeasts? The 35th ISCE Annual Meeting, Atlanta, USA, June 2- 6, p. 15
4. Blažytė-Čereškienė L., Skrodenytė-Arbačiauskienė V., **Radžiutė S.**, Būda V. 2012. *Nosema apis* and *Nosema ceranae* in honeybee (*Apis mellifera* L.) colonies in Lithuania. The 5th European Conference of Apidology (EurBee 5), Halle an der Saale, Germany, September 3 - 7, p. 219.
5. **Radžiutė S.**, Butkienė R., Būda V. 2012. Differences in cuticular component composition as an identification key for two economically important *Liriomyza* species. The 28th ISCE Annual Meeting, Abstracts, Vilnius, Lithuania, July 22 - 26, p. 219
6. Skrodenytė-Arbačiauskienė V., **Radžiutė S.**, Stunžėnas S., Būda V. 2012. Myrcene-resistant bacteria isolated from the gut of the phytophagous insect *Ips typographus* L. The 28th ISCE Annual Meeting, Abstracts, Vilnius, Lithuania, July 22 - 26, p. 206.
7. Apšegaitė V., **Radžiutė S.**, Pukėnas S., Būda V. 2012. Chemoecological interactions between two varieties of the purple willow *Salix purpurea* L. and its pest *Pontania vesicator*

- (Hymenoptera, Tenthredinidae). The 28th ISCE Annual Meeting, Abstracts, Vilnius, Lithuania, July 22 - 26, p. 170
8. **Radžiutė S.**, Apšegaitė V., Būda V. 2010. Tomato plant damage by economically important leafminer *Liriomyza bryoniae* induces changes in tomato volatile emissions. The 26th ISCE Annual Meeting, Meeting Overview, Tours, France, July 31 - August 04, p. 257.
 9. **Radžiutė S.**, Apšegaitė V., Butkienė R., Būda V. 2009. GC-EAD responses of tomato leafminer *Liriomyza bryoniae* (Diptera, Agromyzidae) females to tomato headspace volatiles. The 25th ISCE Annual Meeting, Neuchatel, Switzerland, August 23 - 27, p. 264.
 10. Būda V., **Radžiutė S.** 2008. Reaction of leafminer *Liriomyza bryoniae* to plant volatiles. The 25th ISCE Anniversary Meeting, Pennsylvania, USA, August 17 - 22, p. 155.
 11. Būda V., **Radžiutė S.** 2007. Reaction of leafminer *Liriomyza bryoniae* to plant volatiles. The 23rd ISCE Annual Meeting, Jena, Germany, July 22 – 26.
 12. **Radžiutė, S.** and Būda, V. 2006. Olfactory (EAG) and behavioural reactions of polyphagous fly *Liriomyza bryoniae* (Diptera, Agromyzidae) to host plant volatiles. The 4th International Conference “Chemical communication in animals. Fundamental problems”, Moscow, Russia, p. 17 (in Russian).
 13. Būda, V. and **Radžiutė, S.** 2005. Identification of the pheromone of the invasive microlepidopteran species *Phyllonorycter issikii*. Insect research: present and perspectives (abstracts of reports of the international scientific conference). Vilnius: VPU leidykla, p. 16-17.

National scientific conferences:

1. **Radžiutė S.** 2009. „The investigation of kairomones and photosensitizers, affecting *Liriomyza bryoniae* (Diptera, Agromyzidae)”. Conference of young scientists, Biofuture: perspectives of natural and life sciences, Vilnius, Lithuania, December 15th.

OTHERS

1. Blažytė-Čereškienė, L., **Radžiutė, S.**, Skrodenytė-Arbačiauskienė, V. ir Būda, V. (2013). New threats to honeybees. My farm, 4, 61-62. [in Lithuanian]
2. **Radžiutė, S.**, Būda, V. 2011. Photoinsecticides. *The guide of the young researcher*. Vilnius: Lodvila, p.7-32. ISBN 978-9955-899-09-9[in Lithuanian]