Rasa Čepulytė

CONTACT INFORMATION

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EDUCATION AND ACADEMIC DEGREE

2012 Ph.D., Ecology and Environmental Sciences, Vilnius university;

2007 M.Sc., Ecology and Environmental Sciences, Vilnius university;

2004 B.Sc., Biology (Zoology), Vilnius University.

PROFESSIONAL EXPERIENCE

2022 – now - senior researcher, Nature Research Centre Institute of Ecology, Laboratory of Chemical and Behavioral Ecology;

2017 – 2022 - researcher, Nature Research Centre Institute of Ecology, Laboratory of Chemical and Behavioral Ecology;

2015 – 2017 - postdoc, Plant Pathology Department, University of California, Davis, USA;

2013 – 2015 - postdoc, Nature Research Centre Institute of Ecology, Laboratory of Chemical and Behavioral Ecology;

2013 – 2015 - lecturer, Vilnius University;

2010 – 2013 - junior researcher, Nature Research Centre Institute of Ecology, Laboratory of Chemical and Behavioral Ecology;

2007 – 2013 - senior specialist, State Plant Service under the Ministry of Agriculture, Phytosanitary Research Laboratory.

RESEARCH INTERESTS

Chemical and behavioral ecology of soil nematodes.

PUBLICATIONS

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

1. **Čepulytė R.,** Būda V., **2022**. Towards chemical ecology of plant-parasitic nematodes: kairomones, pheromones, and other behaviorally active chemical compounds. *J. Agric. Food Chem*. 1367-1390. IF 5.895 ; Q1
2. Būda V., Radžiutė S., Apšegaitė V., Blažytė-Čereškienė L., **Čepulytė R**., B umbulytė 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. IF 3.139 ; Q1
3. Campos-Herrera R., Vicente-Díez I., Blanco-Pérez R., Chelkha M., González-Trujillo M. del Mar , Puelles M., **Čepulytė R**., Pou A., **2021**. Positioning entomopathogenic nematodes for the future viticulture: exploring their use against biotic threats and as bioindicators of soil health. *Turkish Journal of Zoology* 45: 335-346. IF 0.932 ; Q4
4. **Čepulytė R**., Danquah W. B., Bruening G., and Williamson V. M., **2018**. Potent attractant for root-knot nematodes in exudates from seedling root tips of two different host species. *Scientific Reports, Nature,* 8: 10847. IF 4.011 ; Q1
5. 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]
6. Būda V., **Čepulytė-Rakauskienė R., 2015**. The effects of α-solanine and zinc sulphate on the behavior of potato cyst nematodes *Globodera rostochiensis* and *G. pallida. Nematology,* 17 (2015) 1105-1111. IF 1.061 ; Q2
7. Campos-Herrera R., Půža V., Jaffuel G., Blanco-Peréz R., **Čepulytė-Rakauskienė R.**, Turlings T.J.C., **2015**. Unraveling the intraguild competition between Oscheius spp. nematodes and entomopathogenic nematodes: implications for their natural distribution in Swiss agricultural soils. *Journal of Invertebrate Pathology,* 132: 216–227. IF 2.198 ; Q1
8. Būda, V.; **Čepulytė-Rakauskienė, R.** The effect of linalool on second-stage juveniles of the potato cyst nematodes *Globodera rostochiensis* and *G. pallida*. *Journal of Nematology*. Marceline : Society of Nematologists. ISSN 0022-300X. 2012, vol. 43, no. 3-4, p. 149-151. [Science Citation Index Expanded (Web of Science); Zoological Record; Biological Abstracts] [IF: 0,333; AIF: 1,521; IF/AIF: 0,218; Q4 (**2012**, InCites JCR SCIE)] [CiteScore: 0,48; SNIP:0,487; SJR: 0,308; Q3 (2012, Scopus Sources)] [S.fld.: N 012] [Contribution: 1,000]

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

1. Williamson V. M. **Čepulytė R., 2017**. Assessing attraction of nematodes to host roots using pluronic gel medium. In: Binder B. M. and Schaller G.E. (eds.) Ethylene Signaling: *Methods and Protocols, Methods in Molecular Biology*, Springer Science+ Business Media LLC, 1573, DOI 10.1007/978-1-4939-6854-1_19:261-268 (book chapter).

INTERNSHIP AND TRAINING

2021 01 – 03 Department of Viticulture, Institute of Grapevine and Wine Sciences (CSIC-Universidad de La Rioja-Gobierno de La Rioja), Logroño, Spain, chemical ecology of soil nematodes;

2019 07 – 09 Pennsylvania State College of Agricultural Sciences, Department of Entomology, Pennsylvania, USA, chemical ecology of soil nematodes;

2018 08 – 10 Nematology Department, University of California Riverside, USA, chemical ecology of soil nematodes;

2015 01 – 02 Plant Pathology Department, University of California, Davis, USA), chemical ecology of plant parasitic nematodes;

2014 10 – 11 Neuchâtel University Faculte des Sciences, Institute de Biology, Fundamental and Applied Research in Chemical Ecology, chemical ecology of invertebrates;

2013 09 EuroVOL summer school, Neuchâtel University Faculte des Sciences, Institute de Biology, fundamental and applied research in chemical ecology

PARTICIPATION IN SCIENTIFIC CONFERENCES

1. **Čepulytė R.**, Būda, V., On Chemical Ecology of Plant-parasitic Nematodes. The 37th annual meeting of the ISCE took place from 8-12 August **2022** in Kuala Lumpur, Malaysia: S6-P59:230.
2. González-Trujillo M. del Mar; **Čepulytė R**., Vicente-Díez N., Blanco-Pérez R., Chelkha M., Puelles M.,Gámez A., Ramos-Sáez de Ojer J. L., Campos-Herrera R., **2021**. Screening of adjuvants to enhance theentomopathogenic nematode survival and adherence after aerial application on grapevine leaves. 2021 International Congress on Invertebrate Pathology and Microbial Control & 53rd Annual Meeting of the Society for Invertebrate Pathology. 28th June – 2nd July: 143.
3. **Čepulytė R.**, Danquah W. B., Bruening G., and Williamson V. M., **2018**. Assessing the response of root-knot nematodes to plant semiochemicals. The 34th ISCE Annual Meeting. 12-18 August, BudapestHungary. 83.
4. Williamson V. M. **Čepulytė -Rakauskienė R.**, Danquah W.B., Bruening G., **2016**. Assessing the responseof root-knot nematodes to plant and nematode semiochemicals. 32nd Symposium of European Society of Nematologists, 28th Aug.- 1st Sept, Braga, Portugal: 41.
5. **Čepulytė -Rakauskienė R**., V. M. Williamson., **2016**. Investigation of root-knot nematode male behaviorin pluronic gel. Joint meeting of SON/ONTA: 55th annual meeting of Society ofnematologists. and 48th meeting of Organization of Nematologists of Tropical America. July 17th-22nd , Montreal, Canada:66.
6. **Čepulytė-Rakauskienė R**., M. Danquah W.B., Bruening G., Williamson V., **2016.** Responses of root- knot nematodes to host plant and nematode-generated chemical compounds. 2nd Annual UC Davis PostdoctoralResearch Symposium, May 18th.
7. **Čepulytė-Rakauskienė R.**, Būda V., **2015**. Research on sex pheromone of quarantine potato pest –potatocyst nematode Globodera rostochiensis. The project "Postdoctoral (postdoc) Fellowship Implementation in Lithuania" final conference, 19th-20th of February.
8. **Čepulytė -Rakauskienė R.**, Būda V., **2014**. Chemoecological interactions of plant parasitic nematodes.Advances in Nematology, Linnean Society of London, 16th December, Piccadilly,UK: 25.
9. Blažytė-Čereškienė L., Skordenytė-Arbačiauskienė V., Radžiutė S., **Čepulytė-**

Rakauskienė R., ApšegaitėV., Būda V., **2014**. Deformed wing virus and variation of polyprotein gene sequence in Lithuanian honey bees. Sixth European conference of apidology.9-11September 2014, Murcia, Spain.

10. **Čepulytė-Rakauskienė R**. Butkienė R., Būda V., **2014**. Searching for pheromone of Globodera rostochiensis. The 30th ISCE Annual Meeting. Meeting Overview, 8-12 July, Urbana-Champaign,Illinois, USA: 130.
11. Blažytė-Čereškienė L., Skrodenytė-Arbačiauskienė V., Radžiutė S., **Čepulytė-Rakauskienė R**., Apšegaitė V., Būda V., **2013**. The spread of Nosema spp. and viruses among honeybee (Apis mellifera l.) colonies in Lithuania. XXXXIII International Apicultural Congress, 29 September— 04 October 2013, Kyiv.
12. **Čepulytė-Rakauskienė R., 2012.** Potato cyst nematodes Globodera rostochiensis and Globodera pallida, and their chemoecological interactions with the host plant. Biofuture. Perspectives of natural and life sciences, December 5, Vilnius: 2–3 (awarded as the best report).
13. **Čepulytė-Rakauskienė R.,** Būda V., **2012**. Activity suppression in second-stage juveniles of the potato cyst nematode Globodera pallida. The 28th ISCE Annual Meeting. Meeting Overview, 22–26July, Lithuania, Vilnius: 109.
14. **Čepulytė-Rakauskienė R.,** Būda V., **2011**. α–Solanine effect on potato cyst nematode Globodera rostochiensis and Globodera pallida second–stage juveniles. The 27th ISCE Annual Meeting.MeetingOverview, 24–28 July, British Columbia, Canada: 94.
15. **Čepulytė R.,** Būda V., **2010**. Reaction to linalool in two species of potato cyst nematodes Globoderarostochiensis and Globodera pallida. The 26th ISCE Annual Meeting. Meeting Overview 31 July – 04 August, Tours, France: 258.

PARTICIPATION IN THE STUDY PROCESS

Supervision of bachelor and master students:

Supervising two master students: **2021-2023** and **2022-2024**.

2019 – a committee member of D. Aleknavičius doctaral disertartion defence.

OTHERS

2022 - Project extpert, Dutch Research Council (NWO), Talent Programme 2022.

2012 - First prize award of Lithuanian Academy of Sciences for the best Ph.D. thesis for Young Scientist Research entitled "Potato cyst nematodes *Globodera rostochiensis* and *Globodera pallida*, and their chemoecological interactions with the host plant".

2007 - award of Lithuanian Academy of Sciences for the M.Sc. thesis for Young Scientist Research entitled "Golden potato cyst nematode (*Globodera rostochiensis*) identification, pathotypes and distribution, and pale potato cyst nematode (*Globodera pallida*) state in Lithuanian agroecosystems".