

Publications

Adalbert Balog

A. Ph.D thesis

Balog A.: *Effect of ecological disturbance on staphylinidae communities (Coleoptera: Staphylinidae) in orchards*. Budapest University of Economic Science and Public Administration, Faculty of Horticultural Science, Department of Entomology, 2003. Supervisor: Prof. Dr. Zoltán Mészáros, Prof. Dr. Viktor Markó.

B. Books

B1. Student course

1. **Balog, A.:** *Zoology in plant protection* (in. Hungarian) University Press Budapest, 2002. 98 pp. (For students 3th semester Horticultural Engineering).

B2. Other books

1. **Balog, A.** (2012): *Effect of ecological disturbance on staphylinidae communities (Coleoptera: Staphylinidae) in orchards*. Editor Scientia, Cluj 160 pp.
2. Bálint, J., **Balog, A.**, Nyárádi, I.I. (2012): *What we had to know from pesticides*. University Press, ISBN 978-973-169-174-9, 284 pp.

C. Scientific papers

C1. Peer-reviewed ISI papers (*-author for correspondent, the impact factor and Scimago ranking included at the end).

1. Keszthelyi, S., Gerbovits, B., Donkó, T., Csóka, A., **Balog, A.**, Jócsák, I (2025). The massification of an atypical field symptom: damaged oilseed rape caused by *Aulacobaris coerulescens* (Col.: Curculionidae) using computed tomography approaches. *J Plant Dis Prot* 132:170. <https://doi.org/10.1007/s41348-025-01168-0>. (IF. 2.2) Scimago ranking Q1.
2. **Balog, A***, Martin, K. (2025). Comparison of Soil-Dwelling Predatory Arthropod Activity Density and Diversity Under Annual and Perennial Cereal Production in Europe. *Journal of Applied Entomology*. (in press) <https://doi.org/10.1111/jen.70024>. (IF. 2) Scimago ranking Q2.
3. Keszthelyi, S., Toth, Z., **Balog, A** (2025). A Tillage-Dependent System of Arable Pests: How Soil Condition and Prevailing Climate Influence Pest Occurrence? *Agronomy*, 15, 1454. <https://doi.org/10.3390/agronomy15061454>. (IF. 3.4) Scimago ranking Q1.
4. Csorba, A.B., Dinescu, S., Gradisteanu Pircalabioru, G., For a, C.G., Loxdale, H.D., **Balog, A***. (2025). Corn leaf aphid, *Rhopalosiphum maidis* (Fitch) (Hemiptera: Aphididae) population expansion influenced by endosymbiotic bacterial diversity along a gradient of maize management and climate conditions. *Symbiosis*, 95:363–374. <https://doi.org/10.1007/s13199-025-01054-1>. (IF. 2.00) Scimago ranking Q1.
5. Csorba, A.B., Szanyi, K., Szanyi, Sz., Tarcali, G., **Balog, A***, Nagy, A. (2025). Pre-Crop Chemical Control Has No Effects on Corn Leaf Aphid, *Rhopalosiphum maidis* (Fitch) (Hemiptera: Aphididae)

Endosymbiotic Bacterial Diversity Along an Industrial Maize Management. *Insects* 2025, 16, 417. <https://doi.org/10.3390/insects16040417>. (IF. 2.9) Scimago ranking Q1.

6. Loxdale HD., **Balog A.** (2025). The Paradox of Generalism, a philosophical perspective. *Generalism, a philosophical perspective. Front. Ecol. Evol., Sec. Behavioral and Evolutionary Ecology*, Volume 13 – 2025, doi: 10.3389/fevo.2025.1562456. (IF. 2.6) Scimago ranking Q1.
7. Keszthelyi, S., Gerbovits, B., Donkó, T., Csóka, Á., **Balog, A.**, Somfalvi-Tóth, K. (2024). Comparative analysis of hidden damage caused by the stem borer *Ceutorhynchus* species in oilseed rape using computer tomography. *Agricultural and Forest Entomology*, 27(3), 369-376. <http://dx.doi.org/10.1111/afe.12669>. (IF. 1.8) Scimago ranking Q1.
8. Fora, CG., Dinescu, S., Gradisteanu Pircalabioru, G., Loxdale, H.D., **Balog, A***. (2024). Oak aphids *Tuberculatus Annulatus* (Hartig, 1841) and *Thelaxes Dryophila* (Schränk, 1801) (Hemiptera: Aphididae) endosymbiont microbiome diversity alters between natural and artificial oak forests regeneration. *Symbiosis*, <https://doi.org/10.1007/s13199-024-01023-0>. (IF. 2.00) Scimago ranking Q1.
9. Fora, CG., Csorba, AB., **Balog, A***. (2024). The Effect of Spinosad on the Oak Lace Bug *Corythucha arcuata* (Hemiptera: Tingidae)—A Preliminary Study Performed Under Laboratory Conditions. *Insects* 15 (10), 815. <https://doi.org/10.3390/insects15100815>. (IF. 2.9) Scimago ranking Q1.
10. Demeter, I., Lajos, K., **Balog, A.**, Sárospataki, M. (2014). Hymenopteran groups' role in ecological indication along the last traditionally managed meadows in Eastern Europe. *Ecology and Evolution* 14 (10), e70306. <https://doi.org/10.1002/ece3.70306>. (IF. 2.3) Scimago ranking Q1.
11. Csorba, A.B., Dinescu, S., Gradisteanu Pircalabioru, G., Fora, C.G., Bálint, J., Loxdale, H.D., **Balog, A***. (2024). Aphid adaptation in a changing environment through their bacterial endosymbionts: an overview, including a new major cereal pest (*Rhopalosiphum maidis* (Fitch) scenario. *Symbiosis*. <https://link.springer.com/article/10.1007/s13199-024-00999-z>. (IF. 2.00) Scimago ranking Q1.
12. Keszthelyi S., Orsi-Gibicsar Sz., Pal-Fam F., Somfalvi K., **Balog A.** (2024). Colour polymorphism of cotton bollworm larvae as a function of the type of host plant providing its development. *Front. Ecol. Evol., Sec. Behavioral and Evolutionary Ecology*, Volume 12/2024. <https://doi.org/10.3389/fevo.2024.1376435>. (IF. 2.6) Scimago ranking Q1.
13. Demeter, I., Sárospataki, M., Zsigmond, A.R., Lajos, K., **Balog, A***. (2023). Deleterious Effect of LiCl on Honeybee (*Aphis mellifera*) Grubs and no Effect on Varroa mites (*Varroa destructor*) under Normal Beekeeping Management. *Biologia Futura*. 75 (2), 199-204. <https://doi.org/10.1007/s42977-023-00196-x>. (IF. 1.8) Scimago ranking Q3.
14. Székely-Varga, Zs., Simpf, R., Kentelky, E., Benedek, K., Molnár, K., Biró-Janka, B., **Balog, A***. (2023). Comparing different grass species varieties and grass mixtures in the environmental conditions of Targu Mures. *Scientific Papers. Series B, Horticulture*. Vol. LXVII, No. 1. https://horticulturejournal.usamv.ro/pdf/2023/issue_1/Art64.pdf (IF. 0.3).
15. Buchkowski, RW*, Benedek, K., Bálint, J., Molnár, A., Felföldi, T., Fazakas, Cs., Schmitz, OJ., **Balog, A***. (2023). Plant chemical variation mediates soil bacterial community composition. *Scientific Reports*. 13(1), 6088. [10.1038/s41598-023-32935-4](https://doi.org/10.1038/s41598-023-32935-4) (IF. 3.8). Scimago ranking D1.

16. Szabó, KA*, Bálint, J., Molnár, A., Aszalos, SzE., Fora, CG., Loxdale, HD., **Balog, A***. (2022). Associational susceptibility of crop plants caused by the invasive weed Canadian goldenrod, *Solidago canadensis*, via local aphid species. *Frontiers in Ecology and Evolution*. 10:1080599. <https://doi.org/10.3389/fevo.2022.1080599>. (IF. 3.00). Scimago ranking Q1.
17. Fora, CG*, Boja, N., Moatar, M., Tóth, F., **Balog, A***. (2022). Effect of entomopathogenic fungi, *Beauveria bassiana* (Cordycipitaceae), on the bark beetle, *Ips typographus* (L.), under field conditions. *Insects* 13(10), 885. <https://doi.org/10.3390/insects13100885>. (IF. 3.00). Scimago ranking Q1.
18. Putnoky-Csicsó, B., Tóth, F., Bálint, J., Kentelky, E., Benedek, K., Fora, GC., Nyárádi, II., **Balog, A***. (2022). Entomopathogenic fungus *Metarhizium anisopliae* (strain NCAIM 362) effects on soil inhabiting *Melolontha melolontha* (Coleoptera) and *Duponchelia fovealis* (Lepidoptera) larvae in sweet potato (*Ipomoea batatas* L.). *Plant Protection Science* 58(3), 264-268. <https://doi.org/10.17221/2/2022-PPS> (IF. 1.30). Scimago ranking Q3.
19. Csorba, AB., For a, GC., Bálint, J., Felföldi, T., Szabó, A., Máthé, I., Loxdale, HD., Kentelky, E., Nyárádi, II., **Balog, A***. (2022). Endosymbiotic bacterial diversity of corn leaf aphid, *Rhopalosiphum maidis* Fitch (Hemiptera: Aphididae) associated by maize management systems. *Microorganisms* 2022, 10(5), 939. <https://doi.org/10.3390/microorganisms10050939>. (IF. 4.50). Scimago ranking Q2.
20. Kentelky E., Szekely-Varga Zs., Bálint J., **Balog A***. (2021). Enhance Growth and Flower Quality of *Chrysanthemum indicum* L. with Application of Plant Growth Retardants. *Horticulture* 7(12), 532. <https://doi.org/10.3390/horticulturae7120532>. (IF. 2.923). Scimago ranking Q1.
21. Demeter I., **Balog A***, Sarospataki M*. (2021). Variation of small and large wild bee communities under honey bee pressure in highly divers natural habitats. *Frontiers in Ecology and Evolution* 9(750236). <https://doi.org/10.3389/fevo.2021.750236>. (IF. 4.493). Scimago ranking D1.
22. Fora, C.G*, **Balog, A***. (2021). The effects of the management strategies on spruce bark beetles populations (*Ips typographus* and *Pityogenes chalcographus*), in Apuseni Natural Park, Romania. *Forests* 12(6), 1-11. <https://doi.org/10.3390/f12060760>. (IF. 3.282). Scimago ranking Q1.
23. Lajos, K., Demeter, I., Mák, R., **Balog, A***, Sárospataki, M*. (2021). Preliminary assessment of cavity-nesting Hymenopterans in a low-intensity agricultural landscape in Transylvania. *Ecology and Evolution* 11(17), 11903-11914. <https://doi.org/10.1002/ece3.7956>. (IF. 2.912). Scimago rank Q1.
24. Szenkovics, D., Tonk, M., **Balog A***. (2021). Can genetically modified (GM) crops act as possible alternatives to mitigate world political conflicts for food? *Food and Energy Security*, 10 (1), e268. <https://doi.org/10.1002/fes3.268>. (IF. 4.667). Scimago rank D1.
25. Csorba, A.B., Bálint, J., Felföldi, T., Szabó, A., Fora, C.G., Máthé, I., Loxdale, H.D., **Balog, A***. (2021). Endosymbiotic bacterial diversity associated with corn leaf aphid, *Rhopalosiphum maidis* Fitch (Hemiptera: Aphididae) populations under different maize management systems – preliminary study. *North-Western Journal of Zoology* 17(2), 155-159. http://biozoojournals.ro/nwjz/content/v17n2/nwjz_e201105_Csorba.pdf. (IF. 0.778). Scimago rank Q3.
26. Demeter, I., **Balog, A.**, Józson, Zs., Sárospataki, M. (2021). Comparison of wild bee communities of three semi-natural meadow habitats at Harghita Covasna regions, Transylvania, Romania. *Acta*

27. Putnoky-Csicsó, B., Tonk, Sz., Szabó, A., Márton, Zs., Tóthné Bogdányi, F., Tóth, F., Abod, É., Bálint, J., **Balog A***. (2020). Effectiveness of the entomopathogenic fungal species *Metarhizium anisopliae* strain NCAIM 362 treatments against soil inhabiting *Melolontha melolontha* larvae in sweet potato (*Ipomoea batatas* L.). Journal of Fungi 6(3), 116, <https://doi.org/10.3390/jof6030116>. (IF. 5.816). Scimago rank D1.
28. Domokos E., Bíró-Janka B., Bálint J., Molnár K., Fazakas Cs., Jakab-Farkas L., Domokos J., Albert Cs., Mara Gy., **Balog A***. (2020). Arbuscular mycorrhizal fungus *Rhizophagus irregularis* influences *Artemisia annua* plant parameters and artemisinin content under different soil types and cultivation methods. Microorganisms 8(6), 899; <https://doi.org/10.3390/microorganisms8060899>. (IF. 4.128). Scimago rank Q2.
29. Szabó KA, Várallyay É, Demian E, Hegyi, A, Nagyné Galbács Zs, Kiss J, Bálint J, Loxdale HD, **Balog A***. (2020). Local aphid species infestation on invasive weeds affects virus infection of nearest crops under different management systems-a preliminary study. Frontiers in Plant Science 11(684); <https://doi.org/10.3389/fpls.2020.00684>. (IF. 5.753). Scimago rank D1.
30. Turoczi, B., Bakonyi, J., Szabó, KA., Bálint, J., Máthé, I., Lányi, Sz., **Balog, A***. (2020). In vitro and in vivo effect of poplar bud extracts on Phytophthora infestans: a new effective biological method in potato late blight control. Plants 9(2), 217; <https://doi.org/10.3390/plants9020217>. (IF. 3.935). Scimago rank Q1.
31. Loxdale HD., **Balog A.**, Biron DG. (2020) Aphids in focus: unravelling their complex ecology and evolution using genetic and molecular approaches. Review. Biological Journal of the Linnean Society 129(3), 507-531. <https://doi.org/10.1093/biolinnean/blz194>. (IF. 2.138). Scimago rank Q1.
32. Tóthné Bogdányi F, Petrikovszki R, **Balog A**, Putnoki Csicsó B, Gódor A, Bálint J, Tóth F (2019). Current knowledge of the entomopathogenic fungal species *Metarhizium flavoviride* sensu lato and its potential in sustainable pest control. Insects 10(11), 385. <https://doi.org/10.3390/insects10110385> (IF. 2.22). Scimago rank Q1.
33. Loxdale HD, **Balog A**, Harvey JA (2019). Generalism in nature...the great misnomer: aphids and wasp parasitoids as examples. Insects 10(10), 314. <https://doi.org/10.3390/insects10100314>. (IF. 2.22). Scimago rank Q1.
34. Benedek, K., Bálint, J., Máthé, I., Mara, Gy., Felföldi, T., Szabó, A., Fazakas, Cs., Albert, Cs., Buchkowski, R.W., Schmitz, O.J., **Balog, A***. (2019). Linking intraspecific variation in plant chemical defence with arthropod and soil bacterial community structure and N allocation. Plant and Soil 444, 383–397. <https://doi.org/10.1007/s11104-019-04284-7>. (IF. 3.299). Scimago rank Q1.
35. Mehrparvar, M., Rajaei, A., Rokni, M., **Balog, A.**, Loxdale, HD. (2019) Bottom-up effects in a tritrophic plant-aphid-parasitoid system: Why being the perfect host can have its disadvantages. Bulletin of Entomological Research, 109(6), 831-839. <https://doi.org/10.1017/S0007485319000129>. (IF. 1.814). Scimago rank Q1.
36. Szabó AK, Kiss J, Bálint J, Kőszeghi Sz, Loxdale HD, **Balog A***. (2019). Low and high input agricultural fields have different effects on pest aphid abundance via different invasive alien weed

species. *NeoBiota* 43, 27-45. <https://doi.org/10.3897/neobiota.43.31553>. (IF. 2.643). Scimago rank **D1**.

37. Benedek, K., Mara, Gy., Mehrparvar, M., Bálint, J., Loxdale, HD., **Balog, A***. (2019). Near-regular distribution of adult crimson tansy aphids, *Uroleucon tanacetii* (L.), increases aposematic signal honesty on different tansy plant chemotypes. *Biological Journal of the Linnean Society*, 126, 315–326. <https://doi.org/10.1093/biolinnean/bly180>. (IF. 2.203). Scimago rank **Q1**.
38. Domokos, E., Jakab-Farkas, L., Darkó, B., Bíró-Janka, B., Mara, Gy., Albert, Cs., **Balog, A***. (2018). Increase in *Artemisia annua* Plant Biomass Artemisinin Content and Guaiacol Peroxidase Activity using The Arbuscular Mycorrhizal Fungus *Rhizophagus irregularis*. *Frontiers in Plant Science*, 9, 478. <https://doi.org/10.3389/fpls.2018.00478>. (IF. 4.106). Scimago rank **D1**.
39. Pálincás Z., Zalai M., Szénási Á., Dorner Z., Kiss J., North S., Woodward G., **Balog A***. (2018). Arthropods dataset from different genetically modified maize events and associated controls. *Scientific Data* 5:180019. <https://doi.org/10.1038/sdata.2018.19>. (IF. 5.929). Scimago rank **D1**.
40. Bálint J., Benedek K., Loxdale H.D., Kovács E., Ábrahám B., **Balog A*** (2018). How host plants and predators influence pea aphid (*Acyrtosiphon pisum* Harris) populations in a complex habitat. *North-Western Journal of Zoology*, 14(2), 149-158. http://biozoojournals.ro/nwjz/content/v14n2/nwjz_e171103_Balint.pdf. (IF. 0.843). Scimago rank **Q3**.
41. Loxdale HD, **Balog A.** (2018). Aphid specialism as an example of ecological-evolutionary divergence. *Biological Reviews* 93(1): 642-657. <https://doi.org/10.1111/brev.12361>. (IF. 10.288). Scimago rank **D1**.
42. Mehrparvar M., Zytynska SE., **Balog A.**, Weisser WW (2018). Coexistence through mutualist-dependent reversal of competitive hierarchies. *Ecology and Evolution* 8(2), 1247–1259. <https://doi.org/10.1002/ece3.368>. (IF. 2.415). Scimago rank **Q1**.
43. **Balog A.,*** Hartel T., Loxdale HD., Wilson K. (2017). Differences in the progress of the biopesticide revolution between the EU and other major crop growing regions. *Pest Management Science* 73(11): 2203-2208. <https://doi.org/10.1002/ps.4596>. (IF. 3.249). Scimago rank **D1**.
44. **Balog A***, Loxdale HD, Bálint J, Benedek K, Szabó KA, Jánosi-Rancz KT, Domokos E. (2017) The arbuscular mycorrhizal fungus *Rhizophagus irregularis* affects arthropods colonization on sweet pepper in both the field and greenhouse. *Journal of Pest Science*, 90(3): 935–946. <https://doi.org/10.1007/s10340-017-0844-1>. (IF. 4.402). Scimago rank **D1**.
45. Pálincás, Z., Kiss, J., Zalai, M., Szénási, Á., Dorner, Z., North, S., Woodward, G., **Balog, A.*** (2017) Effects of genetically modified maize events expressing Cry34Ab1, Cry35Ab1, Cry1F and CP4 EPSPS proteins on arthropod complex food webs. *Ecology and Evolution*, 7(7): 2286–2293. <https://doi.org/10.1002/ece3.2848>. (IF. 2.340). Scimago rank **Q1**.
46. Urák, I., Hartel, T., Gallé, R., **Balog, A*** (2017). Worldwide peatland degradations and the related carbon dioxide emissions: the importance of policy regulations. *Environmental Science and Policy* 69: 56-64. <https://doi.org/10.1016/j.envsci.2016.12.012>. (IF. 3.826). Scimago rank **D1**.
47. Bálint, J., Szabó, AK., Tófalvi, B., Puia, C., **Balog, A.** (2016) Comparing diseases resistance of local and international plum cultivars (*Prunus domestica*) from Eastern Transylvania, Romania. *Journal of*

Plant Diseases and Protection 123: 317. <https://doi.org/10.1007/s41348-016-0048-6>. (IF. 0.485). Scimago rank Q3.

48. Bálint, J., Zytynska, S.E., Salamon, R.V., Mehrparvar, M., Weisser, W.W., Schmitz, O.J., Benedek, K., **Balog, A***. (2016): Intraspecific differences in plant chemotype determines the structure of arthropod food webs. *Oecologia* 180(3): 797-807. <https://doi.org/10.1007/s00442-015-3508-y>. (IF. 3.130). Scimago rank Q1.
49. Pálincás, Z., Zalai, M., Szénási, Á., Dorner, Z., **Balog, A***. (2016): Rove Beetles (Coleoptera Staphylinidae) - their abundance and competition with other predatory groups in Bt maize expressing Cry34Ab1, Cry35Ab1, Cry1F and CP4 EPSPS proteins. *Crop Protection*. 80: 87-93. <https://doi.org/10.1016/j.cropro.2015.11.001>. (IF. 1.834). Scimago rank Q1.
50. Domokos, E., Biro-Janka, B., Kovács, E., Ábrahám, B., **Balog, A***. (2015): Genetic variability of the green peach aphid (*Myzus persicae*) populations in different host plants. *North-Western Journal of Zoology*. 11(2): 369-371. https://biozoojournals.ro/nwjz/content/v11n2/nwjz_152202_Domokos.pdf (IF. 0.539). Scimago rank Q3.
51. Benedek, K., Bálint, J., Salamon, VR., Kovács, E., Ábrahám, B., Fazakas, Cs., Loxdale, HD., **Balog, A***. (2015). Chemotype of tansy (*Tanacetum vulgare* L.) determines aphid genotype and its associated predator system. *Biological Journal of the Linnean Society*, 114, 709-719. <https://doi.org/10.1111/bij.12445>. (IF. 1.984). Scimago rank Q1.
52. Szénási, Á., Pálincás, Z., Zalai, M., Schmitz, O.J. & **Balog, A***. (2014). Short-term effects of different genetically modified maize varieties on arthropod food web properties: an experimental field assessment. *Scientific Reports* 4, 5315. <https://doi.org/10.1038/srep05315>. (IF. 5.578). Scimago rank D1.
53. Bálint, J., Nagy, Sz., Thiesz, R., Nyárádi, II., **Balog, A***. (2014). Biocontrol strategy to reduce asexual reproduction of apple scab (*Venturia inaequalis*) by using plant extracts. *Turkish Journal of Agriculture and Forestry*. <https://doi.org/10.3906/tar-1302-17>. 38, 91-98 (IF. 0.914). Scimago rank Q2.
54. **Balog, A***. (2013) Jumping ‘ship’ can have its costs: Implications of predation and host plant species for the maintenance of pea aphid (*Acyrtosiphon pisum* Harris) colour polymorphism. *Bulletin of Entomological Research* 103, 578 – 583. <https://doi.org/10.1017/S0007485313000217>. (IF. 1.895). Scimago rank Q1.
55. **Balog, A***, Schmitz, OJ (2013) Predation Determines Different Selective Pressure on Pea Aphid Host Races in a Complex Agricultural Mosaic. *PLoS ONE* 8(2): e55900. <https://doi.org/10.1371/journal.pone.0055900>. (IF. 3.534). Scimago rank D1.
56. **Balog, A***, Schmitz, OJ (2013) Predation drives stable coexistence ratios between red and green pea aphid morphs. *Journal of Evolutionary Biology* 26 (2013) 545–552. <https://doi.org/10.5061/dryad.rc3fj>. (IF. 3.483). Scimago rank D1.
57. **Balog, A***, Mehrparvar M, Weisser WW (2013) Polyphagous predatory rove beetles (Coleoptera: Staphylinidae) induce winged morphs in the pea aphid *Acyrtosiphon pisum*. *European Journal of Entomology*, 8(2), 153-157. <https://doi.org/10.14411/eje.2013.021>. (IF. 1.076). Scimago rank Q2.
58. **Balog, A***, Hartel T., Máthé I., Urák I. (2012) Carabid assemblages along a land use gradient in a Carpathian Mountain landscape. *North-Western Journal of Zoology*, 8(2), 215-222. <http://biozoojournals.ro/nwjz/content/v8n2/nwjz.121115.Balog.pdf>. (IF. 0.747). Scimago rank Q3.

59. **Balog, A***, Ferencz, L., Hartel, T. (2011) Effects of Chitin and Contact Insecticide Complexes on the Abundance and Species Richness of Rove beetles (Coleoptera: Staphylinidae) in Commercial Orchards. *Journal of Insect Science* 2011; 11:93. <https://doi.org/10.1673/031.011.9301>. (IF. 0.947). Scimago rank Q2.
60. **Balog, A***, Szénási, A., Szekeres, D., Pálincás Z. (2011) Analysis of soil dwelling rove beetles (Coleoptera: Staphylinidae) in cultivated maize fields containing the Bt toxins, Cry34/35Ab1 and Cry1F x Cry34/35Ab1. *Biocontrol Science and Technology*, 21: 3, 293-297. <https://doi.org/10.1080/09583157.2010.545104>. (IF. 0.919). Scimago rank Q2.
61. Urák, I., Hartel, T., **Balog, A***. (2010) Influence of Carpathian landscape scale on spider communities. *Archives of Biological Science*, 62 (4), 1231-1234. <https://doi.org/10.2298/ABS1004231U>. (IF. 0.356). Scimago rank Q3.
62. Bálint, J., Neacsu, P., **Balog, A.**, Fail, J., Véték, G. (2010) First record of the black locust gall midge *Obolodiplosis robiniae* (Haldeman) (Diptera: Cecidomyiidae) in Romania. *North-Western Journal of Zoology*, 6 (2), 319-322. <http://biozoojournals.ro/nwjz/content/v6.2/nwjz.061210.Balint.pdf>. (IF. 0.659). Scimago rank Q2.
63. Neda, Z., Horvath, Sz., Tohati, H.M., Derzsi, A. and **Balog, A.** (2010) A spatially explicit model for tropical tree diversity patterns. *Journal of Theoretical Biology* 265:44, 517-523. <https://doi.org/10.1016/j.jtbi.2010.05.032>. (IF. 2.371). Scimago rank Q1.
64. Ferencz, L., **Balog, A***. (2010) A pesticide survey in soil, water and foodstuffs from central Romania. *Carpathian Journal of Earth and Environmental Sciences* 5(1), 111 – 118. <http://www.cjees.ro/viewTopic.php?topicId=80>. (IF. 1.579). Scimago rank Q3.
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INTERNATIONAL Grants

1. **Member: NAPERDIV** - Nature-based perennial grain cropping as a model to safeguard functional biodiversity towards future-proof agriculture. (DE, AT, BE, FR, PL, RO, SE). Funding: Biodiversa ERA-NET, principal investigator Prof. Frank Rasche, University of Hohenheim, Germany. Term 2021-2023. **Value: 1.393.000 euro.** <https://naperdiv.uni-hohenheim.de/team>
2. **Director**: "Behavioural ecology of the parasitoid rove beetles *Aleochara bilineata* and *A. bipustulata* (Coleoptera: Staphylinidae, Aleocharinae) associated with its host odours in genetically modified field corn (*Zea mays*)" **(2008/1881)**. 07/05/2008 - 07/06/2008 European Science Foundation, Behavioural Ecology of Insect Parasitoids - from theoretical approaches to field applications (BEPAR). www.esf.org. (4000 EURO)
3. **Director**: "Optimality modelling of behavioural ecology of the parasitoid rove beetles *Aleochara bilineta* and *A. bipustulata* (Coleoptera: Staphylinidae) in Hungarian agricultural fields" **(2007/1663)**. 07/05/2007 - 07/06/2007 European Science Foundation, Behavioural Ecology of Insect Parasitoids - from theoretical approaches to field applications (BEPAR). www.esf.org. (2000 EURO)

4. **Director:** „Rolul stafilinidelor (Coleoptera: Staphylinidae) în livezi de măr și culturi de grâu” (BO/00455/04). 2004/09/01 – 2007/08/31 Academia de Științe Maghiară Bursa de Cercetare „Bolyai János” www.mta.hu. Hungary. (20 000 EURO)
5. **Director:** „Conserving the flora and fauna of Balea Lake region – Transylvania-Romania” (56/07/2005). 2005/10/31 – 2006/09/30 Rufford Small Grant for Nature Conservation. www.rufford.org. UK. (2500 EURO)
6. **Member:** „Conserving the oligotroph meadows flora and fauna in Eastern Transylvania, Romania” (142/07/2004). 2004/10/31 – 2005/09/30 Rufford Rufford Small Grant for Nature Conservation. www.rufford.org. UK. **Director: Conf. Dr. Urák István.** (2500 EURO)

NATIONAL Grants

1. **Member:** Potato cultivars resistance to aphids through somatic hybridizations –tool for ecological agriculture, PN-IV-P7-7.1-PED2024-0433. UEFISCDI, PED, 2024-2026. (150 000 EURO).
2. **Director:** “ The landscape and management effects on clonal variation and microbial symbiont diversity of the corn-leaf aphid (Rhopalosiphum maidis Fitch) ” PN-III-P4-PCE-2021-0543, UEFISCDI, 2022-2024 (240 000 EURO).
3. **Director:** PN-II-RU-TE-2011-3-0096 (Host plant changes of aphids under predation), UEFISCDI, 2011-2014 (150 000 EURO).
4. **Director:** „Prey-predator relations on tansy (Tanacetum vulgare) in Europe 2012 – 2014 Sapientia – Institute of Research Programs www.kpi.sapientia.ro. (10 000 USD)
5. **Member:** „Macroecological neutral model studies” (1296/25.10.2005). 2005/10/01 – 2006/07/31 Sapientia – Institute of Research Programs, www.kpi.sapientia.ro. (5 000 USD).
6. **Member:** „Macroecological model studies” (14/2004-2005). 2004/10/01 – 2005/07/31 Sapientia – Institute of Research Programs, www.kpi.sapientia.ro. (5 000 USD).
7. **Director:** „Insect predation in orchards” (80/18.05.2004). 2003/04/01 – 2004/09/30 Sapientia – Institute of Research Programs. www.kpi.sapientia.ro. (4 000 USD).

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