Lista de lucrări

Numele şi prenumele: Csorba Artúr Botond

A. Teza de doctorat

Csorba Artúr Botond: Endosymbiotic bacterial diversity of corn leaf aphid, *Rhopalosiphum maidis* Fitch (Hemiptera*: Aphididae*) associated by maize management systems – *summa cum laude* – Universitatea din Pécs, Școala Doctorală Biologie și Sportbiologie. Conducător ştiinţific: Prof. dr. Adalbert Balog

B. Cărti publicate

C. Lucrări ştiinţifice publicate

C1. Lucrări ştiinţifice publicate în reviste cotate WoS (* prim autor și/sau corespondent)

1. **Csorba, A. B***., Kovács, G., Balog, A. (2026) Rare Central European tomato landraces as resources for sustainable agriculture, CABI Agriculture and Bioscience **(I.F 3.7, Q1) – Under Review**

2. **Csorba, A.B***., Gábriel, R., Putnoky Cs.B., Fazakas, Cs., Keszthelyi, S., Csótó, A., Tarcali, G., Szanyi, Sz., Szanyi, K., Váczy, K., Geml, J., Ciprian, G.F., Nagy, A., Balog, A (2026) Evidence for multitrophic connectivity of aphid-associated bacterial communities across soil, nematodes, plants and aphids, ISME Communications **(I.F. 6.4, D1) – Under Review**

3. Balog, A., **Csorba, A. B***., Loxdale, H.D., Keszthelyi, S., Aurori, A., Ciprian, G.F (2026) Difficulties and further challenges in aphids pest control - with global case studies and predictions, Plants **(I.F. 4.7, Q1)**

4. **Csorba, A. B***., Gábriel, R., Loxdale, H.D., Keszthelyi, S., Csótó, A., Tarcali, G., Szanyi, Sz., Szanyi, K., Ciprian, G.F., Aurori, A., Balog, A (2026) Field evaluation of CpGV-based biopesticides against the corn leaf aphid (*Rhopalosiphum maidis*) - possible effects on aphids symbionts, Journal of Economic Entomology (**I.F. 2.5, Q1**) – **Under Review**

5. Futó, Z., Babos, E., **Csorba, A.B*.** (2026) Irrigation effects on growth, yield and quality of seed-propagated onion (*Allium cepa* L.) under open-field conditions, Advances in Agriculture (**I.F 3.4, Q1**) – **Under Review**

6. Balog, A., Loxdale H.D., **Csorba, A.B**., Keszthelyi, S. (2026) European Agricultural Pest Management Practices Following the Green Deal – Gaps and Challenges, Frontiers in Insect Science (**I.F 3.7, Q1**)

7. Balog, A., Hevér L., **Csorba, A.B***. (2026) Innovative pest management strategies in phytoplasma insect vectors control, Plants **(I.F 4.7, Q1)**

8. **Csorba, A.B***., Ciprian, G.F., Balog, A. (2026) Diversity analyses of corn leaf aphid Rhopalosiphum maidis Fitch (Hemiptera: Aphididae) endosymbiotic microbiome and soil microbiome – preliminary results, Journal of Insect Science **(I.F 2.0, Q1)**

9. **Csorba, A.B***., Nagy, A., Szanyi, K., Szanyi, Sz., Tarcali, G., Balog, 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 (**IF. 2.7, Q1)**

10. **Csorba, A.B***., Dinescu, S., Pircalabioru, GG., Fora, CG., Loxdale, HD., 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 (**I.F 2.1, Q1**)

11. Ciprian, G., F., **Csorba, A.B**., Balog, A. (2024) The Effect of Spinosad on the Oak Lace Bug *Corythucha arcuata* (Hemiptera: *Tingidae*) - A Preliminary Study Performed Under Laboratory Conditions, Insects (**I.F. 2.7, Q1**)

12. **Csorba, A.B***., Dinescu, S., Pircalabioru, G., G., Ciprian, G., F., 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 (**IF. 2.4, Q2**)

13. Bálint J., Benedek, K., **Csorba, A.B.** (2024): Assessing the effect of plant growth stimulants and retardants on cyclamen "Halios F1 Salmon Rose" cultivar. Horticulturae **(IF.3.1, Q1)**

14. Balla, G., Lunka, A., T., Joó, J., Moldován, Cs., Székely-Varga, Zs., **Csorba, A. B.**, Kentelky E. (2023): Impact of fermentation temperature and duration on anthocyanin concentration and on quality of Cabernet Sauvignon wine. Scientific Papers, Series B, Horticulture LXVII (2) 201-208 (**IF.0.3, Q4**)

15. **Csorba, A.B.**, Kentelky, E., Szabó M.E., Jakab, M., Nyárádi, I.I., Bálint, J. (2023): Controlling grey mold (Botrytis cinerea) in flowering cyclamen production. European Journal of Horticultural Science. (**IF.1.482, Q3).**

16. Székely-Varga, Zs., **Csorba, A.B.**, Molnár, K., Iakab, M., Bíró-Janka, B., Kentelky, E. (2022): Could Cactuses endure winter in Romanian climatic conditions? Scientific

Papers, Series B, Horticulture LXVI (1) 738-746.

17. **Csorba, A.B**., Fora, C.G., Bálint, J., Felföldi, T., Szabó, A., Máthé, I., Loxdale, H.D., Kentelky E., Nyárádi, I.I., Balog, A. (2021): Endosymbiontic bacterial diversity of cornleaf aphid, Rophalosiphum maidis Fitch (Hemiptera: Aphididae) associated by maize management systems. Frontiers in Microbiology. **(IF.5.640, Q2)**

18. **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. **(IF. 0.843, Q3)**

C2. Lucrări ştiinţifice publicate în reviste indexate în baze de date internaţionale(indicaţi şi baza de date).

19. **Csorba, A.B*.** (2024) Maize production in Central and Eastern Europe – Perspectives and challenges, *Acta Universitatis Sapientiae*, Agriculture and Environment

20. **Csorba, A.B.,** Putnoky, Cs. B., Demeter, A., Nyárádi, I. I., Bálint, J. (2021): Insecticide efficacy on ticks (*Dermacentor spp*.) – Case study from an infested teritory in Transylvania, Romania. Acta Universitatis Sapientiae, Agriculture and Environment

21. **Csorba, A. B.,** Tatár M., Buta E., Molnár K., Domokos E., Bandi A., Bálint J. (2021): Effects of plant growth retardants on developement of poinsettia "Christmas Feeling" cultivar. Acta Biologica Marisiensis

22. **Csorba, A. B**., Putnoky Cs. B., Koncz R., Bandi A., Nyárádi I.-I., Bálint J. (2020): Biological control of thrips pests (Thysanoptera: Thripidae) under greenhouse conditionsin Transylvania, Romania. DRC Sustainable Future 1(2): 155-160

23. **Csorba, A. B.**, Pánczél T., Bandi A., Nyárádi I. -I., Bálint, J. (2020): The effect of different fungicides and bactericides on rooting of pelargonium cuttings DRC SustainableFuture, 1(2): 147-154

24. **Csorba, A. B**., Putnoky Cs. B., Nyárádi I.-I., Bálint J. (2020): Testing insecticides efficacy on pollen beetles (Meligethes aeneus F.), Journal of Horticulture, Forestry and Biotechnology 4(3), pp. 53-57.

Manifestări ştiinţifice internaţionale (in extenso)

Manifestări ştiinţifice internaţionale (abstracte)

25. Balog A., **Csorba A.B.,** (2026): Changes in the development and swarming dynamics of pest insect populations in the context of climate change. 35th Plant Protection Forum in Keszthely, Keszthely, Hungary

26. **Csorba A.B**., Balog A. (2025): Endosymbionts bacterial community of corn leaf-aphids Rhopalosiphum maidis Fitch (Hemiptera: Aphididae) under different climate and nine soil types. The 12th International Plant Protection Symposium at the University of Debrecen. 14-16 October, 2025, Tirgu Mures, Romania.

27. **Csorba, A.B**., Csíki, R., Vajda, P.A., Kovács, G., Balog, A. (2025): Comparative study of landrace tomato cultivars from Mureș county under semi-controlled conditions. May 22-23, 2025, 8th Conference on Horticulture and Landscape Arhitechture in Transylvania. Târgu Mureș, Romania

28. **Csorba, A.B**., Balog, A. (2024): Impact of climate change on the adaptation of corn leaf aphid (*Rhopalosiphum maidis* (Fitch) 29. TNF (= The 11th International Plant Protection Symposium at University of Debrecen, 11th IPPS), Debrecen

29. Aszalos, Sz., Balog, A., Szabó, K.A., **Csorba, A.B.** (2023): A kanadai aranyvessző (*Solidago canadensis* L.) mint potenciális vírusrezervoár és veszélyessége termesztett kultúrákra. 2023. December 8, XIX. Agrártudományi Konferencia, Sepsiszentgyörgy

30. **Csorba, A.B.,** Balog, A.: (2023): A zöld kukorica-levéltetű [*Rhopalosiphum maidis* (Fitch)] (Hemiptera: *Aphididae)* szimbionta baktérium közösségének vizsgálata és szerepük a faj adaptációjára nézve. 2023. November 10, Hallgatói Ösztöndíjasok Konferenciája, Sepiszentgyörgy

31. Balog, A., Szabó, K. A., Aszalos, Sz., **Csorba, A.B.** (2023): Relations between invasive weeds and aphids, its role as virus reservoirs. 24-26 October, 28. TNF (= The 10th International Plant Protection Symposium at University of Debrecen, 10th IPPS), Debrecen

32. Balla, G., Lunka, A., T., Joó, J., Moldován, Cs., Székely-Varga, Zs., **Csorba, A. B**., Kentelky E. (2023): Effect of the fermentation temperature and duration on the anthocyanin and quality content of Cabernet Sauvignon wine produced in the Miniș (Ménes) wine region. 08-10 Iunie 2023, Agriculture for life, life for Agriculture, Bucharest

33. Belényi, M., Hájos, M., **Csorba, A.B.** (2023): Különböző édesburgonya (*Ipomoea batatas*) fajták értékelése bakhátas termesztésben. 2023. Május 19, XXVI.

Agrártudományi ETDK, Sepsiszentgyörgy

34. Balog, A., **Csorba, A.B.,** Dinesc, S., Pircalabiouru, G. (2023): Corn leaf aphids symbionts- first results and further challenges. 7th Conference on Horticulture and Landscape Architecture in Transylvania May 12, 2023, Târgu Mureș, Romania

35. **Csorba, A.B.,** Balog, A., Bálint, J., Nyárádi, I. I., Bíró-Janka. B. (2022): A zöld kukorica-levéltetű [Rhopalosiphum maidis (Fitch)] (Hemiptera: Aphididae) szimbionta baktérium közösségének vizsgálata és szerepük a faj adaptációjára nézve. XVIII. Agrártudományi konferencia. Agrártudomány: az éltető jövőnk alapja. 2022. november 25. Sepsiszentgyörgy

36. Székely-Varga, Zs., **Csorba, A.B.**, Molnár, K., Iakab, M., Bíró-Janka, B., Kentelky, E. (2022): Could Cactuses endure winter in Romanian climatic conditions? 02-04 Iunie 2022, Agriculture for life, life for Agriculture, Bucharest

37. Iakab M., Szabó D., **Csorba, A. B.**, Molnár K., Bálint, J. (2021): Evaluation of commonnutrient deficiencies in Primrose (Primula acaulis). VI. Transilvanian Horticulture and Landscape Studies Conference, Târgu Mureș

38. **Csorba, A. B.**, Bálint J., Felföldi T., Szabó A., Fora, G. C., Máthé I., Loxdale, H. D., Balog (2021): A kukorica-levéltetű [Rhopalosiphum maidis (Fitch)] (Hemiptera: Aphididae) szimbionta baktérium közösségének vizsgálata és szerepük a faj gyors alkalmazkodásában előzetes tanulmány, 2021 február 16-17. 67. Növényvédelmi Tudományos Napok, Budapest

39. Szabó J.Sz., **Csorba, A. B**. (2019): Különböző gyomirtószerek hatékonyságának vizsgálata fejes káposzta (Brassica oleracea convar. capitata) állományban, 2019. április 16-18. XXXIV. OTDK Agrártudományi Szekció, Debrecen

40. **Csorba, A. B**., Putnoky Cs. B., Szabó K. A., Balog A., Bálint J. (2019): Rovarölő szerek hatékonyságának vizsgálata repcefénybogár (Meligethes aeneus F.) ellen. V. Erdélyi Kertész és Tájépítész Konferencia, Marosvásárhely

D. Contracte de cercetare (menţionaţi calitatea de director sau membru)

INTERNAŢIONALE

Contracte de cercetare (menţionaţi calitatea de director sau membru) NAŢIONALE

Nr. Crt.	Denumirea Temei	Beneficiar	An	Valoare
1.	**Membru**: „Efectul ciupercii entomopatogene *Metarhizium anisopliae* asupra dăunătorilor tericol la cartofi dulce (*Ipomoea batatas* L.), studii asupra parametrilor de cultivare și calitative” Institutul Programelor de cercetare	Departamentul de Horticultură	2019-2020	10.000 EUR
2.	**Membru:** PN-III-P4-PCE-2021-0543. Efectul mediului și a managementului asupra variația clonală și diversitatea microbiană simbiontă la păduchi de porumb (*Rhopalosiphum maidis Fitch*), UEFISCDI	Departamentul de Horticultură	2021-2024	240.000 EUR
3.	**Membru:** Green Islands for Sustainable Communities - Raiffeisen Comunități	Departamentul de Științe ale Vieții	2025-2026	50.000 EUR

E. Premii, distincții

- Premiul pentru publicare și cercetare- Societatea Maghiară de Protecția Plantelor - **2026. 02. 15,** Budapesta, Ungaria

F. Citări

Google Scholar: 69
Web of Science: 46
Scopus: 49
h-index: 3

Web of Science: https://www.webofscience.com/wos/author/record/AAA-5193-2022
Google Scholar: https://scholar.google.com/citations?user=qFS5GjwAAAAJ&hl=hu
ResearchGate: https://www.researchgate.net/profile/Csorba-Artur-Botond
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Data

05.10.2026

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