Instituția de învățământ superior: Universitatea „Sapientia” din municipiul Cluj-Napoca

Facultatea: Facultatea de Științe Tehnice și Umaniste Târgu Mureș

Domeniul de licență: Horticultură

Programul de studii de licență: Horticultură

Perioada evaluării: 26-28 aprilie 2023

TABEL PRIVIND INDEPLINIREA INDICATORULUI
Activitatea științifică în domeniul disciplinelor

„Cadrele didactice titulare* au pregătirea inițială, sunt doctori / doctoranzi şi cercetează în domeniul în care se includ disciplinele din postul ocupat.”

Nr. crt.	Gradul didactic, numele și prenumele titularului vârsta / vechimea în învățământul superior	Disciplinele din cadrul programului de studii incluse în postul didactic şi tipul activităţii desfăşurate (curs, seminar, lucrări, proiect)	**Competenţa cadrului didactic titular în disciplinele din postul didactic**			Constatări privind îndeplinirea indicatorului conform Anexei 4.1
			Universitatea/ facultatea/ specializarea absolvită	Specializarea la masterat/ doctorat	Numărul de cărţi, numărul de lucrări ştiinţifice, numărul de brevete în domeniul disciplinelor din postul didactic (conform Anexelor 4.1.)	
0	***1***	***2***	***3***	***4***	***5***	***6***
2	Prof. dr. **BÁLINT János** 40 / 16	Protecţia integrată a plantelor	Universitatea Sapientia din Cluj-Napoca / Facultatea de Științe Tehnice și Umaniste, Târgu Mureș / Departamentul de Horticultură	Horticultură / Doctorat în Horticultură	teza (A); 2 carte (B2-B3); 24 lucrări indexate ISI (C1-C24); 10 lucrări BDI (C25-C34), 20 conferință națională și internațională (D1-20).	îndeplinit
		Legumicultură			teza (A); 1 carte (B3); 8 lucrări indexate ISI (C3, C4, C8, C11, C16, C17, C22, C23); 3 lucrări BDI (C27, C32, C33), 6 conferință națională și internațională (D2,5,6,13,19,20)	îndeplinit
		Legumicultură specială			teza (A); 1 carte (B3); 8 lucrări indexate ISI (C3, C4, C8, C11, C16, C17, C22, C23); 3 lucrări BDI (C27, C32, C33), 6 conferință națională și internațională (D2,5,6,13,19,20)	îndeplinit

		Culturi forţate în legumicultură			8 lucrări indexate ISI (C3, C4, C8, C11, C17, C22, C23); 1lucrare BDI (C32)	îndeplinit

* Din statul de funcţii cumulativ al tuturor disciplinelor şi tuturor activităţilor didactice desfăşurate în cadrul programului de studii evaluat.

Rector

Prof. univ. dr. Márton TONK

Persoana de contact

Șef lucr. dr. Klára BENEDEK

A N E X A 4 . 2

Nume Prenume: **BÁLINT János**

Gradul didactic: Profesor

Instituția unde este titular: Universitatea „Sapientia” din municipiul Cluj-Napoca

Facultatea: Facultatea de Științe Tehnice și Umaniste Târgu Mureș

Departamentul: Departamentul de Horticultură

L I S T A
lucrărilor ştiinţifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

BÁLINT J. (2014): The role of plant characteristics in the resistance of white cabbage varieties to onion thrips. Universitatea Corvinus Budapesta, Facultatea de Horticultură, Catedra de Entomologie, specialitatea Horticultură. Coordonator științific: Conf. Dr. Fail József.

B. Cărţi si capitole în cărţi publicate în ultimii 10 ani

1. DOMOKOS E., **BÁLINT J.**, (2021): *Növényrendszertan – laborgyakorlat jegyzet*. Editura University Press, Tg.-Mureş, 83 pagini.

2. **BÁLINT J.**, NYÁRÁDI I.I., FORA C. G. (2021): *Substanţele active ale pesticidelor*. Editura Erdélyi Múzeum-Egyesület, **ISBN 978-606-739-194-7**, 285 pagini.

3. **BÁLINT J.** (2015): *A fejes káposzta fajtatulajdonságainak szerepe a dohánytripsszel szembeni rezisztenciában (Rolul însuşirirlor de soi în determinarea rezistenţei verzei albe faţă de tripsul tutunului).* Editura Scientia, **ISBN 978-973-1970-92-9**, 115 pagini.

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

C1. Lucrări științifice publicate în reviste cotate ISI

1. 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, 88(1), 1-8. (IF. 1.548). Scimago rank Q2.

2. SZABÓ A.K., **BÁLINT J.**, MOLNÁR A., ASZALOS SZ. E., FORA C. G., 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, 10:1-10. (IF. 4.493). Scimago rank Q1.

3. TOMPA B., **BÁLINT J.,** FODORPATAKI L. (2022): Enhancement of biomass production, salinity tolerance and nutraceutical content of spinach (*Spinacia oleracea* L.) with the cuticular wax constituent triacontanol. Journal of Applied Botany and Food Quality 95: 121 - 128. (IF. 1.481). Scimago rank Q3.

4. PUTNOKY CSICSÓ B., TÓTH F., **BÁLINT J.**, KENTELKY E., BENEDEK K., FORA C. G., NYÁRÁDI I.-I., 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: 264-268. (IF. 1.414). Scimago rank Q2.

5. CSORBA A. B., FORA C. G., **BÁLINT J.**, FELFÖLDI T., SZABÓ A., MÁTHÉ I., LOXDALE HD., KENTELKY E., NYÁRÁDI I.-I., BALOG A. (2022): Endosymbiotic Bacterial Diversity of Corn Leaf Aphid, *Rhopalosiphum maidis* Fitch (Hemiptera: Aphididae) Associated by Maize Management Systems, Microorganisms 10(5): 939, 1-12. (IF. 4.926). Scimago rank Q2.

6. CSORBA A. B., **BÁLINT J.**, FELFÖLDI T., SZABÓ A., FORA C. G., MÁTHÉ I., LOXDALE HD., BALOG A., NYÁRÁDI I.-I. (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. (IF. 0.969). Scimago rank Q3.

7. 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. Horticulturae 7(12), 532 (IF. 2.923). Scimago rank Q1.

8. PUTNOKY CSICSÓ B., TONK SZ., ABOD É., SZABÓ A., MÁRTON ZS., BOGDÁNYI TÓTHNÉ F., TÓTH F., **BÁLINT J.***, BALOG A. (2020): Effectiveness of the entomopathogenic fungal species Metarhizium anisopliae treatments against soil inhabiting *Melolontha melolontha* larvae in sweet potato (*Ipomoea batatas* L.) cultivation. Journal of Fungi 6(116): 1-16. (IF. 4.621). Scimago rank Q1.

9. 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(899): 1-17. (IF. 4.152). Scimago rank Q1.

10. SZABÓ A.K., VÁRALLYAY E., 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): 1-11. (IF. 4.402). Scimago rank D1.

11. TURÓCZI B., BAKONYI J., SZABÓ A.K., **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(210): 1-12. (IF. 2.632). Scimago rank Q1.

12. BOGDÁNYI TÓTHNÉ F., PETRIKOVSZKI R., BALOG A., PUTNOKI CSICSÓ B., GÓDOR A., **BÁLINT J.***, TÓTH F. (2019): Current knowledge of the entomopathogenic fungal species Metarhizium flavoviride and its potential use in sustainable pest control. Insects, 10(11):385 1-22. (IF. 2.139). Scimago rank Q1.

13. BENEDEK K., **BÁLINT J.**, MÁTHÉ I., MARA GY., FELFÖLDI T., SZABÓ A.K., 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. (IF. 3,259). Scimago rank Q1.

14. 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 (IF. 3,405). Scimago rank D1.

15. BENEDEK K., MARA GY., MEHRPARVAR M.,**BÁLINT J.**, LOXDALE H. D., BALOG A.(2019): Near-regular distribution of adult crimson tansy aphids, *Uroleucon tanaceti* (L.), increases aposematic signal honesty on different tansy plant chemotypes, Biological Journal of the Linnean Society, 126: 315-326 (IF. 2,532). Scimago rank Q1.

16. **BÁLINT J.**, BENEDEK K., LOXDALE H. D., KOVÁCS E., ÁBRAHÁM B., BALOG A.* (2018): How host plants and predators influence pea aphid (*Acyrthosiphon pisum* Harris) populations in a complex habitat, North Western Journal of Zoology, 14 (2): 149-158. (IF. 0,596). Scimago rank Q3.

17. BALOG A., LOXDALE H. D., **BÁLINT J.**, BENEDEK K., SZABÓ K-A., JÁNOSI-RANCZ K.-T., 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. (IF. 4,402). Scimago rank D1.

18. **BÁLINT J.**, SZABÓ K-A., TÓFALVI B., PUIA C., BALOG A. (2016): Comparing disease resistance of local and international plum cultivars (*Prunus domestica*) from Eastern Transylvania, Romania, Journal of Plant Diseases and Protection, 123: 317-320. (IF. 0,485). Scimago rank Q3.

19. **BÁLINT J.**, ZYTYNSKA S., SALAMON R., MEHRPARVAR M., WEISSER 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. (IF. 3,130). Scimago rank D1.

20. BENEDEK K., **BÁLINT J.***, SALAMON R. V., KOVÁCS E., ÁBRAHÁM B., FAZAKAS CS., LOXDALE H. D., 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. (IF. 1,984). Scimago rank Q1.

21. **BÁLINT J.**, NAGY SZ., THIESZ R., NYÁRÁDI I-I., BALOG A. (2014): Biocontrol strategy to reduce asexual reproduction of apple scab (*Venturia inaequalis*) by using plant extracts, Turkish Journal of Agriculture and Forestry, 38(1): 91-98. (IF. 0,914). Scimago rank Q2.

22. **BÁLINT J.,** NAGY B.V., FAIL J. (2013): Correlations between colonization of Onion Thrips and leaf reflectance measures across six cabbage varieties, PLoS ONE 8(9): 1-8, e73848. (IF. 3,534). Scimago rank Q1.

23. **BÁLINT J.**, BURGHARDT N., HÖHN M., PÉNZES B., FAIL J. (2013): Does epidermal thickness influence white cabbage resistance against onion thrips (*Thrips tabaci*)? Notulae Botanicae Horti Agrobotanici Cluj-Napoca, (41)2: 444-449. (IF. 0,476). Scimago rank Q3.

24. **BÁLINT J.**, THIESZ R., NYÁRÁDI I-I, SZABÓ K-A. (2013): Field Evaluation of Traditional Apple Cultivars to Induced Diseases and Pests, Notulae Botanicae Horti Agrobotanici Cluj-Napoca, 41(1): 1-6. (IF. 0,476). Scimago rank Q3.

C2. Lucrări științifice publicate în reviste indexate în baze de date internaționale (indicați și baza de date).

25. CSORBA A. B., TATÁR M., BUTA E., MOLNÁR K, DOMOKOS E., BANDI A., **BÁLINT J.** (2021): Effects of plant growth retardants on development of Poinsettia “Christmas Feeling” cultivar, Acta Biologica Marisiensis, 4(2): 32-38.

26. 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 territory from Transylvania, Acta Sapienetiae, Acta Universitatis Sapientiae, Agriculture and Environment, 13: 23-35.

27. TÚRÓCZI B., SZABÓ K-A., NYÁRÁDI I-I, LÁNYI SZ., **BÁLINT J.** (2021): New perspectives of using populin as plant extract against late blight (*Phytophthora infestans* Montagne) resistant strain, U.P.B. Sci. Bull., Series B. 83(1): 23-30

28. 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, 24(3): 53-57.

29. MOLNÁR K., BÍRÓ-JANKA B., NYÁRÁDI I-I, FODORPATAKI L., VARGA B.-E., **BÁLINT J.**, DUDA M.-M. (2020): Effects of Priming with Ascorbic Acid, L-Cystein and Triacontanol on Germination of Rapeseed (*Brassica napus* L.), Acta Biologica Marisiensis 3(2): 48-55.

30. MOLNÁR K., NYÁRÁDI I-I, , BÍRÓ-JANKA B., SIMÓ I., **BÁLINT J.**, DOMOKOS E. (2020): Preliminary Study of the Effect of Chemical and Organic Fertilizers on a Semi-Natural Grassland in Vlăhița, Harghita Mountains, Romania, Acta Biologica Marisiensis 3(2): 56-65.

31. 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 Sustainable Future, 1(2): 155-160.

32. 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 conditions in Transylvania, Romania, DRC Sustainable Future, 1(2): 147-154.

33. **BÁLINT J.**, TÚRÓCZI B., MÁTHÉ I., BENEDEK K., SZABÓ K-A., BALOG A. (2014): In vitro and in vivo effect of poplar bud (*Populi gemma*) extracts on late blight (*Phytophthora infestans*), Acta Universitatis Sapientiae, Agriculture and Environment, 6:1-8.

34. PÁL M., **BÁLINT J.,** BALOG A. (2014): Using the technique of vegetal endoterapy against the horse chestnut's leaf miner (Lepidoptera: Cameraria ohridella DESCHKA & DIMIE), University of Agronomical Sciences and Veterinary Medicine, Scientifical Papers, 58: 353-358, ISSN 2285-5653, cotat CNCSIS B+, indexat BDI-CABI.

D. Lucrări științifice publicate în volumele manifestărilor științifice (abstracte)

1. IAKAB M., SZABÓ D., CSORBA A. B., MOLNÁR K., **BÁLINT J**. (2021): Evaluation Of Common Nutrient Deficiencies in Primrose (*Primula acaulis*), 6. Transilvanian Horticulture and Landscape Studies Conference, Tîrgu-Mureș.

2. MOLNÁR K., BÍRÓ JANKA B., NYÁRÁDI I-I., BÁLINT J., FODORPATAKI L., BARTHA CS., DUDA M-M. (2021): Effects of Accelerated Aging and Priming with Ascorbic Acid, L-Cystein and Triacontanol on Germination of Rapeseed (*Brassica napus* L.), 6. Transilvanian Horticulture and Landscape Studies Conference, Tîrgu-Mureș.

3. CSORBA A. B., PUTNOKY CS. B., SZABÓ K-A., BALOG A., **BÁLINT J**., (2019): Testing insecticides efficacy on pollen beetles (*Meligethes aeneus* F.), 5. Transilvanian Horticulture and Landscape Studies Conference, Tîrgu-Mureș.

4. BENEDEK K., BEDŐHÁZI A., JAKAB M., PÁL T., SZÉKELY A., MOLNÁR K., BÍRÓ JANKA B. **BÁLINT J**., (2019): The effect of triacontanol on micropropagation of basil (Occimum basilicum), 5. Transilvanian Horticulture and Landscape Studies Conference, Tîrgu-Mureș.

5. TOMPA B., MOLNÁR K., **BÁLINT J**., FODORPATAKI L. (2019): Stimulating effects of the cuticular wax constituent triacontanol on physiological processes in spinach plants, 5. Transilvanian Horticulture and Landscape Studies Conference, Tîrgu-Mureș.

6. PUTNOKY CSICSÓ B., **BÁLINT J.**, BALOG A., TÓTH F. (2019): Metarhizium anisopliae entomopatogén gomba alkalmazása édesburgonya (Ipomoea batatas) talajlakó kártevőivel szemben Marosvásárhelyen – előzetes vizsgálatok. 65. Növényvédelmi Tudományos Napok, Magyar Tudományos Akadémia, Budapest, Agrozoológiai szekció, p. 86.

7. **BÁLINT J**. SZABÓ SZ.-R. (2017): Assessing the effect of plant growth regulators on cyclamen production, 4. Transilvanian Horticulture and Landscape Studies Conference, Tîrgu-Mureș.

8. TÓFALVI B., BALOG A., SZABÓ K-A., **BÁLINT J**. (2017): Comparing disease and pest resistance of local and international plum cultivars (*Prunus domestica*) from Eastern Transylvania, Romania, 4. Transilvanian Horticulture and Landscape Studies Conference, Tîrgu-Mureș.

9. **BÁLINT J.**, PÁNCZÉL T. (2017): The effect of different fungicides and bactericides on rooting of pelargonium cuttings, 4. Transilvanian Horticulture and Landscape Studies Conference, Tîrgu-Mureș.

10. **BÁLINT J.**, SZABÓ M.E., BALOG A. (2017): The possibilities of controlling grey mould (*Botrytis cinerea*) in flowering cyclamen production, 4. Transilvanian Horticulture and Landscape Studies Conference, Tîrgu-Mureș.

11. **BÁLINT J.,** ZYTYNSKA S., SALAMON R., MEHRPARVAR M.,; WEISSER W., SCHMITZ O. J., BENEDEK K., BALOG A. (2016): Intraspecific differences in plant chemotype determines the structure of arthropod food webs, Gordon Research Conference, Predator-Prey Interactions, New Frontiers in Understanding Predator-Prey Interactions in a Human-Altered World, Ventura, California, USA, 24-29 January.

12. **BÁLINT J**. (2015): Evaluation of terricol pests in a newly planted hazel orchard, 3. Transilvanian Horticulture and Landscape Studies Conference, Tîrgu-Mureș.

13. KONCZ R., BALOG A., **BÁLINT J**. (2015): Using natural enemies in white pepper protection under greenhouse conditions, 3. Transilvanian Horticulture and Landscape Studies Conference, Tîrgu-Mureș.

14. DEMETER A., KONCZ R., MIKLOS CS., SZABÓ K.-A., **BÁLINT J**. (2015): The effects of different insecticides on ticks, 3. Transilvanian Horticulture and Landscape Studies Conference, Tîrgu-Mureș.

15. KŐSZEGHI SZ., **BÁLINT J**., SZABÓ K.-A., BENEDEK K. (2015): Comparing the effects of different Benzyladenine concentrations on lemon balm (*Melissa officinalis* L.) micropropagation, 3. Transilvanian Horticulture and Landscape Studies Conference, Tîrgu-Mureș.
16. BALOG A., **BÁLINT J.,** BENEDEK K., LOXDALE H. D., SCHMITZ O. J**.** (2014): The influence of host plant mosaic on pea aphids and their associated predators and hymenoptera parasitoid, Gordon Research Conference, Predator-Prey Interactions, From Genes to Ecosystems to Human Mental Health, Ventura, California, USA, 4-10 January.

Manifestări științifice naționale (abstracte, prezentări)

17. 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. Erdélyi Múzeum Egyesület, A Magyar Tudomány Napja Erdélyben 21. Agrártudományi Szakosztály.

18. TIMÁR Z., PÁSZTOR J., **BÁLINT J.**, MOLNÁR K. (2019): Növényvédelmi fúvókák cseppméretének meghatározása laboratóriumi körülmények között. Erdélyi Múzeum Egyesület, A Magyar Tudomány Napja Erdélyben 18. Agrártudományi Szakosztály.

19. PUTNOKY CSICSÓ B., **BÁLINT J.**, BALOG A., TÓTH F. (2018): Entomopatogén gombák alkalmazása édesburgonya (*Ipomoea batatas*) talajlakó kártevőivel szemben - előzetes vizsgálatok. Erdélyi Múzeum Egyesület, A Magyar Tudomány Napja Erdélyben 17. Agrártudományi Szakosztály.

20. TÚRÓCZI B., BALOG A., MÁTHÉ I., BENEDEK K., **BÁLINT J.** (2013): Fekete nyár rügy kivonat hatása a burgonya fitoftórás betegségére, Erdélyi Múzeum Egyesület A Magyar Tudomány Napja Erdélyben 12. Agrártudományi Szakosztály.

Data: 27 martie 2023

Semnătura:

Prof. dr. ing. BÁLINT János