

PUBLICATIONS



REVIEWS

Borriss R (2015): Towards a new generation of commercial microbial disease control and plant growth promotion products. In Lugtenberg B. (ed.) Principles of Plant Microbe Interactions. Springer International Publishing, Switzerland, pp.329-337

Borriss R (2015): Bacillus, a plant beneficial bacterium. In Lugtenberg B. (ed.) Principles of Plant Microbe Interactions. Springer International Publishing, Switzerland, pp.379-389

Halpern M, Bar-Tal A, Ofeky M, Minz D, Müller T, Yermiyahu U (2015) The Use of biostimulants for enhancing nutrient uptake. Advances in Agronomy 130-141-1748/MMBR.00050-14.

Hardoim PR, van Overbeek LS, Berg G, Pirttilä AM, Compante S, Campisano A, Döring M, Sessitsch A (2015) The Hidden world within plants: Ecological and evolutionary considerations for defining functioning of microbial endophytes. Microbiol Mol Biol Rev. 2015 September ; 79(3): 293–320. doi:10.112

Holečková Z., Kulhánek, M., Balík, (2017): Microorganisms in Plant Protection (the review. Int. J. Plant Sci (in press)

Holečková Z., Kulhánek M., Balík J. (2017): Use of active microorganisms in crop production - a review. Submitted to Agronomy Journal

Matics H., Biró B. (2015): History of soil fertility enhancement with inoculation methods. (A termékenységet javító baktériumos talajoltás történeti áttekintése). J. Central European Agriculture, 16 (2): .231-248 DOI: [10.5513/JCEA01/16.2.1614](https://doi.org/10.5513/JCEA01/16.2.1614)

Nkebiwe, P.M., Weinmann, M., Bar-Tal, A., Müller, T. (2016). Fertilizer placement to improve crop nutrient acquisition and yield: a review and meta-analysis. Field Crops Research 196:389-401

Van Oosten, M.J., Pepe, O., De Pascale, S., Silletti, S., Maggio, A. (2017): The role of biostimulants and bioeffectors as alleviators of abiotic stress in crop plants. Chemical and Biological Technologies in Agriculture, 4, 1, Article number 5.

van Overbeek LS, Saikkonen K. (2016) Impact of Bacterial-Fungal Interactions on the Colonization of the Endosphere. Trends Plant Sci. 2016 Mar;21(3):230-42. doi: 10.1016/j.tplants.2016.01.003.

Zaytseva O, Neumann G. (2016): Carbon nanomaterials: production, impact on plant development, agricultural and environmental applications” in Chemical and Biological Technologies in Agriculture, 2016. DOI: 10.1186/s40538-016-0070-8

Peer-reviewed scientific Publications

- 2013

Akter Z., Weinmann M., Neumann G., Römheld V. (2013) An *in-vitro* screening method to study the activity potential of biofertilizers based on *Trichoderma* and *Bacillus* sp. *J. Plant Nutr.* 36: 1439-1452.

Carvalhais LC, Dennis PG, Fan B, Fedoseyenko D, Kierul K, et al. (2013) Linking Plant Nutritional Status to Plant-Microbe Interactions. *PLoS ONE* 8(7): e68555. doi:10.1371/journal.pone.0068555

Dietel K, Beator B, Budiharjo A, Fan B, Borriss R (2013) Bacterial traits involved in colonization of *Arabidopsis thaliana* roots by *Bacillus amyloliquefaciens* FZB42. *Plant Pathol. J.* 29(1) : 59-66 (2013)<http://dx.doi.org/10.5423/PPJ.OA.10.2012.0155>
[pISSN 1598-2254 eISSN 2093-9280](http://www.ppj.ohg-pfl.uni-erlangen.de/)

Imran M, Asim M, Römheld V, Neumann G (2013) Nutrient seed priming improves seedling development and increases grain yield of maize exposed to low root zone temperatures during early growth. *Europ. J. Agron.*49: 141-148.

Niu B, Vater J, Rueckert C, Blom J, Lehmann M, Ru JJ, Chen XH, Wang Q, Borriss R (2013) Polymyxin P is the active principle in suppressing phytopathogenic *Erwinia* spp. by the biocontrol rhizobacterium *Paenibacillus polymyxa* M-1. *BMC Microbiology* 13:137. doi:10.1186/1471-2180-13-137

- 2014

Budiharjo A, Chowdhury SP, Dietel K, Beator B, Dolgova O, et al. (2014) Transposon Mutagenesis of the Plant-Associated *Bacillus amyloliquefaciens* ssp. *plantarum* FZB42 Revealed That the *nfrA* and *RBAM17410* Genes Are Involved in Plant-Microbe-Interactions. *PLoS ONE* 9(5): e98267. doi:10.1371/journal.pone.0098267

Dudás A., Gáspár T., Kotroczó Z., Győri A., Wass-Matics H., Keöd Á., Végvári G., Biró B. (2014) Egy spórás bacillus oltóanyag hatása a paradicsom növekedésére és termés hozamára. (Sporeforming bacillus inoculums affecting tomato growth and yield). *Economica*, 2014(3): 169-174.

Gáspár T., Dudás A., Kotroczó Z., Wass-Matics H., Trugly B., Győri A., Szalai Z., Biró B. (2014) Bioeffektor talajoltóanyagok alkalmazási módszerfejlesztése

tenyészedény-kísérletben paradicsommal. (Development of application method of bioeffector inoculums application in pot-experiment). *Economica*, 2014(3): 183-189.

Qiao JQ, Wu HJ, Huo, RGao XW, Borriss R (2014) Stimulation of plant growth and biocontrol by *Bacillus amyloliquefaciens* subsp. *plantarum* FZB42 engineered for improved action. *Chemical and Biological Technologies in Agriculture* 1:12

Scholz R, Vater J, Budiharjo A, Wang Z, He Y, Dietel K, Schwecke T, Herfort S, Lasch P, Borriss R (2014) Amylocyclicin, a novel circular bacteriocin produced by *Bacillus amyloliquefaciens* FZB42. *Journal of Bacteriology* 196: 1842–1852.

Schreiter S, Ding GC, Heuer H, Neumann G, Sandmann M, Grosch R, Kropf , Smalla K (2014): Effect of the soil type on the microbiome in the rhizosphere of field-grown lettuce. *Front Microbiol.* 2014 Apr 8;5:144. doi: 10.3389/fmicb.2014.00144

Schreiter S, Sandmann M, Smalla K, Grosch R (2014): Soil type dependent rhizosphere competence and biocontrol of two bacterial inoculant strains and their effects on the rhizosphere microbial community of field-grown lettuce. *PLoS ONE* 9: 1-11.

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Akter Z, Neumann G., Römheld V. (2015) Effects of Biofertilizers on Mn and Zn Acquisition and Growth of Higher Plant: a Rhizobox Experiment. *Journal of Plant Nutrition* 38: 596-608. DOI:10.1080/01904167.2014.934478

Biró B., Domonkos M., Kocsis T., Juhos K., Szalai Z., Végvári G. (2015) Két mikrobiális oltóanyag hatása tehéntrágya alapú komposztok és a talajok várható minőségi tulajdonságaira. (Two biofertilizers affecting a cow-compost ripening and potential soil quality). *Talajvédelem (Soil-protection)* 2015: 9-18.

Biró B., Şumalan Ra., Şumalan Re., Farkas E., Schmidt B. (2016) Az AM gombák hatása büdöske foszfor-felvételére és fejlődésére modellkísérletben. (Effect of AM fungi on P-uptake of *Tagetes patula* in model experiments). *Kertgazdaság (Horticulture)*, 48(2): 45-56.

Geistlinger J, Zwanzig J, Heckendorff S, Schellenberg I (2015) SSR Markers for *Trichoderma virens*: Their evaluation and application to Identify and quantify root-endophytic strains. *Diversity* 7: 360-384; doi:10.3390/d7040360

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Bradáčová K, Weber NF, Morad-Talab N, Asim M, Imran M, Weinmann M, Neumann G (2016) Micronutrients (Zn/Mn), seaweed extracts, and plant growth-promoting bacteria as cold-stress protectants in maize. *Chem. Biol. Technol. Agric.* 3:19 DOI 10.1186/s40538-016-0069-1

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Di Stasio, E., Maggio, A., Ventorino, V., Pepe, O., Raimondi, G., De Pascale, S. (2016) Free-living (N₂)-fixing bacteria as potential enhancers of tomato growth under salt stress. *Acta Horticulturae*, in press.

Hanc, A., Boucek, J., Svehla, P., Dreslova, M., Tlustos, P. (2016) Properties of vermicompost aqueous extracts prepared under different conditions. *Environmental Technology* (published online at <http://dx.doi.org/10.1080/09593330.2016.1231225>).

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Lekfeldt JDS, Rex M, Mercl F, Kulhánek M, Tlustoš P, Magid J, de Neergaard A (2016) Effect of bioeffectors and recycled P-fertiliser products on the growth of spring wheat. *Chem. Biol. Technol. Agric.* 3:22 DOI 10.1186/s40538-016-0074-4

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Nkebiwe PM, Weinmann M, Müller T (2016) Improving fertilizer-depot exploitation and maize growth by inoculation with plant growth-promoting bacteria: from lab to field. *Chemical and Biological Technologies in Agriculture* 3:15 DOI: 10.1186/s40538-016-0065-5

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Sharma HSS, Selby C, Carmichael E, McRoberts C, Rao JR, Ambrosino P, Chiurazzi M, Pucci M, Martin T (2016) Physicochemical analyses of plant biostimulant formulations and characterisation of commercial products by instrumental techniques. *Chemical and Biological Technologies in Agriculture* 3:13 DOI: 10.1186/s40538-016-0064-6

Tlustoš P, Mercl F, Břendová K., Očecová P., Vondráčková S. Száková J. (2016): The modification of soil properties and plant uptake by the application of bioeffectors and amendments. *Mechanization in agriculture & conserving of the resources* 5: 26-29

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Di Stasio et al. (2017): Ascophyllum nodosum based algal extracts act as enhancers of growth, fruit quality, and adaptation to stress in salinized tomato plants. Plant Soil (under review)

Eltlbany N, Ding G, Baklawa M, Nassal D, Weber N, Kandeler E, Neumann G, Ludewig U, van Overbeek L, Smalla K (2017) Enhanced tomato plant growth in soil under reduced P supply through microbial inoculants and microbiome shifts. Frontiers in Microbiology (under review).

Gómez-Muñoz, B., Lekfeldt, JDS., Magid, J., Jensen, LS., de Neergaard, A. (2017): Interactions between cold stress and soil fertility level affects biomass productivity of maize seed coated with Penicillium sp. or Mn/Zn. J. Agron. Crop Sci. (under review).

Holečková Z., Kulhánek, M., Balík, J. (2017): Influence of Bioeffectors Application on Maize Growth, Yields and Nutrient Uptake. Int. J. Plant Sci (in press)

Kocsis T., Biró B., Ulmer Á., Szántó M., Kotroczó Z. (2017) Time-lapse effect of ancient plant coal biochar on some soil agrochemical parameters and soil characteristics. Environ Sci Pollut Res. DOI 10.1007/s11356-017-8707-0

Kocsis T., Kotroczó Z., Biró B. (2017) Bioszén dózisok és bioeffektor baktérium oltás hatása homoktalajon tenyészedénykísérletben. (Biochar doses and bioeffector bacteria in pot experiments with sandy soils). Talajvédelem (Soil Protection Suppl.). pp. 53-60.

Kotroczó Z., Biró B., Kocsis T., Veres Z., Tóth J.A., Fekete I. (2017) Hosszú távú szerves anyag manipuláció hatása a talaj természetes biológiai aktivitására. (Long-term organic matter manipulation affected to the natural soilbiological activity). Talajvédelem (Soil Protection Suppl.) pp. 73-83.

Imran M, Garbe-Schönberg D, Neumann G, Boeltd B, Mühling KH (2017): Zinc distribution and localization in primed maize seeds and its translocation during early seedling development. Environmental and Experimental Botany 143: 91–98.

Li M., Cozzolino V., Mazzei P., Monda H., Drosos M., Piccolo A (2017) Effects of microbial bioeffectors and P amendments on P forms in a maize cropped soil as evaluated by ³¹P-NMR spectroscopy. Plant Soil in press

Mercl F, Tejnecký V, Dietel K, Břendová K, Kulhánek M, Száková J, Tlustoš P (2017): Co-application of wood ash and silicate-weathering bacterium to soil: the effect on maize nutritional status, root exudation and composition of soil solution. Plant Soil (under review).

Mosimann C, Oberhänsli T, Ziegler D, Nassal D, Kandeler E, Boller T, Mäder P and Thonar C (2017) Tracing of Two Pseudomonas Strains in the Root and Rhizoplane of Maize, as Related to Their Plant Growth-Promoting Effect in Contrasting Soils. Front. Microbiol. 7:2150. doi: 10.3389/fmicb.2016.02150

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Nkebiwe P.M., Neumann G., Müller T. 2017): Densely rooted rhizosphere hotspots induced around subsurface NH₄⁺-fertilizer depots: a home for soil PGPMs? *Chemical and Biological Technologies in Agriculture* (under Review)

Symanczik S, Gisler M, Thonar C, Schlaeppli K, Van der Heijden M, Kahmen A, Boller T, Mäder P (2017): Application of Mycorrhiza and Soil from a Permaculture System Improved Phosphorus Acquisition in Naranjilla. . *Frontiers in Plant Sci* 8: Article No. 1263. doi: 10.3389/fpls.2017.01263

Thonar C, Lekfeldt JDS, Cozzolino V, Kundel D, Kulhánek M, Mosimann C, Neumann G, Piccolo A, Rex M, Symanczik S, Walder F, Weinmann M, de Neergaard A, Mäder P (2017): Potential of three microbial bio-effectors to promote maize growth and nutrient acquisition from alternative phosphorous fertilizers in contrasting soils *Chemical and Biological Technologies in Agriculture* 4:7 DOI 10.1186/s40538-017-0088-6.

Weber NF, Herrmann I, Hochholdinger F, Ludewig U, Neumann G (2017): PGPR-induced growth stimulation and nutrient acquisition in maize: Do root hairs matter? *Sci. Agr.Bohemica* (under review).

Windisch S, Bott S, Ohler MA, Mock H-P, Lippmann R, Grosch R, Smalla K, Ludewig U. Neumann G. (2017): *Rhizoctonia solani* and bacterial inoculants stimulate root exudation of antifungal compounds in lettuce in a soil-type specific manner. *Agronomy* 7: 44. doi:10.3390/agronomy7020044

Wollmann, I., Gauro, A., Müller, T., Möller, K. (2017): Phosphorus bioavailability of sewage sludge based recycled fertilizers. *J.Plant Nutr. Soil Sci.* (under review)

Wollmann, I., Möller, K. (2017): Phosphorus bioavailability of sewage sludge based recycled fertilizers in an organically managed field experiment. *J. Plant Nutr. Soil Sci.* (under review)

Van Oosten MJ (2017) Root inoculation with *Azotobacter chroococcum* 76A improves growth and pre-adapts tomato plants to overcome salt stress in a nutrient-dependent manner. *Frontiers in Plant Science* (under review).

Vinci G., Cozzolino V., Mazzei P., Monda H., Spaccini R., Piccolo A. (2017) Effects of *Bacillus amyloliquefaciens* and organic and inorganic phosphate amendments on Maize plants as revealed by NMR and GC-MS based metabolomics.*Plant Soil* (under revision).

Other Publications

Biró B (2016) Baktériumtrágyák és bioeffektor termékek a talaj klímahatásai ellen. Mikroorganizmusok a növény-talaj rendszerben. (Biofertilizers and bioeffectors in soil-plant systems) Agrarhírnök 2: 14-15

Biró B (2016) A talajok precíziós baktériumtrágyázásának lehetőségei és alapelvei. (Precision bacterial fertilization of soils) . Haszon Agrár Magazin 10: 12-16

Biró B (2016) Törpék a föld alatt. A mikrobiális talajoltás szempontjai, határai, hatásai. Talajélet különszám. Agrárágazat 17: 22-26.

Redaktion LOP (2016): Homogenisierteres Saatgut und zusätzliche Beizung mit Bodenhilfsstoffen. LOP das Fachmagazin für den professionellen Pflanzenbau. 07/16

Van den Berg G (2016): Seed dressing with micronutrients mitigates stress effects (3). Plant Nutrition Courier 4/16

Biró B. (2017) Biológiai Talajművelés: Termésnövelők, biostimulánsok és bioeffektív megoldások. 1. rész: A talaj, mint láthatatlan ökoszisztéma. (BIOLOGICAL Soil-cultivation. Plant-growth promoters, biostimulants and bioeffective solutions. Part 1: The soil as invisible ecosystem). Agrarsector. (Agrárágazat), 2017 (1): 92-96.

Biró B. (2017) Biológiai Talajművelés: Termésnövelők, biostimulánsok és bioeffektív megoldások. 2. rész: Talajbiológia és a talajszerkezet javítása. (BIOLOGICAL Soil-cultivation. Plant-growth promoters, biostimulants and bioeffective solutions. Part 2: Soilbiology and improvement of soilstructure.) Agrarsector (Agrárágazat), 2017 (2): 102-104.

Biró B. (2017) Biológiai Talajművelés: Termésnövelők, biostimulánsok és bioeffektív megoldások. 3. rész: A talaj-növény mikroba rendszer kémiai tulajdonságai. (BIOLOGICAL Soil-cultivation. Plant-growth promoters, biostimulants and bioeffective solutions. Part 3: The chemical characteristics of soil-plant microbe systems). Agrarsector (Agrárágazat). 2017 (3): 4-7

Biró B. (2017) Biológiai Talajművelés: Termésnövelők, biostimulánsok és bioeffektív megoldások. 4. rész: A talaj szerves-anyagának jelentősége a talajlények szempontjából. BIOLOGICAL Soil-cultivation. Plant-growth promoters, biostimulants and bioeffective solutions. Part 4: The importance of soil organic matter for the soilbiota and soil-life. Agrarsector (Agrárágazat), 2017 (4): 112-115.

Biró B. (2017) Biológiai Talajművelés: Termésnövelők, biostimulánsok és bioeffektív megoldások. 5. rész: A talaj szerves-anyagának mennyiségi és minőségi összefüggései. BIOLOGICAL Soil-cultivation. Plant-growth promoters, biostimulants and bioeffective solutions. Part 5: The interrelation among soil organic matter quantity and quality.) Agrarsector (Agrárágazat), 2017 (5): 64-66.

Biró B. (2017) Biológiai Talajművelés: Termésnövelők, biostimulánsok és bioeffektív megoldások. 6. rész: Biológiai sokféleség és élő talaj a lábunk alatt. BI@OLOGICAL Soil-cultivation. Plant-growth promoters, biostimulants and bioeffective solutions. Part 6: Biodiversity and living soil under our feet.) Agrarsector (Agrárágazat), 2017 (6): 70-73.

Biró B. (2017) Biológiai Talajművelés: Termésnövelők, biostimulánsok és bioeffektív megoldások. 7. rész: A talajegészség fontossága. BI@OLOGICAL Soil-cultivation. Plant-growth promoters, biostimulants and bioeffective solutions. Part 7: What is soil health and why it is so important?) Agrarsector (Agrárágazat), 2017 (7): 4-7.

Biró B. (2017) Biológiai Talajművelés: Termésnövelők, biostimulánsok és bioeffektív megoldások. 8. rész: A talajoltók eredményességét befolyásoló élő (biotikus) környezeti tényezők. BI@OLOGICAL Soil-cultivation. Plant-growth promoters, biostimulants and bioeffective solutions. Part 8: Living (biotic) environmental factors, affecting the productivity of soil-inoculums. Agrarsector (Agrárágazat), 2017 (8): 88-92.

Biró B. (2017) Biológiai Talajművelés: Termésnövelők, biostimulánsok és bioeffektív megoldások. 9. rész A talajoltók eredményességét befolyásoló élettelen (abiotikus) környezeti tényezők. BI@OLOGICAL Soil-cultivation. Plant-growth promoters, biostimulants and bioeffective solutions. Part 9: Non-living (abiotic) environmental factors, affecting the productivity of soil inoculums. Agrarsector (Agrárágazat), 2017 (9): 104-108.

Biró B. (2017) Biológiai Talajművelés: Termésnövelők, biostimulánsok és bioeffektív megoldások. 10. rész A fenntartható és környezetkímélő talajerőgazdálkodás. BI@OLOGICAL Soil-cultivation. Plant-growth promoters, biostimulants and bioeffective solutions. Part 10: Sustainable and environmental protecting soil-power-management). Agrarsector (Agrárágazat), 2017 (10): 62-66.

Kismányoki T, Biró B, Pirkó B, Tóth T, Rácz I-ne (2017) Virtuális kerekasztal. Hogyan lehetséges a talajtermékenység fenntartása állati trágyák nélkül? (Virtual round-table discussion for the most efficient crop production. How is it possible to keep on soil-fertility, without using farmyard manure products?) In: Agro Napló (Agrar-notes) 2017 (2): 41-44.

Hoferichter A: (2017): Geheimes Treiben im Untergrund. Süddeutsche Zeitung 12.10.17

Neumann G., Junge H., Prebeck K. (2017) Reducing the need for artificial fertilisers. Sustainable biostimulants for Agriculture Science Impact

Contributions at Scientific Conferences

- Indo-German Workshop on Microbial Ecology and Application of Inoculants in Biocontrol 07 - 10. April 2014, New Dehli, India
- 6th International Symposium Plant Protection and Plant Health in Europe - Micro-organisms as agents between fertilization and plant protection" 13. -14. May 2014 Braunschweig, Germany
- Plant Nutrition 2014 - International Conference, 10 - 12 September 2014, Halle (Saale), Germany
- 7th International Symposium, Plant Protection and Plant Health in Europe – The “principal mode of action” of microorganisms as agents between fertilization and plant protection. 12-13 March 2015, Berlin, Germany.
- Rhizosphere 4” Conference 2015 in Maastricht. During the conference, a BIOFECTOR satellite poster session was organized for presentation of results of the project. Selected presentations were published within a special BIOFECTOR issue of the Springer open access journal “Chemical and Biological Technologies in Agriculture (CBTA)”, guest edited by the coordinator. One invited review was published in “Trends in Plant Science” (van Overbeek and Saikkonen, 2016)
- Annual Conference of the German Society for Plant Nutrition 2015, Göttingen, Germany
- New Phytologist Symposium: Cell Biology at the Plant- Microbe Interface“ 2015 , Munich Germany
- miCROPe, International Symposium, Microbe-Assisted Crop Production - Opportunities, Challenges & Needs, 2015 Vienna Austria
- XLIV Convegno della Società Italiana di Agronomia, 2015 Bologna, Italy
- 2nd World Congress on the use of Biostimulants in Agriculture, 2015 Florence, Italy
- 28th Scientific day of Bioculture 2015. Hungarian Bioculture Society, Budapest Hungary
- 4. Dec. 2015. Scientific Day of Hungarian BioCulture Society. Invited lecture by Biró B.: Talajbiológiai állapot-felmérések szükségessége biotrágyák és bioeffektor termékek eredményes gyakorlati hasznosságához. (Necessity of soilbiological monitoring at biofertiliser and bioeffector applications)
- 7th Symposium on Microalgae and Seaweed Products in Plant/Soil-Systems 2015 "Contribution to Sustainable Agriculture. ,
- Conference of the Ecotoxicological Society of Hungary 2015, • Corvinus

University of Budapest, Hungary

- 21st International conference on reasonable use of fertilizers 2016, Praha, Czech Republic
- Biostimulators in Agriculture – EU COST Meeting. Ashdod, Israel 2015
- “International Conference of the German Society for Plant Nutrition – DGP 2016 Resource efficiency: from model plants to crops and crop systems” in Stuttgart Hohenheim organized by UHOHa,b with a BIOFECTOR satellite poster session, one keynote lecture (JKI) and three oral presentation
- International Conference on Conservation Agriculture and Sustainable Land Use. Hungarian Geosciences Institute, Hungarian Academy of Science., Budapest, Hungary 2016
- Annual Conference of Hungarian Soil Science Society, 2016, "Casual soil use", University of Debrecen, Hungary
- Dual Conference of US and Hungarian Microbiological Societies 2016.. Hungarian Academy of Sciences, Budapest, Hungary
- Annual conference of the German Soil Science Society, "Unsere Böden - Unser Leben", 2015, Munich, Germany
- 5th Asian PGPR International Conference for Sustainable Agriculture, Bogor, Indonesia, July 16-19, 2017:
- Annual Meeting DPG (German Scientific Society for Plant Protection and Plant Health) Kiel March 2017
- European Geosciences Union General Assembly 2017, Vienna, Austria
- Annual Congress, Società Italiana di Genetica Agraria (SIGA) 2016, September 13-16 .2016 Catania, Italy.
- Annual Congress Società Italiana di Agronomia (SIA) 2016, September 20-22,.2016, Sassari, Italy
- 23rd International Conference on Reasonable use of Fertilizers. Czech University of Life Sciences in Prague 2017
- Scientific Soil Day of Hungarian Soil Science Society 2-4 Sept. 2016 University of Debrecen, Hungary
- International Conference on Conservation Agriculture and Sustainable Land Use 2016. SZIU Szent Istvan University,
- German Plant Nutrition 2016 International Conference -Resource efficiency: from model plants to crops and crop systems. Sept. 2016,

Hohenheim – Stuttgart – Germany

- 18th International Plant Nutrition Colloquium 2017, Copenhagen, Denmark.
- Annual Conference on Microbes and Beneficial Microbes, October 15 - 17, Baltimore Maryland USA
- MicroPE International Symposium 2017 - Microbe-assisted Crop Production Opportunities, Challenges and Needs. December 4-7, Vienna, Austria
- The 3rd World Congress on the Use of Biostimulants in Agriculture 2017, .November 27-30. 2017 Miami, Florida, USA.
- 8th International Symposium on Plant protection and Plant Health in Europe. Efficacy and risks of „biorationals“ in organic and integrated pest management – acceptable ?” December 13.-14.2017 at the Julius Kühn Institute Braunschweig Germany
- 15 years of Forestry education academic in the Banat area" Conference, 25 May 2017, Banat's University of Agricultural Sciences and Veterinary Medicine “King Michael I of Romania” from Timișoara, Timișoara, Romania.