

LISTA DE LUCRĂRI

Numele și prenumele: **MÁTHÉ ISTVÁN**

A. Teza de doctorat.

Titlul: *Studiul faunistic și ecologic al Carabidelor (Coleoptera: Carabidae) din sectorul superior al Bazinului Olt.* 2007. Universitatea Babeș-Bolyai, Cluj-Napoca.

B. Cărți publicate

B1. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate la edituri recunoscute în străinătate.

B2. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCSIS.

Máthé, I.: Studii asupra faunei de Carabidae (Coleoptera) din bazinul Oltului Superior.

Editura Scientia, Cluj Napoca, 2012, 234 p., ISBN: 978-973-1970-68-4

B3. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate la alte edituri sau pe plan local.

B4. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

B5. Capitole de cărți publicate în străinătate

B6. Capitole de cărți publicate în țară

C. Lucrări științifice publicate

C1. Lucrări științifice publicate în reviste cotate ISI

1. **Máthé, I.** Forest edge and carabid diversity in a Carpathian beech forest. *Community Ecology*, 7, 2006, 1, 91-97, 2006. (IF: 0,4)
2. Laslo, É., György, É., Mara, Gy., Tamás, É., **Máthé, I.**, Ábrahám, B., Lányi, Sz.: Applied microbial technology: solubilization of inorganic phosphate and producing siderophore by isolated nitrogen fixing bacteria. *Studia Universitatis Babes-Bolyai, Seria Chemia*, 54, Special Issue 2, 2009, 53-60. (IF: 0,086).
3. **Máthé, I.**, Tánacsics, A., György, É., Pohner, Zs., Vladár, P., Székely, A., Márialigeti, K.: Investigation of mineral water springs of Miercurea Ciuc (Csíkszereda) region (Romania) with cultivation-dependent microbiological methods. *Acta Microbiologica et Immunologica Hungarica* 57, 2010, 2, 109-122. (IF: 0,625)
4. Szentes, S., Mara, Gy., **Máthé, I.**, Laslo, É., Lányi, Sz., Radu, G.L.: Sociomicrobiological properties of antagonistic bacteria isolated from Borsáros Raised Bog. *Studia Universitatis Babes-Bolyai, Seria Chemia*, 55, Special Issue 2010, 135-142. (IF: 0,231)
5. György, É., Mara, Gy., **Máthé, I.**, Laslo, É., Márialigeti, K., Albert, B., Lányi, Sz, Oancea, F.: Characterization and diversity of the nitrogen fixing microbiota from a

- specific grassland habitat in Ciuc Mountains. *Romanian Biotechnological Letters*, 15, 2010, 4, 5474-5481. (IF: 0,152)
6. Tóthmérész, B., **Máthé, I.**, Balázs, E., Magura, T.: Responses of carabid beetles to urbanization in Transylvania (Romania). *Landscape and Urban Planning*, 101, 2011, 4, 330-337 (IF: 2,17)
 7. **Máthé, I.**, Benedek, T., Tánicsics, A., Palatinszky, M., Lányi, Sz., Márialigeti, K.: Diversity, activity, antibiotic and heavy metal resistance of Bacteria from petroleum hydrocarbon contaminated soils located in Harghita county (Romania). *International Biodeterioration and Biodegradation*, 73, 2012, 41-49. (IF: 2,074)
 8. Tamás, É., Mara, Gy., **Máthé, I.**, Laslo, É., György, É., Lányi, Sz.: Isolation, characterization and identification of nitrogen and phosphorus mobilizing bacteria. *Environmental Engineering and Management Journal*, 11, 2012, 3, 675-680. (IF: 1,435)
 9. Balog, A., Hartel, T., **Máthé, I.**, Urák, I.: Carabid assemblages along a land use gradient in a Carpathian Mountain landscape. *North-Western Journal of Zoology*, 8, 2012, 2, 215-222. (IF: 0,659)
 10. Benedek, T., **Máthé, I.**, Salamon, R., Rákos, Sz., Pásztohy, Z., Márialigeti, K., Lányi, Sz.: Potential bacterial soil inoculant made up by *Rhodococcus* sp. and *Pseudomonas* sp. for remediation *in situ* of hydrocarbon- and heavy metal polluted soils. *Studia Universitatis Babeş-Bolyai, Seria Chemia*, 57, 2012, 3, 199-211. (IF: 0,129)
 11. Benedek, T., Vajna, B., Tánicsics, A., Márialigeti, K., Lányi, Sz., **Máthé, I.**: Remarkable impact of PAHs and TPHs on the richness and diversity of bacterial species in surface soils exposed to long-term hydrocarbon pollution. *World Journal of Microbiology and Biotechnology*, 29, 2013, 11, 1989-2002. (IF: 1,262)
 12. Borsodi K. A., Tamás, F., **Máthé, I.**, Bognár, V., Knáb, M., Krett, G., Jurecska, L., Tóth, M. Erika, Márialigeti, K.: Phylogenetic diversity of bacterial and archaeal communities inhabiting the saline Lake Red located in Sovata, Romania. *Extremophiles*, 17, 2013, 1, 87-98. (IF: 2,203)
 13. Crognale, S., **Máthé, I.** (co-first author), Cardone, C., Stazi, S. R., Ráduly, B.: Halobacterial community analysis of the Mierlei saline lake in Transylvania (Romania). *Geomicrobiology*, 30, 2013, 9, 801-812. (IF: 1,608)
 14. Tánicsics, A., Benedek, T., Farkas, M., **Máthé, I.**, Márialigeti, K., Szoboszlay, S., Kukolya, J., Kriszt, B. Sequence analysis of 16S rRNA, gyrB and catA genes and DNA-DNA hybridization reveal that *Rhodococcus jialingiae* is a later synonym of *Rhodococcus qingshengii*. *International Journal of Systematic and Evolutionary Microbiology*, 64, 2014, 1, 298-301. (IF: 2,112)
 15. **Máthé, I.**, Borsodi, A.K., Tóth, E.M., Felföldi, T., Jurecska, L., Krett, G., Kelemen, Zs., Elekes, E., Barkács, K., Márialigeti, K. Vertical physico-chemical gradients with distinct microbial communities in the hypersaline and heliothermal Lake Ursu (Sovata, Romania). *Extremophiles*, 18, 2014, 3, 501-514 (IF: 2,203)
 16. Tánicsics, A., Benedek, T., Szoboszlay, S., Veres, P.G., Farkas, M., **Máthé, I.**, Márialigeti, K., Kukolya, J., Lányi, Sz., Kriszt, B. The detection and phylogenetic analysis of the alkane 1-monooxygenase gene of members of the genus *Rhodococcus*. *Systematic and Applied Microbiology*, 2015, 38, 1, 1-7 (IF=3,310)
 17. Felföldi, T., Ramganes, S., Somogyi, B, Krett, G., Jurecska, L., Szabó, A., Vörös, L., Márialigeti, K., **Máthé, I.** Winter planktonic microbial communities in highland aquatic habitats. *Geomicrobiology*, 2016, 33, 6, 494-504.
 18. Mezey, R-Ş., **Máthé, I.**, Shova, S., Grecu, M.N., Roşu, T. Synthesis, characterisation and antimicrobial activity of copper(II) complexes with hydrazone derived from 3-

- hydroxy-5-(hydroxymethyl)-2-methylpyridine-4-carbaldehyde. *Polyhedron*, 2015, 102, 684-692 (IF=2,011)
19. Felföldi, T., Mentés, A., Schumann, P., Kéki, Zs., **Máthé, I.**, Márialigeti, K., Tóth, E. M. *Rufibacter quisquiliarum* sp. nov., a new member of the phylum Bacteroidetes isolated from a bioreactor treating landfill leachate. *International Journal of Systematic and Evolutionary Microbiology*, 2016, 66, 12, 5150-5154 (IF=2,439)
 20. Táncsics, A., **Máthé, I.**, Benedek, T., Tóth, E. M., Atasayar, E., Spröer, C., Márialigeti, K., Felföldi, T., Kriszt, B. *Rhodococcus sovaticus* sp. nov., a novel actinomycete isolated from the hypersaline and heliothermal Lake Ursu (Sovata, Romania). *International Journal of Systematic and Evolutionary Microbiology*, 2017, 67, 2, 190-196. (IF=2,439)
 21. Felföldi, T., Schumann, P., Mentés, A., Kéki, Zs., **Máthé, I.**, Tóth, E. M. *Caenimicrobium hargitense* gen. nov., sp. nov., a new member of the family Alcaligenaceae (Betaproteobacteria) isolated from activated sludge. *International Journal of Systematic and Evolutionary Microbiology*, 2017, 67, 3, 627-632 (IF=2,439)
 22. Felföldi, T., Fikó, R.D., Mentés, A., Kovács, E., **Máthé, I.**, Schumann, P., Tóth, E. 2017. Description of *Quisquiliibacterium transsilvanicum* gen. nov., sp. nov., a new betaproteobacterium isolated from a waste-treating bioreactor. *International Journal of Systematic and Evolutionary Microbiology* 2017, 67, 11, 4742-4746 (IF: 2,134)
 23. **Máthé I.**, Tóth E., Mentés A., Szabó A., Márialigeti K., Schumann P., Felföldi T. A new *Rhizobium* species isolated from the water of a crater lake, description of *Rhizobium aquaticum* sp. nov. *Antonie Van Leeuwenhoek*, 111, 2018, 11, 2175-2183 (IF=1.588)
 24. Felföldi, T., Márton, Z., Szabó, A., Mentés, A., Bóka, K., Márialigeti, K., **Máthé, I.**, Koncz, M., Schumann, P., Tóth, E. 2019. *Siculibacillus lacustris* gen. nov., sp. nov., a new rosette-forming bacterium isolated from a freshwater crater lake (Lake St. Ana, Romania). *Int J Syst Evol Microbiol*. 2019 Jun;69(6):1731-1736. (IF: 2.166)
 25. Felföldi, T., Szabó, A., Tóth, E., Schumann, P., Kéki, Zs., Márialigeti, K. **Máthé, I.** *Sapientia aquatica* gen. nov., sp. nov., isolated from a crater lake. *International Journal of Systematic and Evolutionary Microbiology*, 2020, 70, 1, 346-351 (IF: 2.166)
 26. Benedek, K., Bálint, J. **Máthé, I.**, Mara, Gy., Felföldi, T., Szabó, A., Fazakas, Cs., Albert, Cs., Buchkowski, R.W. Schmitz, O.J., Balog, A. 27. Linking intraspecific variation in plant chemical defence with arthropod and soil bacterial community structure and N allocation. *Plant and Soil*, 444, 2019, 1-2, 383-397. (IF: 3.259)
 27. Kis, B-M., Baciú, C., Zsigmond A-R., Kékedy-Nagy, L., Kármán, K., Palcsu, L., **Máthé, I.**, Harangi, Sz. Data for: Constraints on the hydrogeochemistry and origin of the CO₂-rich mineral waters from the Eastern Carpathians - Transylvanian Basin boundary (Romania).. *Journal of Hydrology*, 2020, 591, (<https://doi.org/10.1016/j.jhydrol.2020.125311>) (IF: 4.50)
 28. Turóczi, B., Bakonyi, J., Szabó, K. A., Bálint, J., **Máthé, I.**, Lányi, S., Balog, A. In vitro and in vivo effect of poplar bud extracts on *Phytophthora infestans*: a new

effective biological method in potato late blight control. *Plants*, 2020, 9(2), 217. (IF: 2.762)

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

1. Sándor, A., **Máthé, I.**, Simó, I. Hunting behaviour and diet of migrating Woodchat Shrikes (*Lanius senator*) in eastern Romania. *Biological Letter*, 41, 2004, 2, 167-173. [Zoological Record]
2. **Máthé, I.**, Rudner, J. The ground beetle fauna (Coleoptera: Carabidae) of Vlăhița and its Surroundings (Harghita: Romania). *Entomologica Romanica*, 7, 2004, 37-44. [Zoological Record]
3. **Máthé, I.** List of the literature published on the Romanian Carabidae (Coleoptera, Carabidae). *Entomologica Romanica*, 8-9, 2005, 61-74. [Zoological Record]
4. **Máthé, I.**, Urák, I., Balog, A., Balázs, E. The community structure of the ground dwelling carabid beetles (Coleoptera: Carabidae) and spiders (Arachnida: Araneae) in peat bog “Mohos” (Transylvania, Romania). *Entomologica Romanica*, 10, 2005, 37-42. [Zoological Record]
5. Tamás, É., Mara, Gy., Laslo, É., György, É., **Máthé, I.**, Ábrahám, B., Lányi, Sz.: Microbial products as natural alternative to fertilisers: isolation and characterisation of nitrogen fixing bacteria, *Scientific Bulletin Series B: Chemistry And Materials Science*, 72, 2010, 3, 137-144. [Scopus]
6. Benedek, T., **Máthé, I.**, Táncsics, A., Lányi, Sz., Márialigeti, K., Investigation of hydrocarbon-degrading microbial communities of petroleum hydrocarbon contaminated soils in Harghita county, Romania. *Scientific Bulletin Series D, Mining, Mineral Processing, Non-Ferrous Metallurgy, Geology and Environmental Engineering*, 24, 2010, 2, 15-24. [ProQuest]
7. Benedek, T., **Máthé, I.**, Táncsics, A., Márialigeti, K., Albert, B., Lányi, Sz.: Intrinsic bioremediability of petroleum hydrocarbon contaminated sites in Romania: diversity of bacterial community, catechol dioxygenase and alkane-monooxygenase genes. *Scientific Bulletin Series B: Chemistry and Materials Science*, 73, 2011, 4, 51-62. [Scopus]
8. Laslo, É., György, É., **Máthé, I.**, Mara, Gy., Tamás, É., Ábrahám, B., Lányi, Sz.: Replacement of the traditional fertilizer with microbial technology: isolation and characterization of beneficial nitrogen fixing rhizobacteria. *Scientific Bulletin Series B: Chemistry And Materials Science*, 73, 2011, 1, 109-114. [Scopus]
9. Hegyi, A., Felföldi, T., Máthé, I., Palatinszky, M., Jurecska, L., Barkács, K., Márialigeti K.: Medve-tó mikrobaközösségeinek vizsgálata molekuláris módszerekkel [Molecular investigation on the microbial communities in Lake Ursu]. *Hidrológiai Közlöny*, 92, 2012, 38-40. [Chemical Abstracts, Water Resources Abstracts]
10. Frink, J., Balázs, E., **Máthé, I.**, Sándor, A., Domșa, C.: Floristic surveys in the Lake Ursu Nature Reserve and adjacent areas (Sovata, Transylvania, Romania). *Brukenthal Acta Musei*, 8, 2013, 3, 531-546. [Scopus]
11. **Máthé, I.**, Sándor, A., Balázs, E., Domșa, C.: Contribution to the knowledge of the vertebrate and invertebrate fauna of Sovata area. *Brukenthal Acta Musei*, 8, 2013, 3, 517-530. [Scopus]
12. 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. [DOAJ - Directory of Open Access Journals]
13. Mentés, A., Keresztes Zs.Gy, Hegyi, A., Márialigeti, K., **Máthé, I.**, Somogyi, B., Vörös, L., Felföldi, T. Tengeri pikocianobaktériumok Erdély sós tavaiban (Marine picocyanobacteria in Transylvanian saline lakes). *Hidrológiai Közlöny*, 94(4): 19-21, 2014, ISSN: 0018-1323 [Chemical Abstracts, Water Resources Abstracts]
 14. Felföldi, T., Kovács, E., Fikó D.R., Tankó, Gy., Szabó, A., Nagymáté, Zs., Szilveszter, Sz., **Máthé, I.** Hagymagyostól eltérő eljárások alkalmazása új baktériumtörzsek laboratóriumi tenyésztése érdekében (Taxonomic characterization of potentially new bacterial species isolated from aquatic environments). *Hidrológiai Közlöny*, 95 (5-6): 19-21, 2015. [Chemical Abstracts, Water Resources Abstracts]
 15. Nagy, B.J. Szabó, A., Somogyi, B., Vörös, L., Márialigeti, K., **Máthé, I.**, Felföldi, T. Heliotermikus sós tavak planktonikus mikrobaközösségei (Planktonic microbial communities of heliothermal saline lakes). *Hidrológiai Közlöny*, 95 (5-6): 59-63, 2015. [Chemical Abstracts, Water Resources Abstracts]
 16. Mentés, A., Tóth, E., Kéki Zs., Kosztik, J., Márialigeti, K., **Máthé, I.**, Felföldi, T. Vizes környezetekből izolált potenciálisan új baktériumfajok taxonómiai jellemzése. *Hidrológiai Közlöny*, 95(5-6): 56-58, 2015. [Chemical Abstracts, Water Resources Abstracts]
 17. Csitári, B, Fikó, D.R., Kovács, E., Szabó, A., Jurecska, L., Mentés, A., Tánicsics, A., **Máthé, I.**, Felföldi, T. Fenolos vegyületek mikrobiológiai lebontásának vizsgálata természetes és mesterséges környezetekben. *Hidrológiai Közlöny*, 96 (különszám): 26-31, 2016. [Chemical Abstracts, Water Resources Abstracts]
 18. Tugyi, N., Vörös, L., Boros, E., Felföldi, T., Márialigeti, K., **Máthé, I.**, Somogyi, B. Szélsőséges környezeti paraméterek formálta mikrobiális közösség egy heliotermóban (Medve-tó, Szováta). *Hidrológiai Közlöny*, 96 (különszám): 96-102, 2016. [Chemical Abstracts, Water Resources Abstracts]

C3. Lucrări științifice publicate în reviste din străinătate (altele decât cele menționate anterior).

1. Ruicănescu, A., **Máthé, I.** Contributions in the study of diving beetles and whirligig beetles (Coleoptera: Dytiscoidea, Gyrinoidea). *TISCIA an Ecological Journal, Monograph series: The Szamos/Someș River Valley*, Szolnok-Szeged-Târgu Mureș, 1999, 229-239.
2. Lie, P., **Máthé, I.** *Carabus (Callistocarabus) marginalis decorus* SEIDLITZ 1891 wurde in Transsilvania (Siebenbürgen) - Rumänien - nach fast hundert Jahren wieder aufgefunden. *Berichte des Kreises Nürnberger Entomologen Galathea*, 16, 2000, 1, 18-30.
3. **Máthé, I.**, Balázs, E. Az emberi zavarás futóbogarakra gyakorolt hatásának vizsgálata Erdélyben. [Studiul influențelor antropice asupra unor comunități de Carabidae din Transilvania (România)]. *Állattani Közlemények Budapest*, 91, 2006, 1, 57-68.
4. **Máthé, I.**, Urák, I., Balázs, E., Balog, A. Ground beetle (Coleoptera: Carabidae) assemblages in a birch forest and in the neighbouring pine plantation of Eastern Carpathian Region, Romania. *Acta pericemonologica rerum ambientum Debrecina*, 3, 2009, 158-163.
5. **Máthé, I.**, Lőrincz, B., Csutak, K., Ferencz, K., Urák, I., Zsigmond A.. Chemical and microbiological study of the mineral water springs from Odorheiu Secuiesc and its surroundings. *Műszaki Földtudományi Közlemények*, 88, 1, 2019, 152-156.

C4. Lucrări științifice publicate în reviste din țară, recunoscute CNCSIS (altele decât cele din baze de date internaționale).

1. György, É., **Máthé, I.**, Balázs, E., Lőrinci, L. Csíkszereda és Szentegyháza környéki ásványvizek mikrobiológiai vizsgálata. [Studiul microbiologic al apelor minerale din zona orașelor Miercurea-Ciuc și Vlăhița]. *Orvostudományi Értesítő (Bulletin of Medical sciences)* - Tg. Mureș, 79, 2006, 1, 133-136.
2. György, É., **Máthé, I.**, Lőrinczi, L., Buzás A., Kémenes, L. Gyergyóújfalui ásványvizek és kútvizek mikrobiológiai vizsgálata. [Studiul microbiologic al apelor minerale și de fântână din comuna Suseni]. *Orvostudományi Értesítő (Bulletin of Medical sciences)* - Tg. Mureș, 80, 2007, 1, 67-69.

C5. Lucrări științifice publicate în reviste, altele decât cele menționate anterior

1. **Máthé, I.**, Balázs, E., Tóthmérész, B., Urák, I. A Mohos és a Lucs tőzeglápok futóbogár faunájának összehasonlító vizsgálata. [Studiul comparativ al faunei de Carabidae din tinovul Mohoș și Luci]. *A Csíki Székely Múzeum Évkönyve (Anuarul Muzeului Secuiesc al Ciucului) 2005*, 451-464.
2. Boros, I., Kiss, K., **Máthé, I.**, Urák, I. Adatok Verespatak hangya- (Hymenoptera: Formicidae), futóbogár- (Coleoptera: Carabidae) és pókfaunájához (Arachnida: Araneae). [Date asupra faunei de furnici (Hymenoptera: Formicidae), carabide (Coleoptera: Carabidae) și păjanjeni (Arachnida: Araneae) din zona Roșia Montană]. *Collegium Biologicum* 6, 2005, 15-24.
3. **Máthé, I.**, Tóthmérész, B., Biró, V., Bucs, Sz., Bokor, L. A szelterszi Vargyas-völgy (Hargita megye) egy montán bükkösének futóbogár faunája (Coleoptera: Carabidae). [Studierea faunei de Carabidae a unui fâget montan din Valea Vârghișului]. *Acta Siculica 2006*, 81-90.
4. Balázs, E., **Máthé, I.**, Simó, G. A fehér fagyöngy (*Viscum album*) elterjedésének vizsgálata a kolozsvári botanikus kertben. [Studiul distribuției speciei *Viscum album* în Grădina Botanică din Cluj-Napoca]. *Acta Siculica 2006*, 69-76.
5. Benedek, T., **Máthé, I.**, Biró, K., Szász, E., Lányi, Sz., Márialigeti, K.: Kőolajszármazékokkal szennyezett csíkszentdomokosi és balánbányai talajok természetes öntisztuló képességének vizsgálata [Studiul capacității de autoepurare a unor soluri contaminate cu produse petroliere la Sândominic și Bălan]. *A Csíki Székely Múzeum Évkönyve (Anuarul Muzeului Secuiesc al Ciucului) 2010*, 463-471.
6. Urák, I., **Máthé, I.**: Csíki-medencei lăpok pókfaunájának (Arachnida: Araneae) faunisztikai és ökológiai vizsgálata. [Studiul faunistic și ecologic al păianjenilor (Arachnida: Araneae) din Depresiunea Ciucului]. *Acta Siculica 2011*, 75-90.
7. Urák, I., **Máthé, I.** A Lucs-tőzegláp pókjainak (Arachnida: Araneae) faunisztikai és ökológiai vizsgálata (Faunistical and ecological study of the spiders (Arachnida: Araneae) in the Csíki (Ciucului) Basin. *Acta Siculica 2012-2013*, 59-74.

C6. Lucrări științifice publicate în volumele manifestărilor științifice

1. **Máthé, I.**, Balázs, E., Tóthmérész, B., Magura, T. *Benes- és Borsáros borvízlápok futóbogár faunájának (Coleoptera: Carabidae) összehasonlító vizsgálata*. [Studiul comparativ al comunităților de carabide (Coleoptera: Carabidae) din mlaștinile Benes și Borșaroș]. „Apele Minerale din Regiunea Carpatică”, Conferință Științifică Internațională, Universitatea Sapientia, Miercurea-Ciuc, 29-31 iulie 2004, p. 147-158.
2. **Máthé, I.**, György, É., Balázs, E. *Néhány Hargita-megyei ásványvízforrás higiéniai vizsgálata*. [Studiul microbiologic al unor ape minerale din județul Harghita]. „Apele minerale din Regiunea Carpatică”, a II-a Conferință Științifică Internațională,

- Universitatea Sapientia, Miercurea-Ciuc, 28-30 iulie 2005, volumul conferinței, p. 91-97.
3. Makó, Z., **Máthé, I.**, Kicsi, I. *Láthatóvá tehető-e a víz által hordozott információ. [Pot fi vizualizate informațiile transmise de ape?]. „Apele minerale din Regiunea Carpatică”*, al III-lea Conferință Științifică Internațională, Universitatea Sapientia, Miercurea-Ciuc, 27-29 iulie 2006, volumul conferinței, p. 123-129.
 4. Balázs, E., **Máthé, I.**, Cazacu, L. *Gyergyóremete ásványvizeinek mikrobiológiai és kémiai vizsgálata. [Studiul microbiologic al apelor minerale din perimetrul comunei Remetea - județul Harghita]. „Apele minerale din Regiunea Carpatică”*, al III-lea Conferință Științifică Internațională, Universitatea Sapientia, Miercurea-Ciuc, 27-29 iulie 2006, volumul conferinței, p. 199-204.
 5. Mara, Gy., György, É., **Máthé I.**, Ábrahám, B., Lányi, Sz.: *Investigarea cantitativă și calitativă a fungilor cu rol în biocoroziune. Zilele Facultății de Inginerie Chimică și Protecția Mediului, Iași, 19-21 noiembrie 2008, volumul conferinței p. 342-346.*
 6. **Máthé, I.**, Márialigeti K., György É., Mara Gy., Ábrahám B., Lányi Sz.: *Studierea impactului câmpurilor electromagnetice asupra microorganismelor. Zilele Facultății de Inginerie Chimică și Protecția Mediului, Iași, 19-21 noiembrie 2008, volumul conferinței, p. 288-295.*
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 10. Kedves, A, Sánta, L., Makfalvi, Z., **Máthé, I.**, Szép, R.: *A Csiki-medence nyílt tükrű vízadóinak hidrogeológiai és hidrogeokémiai elemzése. [Studies in Csik-Basin of unconfined aquifers]. Apele minerale din Regiunea Carpatică” - al X-lea Conferință Științifică Internațională, Miercurea Ciuc, 28 - 31. aug. 2014, volumul conferinței, p. 127-143.*
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studies on the special aquatic habitats of the Ciomad Volcanic Complex] „Apele minerale din Regiunea Carpatică” - al XIV-lea Conferință Științifică Internațională, Universitatea Tehnică din Košice, Slovacia, 22-24. aug. 2018, volumul conferinței, p. 43-45.

D. Traduceri de cărți, capitole de cărți, alte lucrări științifice

F. Brevete de invenții și alte titluri de proprietate

1. Oancea, F., Dinu, S., Popescu, A., **Máthé, I.**, Albert, B., Lányi, S. *Tulpină care favorizează nodularea plantelor leguminoase*. Număr de brevet: RO125651-A2, 30 august 2010.
2. Oancea, F., Mara, Gy., Sesan, T.E., **Máthé, I.**, Raut, J., Ábrahám, B., Lányi, S. *Strain of Trichoderma harzianum and controlled release composition which contains said strain*: European Patent: EP 2735607 A1, 2014.05.28
3. Oancea, F., Mara, Gy., Sesan, T.E., **Máthé, I.**, Răut, J., Ábrahám, B., Lányi, Sz. *Tulpină de Trichoderma harzianum și compoziție cu eliberare controlată care conține respectiva tulpină*. OSIM nr. 2012 00890/09.11.2016)
4. Ábrahám B., Lányi Sz., Mara Gy., **Máthé I.**, Kovács E., Laslo É., Orbán K. Cs., Bálint E., Bodor Zs., Mészáros A., Tánzos Sz., Fejér K. G., Koncz M., Máthé L., Dobri E., Becze A. *Tulpină de Bacillus sp. SZE 102A utilizată în procesul de însilozare a plantelor furajere*. OSIM nr OSIM nr. 130921/30.12.2019.
- 5.

G. Contracte de cercetare

Director de proiect:

Granturi de cercetare:

1. *Bioremedierea unor soluri contaminate cu motorină* – Fundația Sapientia - Institutul Programelor de cercetare (2007-2008)
2. *Studierea comunităților microbiene din lacul Ursu (Sovata)* – Fundația Sapientia - Institutul Programelor de cercetare (2008-2009)
3. *Studii microbiologice în cazul lacului Sfânta Ana* – Fundația Sapientia - Institutul Programelor de cercetare (2011-2014)
4. *Studierea complexă a unui număr de 30 de izvoare minerale larg consumate de către localnici* – Fundația Sapientia - Institutul Programelor de cercetare (2019-2021)

Membru în echipa unor granturi de cercetare:

1. *Studiul efectelor antropice asupra unor comunități de carabide (Coleoptera: Carabidae)* (Grant nr. 1357/2004) – Fundația Sapientia - Institutul Programelor de Cercetare (2004-2005). Director de proiect: prof. dr. Tóthmérés Béla.
2. *Studiul microbiotei autochtone și allochtone a unor izvoare minerale, cu metode microbiologice clasice și moleculare* (Grant nr. 1293/2005). – Fundația Sapientia - Institutul Programelor de Cercetare (2005-2006). Director de proiect: prof. dr. Márialigeti Károly.
3. *Bioremedierea unor soluri poluate cu motorină I.* (Grant nr. 1047/2006) – Fundația Sapientia - Institutul Programelor de Cercetare (2006-2007). Director de proiect: prof. dr. Márialigeti Károly.

4. *Impactul câmpurilor electromagnetice de natură antropică asupra ecosistemelor - Grant CNCSIS CEEEX, nr. X2C37/2006-2008.* Responsabil de proiect din partea Universității Sapientia: Prof. dr. Lányi Szabolcs.
5. *Inoculanți microbieni pentru sisteme de agricultură durabilă (MIMOSA)* (Grant nr. 31/048/2007) – PNCDI, Programul 4: Parteneriate în domeniile prioritare (2007-2010). Responsabil de proiect din partea Universității Sapientia: Prof. dr. Lányi Szabolcs.
6. *Biopreparate microbiene pentru creșterea productivității și protecția culturilor agricole (BIOPREP)* – Programul Operațional Sectorial Creșterea Competitivității Economice (2009-2012). Director proiect de cercetare din partea Universității Sapientia: dr. Mara Gyöngyvér.
7. *Izolarea de noi tulpini bacteriene cu potențiale aplicații în bioremediere și în biotehnologie* – CNCS-UEFISCDI: PN-II-RU-TE-2012-3-0319 (2013-2015). Director de proiect: dr. Felföldi Tamás
8. *Biopreparate microbiene pentru creșterea calității furajelor însilozate* – SILOPREP: POS 2.1.1, grant nr. 565/09.09.2013. Director proiect de cercetare din partea Universității Sapientia: Prof. dr. Ábrahám Beáta.

Membru în alte proiecte:

1. 1996: „*Evaluarea stării ecologice a Someșului*” - program de cercetare finanțată de Liga Pro Europa (Târgu Mureș) și Clubul Tisza (Szolnok, HU). Director de proiect: prof. dr. Sárkány-Kiss Endre
2. 1996-1998: „*Rezervația Fânațele Clujului*” program de cercetare floristică și faunistică finanțată de Societatea Eco Studia/Societatea Muzeului Ardelean, Cluj-Napoca. Director de proiect: dr. Markó Bálint.
3. 2004: “*Conservarea florei și faunei a tinoavelor din estul Transilvaniei*” – program de cercetare finanțată de Rufford Maurice Laing Foundation (UK), Rufford Small Grant for Nature Conservation (grant no. 142/07/2004). Director de proiect: prof. dr. Balog Adalbert.
4. 2004-2005: *Studiul efectelor antropice asupra unor comunități de carabide (Coleoptera: Carabidae)* – Fundația Sapientia - Institutul Programelor de Cercetare (K.P.I. 1357/2004). Director de proiect: Prof. Dr. Tóthmérész Béla
5. 2008-2010: *Proiectarea infrastructurii suport pentru zona turistică Sântimbru Băi, comuna Sântimbru, județul Harghita* - proiect complex de dezvoltare a stațiunii locale și ariei protejate din Sântimbru-Băi, județul Harghita, 2008-2010 - finanțat de Ministerul Dezvoltării Regionale și Turismului - coordonatorul studiului ecologic referitoare la mlaștina Búdös-Sântimbru.
6. 2008-2010: *Drumul Sării Reabilitare și extindere infrastructură de vizitare a rezervației Lacul Ursu și arboretele de pe sărături* – Sovata: proiect complex de dezvoltare a ariei protejate Lacul Ursu și împrejurimile. Programul Operațional Regional, Axa prioritară 5 – Dezvoltarea durabilă și promovarea turismului, Domeniul Major de Intervenție 5.2. Crearea, dezvoltarea, modernizarea infrastructurii de turism pentru valorificarea resurselor naturale și creșterea calității serviciilor turistice.
7. „2012-2013: „*Elaborarea planului de management integrat pentru siturile ROSPA0027 și ROSCI0036 și arii naturale de interes național. (SMIS – CSNR 36407)*” - finanțat prin Programul Operațional Sectorial (POS) Mediu, Axa prioritară IV, implementat de către Ocolul Silvic Privat Baraolt.

H. Citări

a) Citări în reviste ISI

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2. Yu, X.D., Luo, T.H., Zhou, H.Z.: Distribution of carabid beetles (Coleoptera: Carabidae) across a forest-grassland ecotone in southwestern China. *Environmental Entomology*, 36, 2007, 2, 348-355. (IF: 1,214)
3. Larrivee, M, Drapeau, P, Fahrig, L. 2008. Edge effects created by wildfire and clear-cutting on boreal forest ground-dwelling spiders. *Forest Ecology and Management*, 255, 2008, 5-6, 1434-1445. (IF: 2,11)
4. Gallé, R., Torma, A. 2009. Epigeic spider (Araneae) assemblages of natural forest edges in the Kiskunság (Hungary). *Community Ecology*, 10, 2009, 2, 146-151. (IF: 0,792)
5. Yu, X.D., Luo T.H., Zhou, H.Z.: Distribution of Carabid Beetles (Coleoptera: Carabidae) Across Ecotones Between Regenerating and Mature Forests in Southwestern China. *Environmental Entomology*, 38, 2009, 4, 1053-1060. (IF: 1,154)
6. Elek, Z., Tóthmérész, B. 2010. Carabid beetles among grassland - forest edge - beech forest habitats in Northern Hungary. *Community Ecology*, 11, 2010, 2, 211-216. (IF: 0,974)
7. Magura, T., Lövei G., L. Tóthmérész, B. 2010.: Does urbanization decrease diversity in ground beetle (Carabidae) assemblages? *Global Ecology and Biogeography* 19, 2010, 1, 16-26. (IF: 5,273)
8. Yu, X.D, Luo, T.H., Zhou, H.Z. Distribution of ground-dwelling beetle assemblages (Coleoptera) across ecotones between natural oak forests and mature pine plantations in North China. *Journal of Insect Conservation*, 14, 2010, 6, 617-626. (IF: 1,769)
9. Taillefer, A.G., Wheeler, T.A.: Effect of drainage ditches on Brachycera (Diptera) diversity in a southern Quebec peatland. *Canadian Entomologist*, 142, 2010, 2, 160-172. (IF: 0,694)
10. Torma, A., Gallé, R. 2011. Fine scale pattern of true bug assemblages (Heteroptera) across two natural edges. *Acta Zoologica Academiae Scientiarum Hungaricae* 57, 2011, 4, 369-385. (IF: 0,564)
11. Brigić, A, Starčević, M, Hrašovec, B., Elek, Z. (2014): Old forest edges may promote the distribution of forest species in carabid assemblages (Coleoptera: Carabidae) in Croatian forests *European Journal of Entomology*, 111(5): 715-725 (ISI, No IF)
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13. Lacasella, F., Gratton, C., De Felici, S., Isaia, M. (2015) Asymmetrical responses of forest and “beyond edge” arthropod communities across a forest-grassland ecotone. *Biodiversity and Conservation*, 2014, 24(3): 447-465 (IF: 2.365)
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3. György, É., Mara, Gy., **Máthé, I.,** Laslo, É., Márialigeti, K., Albert, B., Lányi, Sz, Oancea, F.: Characterization and diversity of the nitrogen fixing microbiota from a specific grassland habitat in Ciuc Mountains. *Romanian Biotechnological Letters*, 15, 2010, 4, 5474-5481. (IF: 0,152)

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2. Stefan, A., Van Cauwenberghe, J., Rosu, C.M., Stedel, C., Labrou, N.E., Flemetakis, E., Efröse, R.C. (2018). Genetic diversity and structure of *Rhizobium leguminosarum* populations associated with clover plants are influenced by local environmental variables. *Systematic and Applied Microbiology*, <https://doi.org/10.1016/j.syapm.2018.01.007>, (IF: 3.931)

3. Hirpassa W. D. , Codling E. E. (2018). Growth and metal uptake of edamame [Glycine max (L.) Merr.] on soil amended with biosolids and gypsum, *Communications in Soil Science and Plant Analysis*, 49(22): 2793-2801 (IF: 0.540)
4. Stefana, A., Van Cauwenberghe, J., Rosu, M. C., Stedel, C., Labrou, E. N., Flemetakis, E., Rodica C., Efrose, R. (2018). Genetic diversity and structure of *Rhizobium leguminosarum* populations associated with clover plants are influenced by local environmental variables. *Systematic and Applied Microbiology*, 41(3): 251-259, (IF: 3.899)
5. Stefan, A., Van Cauwenberghe, J., Rosu, M. C., Stedel, C., Labrou, E. N., Flemetakis, E., Rodica C., Efrose, R. (2018). Genetic diversity and structure of *Rhizobium leguminosarum* populations associated with clover plants are influenced by local environmental variables. *Systematic and Applied Microbiology*, 41(3): 251-259, (IF: 3.899)

4. Tóthmérész, B., **Máthé, I.**, Balázs, E., Magura, T.: Responses of carabid beetles to urbanization in Transylvania (Romania). *Landscape and Urban Planning*, 101, 2011, 4, 330-337 (IF: 2,17)

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2. Vergnes, A., Chantepie, S., Robert, A., Clergeau, P. (2013): Are urban green spaces suitable for woodland carabids? First insights from a short-term experiment. *Journal of Insect Conservation*, 17(4): 671-679. (IF: 1,789)
3. Moorhead, L.C., Philpott, S.M. Richness and composition of spiders in urban green spaces in Toledo, Ohio. *Journal of Arachnology*, 41, 2013, 3, 356-363. (IF: 0,729)
4. Vergnes, A., Chantepie, S., Robert, A., Clergeau, P. Are urban green spaces suitable for woodland carabids? First insights from a short-term experiment. *Journal of Insect Conservation*, 17, 2013, 4, 671-679. (IF: 1,801)
5. Soga, M., Yamaura, Y., Koike, S., Gaston, K.J. (2014): Woodland remnants as an urban wildlife refuge: A cross-taxonomic assessment. *Biodiversity and Conservation*, 23(3): 649-659. (IF: 2.065)
6. Calegario-Marques, C., Amato, S.B. (2014): Urbanization breaks up host-parasite interactions: A case study on parasite community ecology of rufous-bellied thrushes (*Turdus rufiventris*) along a rural-urban gradient. *PLoS ONE* 2014, DOI: 10.1371/journal.pone.0103144 (IF: 3.534)
7. Varet, M., Burel, F., Pétilion, J. (2014): Can urban consolidation limit local biodiversity erosion? Responses from carabid beetle and spider assemblages in Western France. *Urban Ecosystems*, 17(11): 123-137 (IF:1.740)

8. Lättman, H., Bergman, K.O., Rapp, M., Tälle, M., Westerberg, L., Milberg, P. (2014): Decline in lichen biodiversity on oak trunks due to urbanization. *Nordic Journal of Botany*, 32(4): 518-528. (IF: 0,804)
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10. Cherill, A. 2015. Large-scale Spatial Patterns in Species Richness of Orthoptera in the Greater London Area, United Kingdom: Relationships with Land Cover. *Landscape Research*, 40(4): 476-485, (IF: 1.074)
11. Papastefanou, G., Panayiotou, E., Mylonas, M., & Simaiakis, S. M. (2015). Centipede assemblages along an urbanization gradient in the city of Heraklion, Crete (Greece). *ZooKeys*, 510: 163-179. (IF: 0,933)
12. Vergnes, A., Pellissier, V., Lemperiere, G., Rollard Ch., Clergeau, P. (2014): Urban densification causes the decline of ground-dwelling arthropods. *Biodiversity and Conservation*, 23: 1859-1877. (IF: 2.365)
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17. Delgado de la Flor, Y.A. Burkman, C.E., Eldredge, T.K., Gardiner, M. M. (2017). Patch and landscape-scale variables influence the taxonomic and functional composition of beetles in urban greenspaces. *Ecosphere*, 8(11):e02007. (IF: 2.49).
18. Jung, J-K., Lee, S.K., Lee, S-I., Lee, J-H. (2018). Trait-specific response of ground beetles (Coleoptera: Carabidae) to forest fragmentation in the temperate region in Korea. *Biodiversity and Conservation*, 27(1): 53-68. (IF: 2.265).
19. Mangudo, C., Aparicio, J., Rossi, G., Gleiser, R. (2018). Tree hole mosquito species composition and relative abundances differ between urban and adjacent forest habitats in northwestern Argentina. *Bulletin of Entomological Research*, 108(2): 203-212. (IF: 1.758).
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functional groups between 1995 and 2013 in an urban fringe of China. *Science of The Total Environment*, 689(1): 516-525. (IF: 6.551)

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24. Piano, E., Bona, F., Isaia, M. (2020). Urbanization drivers differentially affect ground arthropod assemblages in the city of Turin (NW-Italy). *Urban Ecosystems*, 23:617-629. (IF: 2.547)

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Data,

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Semnătura,

