

CURRICULUM VITAE

István MÁTHÉ

I. PERSONAL DATA

Date and place of birth: 30 Nov. 1976; Carei (Jud. Satu Mare)
Nationality: Romanian
Marital status: married
Academic degree: PhD (2007)
ResearcherID: P-1631-2014

II. POSITION, WORK EXPERIENCE

Department of Bioengineering, Sapientia Hungarian University of Transylvania, Faculty of Economics, Socio-Human Sciences and Engineering (Miercurea Ciuc, Romania)

2002 - 2005 demonstrator
2008 - 2008 assistant lecturer
2008 - 2014 senior lecturer
2014 - associate professor
head of Microbiology lab, since 2007

III. EDUCATION

1995 - 1999 *Babeş-Bolyai* University, Biologist; MSc diploma in 1999
1999 - 2001 *Babeş-Bolyai* University; Biocoenology and management of natural conservation areas, MSc diploma in 2001
2001 - 2007 *Babeş-Bolyai* University, Biology Doctorate School; PhD diploma in 2007

IV. TEACHING ACTIVITY

at the Sapientia Hungarian University of Transylvania, Faculty of Economics, Socio-Human Sciences and Engineering, Miercurea Ciuc, Department of Bioengineering:

- General microbiology lab courses (B.Sc. level)
- Environmental microbiology courses and lab courses (B.Sc. level)
- Soil biology and soil protection courses and lab courses (B.Sc. level)
- Industrial Microbiology (B.Sc. level)
- Foundations of Scientific Research (M.Sc. level)

V. RESEARCH INTEREST

- Microbial communities of extreme habitats: characterization of microbial communities in continental freshwater and saline lakes, natural spring waters, hydrocarbon contaminated soils; detection of autochthonous and allochthonous (e.g. pathogenic) microbes in potable and other water types
- Isolation and testing of microorganisms involved in the bioremediation of contaminated soils and PGPR bacteria (using as inoculum for treatment of soil and/or seeds)
- Bacterial taxonomy: description of new species and taxonomic revisions

VI. RESEARCH ACTIVITY, GRANTS, PROJECTS

Project leader:

- *Bioremediation of diesel oil contaminated soils* – financed by Sapientia Foundation - Institute for Scientific Research (2007-2008)
- *Microbiological study of Lake Ursu (Sovata)* – financed by Sapientia Foundation - Institute for Scientific Research (2008-2009)
- *Microbiological study of Lake St. Ana* – financed by Sapientia Foundation - Institute for Scientific Research (2010-2014)
- *Complex study of thirty popular mineral water springs in Szeklerland* – financed by Sapientia Foundation - Institute for Scientific Research (2019-2021)

Project member:

- 1996: member of the “*Evaluation of the ecological state of the Someş/Szamos river*” research programme financed by Liga Pro Europa (Târgu Mureş, RO) and Club Tisza (Szolnok, HU), project leader: dr. Sárkány-Kiss Endre.
- 1996–1998: member of the “*Fânețe Reserve*” research programme financed by the Eco Studia Society (Cluj-Napoca, RO), project leader: dr. Markó Bálint.
- 2004: leader of the “*Conserving flora and fauna of oligotrophic meadows in Eastern Transylvania, Romania*” research programme financed by the Rufford Maurice Laing Foundation (UK), Rufford Small Grant for Nature Conservation (grant no. 142/07/2004)
- 2004–2005: member of the “*Study of the effects of urbanization on ground beetle assemblages (Coleoptera, Carabidae)*” research programme (K.P.I. 1357/2004) financed by Sapientia Foundation - Institute for Scientific Research, project leader: dr. Tóthmérész Béla (University of Debrecen, Department of Ecology).
- 2005–2006: member of the “*Investigation of the microbial communities of mineral water springs (Harghita county, Romania)*” research programme (K.P.I. 1293/2005) financed by Sapientia Foundation - Institute for Scientific Research, project leader: dr. Márialigeti Károly (ELTE, Department of Microbiology).
- 2006–2007: member of the “*Bioremediation of hydrocarbon-contaminated soils*” research programme (K.P.I. 1047/2006) financed by Sapientia Foundation - Institute for Scientific Research, project leader: dr. Márialigeti Károly (Eötvös Loránd University, Department of Microbiology).
- 2007–2008: leader of the “*Bioremediation of hydrocarbon-contaminated soils II.*” research programme (K.P.I. 663/2007) financed by Sapientia Foundation - Institute for Scientific Research.

- 2007–2010: member of the „MIMOSA - „*Microbial inoculants for sustainable agriculture systems*” (PNCDI II – Programul 4, 31/048) research programme, project leader: dr. Lányi Szabolcs (Sapientia University, Miercurea-Ciuc, RO).
- 2008–2009: leader of the „*Physico-chemical and microbiological study of Ursu Lake (Sovata, Romania)*” research programme (K.P.I. 209/37/2009) financed by Sapientia Foundation - Institute for Scientific Research.
- 2010–2012: member of the “*BIOPREP – Microbial biopreparates for increasing the productivity and crop protection*” research funded by Sectoral Operational Programme, Increase of Economic Competitiveness Operation 2.1.1. of the Romanian Ministry of Labour, Family and Social Protection, through financial agreement POSCEE No. 469/11817, project leader: dr. Mara Gyöngyvér (Sapientia University, Miercurea-Ciuc, RO).
- 2012–2014: member of the „*Microbial biopreparates for increasing the quality of silages – SILOPREP*” research programme financed by Sectoral Operational Programme, Increase of Economic Competitiveness Operation 2.1.1. of the Romanian Ministry of Labour, Family and Social Protection, financial agreement POSCEE No. 565/09.09.2013. - project leader: dr. Lányi Szabolcs (Sapientia University, Miercurea-Ciuc, RO).
- 2013–2016: member of the “*Retrieving new bacterial isolates for potential bioremediation and biotechnological applications*” financed by NCS-UEFISCDI Grant PN-II-RU-TE-2012-3-0319, project leader: dr. Felföldi Tamás (Sapientia University, Miercurea-Ciuc, RO).
- 2013–2014: member of the “*Phase-separated anaerobic digestion of the corn stillage produced by the bioethanol industry*”)” research programme financed by Sapientia Foundation - Institute for Scientific Research, project leader: dr. Ráduly Botond (Sapientia University, Miercurea-Ciuc, RO).
- 2014–2015: member of the “*Complex environmental assessment of peatlands in Maramureş*” research programme financed by Sapientia Foundation - Institute for Scientific Research, project leader: dr. Zsigmond Andreea-Rebeka (Sapientia University, Cluj-Napoca, RO).

VII. SOCIETY MEMBERSHIP

1999 - Transylvanian Museum Society

2009 - member of public body, Hungarian Academy of Sciences (MTA)

2009 - Hungarian Society for Microbiology (MMT)

VIII. STUDIES ABROAD

2006 *Domus Hungarica Scientiarum et Artium* scholarship – University of Szeged, Department of Ecology, Hungary (4 weeks)

2008 Eötvös Loránd University, Department of Microbiology, Hungary (6 months)

IX. SCHOLARSHIPS, AWARDS

2015 *Scholarship for young Hungarian teachers from abroad* - Balassi Institute (Hungary)

2019 *Outstanding Teacher Award* – Sapientia Hungarian University of Transylvania

X. PUBLICATION ACTIVITY

Number of SCI publications: 31

H-index: 13

I10-index: 19

Google Scholar Citations: 691

Cumulative impact factor: 53,936

XI. LIST OF PUBLICATIONS

A. PhD thesis

Faunistical and ecological study of the carabid beetles (Coleoptera, Carabidae) of the upper Olt River Basin. Babeş-Bolyai University, Faculty of Biology and Geology, Department of Taxonomy and Ecology, Cluj-Napoca, Romania, 2007. (in Romanian language)

B. Books and book chapters

1. **Máthé, I.** *Studies on the fauna of ground beetles (Coleoptera, Carabidae) of the upper Olt River Basin.* Scientia Publishing House, Cluj Napoca, 2012, pp. 234 (ISBN 978-973-1970-68-4) (in Romanian language)
2. **Máthé, I.,** Vörös, L. (eds). Lake Saint Ana: in a rapid change. Transylvanian Museum Society Publisher. 2022, 112 pp. ISBN: 978-606-739-213-5
3. Magyari, K.E., Vincze, I., Tóth, M., Hubay, K., Veres, D., Haliuc, A., Molnár, M., Jakab, G., Braun, M., Schäbitz, F., **Máthé, I.,** Buczkó, K. Palaeoenvironmental changes during the last glacial period in the Ciomadul Hills. Ciomadul (Csomád). In Karátson, D., Veres, D., Gertisser, R., Magyari, K.E., Jánosi, Cs., Hambach, U. (eds.). *Ciomadul (Csomád), the youngest volcano in the Carpathians*, Springer International, 2022, pp. 145-158, ISBN: 978-303-089-139-8
4. Buczkó, K., Korponai, J., **Máthé, I.,** Jakab, G., Tóth, M., Braun, M., Ács, É., Karátson, D., Magyari, K.E. Limnological Changes in Lake Sf. Ana. Ciomadul (Csomád). In Karátson, D., Veres, D., Gertisser, R., Magyari, K.E., Jánosi, Cs., Hambach, U. (eds.). *Ciomadul (Csomád), the youngest volcano in the Carpathians*, Springer International, 2022, pp. 159-174, ISBN: 978-303-089-139-8

C. Scientific publications

C1. ISI listed publications

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 Chimia*, 54, Special Issue 2, 2009, 53-60. (IF: 0,086).
3. **Máthé, I.,** Táncsics, 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 Chimia*, 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., Táncsics, 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., Pásztóhy, 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 Chimia*, 57, 2012, 3, 199-211. (IF: 0,129)
11. Benedek, T., Vajna, B., Táncsics, 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. Táncsics, 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. Táncsics, 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. (IF=1,485)
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. 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, 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)
 29. Csorba B., Bálint J., Felföldi, T., Szabó A., Forró C. G., **Máthé, I.**, Loxdale, H.D., Balog, A., Nyáradi, 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=0,778)
 30. Csitári, B., Bedics, A., Felföldi, T., Boros, E., Nagy, H., **Máthé, I.**, Székely, J. Anna. 2022. Anion type modulates the effect of salt stress on saline lake bacteria. *Extremophiles*, 26:12 (IF=3,035)
 31. Hantz, P., Bizic, M., **Máthé, I.**, Grossart, H-P., Fixen, K., Kovács, K., Beszteri, B., Bolhuis, H., Hauer, T., Frigaard, N-U., Gehringer, M.M., Moors, H., Keresztes, L., Kristóf, Z., Clarke, T., Bicsak, B., Hoppert, M., Miller, S., Wüest, A. 2022. Der Bärensee in Siebenbürgen - Bezaubernde Halokline, gemusterte Biofilme (The Bear Lake in Sovata – fascinating haloclines, patterned biofilms). *Biologie in Unserer Zeit*, 52(4): 370-378 (IF=0,076)

C2. Publications in peer-reviewed journals

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.** Hagymágyostól 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. 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., Táncsics, 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 helioterm tóban (Medve-tó, Szováta). 96 (különszám): 96-102, 2016. [Chemical Abstracts, Water Resources Abstracts]

C4. Scientific publications in CNCSIS recognized journals

1. György, É., **Máthé, I.**, Balázs, E., Lőrinci, L. Csíkszereda és Szentegyháza környéki ásványvizek mikrobiológiai vizsgálata. [Studiul microbiologic al apelor minerale din zona oraşelor Miercurea-Ciuc şi Vlăhiţa]. *Orvostudományi Értesítő (Bulletin of Medical sciences)* - Tg. Mureş, 79, 2006, 1, 133-136.
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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) şi păjanjeni (Arachnida: Araneae) din zona Roşia Montană]. *Collegium Biologicum* 6, 2005, 15-24.
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F. Inventions

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Dr. Máthé István

Associate professor

