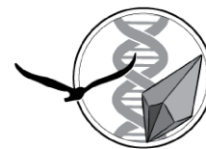




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TRADITIO ET EXCELLENTIA



Facultatea de Biologie și Geologie



Departamentul de Biologie și Ecologie al Liniei Maghiare  
Magyar Biológiai és Ökológiai Intézet

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## A BBTE Magyar Biológiai és Ökológiai Intézet 2017-es tudományos eredményei

Rezultatele științifice ale Departamentului de Biologie și Ecologie  
al Liniei Maghiare, UBB, anul 2017

Scientific results of the Hungarian Department of Biology and Ecology,  
Babeş-Bolyai University, 2017

**Könyvek / Cărți / Books: 2**

**Tudományos cikkek / Articole științifice / Scientific articles: 29**

**Össz IF / FI total / Total IF: 39,432**

**Doktori védés / Susținere de doctorat / PhD defenses: Osváth-Ferencz Márta**

**Habilitáció / Abilitare / Habilitation: dr. Markó Bálint egyetemi docens**

### I. Könyvek / Cărți / Books

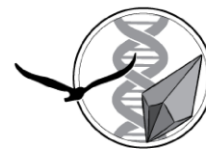
1. Kósa F., Domșa C., Benkő Z., Veres-Szászka J. (2017): Atlasul păsărilor Clujului. *Idea Plus*, Cluj-Napoca.
2. László Z. (2017): A study on *Diplolepis rosae* (Hymenoptera, Cynipidae) and its community. *Presa Universitară Clujeană / Cluj University Press*, Cluj-Napoca, pp. 108.

### II. Tudományos cikkek / Articole științifice / Scientific articles

1. Carpa R., Réti K., Macalik K., Török E., Remizovschi A., Székely G. (2017): Influence of salt content on enzymatic activities and halophytes distribution in Cojocna zone, Romania. *Studia Universitatis Babeş-Bolyai, Biologia* 62(2): 21–32.
2. Csata E., Bernadou A., Rákósy-Tican E., Heinze J., Markó B. (2017): Age-related effects of fungal infection and physiological condition on the locomotory behavior of the ant *Myrmica scabrinodis*. *Journal of Insect Physiology* 98: 167–172. IF: 2.227
3. Csata E., Timuş N., Witek M., Casacci L.P., Lucas C., Bagnères A.-G., Sztencel-Jabłonka A. Barbero F., Bonelli S., Rákósy L., Markó B. (2017): Lock-picks: fungal infection facilitates the intrusion of strangers into ant colonies. *Scientific Reports* 7: 46323, DOI: 10.1038/srep46323. IF: 4.259



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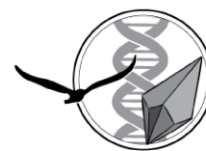


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4. Feurdean A., Munteanu C., Kuemmerle T., Nielsen A.B., Hutchinson S.M., Ruprecht E., Parr C.L., Persoiu A., Hickler T. (2017): Long-term land-cover/use change in a traditional farming landscape in Romania inferred from pollen data, historical maps and satellite images. *Regional Environmental Change* 17: 2193-2207. IF: 2.919
5. Fodorpataki L., Plugaru S.R.C., Molnar K., Marossy P., Tompa B., Barna S. (2017): Use of green microalgal cultures for bioremediation of freshwater environments polluted with chromium, nickel and cadmium. In: M. Kuddus (ed.): *Bioremediation: Advances in Research and Applications*. Nova Science Publ., New York, pp. 9–51.
6. Forró L., Nédli J., Csata E., Krízsik V., Balogh C., G.-Tóth L. (2017): Morphometric characteristics and COI haplotype diversity of *Arctodiaptomus spinosus* (Copepoda) populations in soda pans in Hungary. *Acta Biologica Hungarica* 68(3): 279–289.
7. Fülöp A., Vágási C.I., Pap P.L. (2017): Cohabitation with farm animals rather than breeding effort increases the infection with feather-associated bacteria in the barn swallow *Hirundo rustica*. *Journal of Avian Biology* 48: 1005–1014. IF: 2.228
8. Kis E., András P. (2017): Has the Fluocinolone-acetonid N ointment any effect on the kidneys and the thyroid gland structure and function? *Studia UBB Biologia* 62(2): 41–52.
9. Kolcsár L.P., Keresztes L. (2017): New records of Pediciidae (Diptera: Tipuloidea) from Hungary. *Folia Entomologica Hungarica (Rovartani Közlemények)* 77: 119–126.
10. Kolcsár L.-P., Salmela J. (2017): New faunistic records of Keroplatidae and Mycetophilidae (Diptera) from Ukraine. *Ukrainska Entomofaunistyka* 8: 27–28.
11. Kolcsár L.-P., Salmela J. (2017): New taxonomic and faunistic records of fungus gnats (Insecta, Diptera) from Montenegro, Romania, and Serbia. *Check List* 13: 533–559.
12. Kolcsár L.P., Török E. (2017): New faunistic records of Pediciidae (Diptera) from Ukraine. *Ukrainska Entomofaunistyka* 8(1): 25–26.
13. Lakatos K.T., László Z., Tóthmérész B. (2017): Disturbance induced dynamics of a tritrophic novel ecosystem. *Bulletin of Entomological Research* DOI: 10.1017/S0007485317000621.
14. Macalik K., Gábos A., Máté Cs. (2017): Túlélők nyomában – Múzeumpedagógiai forgatókönyv a Csíki Székely Múzeum Jégkorszak című kiállításához. In: Szállassy N., Gombos M. (eds.): Gyertek velünk múzeumba – múzeumpedagógiai kézikönyv. *Ábel Kiadó*, Cluj-Napoca / Kolozsvár, pp. 53 – 59.
15. Michielsen M., Szemák L., Fenesi A., Nijss I., Ruprecht E. (2017): Resprouting of woody species encroaching temperate European grasslands after cutting and burning. *Applied Vegetation Science* 20: 388–396. IF: 2.474
16. Osváth-Ferencz M., Bonelli S., Nowicki P., Peregovits L., Rákossy L., Sielezniew M., Kostro-Ambroziak A., Dziekańska I., Körösi A. (2017): Population demography of the endangered large blue butterfly *Maculinea arion* in Europe. *Journal of Insect Conservation* 21: 411–422. IF: 1.462
17. Pap P.L., Vincze O., Wekerle B., Daubner T., Vágási C.I., Nudds R.L., Dyke G.J., Osváth G. (2017): A phylogenetic comparative analysis reveals correlations between body feather structure and habitat. *Functional Ecology* 31: 1241–1251. IF: 5.630



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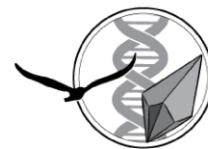


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18. Plugaru S.R.C., Fodorpataki L., Orban M., Sarb A., Tompa B., Kovács B. (2017): Comparative study on growth and photosynthetic pigment dynamics of two microalgae under the influence of water pollution with the herbicide glufosinate. *Studia UBB Chemia* 62(3): 239–250. IF: 0.244
19. Plugaru S.R.C., Rusu T., Molnar K., Fodorpataki L. (2017): Chromium removal from polluted water and its influence on biochemical and physiological parameters in algal cells used for phytoremediation. *Studia UBB Chemia* 62(3): 225–238. IF: 0.244
20. Prázsmári H., Mátis A., László Z. (2017): *Eurytoma caninae* Lotfalizadeh et Delvare, 2007 (Hymenoptera: Eurytomidae) in the parasitoid community of unilocular *Diplolepis* galls in the Carpathian Basin. *Folia Entomologica Hungarica* 78 (in press).
21. Salmela J., Kolcsár L.-P. (2017): New and poorly known Palaearctic fungus gnats (Diptera, Sciaroidea). *Biodiversity Data Journal* 5: e11760.
22. Szentiványi T., Vincze O., Estók P. (2017): Density-dependent sex ratio and sex-specific preference for host traits in parasitic bat flies. *Parasites & Vectors* 10: 405. IF: 3.08
23. Tăușan I., Dauber J., Trică M.R., Markó B. (2017): Succession in ant communities (Hymenoptera: Formicidae) in deciduous forest clear-cuts – an Eastern European case study. *European Journal of Entomology* 114: 92–100. IF: 1.167
24. Várhelyi C., Kuzmann E., Homonnay Z., Pokol G., Szilágyi I., Huszthy P., Szalay R., Papp J., Goga F., Golban L.-M., Várhelyi M. (2017): Schiff-bázisokkal képzett vas(II)-komplexelek szintézise, fizikai-kémiai és biológiai aktivitásuk vizsgálata. *Acta Sci. Trans. – Chimia* 25(3): 28–34.
25. Várhelyi C., Kuzmann E., Pokol G., Szalay R., Goga F., Papp J., Golban L.-M., Várhelyi M., Kovács I. (2017): Új Fe(II)-komplexelek előállítása  $\alpha$ -dioximokkal, bórsavval és észtereivel, szemi- és tioszemikarbazonokkal, Schiff-bázisokkal, valamint fizikai-kémiai és biológiai vizsgálatuk. *Proc. 21<sup>th</sup> Internat. Symp. Analyt. Environ. Probl.* pp. 1–5.
26. Várhelyi C., Lengyel A., Homonnay Z., Szalay R., Pokol G., Szilágyi I.-M., Huszthy P., Papp J., Goga F., Golban L.-M., Várhelyi M., Tomoaia-Cotisel M., Szőke Á., Kuzmann E. (2017): Mössbauer study of novel iron(II) complexes synthesized with Schiff bases. *Hyperfine Interactions* 238: 87.
27. Vincze O., Kosztolányi A., Barta Z., Küpper C., AlRashidi M., Amat J.A., Argüelles Ticó A., Burns F., Cavitt J., Conway W.C., Cruz-López M., Desucre-Medrano A.E., dos Remedios N., Figuerola J., Galindo-Espinosa D., García-Peña G.E., Gómez Del Angel S., Gratto-Trevor C., Jönsson P., Lloyd P., Montalvo T., Parra J.E., Pruner R., Que P., Liu Y., Saalfeld S.T., Schulz R., Serra L., St Clair J.J.H., Stenzel L.E., Weston M.A., Yasué M., Zefania S., Székely T. (2017): Parental cooperation in a changing climate: fluctuating environments predict shifts in care division. *Global Ecology and Biogeography* 26: 347–358. IF: 6.045
28. Vitecek S., Kučinić M., Previšić A., Živić I., Stojanović K., Keresztes L., Bálint M., Waringer J., Graf W., Pauls S.U. (2017): Integrative taxonomy by molecular species delimitation: multi-locus data corroborate a new species of Balkan Drusinae microendemics. *BMC Evolutionary Ecology* 17: 129. IF: 3.221



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29. Willner W., Kuzemko A., Dengler J., Chytrý M., Bauer N., Becker T., Biță-Nicolae C., Botta-Dukát Z., Čarni A., Csiky J., Igić R., Kački Z., Korotchenko I., Kropf M., Krstivojević-Ćuk M., Krstonošić D., Rédei T., Ruprecht E., Schratt-Ehrendorfer L., Semenishchenkov Y., Stančić Z., Vashenyak Y., Vynokurov D., Janišová M. (2017): A higher-level classification of the Pannonian and western Pontic steppe grasslands (Central and Eastern Europe). *Applied Vegetation Science* 20: 143-158. IF: 2.474