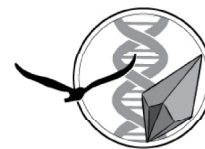




UNIVERSITATEA BABEŞ-BOLYAI
BABEŞ-BOLYAI TUDOMÁNYEGYETEM
BABEŞ-BOLYAI UNIVERSITAT
TRADITIO ET EXCELLENTIA



Facultatea de Biologie și Geologie



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

Str. Gheorghe Bilașcu nr.44
Cluj-Napoca, RO-400015
Tel/Fax.: 0264-43.18.58
bioge@ubbcluj.ro
http://bioge.ubbcluj.ro

A BBTE Magyar Biológiai és Ökológiai Intézet 2016-os tudományos eredményei

Rezultatele științifice ale Departamentului de Biologie și Ecologie al Liniei Maghiare, UBB, anul 2016

Scientific results of the Hungarian Department of Biology and Ecology, Babeş-Bolyai University, 2016

Könyvek / Cărți / Books: 1

Tudományos cikkek / Articole științifice / Scientific articles: 45

Össz IF / FI total / Total IF: 117,65

Doktori védés / Susținere de doctorat / PhD defenses: dr. Német Enikő

Habilitáció / Abilitare / Habilitation: dr. Keresztes Lujza egy. docens, dr. Ruprecht Eszter egy. docens

I. Könyvek / Cărți / Books

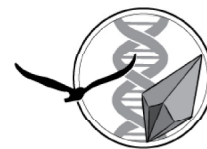
1. Fodorpataki L. (2016): *Növényanatómia gyakorlatok*, I-II kötet. Kolozsvári Egyetemi Kiadó / Presa Universitară Clujeană, Kolozsvár, p. 421.

II. Tudományos cikkek / Articole științifice / Scientific articles

1. Barta Holló, B., Szilágyi, I.M., Várhelyi, Cs., Hunyadi, D., Nagy, R.I., Tihi, N.G., Goga, F., Papp, J., Szalay, R., Pokol, G. (2016) – Synthesis, physico-chemical characterization and bacteriostatic study of Pt complexes with substituted amine ligands. *J. Therm. Anal. Calorim.* 125(1). IF: 2.04.
2. Bulla, M., Valcu, M., Dokter, A.M., Dondua, A.G., Kosztolányi, A., Rutten, A.L., Helm, B., Sandercock, B.K., Casler, B., Ens, B.J., Spiegel, C.S., Hassell, C.J., Küpper, C., Minton, C., Burgas, D., Lank, D.B., Payer, D.C., Loktionov, E.Y., Nol, E., Kwon, E., Smith, F., Gates, H.R., Vitnerová, H., Prüter, H., Johnson, J.A., St Clair, J.J.H., Lamarre, J.-F., Rausch, J., Reneerkens, J., Conklin, J.R., Burger, J., Liebezeit, J., Bêty, J., Coleman, J.T., Figuerola, J., Hooijmeijer, J.C.W.E., Alves, J.A., Smith, J.A.M., Weidinger, K., Koivula, K., Gosbell, K., Exo, K.-M., Niles, L., Koloski, L., McKinnon, L., Praus, L., Klaassen, M., Giroux, M.-A.,



UNIVERSITATEA BABEȘ-BOLYAI
BABEȘ-BOLYAI TUDOMÁNYEGYETEM
BABEȘ-BOLYAI UNIVERSITAT
TRADITIO ET EXCELLENTIA



Facultatea de Biologie și Geologie

Str. Gheorghe Bilașcu nr.44
Cluj-Napoca, RO-400015
Tel/Fax.: 0264-43.18.58
bioge@ubbcluj.ro
http://bioge.ubbcluj.ro

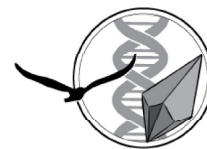


Departamentul de Biologie și Ecologie al Liniei Maghiare
Magyar Biológiai és Ökológiai Intézet

- Sládeček, M., Boldenow, M.L., Goldstein, M.I., Šálek, M., Senner, N., Rönkä, N., Lecomte, N., Gilg, O., Vincze, O. Johnson, O.W., Smith, P.A., Woodard, P.F., Tomkovich, P.S., Battley, P.F., Bentzen, R., Lanctot, R.B., Porter, R., Saalfeld, S.T., Freeman, S., Brown, S.C., Yezerinac, S., Székely, T., Montalvo, T., Piersma, T., Loverti, V., Pakanen, V.-M., Tijssen, W., Kempnaers, B. (2016): Unexpected diversity in socially synchronized rhythms of shorebirds. *Nature* 540: 109 – 113, doi:10.1038/nature20563. IF: 42.351
3. Chytrý, M., Hennekens, S.M., Jiménez-Alfaro, B., Knollová, I., Dengler, J., Jansen, F., Landucci, F., Schaminée, J.H.J., Aćić, S., Agrillo, E., Ambarlı, D., Angelini, P., Apostolova, I., Attorre, F., Berg, C., Bergmeier, E., Biurrun, I., Botta-Dukát, Z., Brisse, H., Campos, J.A., Carlón, L., Čarni, A., Casella, L., Csiky, J., Čušterevska, R., Dajić Stevanović, Z., Danihelka, J., De Bie, E., de Ruffray, P., De Sanctis, M., Dickoré, W.B., Dimopoulos, P., Dubyna, D., Dziuba, T., Ejrnæs, R., Ermakov, N., Ewald, J., Fanelli, G., Fernández-González, F., FitzPatrick, Ú., Font, X., García-Mijangos, I., Gavilán, R.G., Golub, V., Guarino, R., Haveman, R., Indreica, A., Işık Gürsoy, D., Jandt, U., Janssen, J.A.M., Jiroušek, M., Kački, Z., Kavgacı, A., Kleikamp, M., Kolomiychuk, V., Krstivojević Čuk, M., Krstonošić, D., Kuzemko, A., Lenoir, J., Lysenko, T., Marcenò, C., Martynenko, V., Michalcová, D., Moeslund, J.E., Onyshchenko, V., Pedashenko, H., Pérez-Haase, A., Peterka, T., Prokhorov, V., Rašomavičius, V., Rodríguez-Rojo, M.P., Rodwell, J.S., Rogova, T., Ruprecht, E., Rūsiņa, S., Seidler, G., Šibík, J., Šilc, U., Škvorc, Ž., Sopotlieva, D., Stančić, Z., Svenning, J.-C., Swacha, G., Tsiripidis, I., Turtureanu, P.D., Uğurlu, E., Uogintas, D., Valachovič, M., Vashenyak, Y., Vassilev, K., Venanzoni, R., Virtanen, R., Weekes, L., Willner, W., Wohlgemuth, T., Yamalov, S. (2016). European Vegetation Archive (EVA): an integrated database of European vegetation plots. *Applied Vegetation Science* 19: 173–180. IF: 2.548
4. Dénes A.-L., Kolcsár L.-P., Keresztes L. (2016): Phylogeography of the micro-endemic *Pedicia staryi* group (Insecta, Diptera): evidence on relic biodiversity in the Carpathian Area. *Biological Journal of the Linnean Society* 119: 719–731. IF: 1.984
5. Dénes, A.L., Kolcsár L.P., Török E., Keresztes L. (2016): Taxonomic revision of the Carpathian endemic *Pedicia (Crunobia) staryi* species-group (Diptera, Pediciidae) based on morphology and molecular data. *Zookeys* 1–24. IF: 0.93
6. Fenesi, A., Saura-Mas, S., Blank, R.R., Kozma, A., Lózer, B.M., Ruprecht, E. (2016). Enhanced Fire-Related Traits May Contribute to the Invasiveness of Downy Brome (*Bromus tectorum*). *Invasive Plant Science and Management* 9: 182–194. IF: 0.838
7. Feurdean, A., Munteanu, C., Kuemmerle, T., Nielsen, A.B., Hutchinson, S.M., Ruprecht, E., Parr, C.L., Perşoiu, A., Hickler, T. (2016). 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*, in press (DOI 10.1007/s10113-016-1063-7). IF: 2.628
8. Fodorpataki L., Holinka B., György É. (2016): Priming with S-methylmethionine increases non-enzymatic antioxidant content of lettuce leaves exposed to salt stress. In: Asaduzzaman, M. (ed.): *Controlled Environment Agriculture – Production of Specialty Crops Providing Human*



UNIVERSITATEA BABEŞ-BOLYAI
BABEŞ-BOLYAI TUDOMÁNYEGYETEM
BABEŞ-BOLYAI UNIVERSITAT
TRADITIO ET EXCELLENTIA



Facultatea de Biologie și Geologie

Str. Gheorghe Bîlașcu nr.44
Cluj-Napoca, RO-400015
Tel/Fax.: 0264-43.18.58
bioge@ubbcluj.ro
http://bioge.ubbcluj.ro



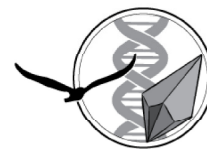
Departamentul de Biologie și Ecologie al Linicii Maghiare
Magyar Biológiai és Ökológiai Intézet

Health Benefits through Hydroponics, Nova Science Publ., New York, pp. 133-164, ISBN 978-1-63484-489-5.

9. Fülöp A., Czirják G.Á., Pap P.L., Vágási C.I. (2016). Feather-degrading bacteria, uropygial gland and feather quality in House Sparrows *Passer domesticus*. *Ibis* 158: 362–370. IF: 1.804
10. Geue J.C., Vágási C.I., Schweizer M., Pap P.L., Thomassen H.A. (2016). Environmental selection is a main driver of divergence in house sparrows (*Passer domesticus*) in Romania and Bulgaria. *Ecology and Evolution* 6: 7954–7964. IF: 2.537
11. Heiss, R., Graf, W., Keresztes L., Kolcsár L.-P., Török E., Vogtenhuber, P. (2016): Beitrag zur Tipuliden-Fauna Österreichs (Diptera: Tipulidae) mit Erstnachweisen für Österreich und für einzelne Bundesländer. *Entomologica Austriaca* 23: 63–85.
12. Hurdu, B.-I., Escalante, T., Pușcaș, M., Novikoff, A., Bartha, L., Zimmermann, N.E. (2016): Exploring the different facets of plant endemism in the South-Eastern Carpathians: a manifold approach for the determination of biotic elements, centres and areas of endemism. *Biological Journal of the Linnean Society* 119(3): 649–672. IF: 1.984
13. Ibrahim, H., Vitecek, S., Previsic, A., Kucinic, M., Waringer, J., Graf, W., Bálint, M., Keresztes L., Pauls, S. (2016): *Drusus sharrensis* sp. n. (Trichoptera, Limnephilidae), a new species from Sharr National Park in Kosovo, with molecular and ecological notes. *Zookeys* 559: 107–124. IF: 0.93
14. Kis, E., Székely, Gy. (2016): Survey upon the living habits of Romanian but Hungarian nationality students major in Biology and Physical education. *Studia Univ. Babeş-Bolyai, Biol.* 61(1): 177–189.
15. Kolcsár, L.P., Dvořák, L., Beuk, P.L.T. (2016): New records of *Sylvicola* (Diptera: Anisopodidae) from Romania. *Biodiversity Data Journal* 4 (e7861), 1–13.
16. Korneyev, V., Kolcsár, L.-P. (2016): First records of Trypetini (Diptera: Tephritidae: Trypetinae) from Europe. *Ukrainska Entomofaunistyka* 6(3): 34.
17. Kuhn, T., Fodor, E.I., Tripon, S., Fodorpataki, L., Fenesi, A., Ruprecht, E. (2016). Allometric relationships between diaspore morphology and diaspore covering anatomy of herbaceous species from central-eastern Europe. *Seed Science Research* 26: 264–272. IF: 1.7
18. Lakatos KT, László Z., Tóthmérész B (2016) Resource dependence in a new ecosystem: A host plant and its colonizing community. *Acta Oecologica* 73: 80–86, doi:10.1016/j.actao.2016.03.003, IF: 1.420
19. Lakatos KT, László Z. (2015) *Stephanus serrator* (Fabricius, 1798) in Romania (Hymenoptera: Stephanidae). *Folia Entomologica Hungarica*, 76: 241–249.
20. Markó, B., Csata, E., Erős, K., Német, E., Czekes, Zs., Rózsa, L. (2016): Distribution of the myrmecoparasitic fungus *Rickia wasmannii* (Ascomycota: Laboulbeniales) across colonies, individuals, and body parts of *Myrmica scabrinodis*. *Journal of Invertebrate Pathology* 136: 74–80. doi: 10.1016/j.jip.2016.03.008. IF: 2.11
21. Markó, B., Szabó, Á.T., Kovács, Zs., Molnár-Kovács, Zs., Szalma, A.-M., Makkai, J.A. (2016): Kultúra, természet, örökség: a kulturális és a természeti örökség kapcsolatának



UNIVERSITATEA BABEŞ-BOLYAI
BABEŞ-BOLYAI TUDOMÁNYEGYETEM
BABEŞ-BOLYAI UNIVERSITAT
TRADITIO ET EXCELLENTIA



Facultatea de Biologie și Geologie

Str. Gheorghe Bîlașcu nr.44
Cluj-Napoca, RO-400015
Tel/Fax.: 0264-43.18.58
bioge@ubbcluj.ro
http://bioge.ubbcluj.ro

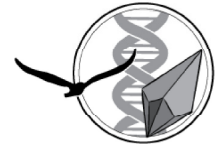


Departamentul de Biologie și Ecologie al Liniei Maghiare
Magyar Biológiai és Ökológiai Intézet

- multidiszciplináris vizsgálata Dél-Nyugat-Szilágyságban. In: Jakab, A. Zs., Vajda, A. (eds.): *Érték és közösség*. Kriza János Néprajzi Társaság, Kolozsvár, pp. 101–129.
22. Német, E., Czekes, Zs., Markó, B., Rákósy, L. (2016): Host plant preference in the protected myrmecophilous Transylvanian Blue (*Pseudophilotes bavius hungarica*) butterfly (Lepidoptera: Lycaenidae) and its relationship with potential ant partners. *Journal of Insect Conservation* DOI 10.1007/s10841-016-9907-5. IF: 1.717
 23. Német, E., Ruprecht, E., Gallé, R., Markó, B. (2016): Abandonment of crop lands leads to different recovery patterns for ant and plant communities in Eastern Europe. *Community Ecology* 17(1): 79–87. <http://dx.doi.org/10.1556/168.2016.17.1.10> IF: 1.214
 24. Osváth-Ferencz, M. (2016): Bérlok, háziurak és szomszédok: populációvizsgálat erdélyi módra. In: *Intelligens háló 2016 – Határon túli fiatal kutatók tanulmányai*. Edutus Főiskola, Tatabánya, Hungary, pp. 135–141.
 25. Osváth-Ferencz, M., Bonelli, S., Nowicki, P., Peregovits, L., Rákósy, L., Sielezniew, M., Kostro-Ambroziak, A., Dziekańska, I., Kőrösi, Á. (2016): Population demography of the endangered large blue butterfly *Maculinea arion* in Europe. *Journal of Insect Conservation* doi 10.1007/s10841-016-9944-0.
 26. Osváth-Ferencz, M., Czekes, Zs., Molnár, Gy., Markó, B., Vizauer, T-C., Rákósy, L., Nowicki, P. (2016): Adult population ecology and egg laying strategy in the ‘*cruciata*’ ecotype of the endangered butterfly *Maculinea alcon* (Lepidoptera: Lycaenidae). *Journal of Insect Conservation* 20: 255–264. doi 10.1007/s10841-016-9858-x. IF: 1.717
 27. Paștiu A.I., Pap P.L., Vágási C.I., Niculae M., Páll E., Domșa C., Brudașcă F.G., Spînu M. (2016). Wild birds in Romania are more exposed to West Nile virus than to Newcastle Disease virus. *Vector-Borne and Zoonotic Diseases* 16: 176–180. IF: 1.956
 28. Réti, K.O., Macalik, K., Carpa, R., Kis, E., Székely, Gy. (2016): Physico-chemical properties of soils populated with wild halophytes in some Romanian areas. *Studia UBB Biologia*, 59(2)
 29. Ruprecht, E., Enyedi, M.Z., Szabó, A., Fenesi, A. (2016). Biomass removal by clipping and raking vs. burning for the restoration of abandoned *Stipa*-dominated European steppe-like grassland. *Applied Vegetation Science* 19: 78–88. IF: 2.548
 30. Ruprecht, E., Lukács, K., Domokos, P., Kuhn, T., Fenesi, A. (2016). Hydration status influences seed fire tolerance in temperate European herbaceous species. *Plant Biology* 18: 295–300. IF: 2.216
 31. Safran R.J., Scordato E.S.C., Wilkins M.R., Hubbard, J.K., Jenkins, B.R., Albrecht T., Flaxman S.M., Karaardıç H., Vortman Y., Lotem A., Nosil P., Pap P.L., Shen S., Chan, S-F., Parchman T., Kane N.C. (2016). Genome-wide differentiation in closely related populations: the roles of selection and geographic isolation. *Molecular Ecology* 25: 3865–3883. IF: 5.947
 32. Soltész, Z., Török, E., Kolcsár, L.-P., Katona, P., Földvári, M., Van Der Weele, R., Papp, L. (2016): Contribution to the Diptera fauna of Sălaj county (Romania). *Studia Universitatis “Vasile Goldiș”, Seria Științele Vieții* 26(1): 169–178.
 33. Török, E., Tomazatos, A., Cadar, D., Horváth, C., Keresztes, L., Jansen, S., Becker, N., Kaiser, A., Popescu, O., Schmidt-Chanasit, J., Jöst, H., Lühken, R. (2016): Pilot longitudinal mosquito



UNIVERSITATEA BABEȘ-BOLYAI
BABEȘ-BOLYAI TUDOMÁNYEGYETEM
BABEȘ-BOLYAI UNIVERSITAT
TRADITIO ET EXCELLENTIA



Facultatea de Biologie și Geologie

Str. Gheorghe Bîlașcu nr.44
Cluj-Napoca, RO-400015
Tel/Fax.: 0264-43.18.58
bioge@ubbcluj.ro
http://bioge.ubbcluj.ro

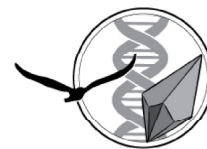


Departamentul de Biologie și Ecologie al Linicii Maghiare
Magyar Biológiai és Ökológiai Intézet

- surveillance study in the Danube Delta Biosphere Reserve and the first reports of *Anopheles algeriensis* Theobald, 1903 and Mihályi, 1955 for Romania. *Parasites and vectors* 9: 196. IF: 3.430
34. Trigos Peral, G., Markó, B., Babik, H., Tăușan, I., Maák, I., Pálfi, Zs., Ślipiński, P., Czekes, Zs., Czechowski, W. (2016): Differential impact of two dominant *Formica* ant species (Hymenoptera, Formicidae) on subordinates in temperate Europe. *Journal of Hymenoptera Research* 50: 97–116. doi: 10.3897/JHR.50.8301. IF: 0.903
35. Vágási C.I., Pap P.L., Vincze O., Osváth G., Erritzøe J., Møller A.P. (2016). Morphological adaptations to migration in birds. *Evolutionary Biology* 43: 48–59. IF: 2.267
36. Vágási C.I., Vincze O., Pătraș L., Osváth G., Marton A., Bărbos L., Sol D., Pap P.L. (2016). Large-brained birds suffer less oxidative damage. *Journal of Evolutionary Biology* 29: 1968–1976. IF: 2.747
37. Vincze, O. (2016): Light enough to travel or wise enough to stay? Brain size evolution and migratory behavior in birds. *Evolution* doi:10.1111/evo.13012. IF: 4.007
38. Vincze, O., Kosztolányi, A., Barta, Z., Küpper, C., Alrashidi, M., Amat, J.A., Ticó, A.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. (2016): Parental cooperation in a changing climate: fluctuating environments predict shifts in care division. *Global Ecology and Biogeography* DOI: 10.1111/geb.12540. IF: 5.84
39. Voica, M.D., Bartha, L., Banciu, H.L., Oren, A. (2016): Heavy metal resistance in halophilic Bacteria and Archaea. *FEMS Microbiology Letters* 363(14). doi: 10.1093/femsle/fnw146. IF: 1.858
40. Waringer, J., Graf, W., Bálint, M., Kucinic, M., Pauls, S., Previsic, A., Keresztes, L., Vitecek, S. (2016): Project overview: the Drusinae (Insecta, Trichoptera) in a World of global change – bridging basic and applied research in a highly sensitive aquatic insect group. *Zoosymposia* 10: 432–438.
41. Waringer, J., Previsic, A., Kucinic, M., Graf, W., Vitecek, S., Keresztes L., Bálint M., Pauls, S. (2016): Larvar morphology of the Western Balkans endemic caddisflies *Drusus krusniki* Malicky, 1981, *D. veronensis* Malicky, 1989, and *D. vespertinus* Marinkovic-Gospodetnic 1976 (Trichoptera, Limnephilidae, Drusinae). *Zootaxa* 4083(4): 483–500. IF: 0.91
42. Wilkins M.R., Karaardıç H., Vortman Y., Parchman T.L., Albrecht T., Petrželková A., Özkan L., Pap P.L., Hubbard J.K., Hund A.K., Safran R.S. (2016). Phenotypic differentiation is associated with divergent sexual selection among closely related barn swallow populations. *Journal of Evolutionary Biology* (in press). IF: 2.747
43. 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,



UNIVERSITATEA BABEȘ-BOLYAI
BABEȘ-BOLYAI TUDOMÁNYEGYETEM
BABEȘ-BOLYAI UNIVERSITAT
TRADITIO ET EXCELLENTIA



Facultatea de Biologie și Geologie

Str. Gheorghe Bîlașcu nr.44
Cluj-Napoca, RO-400015
Tel/Fax.: 0264-43.18.58
bioge@ubbcluj.ro
<http://bioge.ubbcluj.ro>



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

- Y., Stančić, Z., Vashenyak, Y., Vynokurov, D., Janišová, M. (2016). A higher-level classification of the Pannonian and western Pontic steppe grasslands (Central and Eastern Europe). *Applied Vegetation Science*, in press (DOI:10.1111/avsc.12265). IF: 2.548
44. Witek, M., Ślipiński, P., Trigoso Peral, G., Csata, E. (2016): Consequences of the arms race between *Maculinea teleius* social parasite and *Myrmica* host ants for myrmecophilous butterfly conservation. *Journal of Insect Conservation* 20: 887–893. Doi: 10.1007/s10841-016-9925-3. IF: 1.717
45. Zaharie-Butucel, D., Papp J., Leordean, C., Anghel, S. D. (2015): Different ordering carbonaceous structures synthesized by bubbled Ar or He plasmas inside methylene blue solutions with contrasting *Escherichia coli* growth inhibition effects. *RSC Adv.* 5: 98325–98334. IF: 3.84