

Publikace PřF v roce 2018:

[Články v databázi WOS \(články s IF\) \(397\)](#)

[Ostatní příspěvky nevidované v databázi WOS \(bez IF\) \(28\)](#)

[Knihy \(9\)](#)

[Kapitoly v knize \(15\)](#)

[Užitný vzor \(5\)](#)

[Software \(2\)](#)

Články v databázi WOS (články s IF) (397)

Aguilera A., Berrendero Goméz E. KBO, Kaštovský J. KBO, Echenique R., Salerno G. 2018. The polyphasic analysis of two native Raphidiopsis isolates supports the unification of the genera Raphidiopsis and Cylindrospermopsis (Nostocales, Cyanobacteria). *Phycologia* 57: 130-146. <http://dx.doi.org/10.2216/17-2.1>

Akimenko V., Křivan V. UMB 2018. Asymptotic stability of delayed consumer age-structured population models with an Allee effect. *Mathematical Biosciences* 306: 170-179. <http://dx.doi.org/10.1016/j.mbs.2018.10.001>

Altman J., Ukhvatkina O., Omelko A., Macek M., Plener T., Pejcha V., Cerny T., Petrik P., Šrůtek M. KBO, Song J., Zhmerenetsky A., Vozmishcheva A., Krestov P., Petrenko T., Treydte K., Doležal J. KBO 2018. Poleward migration of the destructive effects of tropical cyclones during the 20th century. *Proceedings of The National Academy of Sciences of The United States of America* 115: 11543-11548. <http://dx.doi.org/10.1073/pnas.1808979115>

Andresen E., Peiter E., Küpper H. KEBR 2018. Trace metal metabolism in plants. *Journal of Experimental Botany* 69: 909-954. <http://dx.doi.org/10.1093/jxb/erx465>

Arnan X., Andersen A., Gibb H., Parr C., Sanders N., Dunn R., Angulo E., Baccaro F., Bishop T., Boulay R., Castracani C., Cerdá X., Del Toro I., Delsinne T., Donoso D., Elten E., Fayle TM. KZO, Fitzpatrick M., Gomez C., Grasso D., Grossman B., Guenard B., Gunawardene N., Heterick B., Hoffmann B., Janda M. KZO, Jenkins C., Klimeš P. KZO, Lach L., Laeger T., Leponce M., Lucky A., Majer J., Menke S., Mezger D., Mori A., Moses J. KZO, Munyai T., Paknia O., Pfeiffer M., Philpott S., Souza J., Tista M., Vasconcelos H., Retana J. 2018. Dominance-diversity relationships in ant communities differ with invasion. *Global Change Biology* 24: 4614-4625. <http://dx.doi.org/10.1111/gcb.14331>

Artigas-Jeronimo S., Villar M., Cabezas Cruz A., Valdés JJ. KMB, Estrada-Pena A., Alberdi P., de la Fuente J. 2018. Functional Evolution of Subolesin/Akirin. *Frontiers in Physiology* 9: nestránkováno. <http://dx.doi.org/10.3389/fphys.2018.01612>

Avila A., Cabezas Cruz A. KPA, Gissot M. 2018. mRNA export in the apicomplexan parasite *Toxoplasma gondii*: emerging divergent components of a crucial pathway. *Parasites & Vectors* 11: nestránkováno. <http://dx.doi.org/10.1186/s13071-018-2648-4>

Ávila Robledillo L. KMB, Koblízkova A., Novák P., Böttlinger K. UCH, Vrbová I., Neumann P., Schubert I., Macas J. 2018. Satellite DNA in Vicia faba is characterized by remarkable diversity in its sequence composition, association with centromeres, and replication timing. *Scientific Reports* 8: nestránkováno. <http://dx.doi.org/10.1038/s41598-018-24196-3>

Bajgar A. KMB, Doležal T. KMB 2018. Extracellular adenosine modulates host-pathogen interactions through regulation of systemic metabolism during immune response in *Drosophila*. *PLoS Pathogens* 14: nestránkováno. <http://dx.doi.org/10.1371/journal.ppat.1007022>

Balek L., Nemec P., Koník P. UCH, Bosáková M., Varecha M., Gudernová I., Medálová J., Krakow D., Krejčí P. 2018. Proteomic analyses of signalling complexes associated with receptor tyrosine kinase identify novel members of fibroblast growth factor receptor 3 interactome. *CELLULAR SIGNALLING* 42: 144-154. <http://dx.doi.org/10.1016/j.cellsig.2017.10.003>

Barcyte D., Elster J. CPE, Nedbalová L. 2018. Plastid-encoded rbcL phylogeny suggests widespread distribution of Galdieria phlegrea (Cyanidiophyceae, Rhodophyta). *Nordic Journal of Botany* 36: nestránkováno. <http://dx.doi.org/10.1111/njb.01794>

Barcyte D., Hodac L., Nedbalová L., Elster J. CPE 2018. Chloromonas arctica sp nov., a psychrotolerant alga from snow in the High Arctic (Chlamydomonadales, Chlorophyta). *International Journal of Systematic and Evolutionary Microbiology* 68: 851-859. <http://dx.doi.org/10.1099/ijsem.0.002595>

Barcyte D., Hodac L., Nedbalová L., Elster J. CPE 2018. Chloromonas svalbardensis n. sp with Insights into the Phylogroup Chloromonadinia (Chlorophyceae). *Journal of Eukaryotic Microbiology* 65: 882-892. <http://dx.doi.org/10.1111/jeu.12633>

Bartoňová A. KZO, Konvička M. KZO, Korb S., Kramp K., Schmitt T., Fric Z. 2018. Range dynamics of Palaearctic steppe species under glacial cycles: the phylogeography of *Proterebia afra* (Lepidoptera: Nymphalidae: Satyrinae). Biological Journal of the Linnean Society 125: 867-884. <http://dx.doi.org/10.1093/biolinnean/bly136>

Bartosova-Sojkova P., Lovy A., Reed C., **Lisnerová M. KPA**, Tomkova T., **Holzer AS. KPA**, **Fiala I. KPA** 2018. Life in a rock pool: Radiation and population genetics of myxozoan parasites in hosts inhabiting restricted spaces. PLoS One 13: nestránkováno. <http://dx.doi.org/10.1371/journal.pone.0194042>

Basset YF. KZO, Dahl ChN. KZO, Čtvrtěčka R. KZO, Gripenberg S., Lewis O., **Segar ST. KZO**, Klimes P., Barrios H., Brown J., Bunyavejchewin S., Butcher B., Cognato A., Davies S., **Kaman O. KZO**, Knizek M., Miller S., Morse G., **Novotný V. KZO**, Pongpattananurak N., Pramual P., Quicke D., Robbins R., Sakchoowong W., Schutze M., Vesterinen E., Wang W., Wang Y., Weiblen G., Wright J. 2018. A cross-continental comparison of assemblages of seed- and fruit-feeding insects in tropical rain forests: Faunal composition and rates of attack. Journal of Biogeography 45: 1395-1407.
<http://dx.doi.org/10.1111/jbi.13211>

Bazsalovicsova E., Kolenicova A., Kralova-Hromadova I., Minarik G., Soltys K., Kuchta R., **Štefka J. KMB** 2018. Development of microsatellite loci in zoonotic tapeworm *Dibothriocephalus latus* (Linnaeus, 1758), Luhe, 1899 (syn. *Diphyllobothrium latum*) using microsatellite library screening. Molecular and Biochemical Parasitology 225: 1-3.
<http://dx.doi.org/10.1016/j.molbiopara.2018.08.003>

Bazsalovicsova E., Kralova-Hromadova I., Xi B., **Štefka J. KMB** 2018. Tour around the globe: The case of invasive tapeworm *Atractolyticestus huronensis* (Cestoda: Caryophyllidea), a parasite of common carp. Parasitology International 67: 366-374. <http://dx.doi.org/10.1016/j.parint.2018.02.004>

Becerra-Absalon I., **Johansen J. KBO**, Angeles Munoz-Martin M., Montejano G. 2018. Chroakolemma gen. nov. (Leptolyngbyaceae, Cyanobacteria) from soil biocrusts in the semi-desert Central Region of Mexico. Phytotaxa 367: 201-218. <http://dx.doi.org/10.11646/phytotaxa.367.3.1>

Bednarova A., Tomcala A., **Mochanová M. KZO, Kodrík D. KZO**, Krishnan N. 2018. Disruption of Adipokinetic Hormone Mediated Energy Homeostasis Has Subtle Effects on Physiology, Behavior and Lipid Status During Aging in *Drosophila*. Frontiers in Physiology 9: nestránkováno. <http://dx.doi.org/10.3389/fphys.2018.00949>

Belgio E., **Trsková E. UCH**, Kotabova E., Ewe D., **Prášil O. UCH**, **Kaňa R. UCH** 2018. High light acclimation of *Chromera velia* points to photoprotective NPQ. Photosynthesis Research 135: 263-274. <http://dx.doi.org/10.1007/s11120-017-0385-8>

Beltra A., Waeckers F., **Nedvěd O. KZO**, Pekas A. 2018. Predation rate and performance of three ladybirds against the green peach aphid *Myzus persicae* in sweet pepper. Entomologia Experimentalis et Applicata 166: 491-499.
<http://dx.doi.org/10.1111/eea.12691>

Bengtsson F., Rydin H., **Hájek T. KEBR** 2018. Biochemical determinants of litter quality in 15 species of Sphagnum. Plant and Soil 425: 161-176. <http://dx.doi.org/10.1007/s11104-018-3579-8>

Berec L. UMB, Bernhauerova V., Boldin B. 2018. Evolution of mate-finding Allee effect in prey. Journal of Theoretical Biology 441: 9-18. <http://dx.doi.org/10.1016/j.jtbi.2017.12.024>

Berec L. UMB 2018. Mate search and mate-finding Allee effect: on modeling mating in sex-structured population models. Theoretical Ecology 11: 225-244. <http://dx.doi.org/10.1007/s12080-017-0361-0>

Bernat G., Steinbach G., Kana R., Govindjee A., Misra A., **Prášil O. UCH** 2018. On the origin of the slow M-T chlorophyll a fluorescence decline in cyanobacteria: interplay of short-term light-responses. Photosynthesis Research 136: 183-198. <http://dx.doi.org/10.1007/s11120-017-0458-8>

Berthon R., **Kovačková L. LAPE**, Tresset A., Balasse M. 2018. Integration of Linearbandkeramik cattle husbandry in the forested landscape of the mid-Holocene climate optimum: Seasonal-scale investigations in Bohemia. Journal of Anthropological Archaeology 51: 16-27. <http://dx.doi.org/10.1016/j.jaa.2018.05.002>

Bezawork-Geleta A., Wen H., Dong L., Yan B., Vider J., Boukalova S., Krobova L., Vanova K., Zobalova R., Sobol M., Hozak P., Novais S., **Caisová V. KME**, Abaffy P., Naraine R., Pang Y., Zaw T., Zhang P., Sindelka R., Kubista M., Zuryn S., Molloy M., Berridge M., Pacák K., Rohlena J., Park S., Neuzil J. 2018. Alternative assembly of respiratory complex II connects energy stress to metabolic checkpoints. Nature Communications 9: nestránkováno. <http://dx.doi.org/10.1038/s41467-018-04603-z>

Bhatta BP., Sharma KP., **Balami S. KBO** 2018. Variation in carbon storage among tree species in the planted forest of Kathmandu, Central Nepal. Current Science 115: 274-282. <http://dx.doi.org/10.18520/cs/v115/i2/274-282>

Biriukov D. UFY, Kroutil O. UFY, Předota M. UFY 2018. Modeling of solid-liquid interfaces using scaled charges: rutile (110) surfaces. Physical Chemistry Chemical Physics 20: 23954-23966. <http://dx.doi.org/10.1039/c8cp04535f>

Bjorkman A., Myers-Smith I., Elmendorf S., Normand S., Thomas H., Alatalo J., Alexander H., Anadon-Rosell A., Angers-Blondin S., Bai Y., Baruah G., te B., Berner L., Björk R., Blok D., Bruelheide H., Buchwal A., Buras A., Carbognani M., Christie K., Collier L., Cooper E., Cornelissen J., Dickinson K., Dullinger S., Elberling B., Eskelinen A., Forbes B., Frei E., Iturrate-Garcia M., Good M., Grau O., Green P., Grogan P., Haider S., **Hájek T. CPE**, Hallinger M., Happonen K., Harper K., Heijmans M.,

Henry G., Hermanutz L., Hewitt R., Hollister R., Hudson J., Hülber K., Iversen C., Jaroszynska F., Jiménez-Alfaro B., Johnstone J., Jorgensen R., Kaarlejärvi E., Klady R., Klimešová J., Korsten A., Kuleza S., Kulonen A., Lamarque L., Lantz T., Lavalle A., Lembrechts J., Lévesque E., Little C., Luoto M., **Macek P. CPE**, Mack M., Mathakutha R., Michelsen A., Milbau A., Molau U., Morgan J., Mörsdorf M., Nabe-Nielsen J., Nielsen S., Ninot J., Oberbauer S., Olofsson J., Onipchenko V., Petraglia A., Pickering C., Prevéy J., Rixen C., Rumpf S., Schaepman-Strub G., Semenchuk P., Shetti R., Soudzilovskaia N., Spasojevic M., Speed J., Street L., Suding K., Tape K., Tomaselli M., Trant A., Treier U., Tremblay J., Tremblay M., Venn S. 2018. Tundra Trait Team: A database of plant traits spanning the tundra biome. *Global Ecology and Biogeography* 27: 1402-1411.

<http://dx.doi.org/10.1111/geb.12821>

Bodawatta K., **Sam K. KZO**, Jonsson K., Poulsen M. 2018. Comparative Analyses of the Digestive Tract Microbiota of New Guinean Passerine Birds. *Frontiers in Microbiology* 9: nestránkováno. <http://dx.doi.org/10.3389/fmicb.2018.01830>

Bodlakova K., Benova M., **Kodrík D. KZO** 2018. The effect of adipokinetic hormones on the activity of digestive enzymes. *Physiological Entomology* 43: 140-148. <http://dx.doi.org/10.1111/phen.12238>

Bogdanowicz R., Niedzialkowski P., Sobaszek M., Burnat D., Bialobrzeska W., Cebula Z., **Sezemský P. UFY**, Koba M., **Straňák V. UFY**, Ossowski T., Smietana M. 2018. Optical Detection of Ketoprofen by Its Electropolymerization on an Indium Tin Oxide-Coated Optical Fiber Probe. *Sensors* 18: nestránkováno. <http://dx.doi.org/10.3390/s18051361>

Bohuslavova O., **Macek P. CPE**, Redcenko O., Laska K., Nedbalova L., **Elster J. CPE** 2018. Dispersal of lichens along a successional gradient after deglaciation of volcanic mesas on northern James Ross Island, Antarctic Peninsula. *Polar Biology* 41: 2221-2232. <http://dx.doi.org/10.1007/s00300-018-2357-7>

Bojkova J., Sroka P., Soldan T., Namin J., Staniczek A., Polasek M., **Hrvniak L. KZO**, Abdoli A., Godunko R. 2018. Initial commented checklist of Iranian mayflies, with new area records and description of *Procloeon caspicum* sp n. (Insecta, Ephemeroptera, Baetidae). *ZooKeys* neuveden: 87-123. <http://dx.doi.org/10.3897/zookeys.749.24104>

Borthakur P., Boruah P., Das M., Kulik N., **Minofar B. UFY** 2018. Adsorption of 17 alpha-ethynyl estradiol and beta-estradiol on graphene oxide surface: An experimental and computational study. *Journal of Molecular Liquids* 269: 160-168. <http://dx.doi.org/10.1016/j.molliq.2018.08.013>

Bozoki T., Krasznai-Kun E., **Csercsa A. KBE**, Varbiro G., Boda P. 2018. Temporal and spatial dynamics in aquatic macroinvertebrate communities along a small urban stream. *Environmental Earth Sciences* 77: nestránkováno. <http://dx.doi.org/10.1007/s12665-018-7735-5>

Brasero N., Martinet B., Lecocq T., Lhomme P., **Biella P. KZO**, Valterova I., Urbanova K., Cornalba M., Hines H., Rasmont P. 2018. The cephalic labial gland secretions of two socially parasitic bumblebees *Bombus hyperboreus* (*Alpinobombus*) and *Bombus inexpectatus* (*Thoracobombus*) question their inquiline strategy. *Insect Science* 25: 75-86. <http://dx.doi.org/10.1111/1744-7917.12408>

Bravo J., Borodavka A., Barth A., Calabrese A., Mojzes P., Cockburn J., Lamb D., **Tůma R. UCH** 2018. Stability of local secondary structure determines selectivity of viral RNA chaperones. *Nucleic Acids Research* 46: 7924-7937. <http://dx.doi.org/10.1093/nar/gky394>

Brkljac Z., Namjesnik D., Luetzenkirchen J., **Předota M. UFY**, Preocanin T. 2018. Quartz/Aqueous Electrolyte Solution Interface: Molecular Dynamic Simulation and Interfacial Potential Measurements. *Journal of Physical Chemistry C* 122: 24025-24036. <http://dx.doi.org/10.1021/acs.jpcc.8b04035>

Brunson J., McKinnie S., Chekan J., McCrow J., Miles Z., Bertrand E., Bielinski V., Luhavaya H., **Oborník M. KMB**, Smith G., Hutchins D., Allen A., Moore B. 2018. Biosynthesis of the neurotoxin domoic acid in a bloom-forming diatom. *Science* 361: 1356-+. <http://dx.doi.org/10.1126/science.aau0382>

Bryja J., Konvickova H., Bryjova A., Mikula O., Makundi R., Chitaukali W., **Šumbera R. KZO** 2018. Differentiation underground: Range-wide multilocus genetic structure of the silvery mole-rat does not support current taxonomy based on mitochondrial sequences. *Mammalian Biology* 93: 82-92. <http://dx.doi.org/10.1016/j.mambio.2018.08.006>

Bryja J., Kostin D., Meheretu Y., **Šumbera R. KZO**, Bryjova A., Kasso M., Mikula O., Lavrenchenko L. 2018. Reticulate Pleistocene evolution of Ethiopian rodent genus along remarkable altitudinal gradient. *Molecular Phylogenetics and Evolution* 118: 75-87. <http://dx.doi.org/10.1016/j.ympev.2017.09.020>

Bucsek K., **Rindoš M. KZO** 2018. Description of a new species from the genus *Eugoa* Walker, 1858 (Lepidoptera: Erebidae: Arctiinae) from the Solomon Islands. *Zootaxa* 4504: 135-137. <http://dx.doi.org/10.11646/zootaxa.4504.1.8>

Bučinská L. UCH, Kiss E., **Koník P. UCH**, Knoppova J., Komenda J., **Sobotka R. KMB** 2018. The Ribosome-Bound Protein Pam68 Promotes Insertion of Chlorophyll into the CP47 Subunit of Photosystem II. *Plant Physiology* 176: 2931-2942. <http://dx.doi.org/10.1104/pp.18.00061>

Burress E., **Pialek L. KZO**, Casciotta J., Almiron A., Tan M., Armbruster J., **Říčan O. KZO** 2018. Island- and lake-like parallel adaptive radiations replicated in rivers. *Proceedings of the Royal Society of London Series B - Biological Sciences* 285: nestránkováno. <http://dx.doi.org/10.1098/rspb.2017.1762>

Buse J., Slachta M., **Sládeček F. KZO**, Carpaneto G. 2018. Summary of the morphological and ecological traits of Central European dung beetles. Entomological Science 21: 315-323. <http://dx.doi.org/10.1111/ens.12313>

Butenko A., Vieira T., Frolov A., Opperdoes F., Soares R., Kostygov A., **Lukeš J. KMB**, Yurchenko V. 2018. Leptomonas pyrrhocoris: Genomic insight into Parasite's Physiology. Current Genomics 19: 150-156. <http://dx.doi.org/10.2174/138920291866170815143331>

Butora L., Leso P., Kocikova K., Kropil R., Pataky T., **Svitok M. KBE** 2018. Sexual dimorphism of craniological characters in the European badger, *Meles meles*, (Carnivora, Mustelidae) from the Western Carpathians. Folia Zoologica 67: 220-230. <http://dx.doi.org/10.25552/fozo.v67.i3-4.a11.2018>

Cabezas Cruz A. KPA, Vayssier-Taussat M., Greub G. 2018. Tick-borne pathogen detection: what's new?. Microbes and Infection 20: 441-444. <http://dx.doi.org/10.1016/j.micinf.2017.12.015>

Cabezas-Cruz A., Espinosa P., Alberdi P., Simo L., **Valdés JJ. KMB**, Mateos-Hernandez L., Contreras M., Villar Rayo M., de la Fuente J. 2018. Tick galactosyltransferases are involved in alpha-Gal synthesis and play a role during *Anaplasma phagocytophilum* infection and *Ixodes scapularis* tick vector development. Scientific Reports 8: nestránkováno. <http://dx.doi.org/10.1038/s41598-018-32664-z>

Caisová V. KME, Uher O. KME, Nedbalová P. KME, Jochmanova I., **Kvardová K. KME**, **Masáková K. KME**, Krejčová G. KME, Padouková L. KME, Chmelář J. KME, Kopecký J. KME, Ženka J. KME 2018. Effective cancer immunotherapy based on combination of TLR agonists with stimulation of phagocytosis. International Immunopharmacology 59: 86-96. <http://dx.doi.org/10.1016/j.intimp.2018.03.038>

Capek P., Manzoni S., **Kaštovská E. KBE**, Wild B., **Diáková K. KBE**, **Bárta J. KBE**, Schnecker J., Blasi C., Martikainen P., Alves R., Guggenberger G., Gentsch N., Hugelius G., Palmtag J., Mikutta R., Shibistova O., Urich T., Schleper C., Richter A., **Šantrúčková H. KBE** 2018. A plant-microbe interaction framework explaining nutrient effects on primary production. Nature Ecology & Evolution 2: 1588-1596. <http://dx.doi.org/10.1038/s41559-018-0662-8>

Ceryngier P., **Nedvěd O. KZO**, Grez A., Riddick E., Roy H., San Martin G., Steenberg T., **Veselý P. KZO**, Zaviezo T., Zuniga-Reinoso A., Haelewaters D. 2018. Predators and parasitoids of the harlequin ladybird, *Harmonia axyridis*, in its native range and invaded areas. Biological Invasions 20: 1009-1031. <http://dx.doi.org/10.1007/s10530-017-1608-9>

Clark N., Clegg S., **Sam K. KZO**, Goulding W., Koane B., Wells K. 2018. Climate, host phylogeny and the connectivity of host communities govern regional parasite assembly. Diversity and Distributions 24: 13-23. <http://dx.doi.org/10.1111/ddi.12661>

Couto J., Tonk M., Ferrolho J., Antunes S., Vilcinskas A., de la Fuente J., Domingos A., **Cabezas Cruz A. KPA** 2018. Antiplasmodial activity of tick defensins in a mouse model of malaria. Ticks and Tick-borne Diseases 9: 844-849. <http://dx.doi.org/10.1016/j.ttbdis.2018.03.011>

Craven D., Eisenhauer N., Pearse W., Hautier Y., Isbell F., Roscher C., Bahn M., Beierkuhnlein C., Boenisch G., Buchmann N., Byun C., Catford J., Cerabolini B., Cornelissen J., Craine J., De Luca E., Ebeling A., Griffin J., Hector A., Hines J., Jentsch A., Kattge J., Kreyling J., **Lanta V. KBO**, Lemoine N., Meyer S., Minden V., Onipchenko V., Polley H., Reich P., van Ruijven J., Schamp B., Smith M., Soudzilovskaia N., Tilman D., Weigelt A., Wilsey B., Manning P. 2018. Multiple facets of biodiversity drive the diversity-stability relationship. Nature Ecology & Evolution 2: 1579-1587. <http://dx.doi.org/10.1038/s41559-018-0647-7>

Cross A., Young R., Nevill P., McDonald T., **Prach K. KBO**, Aronson J., Wardell-Johnson G., Dixon K. 2018. Appropriate aspirations for effective post-mining restoration and rehabilitation: a response to Kazmierczak et al.. Environmental Earth Sciences 77: nestránkováno. <http://dx.doi.org/10.1007/s12665-018-7437-z>

Czernekova M., Jonsson K., Hajer J., **Devetter M. CPE** 2018. Evaluation of extraction methods for quantitative analysis of tardigrade populations in soil and leaf litter. Pedobiologia 70: 1-5. <http://dx.doi.org/10.1016/j.pedobi.2018.06.005>

Dao HT., Gentsch N., Mikutta R., Sauheitl L., Shibistova O., Wild B., Schnecker J., **Bárta J. KBE**, **Čapek P. KBE**, Gittel A., Lashchinskiy N., Urich T., **Šantrúčková H. KBE**, Richter A., Guggenberger G. 2018. Fate of carbohydrates and lignin in north-east Siberian permafrost soils. Soil Biology & Biochemistry 116: 311-322. <http://dx.doi.org/10.1016/j.soilbio.2017.10.032>

Darwell C., **Segar S. KZO**, Cook J. 2018. Conserved community structure and simultaneous divergence events in the fig wasps associated with <math>\mathcal{Ficus benjamina}</math> in Australia and China. BMC Ecology 18: nestránkováno. <http://dx.doi.org/10.1186/s12898-018-0167-y>

Dengler J., Wagner V., Dembicz I., Garcia-Mijangos I., Naqinezhad A., Boch S., Chiarucci A., Conradi T., Filibeck G., Guarino R., Janisova M., Steinbauer M., Acic S., Acosta A., Akasaka M., Allers M., Apostolova I., Axmanova I., Bakan B., Baranova A., Bardy-Durchalder M., Bartha S., Baumann E., Becker T., Becker U., Belonovskaya E., Bengtsson K., Benito Alonso J., Berastegi A., Bergamini A., Bonini I., Bruun H., Budzhak V., Bueno A., Antonio Campos J., Cancellieri L., Carboni M., Chocarro C., Conti L., Czarniecka-Wiera M., De Frenne P., Deak B., Didukh Y., Diekmann M., Dolnik C., Dupre C., Ecker K., Ermakov N., Erschbamer B., Escudero A., Etayo J., Fajmonova Z., Felde V., Fernandez Calzado M., Finckh M., Fotiadis G., Fracchiolla M., Ganeva A., Garcia-Magro D., Gavilan R., Germany M., Giladi I., Gillet F., Giusso del Galdo G., Gonzalez J., Grytnes J., Hajek M., Hajkova P., Helm A., Herrera M., Hettenbergerova E., Hobohm C., Huellbusch E., Ingerpuu N., Jandt U., Jeltsch F., Jensen K.,

Jentsch A., Jeschke M., Jimenez-Alfaro B., Kacki Z., Kakinuma K., Kapfer J., Kavgaci A., Kelemen A., Kiehl K., Koyama A., Koyanagi T., Kozub L., Kuzemko A., Kyrkjeeide M., Landi S., Langer N., Lastrucci L., Lazzaro L., Lelli C., Leps J., Loebel S., **Lepš J.** **KBO** 2018. GrassPlot - a database of multi-scale plant diversity in Palaearctic grasslands. *Phytocoenologia* 48: 331-347. <http://dx.doi.org/10.1127/phyto/2018/0267>

Des Marteaux L., Štětina T. **KZO**, Kostal V. 2018. Insect fat body cell morphology and response to cold stress is modulated by acclimation. *Journal of Experimental Biology* 221: nestránkováno. <http://dx.doi.org/10.1242/jeb.189647>

Dixit S. **KMB**, Lukeš J. **KMB** 2018. Combinatorial interplay of RNA-binding proteins tunes levels of mitochondrial mRNA in trypanosomes. *RNA-A Publication of the RNA Society* 24: 1594-1606. <http://dx.doi.org/10.1261/rna.066233.118>

Dolezelova E., Teran D., Gahura O., Kotrbova Z., **Procházková M. KMB**, Keough D., Spacek P., Hockova D., Guddat L., **Zíková A. KMB** 2018. Evaluation of the Trypanosoma brucei 6-oxopurine salvage pathway as a potential target for drug discovery. *PLoS Neglected Tropical Diseases* 12: nestránkováno. <http://dx.doi.org/10.1371/journal.pntd.0006301>

Dorck V., Novak D., **Kabeláč M. UCH**, Kroutil O. **UFY**, Bednarova L., Veverka V., Vacek J. 2018. Structural Stability of Peptidic His-Containing Proton Wire in Solution and in the Adsorbed State. *Langmuir* 34: 6997-7005. <http://dx.doi.org/10.1021/acs.langmuir.7b04139>

D'Oronzo E., Secundo F., **Minofar B. UFY**, Kulik N., Pometun A., Tishkov V. 2018. Activation/Inactivation Role of Ionic Liquids on Formate Dehydrogenase from *Pseudomonas* sp 101 and Its Mutated Thermostable Form. *ChemCatChem* 10: 3247-3259. <http://dx.doi.org/10.1002/cctc.201800145>

Dostalek L., Avall-Lundqvist E., Creutzberg C., Kurdiani D., Ponce J., **Dostálková I. UMB**, Cibula D. 2018. ESGO Survey on Current Practice in the Management of Cervical Cancer. *International Journal of Gynecological Cancer* 28: 1226-1231. <http://dx.doi.org/10.1097/IGC.0000000000001314>

Drag L. **KZO**, Hauck D., Říčan O. **KZO**, Schmitt T., Shovkoon D., Godunko R., Curletti G., Čížek L. **KZO** 2018. Phylogeography of the endangered saproxylic beetle Rosalia longicorn, Rosalia alpina (Coleoptera, Cerambycidae), corresponds with its main host, the European beech (*Fagus sylvatica*, Fagaceae). *Journal of Biogeography* 45: 2631-2644. <http://dx.doi.org/10.1111/jbi.13429>

Drag L., Čížek L. **KZO** 2018. Radio-Tracking Suggests High Dispersal Ability of the Great Capricorn Beetle (*Cerambyx cerdo*). *Journal of Insect Behavior* 31: 138-143. <http://dx.doi.org/10.1007/s10905-018-9669-x>

Dvořáčková S. **PF/KBI**, Ryppl J. **PF/KGE**, Kučera T. **KBE** 2018. Vztah českých žáků k výuce neživé přírody: postoje, znalosti a nejrozšířenější miskoncepce. *Geographia Cassoviensis* 12: 133-145.

Dzatko S., Krafcikova M., Haensel-Hertsch R., **Fessl T. UCH**, Fiala R., Loja T., Krafcik D., Mergny J., Foldynova-Trantirkova S., Trantirek L. 2018. Evaluation of the Stability of DNA i-Motifs in the Nuclei of Living Mammalian Cells. *Angewandte Chemie International Edition* 57: 2165-2169. <http://dx.doi.org/10.1002/anie.201712284>

Edwards K. **KBE**, Kaštovská E. **KBE**, Borovec J. **KBE**, Šantrůčková H. **KBE**, Picek T. **KBE** 2018. Species effects and seasonal trends on plant efflux quantity and quality in a spruce swamp forest. *Plant and Soil* 426: 179-196. <http://dx.doi.org/10.1007/s11104-018-3610-0>

Ellis L., Afonina O., Aleffi M., Andriamiarisoa R., Backor M., Goga M., Bednarek-Ochyra H., Callaghan D., Campisi P., Dia M., Marino M., Enroth J., Erzberger P., Hugonnot V., Ignatova E., Kiebacher T., **Kučera J. KBO**, Lebouvier M., Maria G., Stefanut S., Nagy J., Pocs T., Poponessi S., Venanzoni R., Gigante D., Prosser F., Reeb C., Sabovljevic M., Shevock J., Shirzadian S., Darzikolaei S., Souza E., Pinto A., Silva J., Lopes S., Torzewski K., Kazienko A. 2018. New national and regional bryophyte records, 55. *Journal of Bryology* 40: 173-187. <http://dx.doi.org/10.1080/03736687.2018.1454161>

Ellis L., Afonina O., Andriamiarisoa R., Asthana G., Bharti R., Aymerich P., Bambe B., Boiko M., Brugues M., Ruiz E., Saez L., Cano M., Ros R., Cihal L., Deme J., Csiky J., Dihoru G., Drevojan P., Ezer T., Fedosov V., Ignatova E., Seregin A., Garcia C., Martins A., Sergio C., Sim-Sim M., Rodrigues A., Gradstein S., Reeb C., Irmah A., Suleiman M., Koponen T., **Kučera J. KBO**, Lebouvier M., LiQun Y., Long D., Maksimov A., Maksimova T., Munoz J., Nobis M., Nowak A., Ochyra R., O'Leary S., Osorio F., Pisarenko O., Plasek V., Skoupa Z., Schaefer-Verwimp A., Schnyder N., Shevock J., Stefanut S., Sulayman M., Sun B., Park S., Tubanova D., Vana J., Wolski G., Yao K., Yoon Y., Yucel E. 2018. New national and regional bryophyte records, 56. *Journal of Bryology* 40: 271-296. <http://dx.doi.org/10.1080/03736687.2018.1487687>

Ellis L., Aleffi M., Asthana G., Bhagat C., Bakalin V., Barath K., Becker R., Bednarek-Ochyra H., Boiko M., Brito M., Pimentel C., Brugues M., Saez L., Drevojan P., Enroth J., Erzberger P., Fedosov V., Fontinha S., Fuertes Lasala E., Gabriel R., Gallego M., Gradstein S., Homm T., Hugonnot V., Ivchenko T., Klimova K., **Kučera J. KBO**, Lamkowski P., Lapshina E., Lebouvier M., Lopez Gonzalez A., Ma W., Manolaki P., Monteiro J., Vieira C., Portela A., Sim-Sim M., Maksimov A., Norhazrina N., Syazwana N., Asyifaa S., Poponessi S., Venanzoni R., Gigante D., Prosser F., Potemkin A., Kotkova V., Sabovljevic M., Sabovljevic A., Schaefer-Verwimp A., Sergio C., Garcia C., Shevock J., Stebel A., Drobnik J., Voncina G., Wei Y. 2018. New national and regional bryophyte records, 57. *Journal of Bryology* 40: 399-419. <http://dx.doi.org/10.1080/03736687.2018.1523601>

Estrada-Pena A., Alvarez-Jarreta J., **Cabezas Cruz A. KPA** 2018. Reservoir and vector evolutionary pressures shaped the adaptation of *Borrelia*. *Infection, Genetics and Evolution* 66: 308-318. <http://dx.doi.org/10.1016/j.meegid.2018.03.023>

Estrada-Pena A., Villar M., Artigas-Jeronimo S., Lopez V., Alberdi P., **Cabezas Cruz A. KPA**, de la Fuente J. 2018. Use of Graph Theory to Characterize Human and Arthropod Vector Cell Protein Response to Infection With *Anaplasma phagocytophilum*. *Frontiers in Cellular and Infection Microbiology* 8: nestránkováno. <http://dx.doi.org/10.3389/fcimb.2018.00265>

Faktorová D. KMB, Bar A., **Hashimi MMH. KMB**, McKenney K., **Horák A. KMB**, Schnaufer A., Rubio M., Alfonzo J., **Lukeš J. KMB** 2018. TbUTP10, a protein involved in early stages of pre-18S rRNA processing in *Trypanosoma brucei*. *Molecular and Biochemical Parasitology* 225: 84-93. <http://dx.doi.org/10.1016/j.molbiopara.2018.09.003>

Ferenc M., Sedlacek O., **Fuchs R. KZO**, Horak D., Storchova L., Fraissinet M., Storch D. 2018. Large-scale commonness is the best predictor of bird species presence in European cities. *Urban Ecosystems* 21: 369-377. <http://dx.doi.org/10.1007/s11252-017-0709-7>

Ferenc M., Sedlacek O., Tropek R., Albrecht T., Altman J., Dancak M., **Doležal J. KBO**, Janecek S., **Maicher V. KZO**, Majesky L., Motombi F., Murkwe M., **Sáfián S. KZO**, Svoboda M., Horak D. 2018. Something is missing at the bottom: Importance of coastal rainforests for conservation of trees, birds and butterflies in the Mount Cameroon area. *African Journal of Ecology* 56: 679-683. <http://dx.doi.org/10.1111/aje.12506>

Fernandez de Mera I., Blanda V., Torina A., Dabaja M., El Romeh A., **Cabezas Cruz A. KPA**, de la Fuente J. 2018. Identification and molecular characterization of spotted fever group rickettsiae in ticks collected from farm ruminants in Lebanon. *Ticks and Tick-borne Diseases* 9: 104-108. <http://dx.doi.org/10.1016/j.ttbdis.2017.10.001>

Fessl T. UCH, Watkins D., Oatley P., Allen W., Corey R., Horne J., Baldwin S., Radford S., Collinson I., **Tůma R. UCH** 2018. Dynamic action of the Sec machinery during initiation, protein translocation and termination. *eLife* 7: nestránkováno. <http://dx.doi.org/10.7554/eLife.35112>

Fibich P. KBO, **Vítová A. KBO**, **Lepš J. KBO** 2018. Interaction between habitat limitation and dispersal limitation is modulated by species life history and external conditions: a stochastic matrix model approach. *Community Ecology* 19: 9-20. <http://dx.doi.org/10.1556/168.2018.19.1.2>

Flegontova O. KMB, Flegontov P., Malviya S., Poulain J., de Vargas C., Bowler C., **Lukeš J. KMB**, **Horák A. KMB** 2018. Neobodonids are dominant kinetoplastids in the global ocean. *Environmental Microbiology* 20: 878-889. <http://dx.doi.org/10.1111/1462-2920.14034>

Frutos E., Karlik M., Jimenez J., **Langhansová H. KME**, **Lieskovská J. KME**, Polcar T. 2018. Development of new beta/alpha "-Ti-Nb-Zr biocompatible coating with low Young's modulus and high toughness for medical applications. *Materials & Design* 142: 44-55. <http://dx.doi.org/10.1016/j.matdes.2018.01.014>

Gahura O., Panicucci B., Vachova H., Walker J., **Zíková A. KMB** 2018. Inhibition of F-1-ATPase from *Trypanosoma brucei* by its regulatory protein inhibitor TbIF1. *FEBS Journal* 285: 4413-4423. <http://dx.doi.org/10.1111/febs.14672>

Gahura O., Subrtova K., Vachova H., Panicucci B., Fearnley I., Harbour M., Walker J., **Zíková A. KMB** 2018. The F1-ATPase from *Trypanosoma brucei* is elaborated by three copies of an additional p18-subunit. *FEBS Journal* 285: 614-628. <http://dx.doi.org/10.1111/febs.14364>

Garcia-Medina N. KBO, Bowker M., Hortal J., Mazimpaka V., Lara F. 2018. Shifts in the importance of the species pool and environmental controls of epiphytic bryophyte richness across multiple scales. *Oecologia* 186: 805-816. <http://dx.doi.org/10.1007/s00442-018-4066-x>

Gargas C., Theriot E., Ashworth M., **Johansen J. KBO** 2018. Phylogenetic Analysis Reveals that the 'Radial Centric' Diatom *Orthoseira Thwaites* (*Orthoseiraceae*, *Bacillariophyta*) is a Member of a 'Multipolar' Diatom Lineage. *Protist* 169: 803-825. <http://dx.doi.org/10.1016/j.protis.2018.08.005>

Gaysina L., Bohunicka M., Hazukova V., **Johansen J. KBO** 2018. Biodiversity of terrestrial cyanobacteria of the South Ural region. *Cryptogamie/Algologie* 39: 167-198. <http://dx.doi.org/10.7872/crya/v39.iss2.2018.167>

Gentsch N., Wild B., Mikutta R., **Čapek P. KBE**, **Diáková K. KBE**, Schrumpf M., Turner S., Minnich C., Schaarschmidt F., Shibalova O., Schnecker J., Urich T., Gittel A., **Šantrúčková H. KBE**, **Bárta J. KBE**, Lashchinskiy N., Fuss R., Richter A., Guggenberger G. 2018. Temperature response of permafrost soil carbon is attenuated by mineral protection. *Global Change Biology* 24: 3401-3415. <http://dx.doi.org/10.1111/gcb.14316>

Gerasimov E., Gasparyan A., **Kaurov I. KMB**, Tichy B., Logacheva M., Kolesnikov A., **Lukeš J. KMB**, Yurchenko V., Zimmer S., Flegontov P. 2018. Trypanosomatid mitochondrial RNA editing: dramatically complex transcript repertoires revealed with a dedicated mapping tool. *Nucleic Acids Research* 46: 765-781. <http://dx.doi.org/10.1093/nar/gkx1202>

Gerhart J., Dutcher H., Brenner A., Moses A., **Grubhoffer L. KPA**, Raghavan R. 2018. Multiple Acquisitions of Pathogen-Derived Francisella Endosymbionts in Soft Ticks. *Genome Biology and Evolution* 10: 607-615. <http://dx.doi.org/10.1093/gbe/evy021>

Giassa I., Rynes J., **Fessl T. UCH**, Foldynova-Trantirkova S., Trantirek L. 2018. Advances in the cellular structural biology of nucleic acids. *FEBS Letters* 592: 1997-2011. <http://dx.doi.org/10.1002/1873-3468.13054>

Gippoliti S., De Francesco T., **Robovský J. KZO** 2018. On the shoulders of giants: Reginald Innes Pocock and integrative mammal research in museums and zoos. *Mammalia* 82: 529-539. <http://dx.doi.org/10.1515/mammalia-2017-0089>

Gippoliti S., **Robovský J. KZO** 2018. Ex Situ Sumatran Rhinoceros Conservation and the Agony of Choice. An Integration with the Management Strategy Proposed by Brandt et al. (2018). *Journal of Heredity* 109: 830-831. <http://dx.doi.org/10.1093/jhered/esy053>

Gippoliti S., **Robovský J. KZO** 2018. Lorenzo Camerano (1856-1917) and his contribution to large mammal phylogeny and taxonomy, with particular reference to the genera *Capra*, *Rupicapra* and *Rangifer*. *Rendiconti Lincei. Scienze Fisiche e Naturali* 29: 443-451. <http://dx.doi.org/10.1007/s12210-018-0686-7>

Godo L., Tothmeresz B., Valko O., Toth K., Kiss R., Radocz S., Kelemen A., Torok P., **Švamberková E. KBO**, Deak B. 2018. Ecosystem engineering by foxes is mediated by the landscape context-A case study from steppic burial mounds. *Ecology and Evolution* 8: 7044-7054. <http://dx.doi.org/10.1002/ece3.4224>

Gonzalez-Resendiz L., **Johansen JR. KBO**, Alba-Lois L., Segal-Kischinevzky C., Escobar-Sanchez V., Jimenez Garcia L., **Hauer T. KBO**, Leon-Tejera H. 2018. Nunduva, a new marine genus of Rivulariaceae (Nostocales, Cyanobacteria from marine rocky shores. *Fottea* 18: 86-105. <http://dx.doi.org/10.5507/fot.2017.018>

Gonzalez-Resendiz L., **Johansen JR. KBO**, Escobar-Sanchez V., Segal-Kischinevzky C., Jimenez-Garcia L., Leon-Tejera H. 2018. TWO NEW SPECIES OF PHYLLONEMA (RIVULARIACEAE, CYANOBACTERIA) WITH AN EMENDATION OF THE GENUS. *Journal of Phycology* 54: 638-652. <http://dx.doi.org/10.1111/jpy.12769>

Grinkevich P. UFY, Sinha D., Iermak I., Guzanova A., Weiserova M., Ludwig J., Mesters J., Ettrich R. 2018. Crystal structure of a novel domain of the motor subunit of the Type I restriction enzyme EcoR124 involved in complex assembly and DNA binding. *Journal of Biological Chemistry* 293: 15043-15054. <http://dx.doi.org/10.1074/jbc.RA118.003978>

Grujčić V. KBE, Nuy J., Salcher M., Shabarova T., Kasalicky V., Boenigk J., Jensen M., **Šimek K. KBE** 2018. Cryptophyta as major bacterivores in freshwater summer plankton. *I S M E Journal* 12: 1668-1681. <http://dx.doi.org/10.1038/s41396-018-0057-5>

Grybchuk D., Akopyants N., Kostygov A., Konovalovas A., Lye L., Dobson D., Zanger H., Fasel N., Butenko A., Frolov A., Votypka J., d'Avila-Levy C., Kulich P., Moravcova J., Plevka P., Rogozin I., Serva S., **Lukeš J. KMB**, Beverley S., Yurchenko V. 2018. Viral discovery and diversity in trypanosomatid protozoa with a focus on relatives of the human parasite Leishmania. *Proceedings of The National Academy of Sciences of The United States of America* 115: E506-E515. <http://dx.doi.org/10.1073/pnas.1717806115>

Grybchuk D., Kostygov A., Macedo D., Votypka J., **Lukeš J. KMB**, Yurchenko V. 2018. RNA Viruses in Blechomonas (Trypanosomatidae) and Evolution of Leishmaniavirus. *mBio* 9: nestránkováno. <http://dx.doi.org/10.1128/mBio.01932-18>

Gryndler M., **Šmilauer P. KBE**, Puschel D., Bukovska P., Hrselova H., Hujsova M., Gryndlerova H., Beskid O., Konvalinkova T., Jansa J. 2018. Appropriate nonmycorrhizal controls in arbuscular mycorrhiza research: a microbiome perspective. *Mycorrhiza* 28: 435-450. <http://dx.doi.org/10.1007/s00572-018-0844-x>

Haelewaters D. KZO, De Kesel A., Pfister D. 2018. Integrative taxonomy reveals hidden species within a common fungal parasite of ladybirds. *Scientific Reports* 8: nestránkováno. <http://dx.doi.org/10.1038/s41598-018-34319-5>

Haelewaters D. KZO, Hiller T., Dick C. 2018. Bats, Bat Flies, and Fungi: A Case of Hyperparasitism. *Trends in Parasitology* 34: 784-799. <http://dx.doi.org/10.1016/j.pt.2018.06.006>

Haeuser E., Dawson W., Thuiller W., Dullinger S., Block S., Bossdorf O., Carboni M., **Conti L. KBO**, Dullinger I., Essl F., Klonner G., Moser D., Munkemueler T., Parepa M., Talluto M., Kreft H., Pergl J., Pysek P., Weigelt P., Winter M., Hermy M., Van der Veken S., Roquet C., van Kleunen M. 2018. European ornamental garden flora as an invasion debt under climate change. *Journal of Applied Ecology* 55: 2386-2395. <http://dx.doi.org/10.1111/1365-2664.13197>

Hajkova P., Jamrichova E., Petr L., Dudova L., Rolecek J., Galova A., Dresler P., **Novák J. LAPE**, Hajek M. 2018. Persistence of a vegetation mosaic in a peripheral region: could turbulent medieval history disrupt Holocene continuity of extremely species-rich grasslands?. *Vegetation history and archeobotany* 27: 591-610. <http://dx.doi.org/10.1007/s00334-017-0660-9>

Hajkova P., **Štechová T. KBO**, Soltes R., Smerdova E., Pleskova Z., Dite D., **Bradáčová J. KBO**, Mutnanova M., Singh P., Hajek M. 2018. Using a new database of plant macrofossils of the Czech and Slovak Republics to compare past and present distributions of hypothetically relict fen mosses. *Preslia : časopis České botanické společnosti* 90: 367-386. <http://dx.doi.org/10.23855/preslia.2018.367>

Hanna C., Taudt A., Huang J., **Gahurová L. KMB**, Kranz A., Andrews S., Dean W., Stewart A., Colome-Tatche M., Kelsey G. 2018. MLL2 conveys transcription-independent H3K4 trimethylation in oocytes. *Nature Structural & Molecular Biology* 25: 73-84. <http://dx.doi.org/10.1038/s41594-017-0013-5>

Harborne S., Strauss J., Turku A., Watson M., **Tůma R. UCH**, Harris S., Goldman A. 2018. Defining Dynamics of Membrane-Bound Pyrophosphatasases by Experimental and Computational Single-Molecule FRET. *Methods in Enzymology* 607: 93-130. <http://dx.doi.org/10.1016/bs.mie.2018.04.017>

Harmer J., Yurchenko V., **Nenarokova A. KMB**, Lukeš J. **KMB**, Ginger M. 2018. Farming, slaving and enslavement: histories of endosymbioses during kinetoplastid evolution. *Parasitology* 145: 1311-1323.
<http://dx.doi.org/10.1017/S0031182018000781>

Hartmann D. KME, Sima R., **Konvičková J. KMB**, Perner J., Kopacek P., Sojka D. 2018. Multiple legumain legumain isoenzymes in ticks. *International Journal for Parasitology* 48: 167-178. <http://dx.doi.org/10.1016/j.ijpara.2017.08.011>

Heidari F., Riahi H., Aghamiri M., Zakeri F., Shariatmadari Z., **Hauer T. KBO** 2018. Ra-226, U-238 and Cd adsorption kinetics and binding capacity of two cyanobacterial strains isolated from highly radioactive springs and optimal conditions for maximal removal effects in contaminated water. *International Journal of Phytoremediation* 20: 369-377.
<http://dx.doi.org/10.1080/15226514.2017.1393392>

Heidari F., Zima J., Riahi H., **Hauer T. KBO** 2018. New simple trichal cyanobacterial taxa isolated from radioactive thermal springs. *Fottea* 18: 137-149. <http://dx.doi.org/10.5507/fot.2017.024>

Henning Y., **Mladěnková N. KZO**, Burda H. **KZO**, Szafranski K., Begall S. 2018. Retinal S-opsin dominance in Ansell's mole-rats (*Fukomys anselli*) is a consequence of naturally low serum thyroxine. *Scientific Reports* 8: nestránkováno.
<http://dx.doi.org/10.1038/s41598-018-22705-y>

Hofmannova L., Jirku M., Rehakova M., **Kvičerová J. KPA** 2018. Two new species of Eimeria (Apicomplexa: Eimeriidae) in Philippine tarsier (*Tarsius syrichta*). *European Journal of Protistology* 66: 77-85.
<http://dx.doi.org/10.1016/j.ejop.2018.08.003>

Holec J., **Kučera T. KBE** 2018. Hydnoid fungi of the family Bankeraceae - their assemblages and vegetation ecology in Central Europe, Czech Republic. *Fungal Ecology* 32: 40-48. <http://dx.doi.org/10.1016/j.funeco.2017.11.007>

Holec J., Kunca V., Sevcikova H., Dima B., Kriz M., **Kučera T. KBE** 2018. *Pluteus fenzlii* (Agaricales, Pluteaceae) - taxonomy, ecology and distribution of a rare and iconic species. *Sydotwia* 70: 11-26. <http://dx.doi.org/10.12905/0380.sydotwia70-2018-0011>

Holecova M., Zach P., Holla K., Sebestova M., Klesniakova M., Sestakova A., Honek A., **Nedvěd O. KZO**, Parak M., Martinkova Z., Holec J., Viglasova S., Brown P., Roy H., Kulfan J. 2018. Overwintering of ladybirds (Coleoptera: Coccinellidae) on Scots pine in Central Europe. *European Journal of Entomology* 115: 658-667. <http://dx.doi.org/10.14411/eje.2018.065>

Holicová T. KZO, **Sedláček F. KZO**, **Mácová A. KPA**, **Vlček J. KZO**, **Robovský J. KZO** 2018. New record of *Microtus mystacinus* in eastern Kazakhstan: phylogeographical considerations. *ZooKeys AUG* 2018: 67-80.
<http://dx.doi.org/10.3897/zookeys.781.25359>

Hontani Y., Kloz M., **Polívka T. UFY**, Shukla M., Sobotka R., Kennis J. 2018. Molecular Origin of Photoprotection in Cyanobacteria Probed by Watermarked Femtosecond Stimulated Raman Spectroscopy. *JOURNAL OF PHYSICAL CHEMISTRY LETTERS* 9: 1788-1792. <http://dx.doi.org/10.1021/acs.jpclett.8b00663>

Houadria M., Klimeš P., **Fayle T. KZO**, Gullan P. 2018. Host-plant dissections reveal contrasting distributions of Crematogaster ants and their symbionts in two myrmecophytic Macaranga species. *Ecological Entomology* 43: 601-611.
<http://dx.doi.org/10.1111/een.12633>

Hrivniak L. KZO, Sroka P., Godunko R., Palatov D., Polasek M., Manko P., Obona J. 2018. Diversity of Armenian mayflies (Ephemeroptera) with the description of a new species of the genus *Ecdyonurus* (Heptageniidae). *Zootaxa* 4500: 195-221.
<http://dx.doi.org/10.11646/zootaxa.4500.2.3>

Hrouzková E. KZO, **Šklíba J. KZO**, **Pleštilová L. KZO**, Hua L., Meheretu Y., Sillero-Zubiri C., **Šumbera R. KZO** 2018. Seismic communication in spalacids: signals in the giant root-rat and Gansu zokor. *Hystrix, the Italian Journal of Mammalogy* 29: 243-245. <http://dx.doi.org/10.4404/hystrix-00118-2018>

Hrabanova K., **Nebesářová J. UFY**, Ruzicka F., Krzyzanek V. 2018. The innovation of cryo-SEM freeze-fracturing methodology demonstrated on high pressure frozen biofilm. *Micron* 110: 28-35. <http://dx.doi.org/10.1016/j.micron.2018.04.006>

Huang J., Liu Y., **Lin Y. KZO**, Belles X., Lee H. 2018. Practical Use of RNA Interference: Oral Delivery of Double-stranded RNA in Liposome Carriers for Cockroaches. *JoVE - Journal of Visualized Experiments* neuveden: nestránkováno.
<http://dx.doi.org/10.3791/57385>

Husník F. KPA, McCutcheon J. 2018. Functional horizontal gene transfer from bacteria to eukaryotes. *Nature Review Microbiology* 16: 67-79. <http://dx.doi.org/10.1038/nrmicro.2017.137>

Chmel K. KZO, **Riegert J. KZO**, Paul L., Mulau M., **Sam K. KZO**, **Novotný V. KZO** 2018. Predation on artificial and natural nests in the lowland rainforest of Papua New Guinea. *Bird Study* 65: 114-122. <http://dx.doi.org/10.1080/00063657.2017.1420751>

Ibrahim E. KZO, Dobes P., Kunc M., Hyrsli P., **Kodrík D. KZO** 2018. Adipokinetic hormone and adenosine interfere with nematobacterial infection and locomotion in *Drosophila melanogaster*. *Journal of Insect Physiology* 107: 167-174.
<http://dx.doi.org/10.1016/j.jinsphys.2018.04.002>

Ishemgulova A., Hlavacova J., Majerova K., Butenko A., **Lukeš J. KMB**, Votypka J., Volf P., Yurchenko V. 2018. CRISPR/Cas9 in Leishmania mexicana: A case study of LmxBTN1. *PLoS One* 13: nestránkováno.
<http://dx.doi.org/10.1371/journal.pone.0192723>

Jalovecká M. KPA, Hajdusek O., Sojka D., Kopacek P., Malandrin L. 2018. The Complexity of Piroplasms Life Cycles. *Frontiers in Cellular and Infection Microbiology* 8: nestránkováno. <http://dx.doi.org/10.3389/fcimb.2018.00248>

Jalovecká M. KPA, Hartmann D. KME, Miyamoto Y., Eckmann L., Hajdusek O., O'Donoghue A., Sojka D. 2018. Validation of Babesia proteasome as a drug target. *International Journal for Parasitology: Drugs and Drug Resistance* 8: 394-402.
<http://dx.doi.org/10.1016/j.ijpddr.2018.08.001>

Janouskova E., **Berec L. UMB** 2018. Host-pathogen dynamics under sterilizing pathogens and fecundity-longevity trade-off in hosts. *Journal of Theoretical Biology* 450: 76-85. <http://dx.doi.org/10.1016/j.jtbi.2018.04.017>

Jawad L., Ibanez A., Sadighzade Z., **Näslund CAJ. KBE**, Unlu E. 2018. Scale deformity descriptions for 23 species of fish, from various geographical areas and habitats. *Marine and Freshwater Research* 69: 313-324. <http://dx.doi.org/10.1071/MF17110>

Jawad L., **Näslund CAJ. KBE, Rutkayová J. ZF/KZVE**, Nebesářová J., Beneš K., Wagnerová P., Didenko A., Park J. 2018. Catalogue of morphological scale deformities from 13 species of freshwater fish from the Kaniv Reservoir (Dnieper), Ukraine. *Marine and Freshwater Research* 69: 1569-1594. <http://dx.doi.org/10.1071/MF18018>

Jirku M., Dostal D., **Robovský J. KZO**, Salek M. 2018. Reproduction of the golden jackal (*Canis aureus*) outside current resident breeding populations in Europe: evidence from the Czech Republic. *Mammalia* 82: 592-595.
<http://dx.doi.org/10.1515/mammalia-2017-0141>

Johnsson J., **Näslund CAJ. KBE** 2018. Studying behavioural variation in salmonids from an ecological perspective: observations questions methodological considerations. *Reviews In Fish Biology And Fisheries* 28: 795-823.
<http://dx.doi.org/10.1007/s11160-018-9532-3>

Juráň J. KBO, Coute A. 2018. African Trachelomonas saccasii found in a European mesotrophic pond (Czech Republic). Implication for euglenoid biogeography and recommendations for euglenoid flagship species. *Phytotaxa* 334: 201-214.
<http://dx.doi.org/10.11646/phytotaxa.334.3.1>

Jurickova L., Pokorny P., Hosek J., Horackova J., **Květoň J. KEBR**, Zahajska P., Jansova A., Lozek V. 2018. Early postglacial recolonisation, refugial dynamics and the origin of a major biodiversity hotspot. A case study from the Mala Fatra mountains, Western Carpathians, Slovakia. *Holocene* 28: 583-594. <http://dx.doi.org/10.1177/0959683617735592>

Kaplan Z., Danihelka J., Chrték J., Prandl J., Duchacek M., **Ekrt L. KBO**, Kirschner J., Brabec J., Zazvorka J., Travnický B., Drevojan P., Sumberová K., Kocian P., Wild J., Petrik P. 2018. Distributions of vascular plants in the Czech Republic. Part 7. Preslia : časopis České botanické společnosti 90: 425-531. <http://dx.doi.org/10.23855/preslia.2018.425>

Kaplan Z., **Koutecký P. KBO**, Danihelka J., Sumberová K., Duchacek M., Stepanková J., **Ekrt L. KBO**, Grulich V., Repka R., Kubat K., Mraz P., Wild J., Bruna J. 2018. Distributions of vascular plants in the Czech Republic. Part 6. Preslia : časopis České botanické společnosti 90: 235-346. <http://dx.doi.org/10.23855/preslia.2018.235>

Kasalicky V., Zeng Y., Piwosz K., **Šimek K. KBE**, Kratochvílova H., **Koblížek M. UCH** 2018. Aerobic Anoxygenic Photosynthesis Is Commonly Present within the Genus *Limnohabitans*. *Applied and Environmental Microbiology* 84: nestránkováno.
<http://dx.doi.org/10.1128/AEM.02116-17>

Kaštovská E. KBE, Strakova P., **Edwards KR. KBE**, **Urbanová Z. KBE**, **Bárta J. KBE**, **Mastný J. KBE**, **Šantrůčková H. KBE**, **Picek T. KBE** 2018. Cotton-Grass and Blueberry have Opposite Effect on Peat Characteristics and Nutrient Transformation in Peatland. *Ecosystems* 21: 443-458. <http://dx.doi.org/10.1007/s10021-017-0159-3>

Kaur B. KMB, Valach M., Pena-Diaz P., Moreira S., Keeling P., Burger G., **Lukeš J. KMB**, **Faktorová D. KMB** 2018. Transformation of *Diplonema papillatum*, the type species of the highly diverse and abundant marine microeukaryotes Diplonemida (Euglenozoa). *Environmental Microbiology* 20: 1030-1040. <http://dx.doi.org/10.1111/1462-2920.14041>

Kaurov I. KMB, Vancová M. KPA, Schimanski B., Cadena L., Heller J., **Bílý T. UCH**, UFY, Potesil D., Eichenberger C., **Bruce H. KPA**, Oeljeklaus S., Warscheid B., Zdrahal Z., Schneider A., **Lukeš J. KMB**, Hashimi MMH. KMB 2018. The Diverged Trypanosome MICOS Complex as a Hub for Mitochondrial Cristae Shaping and Protein Import. *Current Biology* 28: 3393-3407.e5. <http://dx.doi.org/10.1016/j.cub.2018.09.008>

Kessler A., **Kulkarni SS. KMB**, Paulines M., Rubio M., Limbach P., **Paris Z. KMB**, Alfonzo J. 2018. Retrograde nuclear transport from the cytoplasm is required for tRNA(Tyr) maturation in T-brucei. *RNA Biology* 15: 528-536.
<http://dx.doi.org/10.1080/15476286.2017.1377878>

Khlyustova A., Sirotkin N., Evdokimova O., **Prysiazhnyi V. UFY**, Titov V. 2018. Efficacy of underwater AC diaphragm discharge in generation of reactive species in aqueous solutions. *Journal of Electrostatics* 96: 76-84.
<http://dx.doi.org/10.1016/j.elstat.2018.10.002>

Khoroshyy P., **Bína D. UCH**, **Gardian Z. UCH**, **Litvín R. UCH**, Alster J., Psencík J. 2018. Quenching of chlorophyll triplet states by

carotenoids in algal light-harvesting complexes related to fucoxanthin-chlorophyll protein. *Photosynthesis Research* 135: 213-225. <http://dx.doi.org/10.1007/s11120-017-0416-5>

Kilgore C., Johansen JR. KBO, Mai T., Hauer T. KBO, Casamatta D., Sheil C. 2018. Molecular characterization of Geitleria appalachiana sp. nov. (Nostocales, Cyanobacteria) and formation of Geitleriaceae fam. nov.. *Fottea* 18: 150-163. <http://dx.doi.org/10.5507/fot.2018.002>

Klecka J., Hadrava J., Biella P. KZO, Akter A. KZO 2018. Flower visitation by hoverflies (Diptera: Syrphidae) in a temperate plant-pollinator network. *PeerJ* 6: nestránkováno. <http://dx.doi.org/10.7717/peerj.6025>

Klimes P., Borovanska M., Plowman N. KZO, Leponce M. 2018. How common is trophobiosis with hoppers (Hemiptera: Auchenorrhyncha) inside ant nests (Hymenoptera: Formicidae)? Novel interactions from New Guinea and a worldwide overview. *Myrmecological News* 26: 31-45.

Kocabek T., Mishra A., Matousek J., Patzak J., Lomnická A. KGN, Khare M., Krofta K. 2018. The R2R3 transcription factor HIMYB8 and its role in flavonoid biosynthesis in hop (*Humulus lupulus L.*). *Plant Science* 269: 32-46. <http://dx.doi.org/10.1016/j.plantsci.2018.01.004>

Koncicka M., Tetkova A., Jansova D., Del Llano E., Gahurová L. KMB, Kracmarova J., Prokesova S., Masek T., Pospisek M., Bruce AW. KMB, Kubelka M., Susor A. 2018. Increased Expression of Maturation Promoting Factor Components Speeds Up Meiosis in Oocytes from Aged Females. *International Journal of Molecular Sciences* 19: nestránkováno. <http://dx.doi.org/10.3390/ijms19092841>

Konečná M. KBO, Moos M., Zahradnickova H., Simek P., Lepš J. KBO 2018. Tasty rewards for ants: differences in elaiosome and seed metabolite profiles are consistent across species and reflect taxonomic relatedness. *Oecologia* 188: 753-764. <http://dx.doi.org/10.1007/s00442-018-4254-8>

Kopáček J. KBE, Evans C., Hejzlar J., Kana J., Porcal P., Šantrůčková H. KBE 2018. Factors Affecting the Leaching of Dissolved Organic Carbon after Tree Dieback in an Unmanaged European Mountain Forest. *Environmental Science & Technology* 52: 6291-6299. <http://dx.doi.org/10.1021/acs.est.8b00478>

Kopejtka K. UCH, Tomasch J., Bunk B., Sproer C., Wagner-Doebler I., Kobližek M. UCH 2018. The complete genome sequence of Rhodobaca barguzinensis alga05 (DSM 19920) documents its adaptation for life in soda lakes. *Extremophiles* 22: 839-849. <http://dx.doi.org/10.1007/s00792-018-1041-8>

Korandová M. KZO, Krůček T. KZO, Szakosova K., Kodrík D. KZO, Kuehnlein R., Tomaskova J., Čapková Frydrychová R. KMB 2018. Chronic low-dose pro-oxidant treatment stimulates transcriptional activity of telomeric retroelements and increases telomere length in *Drosophila*. *Journal of Insect Physiology* 104: 1-8. <http://dx.doi.org/10.1016/j.jinsphys.2017.11.002>

Kornan M., Svitok M. KBE 2018. Pairwise null model analyses of temporal patterns of bird assemblages contradict the assumptions of competition theory. *Basic and Applied Ecology* 31: 72-81. <http://dx.doi.org/10.1016/j.baae.2018.07.001>

Kostanjšek F. KZO, Sebek P., Baranova B., Jelaska L., Riedl V., Čížek L. KZO 2018. Size matters! Habitat preferences of the wrinkled bark beetle, *Rhysodes sulcatus*, the relict species of European primeval forests. *Insect Conservation and Diversity* 11: 545-553. <http://dx.doi.org/10.1111/icad.12295>

Kotas P. KBE, UCH, Šantrůčková H. KBE, Elster J. CPE, Kaštovská E. KBE 2018. Soil microbial biomass, activity and community composition along altitudinal gradients in the High Arctic (Billefjorden, Svalbard). *Biogeosciences* 15: 1879-1894. <http://dx.doi.org/10.5194/bg-15-1879-2018>

Kotilínek M. KBO, Tatarenko I., Jersáková J. KBE 2018. Biological Flora of the British Isles: *Neottia cordata*. *Journal of Ecology* 106: 444-460. <http://dx.doi.org/10.1111/1365-2745.12895>

Kovacikova M., Vaskovicova N., Nebesářová J. UFY, Valigurova A. 2018. Effect of jasplakinolide and cytochalasin D on cortical elements involved in the gliding motility of the eugregarine *Gregarina garnhami* (Apicomplexa). *European Journal of Protistology* 66: 97-114. <http://dx.doi.org/10.1016/j.ejop.2018.08.006>

Kozak D., Mikolas M., Svitok M. KBE, Bace R., Paillet Y., Larrieu L., Nagel T., Begovic K., Cada V., Diku A., Frankovic M., Janda P., Kameniar O., Keren S., Kjucukov P., Labusova J., Langbehn T., Malek J., Mikac S., Morrissey R., Novakova M., Schurrman J., Svobodov K., Synek M., Teodosiu M., Toromani E., Trotsiuk V., Vitkova L., Svoboda M. 2018. Profile of tree-related microhabitats in European primary beech-dominated forests. *Forest Ecology and Management* 429: 363-374. <http://dx.doi.org/10.1016/j.foreco.2018.07.021>

Kratochvíl J. UFY, Kahoun D. UCH, Štěrba J. UCH, Langhansová H. KME, Lieskovská J. KME, Fojtikova P., Hanus J., Kousal J., Kylian O., Straňák V. UFY 2018. Plasma polymerized C:H:N:O thin films for controlled release of antibiotic substances. *Plasma Processes and Polymers* 15: nestránkováno. <http://dx.doi.org/10.1002/ppap.201700160>

Kratochvíl J. UFY, Štěrba J. UCH, Lieskovská J. KME, Langhansová H. KME, Kuzminova A., Khalakhan I., Kylian O., Straňák V. UFY 2018. Antibacterial effect of Cu/C:F nanocomposites deposited on PEEK substrates. *Materials Letters* 230: 96-99. <http://dx.doi.org/10.1016/j.matlet.2018.07.082>

Kruglikov B., Winther H., **Zalabová L. UMB** 2018. SUBMAXIMALLY SYMMETRIC ALMOST QUATERNIONIC STRUCTURES. Transformation Groups 23: 723-741. <http://dx.doi.org/10.1007/s00031-017-9453-6>

Kružík M., **Valdman J. UMB** 2018. Computational modeling of magnetic hysteresis with thermal effects. Mathematics and Computers in Simulation 145: 90-105. <http://dx.doi.org/10.1016/j.matcom.2017.03.004>

Křivan V. UMB, Galanthay T., Cressman R. 2018. Beyond replicator dynamics: From frequency to density dependent models of evolutionary games. Journal of Theoretical Biology 455: 232-248. <http://dx.doi.org/10.1016/j.jtbi.2018.07.003>

Kucera D., Pernicova I., Kovalcik A., Koller M., Mullerova L., Sedlacek P., Mravec F., **Nebesářová J. UFY**, Kalina M., Marova I., Krzyzanek V., Obruba S. 2018. Characterization of the promising poly(3-hydroxybutyrate) producing halophilic bacterium Halomonas halophila. Bioresource Technology 256: 552-556. <http://dx.doi.org/10.1016/j.biortech.2018.02.062>

Kucera L., Peska J., Fojtik P., Bartak P., Sokolovska D., Pavelka J., **Komárková V. LAPE**, Beneš J. LAPE, Polcerova L., Kralik M., Bednar P. 2018. Determination of Milk Products in Ceramic Vessels of Corded Ware Culture from a Late Eneolithic Burial. Molecules 23: nestránkováno. <http://dx.doi.org/10.3390/molecules23123247>

Kučera J. KBO, Blockeel T., Erzberger P., Papp B., Soldan Z., Vellak K., Werner O., Ros R. 2018. The Didymodon tophaceus complex (Pottiaceae, Bryophyta) revisited: new data support the subspecific rank of currently recognized species. Cryptogamie Bryologie 39: 241-257. <http://dx.doi.org/10.7872/cryb/v39.iss2.2018.241>

Kust A. KBE, Mareš J. KBO, Jokela J., Urajova P., **Hájek J. KMB**, Saurav K., Voracova K., Fewer D., Haapaniemi E., Permi P., Rehakova K., Sivonen K., **Hrouzek P. UCH** 2018. Discovery of a Pederin Family Compound in a Nonsymbiotic Bloom-Forming Cyanobacterium. ACS Chemical Biology 13: 1123-1129. <http://dx.doi.org/10.1021/acschembio.7b01048>

Kust A. KBE, Urajova P., **Hrouzek P. UCH**, Vu DL., Capkova K., **Štenclová L. KBO**, Rehakova K., Kozlikova-Zapomelova E., Lepšová-Skácelová O. KBO, Lukesova A., **Mareš J. KBO** 2018. A new microcystin producing Nostoc strain discovered in broad toxicological screening of non-planktic Nostocaceae (cyanobacteria). Toxicon 150: 66-73. <http://dx.doi.org/10.1016/j.toxicon.2018.05.007>

Kuthanová E. UCH, Belgio E., Yeates A., **Sobotka R. KMB**, Ruban A., **Kaňa R. UCH** 2018. Antenna proton sensitivity determines photosynthetic light harvesting strategy. Journal of Experimental Botany 69: 4483-4493. <http://dx.doi.org/10.1093/jxb/ery240>

Kverkova K., Belikova T., Olkowicz S., Pavelkova Z., O'Riain M., **Šumbera R. KZO**, Burda H., Bennett N., Nemec P. 2018. Sociality does not drive the evolution of large brains in eusocial African mole-rats. Scientific Reports 8: nestránkováno. <http://dx.doi.org/10.1038/s41598-018-26062-8>

Kváderová J. CPE 2018. Internal structure and photosynthetic performance of Nostoc sp. colonies in the high Arctic. Acta Societatis Botanicorum Poloniae 87: nestránkováno. <http://dx.doi.org/10.5586/asbp.3602>

Lakhal M., Ghezali D., **Nedvěd O. KZO**, Doumandji S. 2018. Checklist of ladybirds of Algeria with two new recorded species (Coleoptera, Coccinellidae). ZooKeys JUL 2018: 41-52. <http://dx.doi.org/10.3897/zookeys.774.23895>

Latombe G., Richardson D., Pysek P., **Kučera T. KBE**, Hui C. 2018. Drivers of species turnover vary with species commonness for native and alien plants with different residence times. Ecology 99: 2763-2775. <http://dx.doi.org/10.1002/ecy.2528>

Le Bagousse-Pinguet Y. KBO, Liancourt P., Gotzenberger L., **De Bello F. KBO**, Altman J., **Brožová V. CPE**, **KBO**, Chlumská Z. KBO, Dvorsky M., Capkova K., Kopecky M., Rehakova K., Riha P., **Lepš J. KBO**, **Doležal J. KBO** 2018. A multi-scale approach reveals random phylogenetic patterns at the edge of vascular plant life. Perspectives in Plant Ecology, Evolution and Systematics 30: 22-30. <http://dx.doi.org/10.1016/j.ppees.2017.10.002>

Lenart P., Bienertova-Vasku J., **Berec L. UMB** 2018. Evolution favours aging in populations with assortative mating and in sexually dimorphic populations. Scientific Reports 8: nestránkováno. <http://dx.doi.org/10.1038/s41598-018-34391-x>

Lepš J. KBO, Majeková M. KBO, Vítová A. KBO, **Doležal J. KBO**, **De Bello F. KBO** 2018. Stabilizing effects in temporal fluctuations: management, traits, and species richness in high-diversity communities. Ecology 99: 360-371. <http://dx.doi.org/10.1002/ecy.2065>

Lepšová-Skácelová O. KBO, Fibich P. KBO, Wild J., **Lepš J. KBO** 2018. Trophic gradient is the main determinant of species and large taxonomic groups representation in phytoplankton of standing water bodies. Ecological Indicators 85: 262-270. <http://dx.doi.org/10.1016/j.ecolind.2017.10.034>

Li Y., Shipley B., Price J., Dantas V., Tamme R., Westoby M., Siefert A., Schamp B., Spasojevic M., Jung V., Laughlin D., Richardson S., **Le Bagousse-Pinguet Y. KBO**, Schob C., Gazol A., Prentice H., Gross N., Overton J., Cianciaruso M., Louault F., Kamiyama C., Nakashizuka T., Hikosaka K., Sasaki T., Kataebuchi M., Dussault C., Gaucherand S., Chen N., Vandewalle M., Batalha M. 2018. Habitat filtering determines the functional niche occupancy of plant communities worldwide. Journal of Ecology 106: 1001-1009. <http://dx.doi.org/10.1111/1365-2745.12802>

Lieskovská J. KME, Páleníková J. KME, Langhansová H. KME, Chmelař J. KME, Kopecký J. KME 2018. Saliva of *Ixodes ricinus* enhances TBE virus replication in dendritic cells by modulation of pro-survival Akt pathway. Virology 514: 98-105.

<http://dx.doi.org/10.1016/j.virol.2017.11.008>

Lipson M., Cheronet O., Mallick S., Rohland N., Oxenham M., Pietruszewsky M., Pryce T., Willis A., Matsumura H., Buckley H., Domett K., Nguyen IH., Trinh OH., Kyaw A., Win T., Pradier B., Broomandkhoshbacht N., Candilio F., Changmai P., Fernandes D., Ferry M., Gamarra B., Harney E., Kampuansai J., Kutanan W., Michel M., Novak M., Oppenheimer J., Sirak K., Stewardson K., Zhang Z., **Flegontov P. KMB**, Pinhasi R., Reich D. 2018. Ancient genomes document multiple waves of migration in Southeast Asian prehistory. *Science* 361: 92-95. <http://dx.doi.org/10.1126/science.aat3188>

Litavsky J., Stasiov S., **Svitok M. KBE**, Michalkova E., Majzlan O., Zarnovican H., Fedor P. 2018. Epigean communities of harvestmen (Opiliones) in Pannonian Basin floodplain forests: an interaction with environmental parameters. *Biologia* 73: 753-763. <http://dx.doi.org/10.2478/s11756-018-0084-8>

Loiola P., **De Bello F. KBO**, Chytry M., Gotzenberger L., **Perez Carmona C. KBO**, Pysek P., Lososova Z. 2018. Invaders among locals: Alien species decrease phylogenetic and functional diversity while increasing dissimilarity among native community members. *Journal of Ecology* 106: 2230-2241. <http://dx.doi.org/10.1111/1365-2745.12986>

Luka V. KZO, Riegert J. KZO 2018. Apodemus mice as the main prey that determines reproductive output of tawny owl (*Strix aluco*) in Central Europe. *Population Ecology* 60: 237-249. <http://dx.doi.org/10.1007/s10144-018-0611-z>

Lukeš J. KMB, Butenko A., **Hashimi MMH. KMB**, Maslov D., Votypka J., Yurchenko V. 2018. Trypanosomatids Are Much More than Just Trypanosomes: Clues from the Expanded Family Tree. *Trends in Parasitology* 34: 466-480. <http://dx.doi.org/10.1016/j.pt.2018.03.002>

Lukeš J. KMB, Wheeler R., Jirsova D., David V., Archibald J. 2018. Massive mitochondrial DNA content in diplomonadid and kinetoplastid protists. *IUBMB Life* 70: 1267-1274. <http://dx.doi.org/10.1002/iub.1894>

Lutz J., Furniss T., Johnson D., Davies S., Allen D., Alonso A., Anderson-Teixeira K., Andrade A., Baltzer J., Becker K., Blomdahl E., Bourg N., Bunyavejchewin S., Burslem D., Cansler C., Cao K., Cao M., Cardenas D., Chang L., Chao K., Chao W., Chiang J., Chu C., Chuyong G., Clay K., Condit R., Cordell S., Dattaraja H., Duque A., Ewango C., Fischer G., Fletcher C., Freund J., Giardina C., Germain S., Gilbert G., Hao Z., Hart T., Hau B., He F., Hector A., Howe R., Hsieh C., Hu Y., Hubbell S., Inman-Narahari F., Itoh A., Janik D., Kassim A., Kenfack D., Korte L., Kral K., Larson A., Li Y., Lin Y., Liu S., Lum S., Ma K., Makana J., Malhi Y., McMahon S., McShea W., Memiaghe H., Mi X., Morecroft M., Musili P., Myers J., **Novotný V. KZO**, de Oliveira A., Ong P., Orwig D., Ostertag R., Parker G., Patankar R., Phillips R., Reynolds G., Sack L., Song G., Su S., Sukumar R., Sun I., Suresh H., Swanson M., Tan S., Thomas D., Thompson J., Uriarte M., Valencia R., Vicentini A., Vraska T., Wang X., Weiblen G., Wolf A., Wu S., Xu H., Yamakura T., Yap S., Zimmerman J. 2018. Global importance of large-diameter trees. *Global Ecology and Biogeography* 27: 849-864. <http://dx.doi.org/10.1111/geb.12747>

Macek P. CPE, Schob C., Nunez-Avila M., Hernandez Gentina I., Pugnaire F., Armesto J. 2018. Shrub facilitation drives tree establishment in a semiarid fog-dependent ecosystem. *Applied Vegetation Science* 21: 113-120. <http://dx.doi.org/10.1111/avsc.12301>

Macek P. CPE, Schob C., Pugnaire F., Nunez-Avila M., Armesto J. 2018. Shrubs mediate forest start-up and patch dynamics in a semiarid landscape. *Perspectives in Plant Ecology, Evolution and Systematics* 34: 140-149. <http://dx.doi.org/10.1016/j.ppees.2018.09.002>

Mácová A. KPA, Hoblíková A. KPA, Hypša V. KPA, Stanko M., Martinů J. KPA, Kvičerová J. KPA 2018. Mysteries of host switching: Diversification and host specificity in rodent-coccidia associations. *Molecular Phylogenetics and Evolution* 127: 179-189. <http://dx.doi.org/10.1016/j.ympev.2018.05.009>

Mai T., **Johansen J. KBO**, Pietrasik N., Bohunicka M., Martin M. 2018. Revision of the Synechococcales (Cyanobacteria) through recognition of four families including Oculatellaceae fam. nov. and Trichocoleaceae fam. nov. and six new genera containing 14 species. *Phytotaxa* 365: 1-59. <http://dx.doi.org/10.11646/phytotaxa.365.1.1>

Maicher V. KZO, Sáfián S. KZO, Murkwe M., Przybylowicz L., Janecek S., Fokam E., Pyrcz T., Tropek R. 2018. Flying between raindrops: Strong seasonal turnover of several Lepidoptera groups in lowland rainforests of Mount Cameroon. *Ecology and Evolution* 8: 12761-12772. <http://dx.doi.org/10.1002/ece3.4704>

Malewski S., Malkemper E., **Sedláček F. KZO, Šumbera R. KZO**, Caspar K., Burda H., Begall S. 2018. Attracted by a magnet: Exploration behaviour of rodents in the presence of magnetic objects. *Behavioural processes* 151: 11-15. <http://dx.doi.org/10.1016/j.beproc.2018.02.023>

Malicek J., Palice Z., Acton A., Berger F., Bouda F., Sanderson N., **Vondrák J. KBO** 2018. Uholka primeval forest in the Ukrainian Carpathians - a keynote area for diversity of forest lichens in Europe. *Herzogia* 31: 140-171. <http://dx.doi.org/10.13158/099.031.0110>

Malicek J., Palice Z., **Vondrák J. KBO**, Lubek A., Kukwa M. 2018. Bacidia albogranulosa (Ramalinaceae, lichenized Ascomycota), a new sorediate lichen from European old-growth forests. *MycoKeys DEC* 2018: 51-62. <http://dx.doi.org/10.3897/mycokeys.44.30199>

Malicek J., Palice Z., **Vondrák J. KBO** 2018. Additions and corrections to the lichen biota of the Czech Republic. *Herzogia* 31:

453-475. <http://dx.doi.org/10.13158/heia.31.1.2018.453>

Maliniemi T., Kapfer J., **Saccone P. CPE**, Skog A., Virtanen R. 2018. Long-term vegetation changes of treeless heath communities in northern Fennoscandia: Links to climate change trends and reindeer grazing. *Journal of Vegetation Science* 29: 469-479. <http://dx.doi.org/10.1111/jvs.12630>

Manuel Peralta-Sanchez J., Manuel Martin-Platero A., Wegener-Parfrey L., Martinez-Bueno M., **Rodriguez Ruano SM. KPA**, Navas-Molina J., Vazquez-Baeza Y., Martin-Galvez D., Martin-Vivaldi M., Diego Ibanez-Alamo J., Knight R., Jose Soler J. 2018. Bacterial density rather than diversity correlates with hatching success across different avian species. *FEMS Microbiology Ecology* 94: nestránkováno. <http://dx.doi.org/10.1093/femsec/fiy022>

Manukjanová A. KBO, **Košnar J. KBO**, **Kučera J. KBO** 2018. Microsatellite primers for the cryptic species of the moss *Hamatocaulis vernicosus* and methods for their quick barcoding. *Journal of Bryology* 40: 302-305.
<http://dx.doi.org/10.1080/03736687.2018.1450199>

Manzoni S., Capek P., Porada P., Thurner M., Winterdahl M., Beer C., Bruchert V., Frouz J., Herrmann A., Lindahl B., Lyon S., **Šantrúcková H. KBE**, Vico G., Way D. 2018. Reviews and syntheses: Carbon use efficiency from organisms to ecosystems - definitions, theories, and empirical evidence. *Biogeosciences* 15: 5929-5949. <http://dx.doi.org/10.5194/bg-15-5929-2018>

Mareš J. KBO 2018. Multilocus and SSU rRNA gene phylogenetic analyses of available cyanobacterial genomes, and their relation to the current taxonomic system. *Hydrobiologia* 811: 19-34. <http://dx.doi.org/10.1007/s10750-017-3373-2>

Martello F., **De Bello F. KBO**, de Castro Morini M., Silva R., de Souza-Campana D., Ribeiro M., Carmona C. 2018. Homogenization and impoverishment of taxonomic and functional diversity of ants in Eucalyptus plantations. *Scientific Reports* 8: nestránkováno. <http://dx.doi.org/10.1038/s41598-018-20823-1>

Martinet B., Brasero N., Lecocq T., **Biella P. KZO**, Valterova I., Michez D., Rasmont P. 2018. Adding attractive semio-chemical trait refines the taxonomy of Alpinobombus (Hymenoptera: Apidae). *Apidologie* 49: 838-851.
<http://dx.doi.org/10.1007/s13592-018-0611-1>

Martinet B., Lecocq T., Brasero N., **Biella P. KZO**, Urbanova K., Valterova I., Cornalba M., Gjershaug J., Michez D., Rasmont P. 2018. Following the cold: geographical differentiation between interglacial refugia and speciation in the arcto-alpine species complex Bombus monticola (Hymenoptera: Apidae). *Systematic Entomology* 43: 200-217.
<http://dx.doi.org/10.1111/syen.12268>

Martinů J. KPA, **Hypša V. KPA**, **Štefka J. KMB** 2018. Host specificity driving genetic structure and diversity in ectoparasite populations: Coevolutionary patterns in *Apodemus* mice and their lice. *Ecology and Evolution* 8: 10008-10022.
<http://dx.doi.org/10.1002/ece3.4424>

Másílková M. KZO, Weiss A., **Konečná M. KZO** 2018. How long does it take? Reliable personality assessment based on common behaviour in cotton-top tamarins (*Saguinus oedipus*). *Behavioural processes* 157: 59-67.
<http://dx.doi.org/10.1016/j.beproc.2018.08.009>

Mastný J. KBE, **Kaštovská E. KBE**, **Bárta J. KBE**, Chronakova A., Borovec J., **Šantrúcková H. KBE**, **Urbanová Z. KBE**, **Edwards KR. KBE**, **Picek T. KBE** 2018. Quality of DOC produced during litter decomposition of peatland plant dominants. *Soil Biology & Biochemistry* 121: 221-230. <http://dx.doi.org/10.1016/j.soilbio.2018.03.018>

Matos Maravi PF. KZO, Clouse R., Sarnat E., Economo E., LaPolla J., Borovanska M., Rabeling C., Czekanski-Moir J., Latumahina F., Wilson E., Janda M. 2018. An ant genus-group (Prenolepis) illuminates the biogeography and drivers of insect diversification in the Indo-Pacific. *Molecular Phylogenetics and Evolution* 123: 16-25.
<http://dx.doi.org/10.1016/j.ympev.2018.02.007>

Matos Maravi PF. KZO, Matzke N., Larabee F., Clouse R., Wheeler W., Sorger D., Suarez A., Janda M. 2018. Taxon cycle predictions supported by model-based inference in Indo-Pacific trap-jaw ants (Hymenoptera: Formicidae: Odontomachus). *Molecular Ecology* 27: 4090-4107. <http://dx.doi.org/10.1111/mec.14835>

Matouskova M., **Bílý T. UFY**, Brunanska M., Mackiewicz J., **Nebesářová J. UFY** 2018. Ultrastructural, cytochemistry and electron tomography analysis of *Caryophyllaeides fennica* (Schneider, 1902) (Cestoda: Lytocestidae) reveals novel spermatology characteristics in the Eucestoda. *Parasitology Research* 117: 3091-3102. <http://dx.doi.org/10.1007/s00436-018-6001-9>

Mazoch V. KZO, Mikula O., Bryja J., Konvickova H., Russo I., Verheyen E., **Šumbera R. KZO** 2018. Phylogeography of a widespread sub-Saharan murid rodent *Aethomys chrysophilus*: the role of geographic barriers and paleoclimate in the Zambezian bioregion. *Mammalia* 82: 373-387. <http://dx.doi.org/10.1515/mammalia-2017-0001>

McLaughlin J., Nakariakov V., Dominique M., **Jelínek P. UFY**, Takasao S. 2018. Modelling Quasi-Periodic Pulsations in Solar and Stellar Flares. *Space Science Reviews* 214: nestránkováno. <http://dx.doi.org/10.1007/s11214-018-0478-5>

McQuaid J., Kustka A., **Oborník M. KMB**, **Horák A. KMB**, McCrow J., Karas B., Zheng H., Kindeberg T., Andersson A., Barbeau K., Allen A. 2018. Carbonate-sensitive phytotransferrin controls high-affinity iron uptake in diatoms. *Nature* 555: 534-+.
<http://dx.doi.org/10.1038/nature25982>

Mertens J., Tropek R., Dzekashu F., **Maicher V. KZO**, Fokam E., Janecek S. 2018. Communities of flower visitors of *Uvularia dioica* (Annonaceae) in lowland forests of Mt. Cameroon, with notes on its potential pollinators. African Journal of Ecology 56: 146-152. <http://dx.doi.org/10.1111/aje.12429>

Miklin J., Sebek P., Hauck D., Konvicka O., **Čížek L. KZO** 2018. Past levels of canopy closure affect the occurrence of veteran trees and flagship saproxylic beetles. Diversity and Distributions 24: 208-218. <http://dx.doi.org/10.1111/ddi.12670>

Mocq J. KBE, Hare L. 2018. Influence of Acid Mine Drainage, and Its Remediation, on Lakewater Quality and Benthic Invertebrate Communities. Water Air and Soil Pollution 229: nestránkováno. <http://dx.doi.org/10.1007/s11270-017-3671-3>

Mocq J. KBE, St-Hilaire A., Cunjak R. 2018. Do habitat measurements in the vicinity of Atlantic salmon (*Salmo salar*) parr matter?. Fisheries Management and Ecology 25: 22-30. <http://dx.doi.org/10.1111/fme.12262>

Mochanová M. KZO, Tomcala A., Svobodová Z., **Kodrik D. KZO** 2018. Role of adipokinetic hormone during starvation in *Drosophila*. Comparative Biochemistry and Physiology B - Biochemistry & Molecular Biology 226: 26-35. <http://dx.doi.org/10.1016/j.cbpb.2018.08.004>

Moodley Y., Russo I., **Robovský J. KZO**, Dalton D., Kotze A., Smith S., Stejskal J., Ryder O., Hermes R., Walzer C., Bruford M. 2018. Contrasting evolutionary history, anthropogenic declines and genetic contact in the northern and southern white rhinoceros (*Ceratotherium simum*). Proceedings of the Royal Society of London Series B - Biological Sciences 285: nestránkováno. <http://dx.doi.org/10.1098/rspb.2018.1567>

Mrázová A. KZO, Sam K. KZO 2018. Application of methyl jasmonate to grey willow (*Salix cinerea*) attracts insectivorous birds in nature. Arthropod-Plant Interactions 12: 1-8. <http://dx.doi.org/10.1007/s11829-017-9558-9>

Mudrak O., Fajmon K., Jongepierova I., **Prach K. KBO** 2018. Mass effects, clonality, and phenology but not seed traits predict species success in colonizing restored grasslands. Restoration Ecology 26: 489-496. <http://dx.doi.org/10.1111/rec.12588>

Mühlsteinová R. KBO, Hauer T. KBO, De Ley P., Pietrasik N. 2018. Seeking the true Oscillatoria: a quest for a reliable phylogenetic and taxonomic reference point. Preslia : časopis České botanické společnosti 90: 151-169. <http://dx.doi.org/10.23855/preslia.2018.151>

Müllerová J. CPE, Elsterová J. CPE, Cerny J., **Ditrich O. KPA**, Zarsky J., Culler L., Kampen H., Walther D., Coulson S., Ružek D., **Grubhoffer L. KPA** 2018. No indication of arthropod-vectored viruses in mosquitoes (Diptera: Culicidae) collected on Greenland and Svalbard. Polar Biology 41: 1581-1586. <http://dx.doi.org/10.1007/s00300-017-2242-9>

Munoz-Pajares A., Perfectti F., Loureiro J., Abdelaziz M., **Biella P. KZO**, Castro M., Castro S., Gomez J. 2018. Niche differences may explain the geographic distribution of cytotypes in *Erysimum mediohispanicum*. Plant Biology 20: 139-147. <http://dx.doi.org/10.1111/plb.12605>

Murawski K., Kayshap P., Srivastava A., Pascoe D., **Jelínek P. UFY**, Kuzma B., Fedun V. 2018. Magnetic swirls and associated fast magnetoacoustic kink waves in a solar chromospheric flux tube. Monthly Notices of the Royal Astronomical Society 474: 77-87. <http://dx.doi.org/10.1093/mnras/stx2763>

Muška M. KZO, Tuser M., Frouzova J., **Mrkvíčka T. EF/KMI**, Ricard D., Seda J., Morelli F., Kubecka J. 2018. Real-time distribution of pelagic fish: combining hydroacoustics, GIS and spatial modelling at a fine spatial scale. Scientific Reports 8: nestránkováno. <http://dx.doi.org/10.1038/s41598-018-23762-z>

Nácarová J. KZO, **Veselý P. KZO**, Bugnyar T. 2018. Ravens adjust their antipredatory responses to con- and hetero-specific alarms to the perceived threat. Ethology 124: 609-616. <http://dx.doi.org/10.1111/eth.12764>

Nácarová J. KZO, **Veselý P. KZO**, Fuchs R. KZO 2018. Effect of the exploratory behaviour on a bird's ability to categorize a predator. Behavioural processes 151: 89-95. <http://dx.doi.org/10.1016/j.beproc.2018.03.021>

Näslund CAJ. KBE, Wengstrom N., Wahlqvist F., Aldven D., Zavorka L., Hojesjo J. 2018. Behavioral type, in interaction with body size, affects the recapture rate of brown trout *Salmo trutta* juveniles in their nursery stream. Integrative Zoology 13: 604-611. <http://dx.doi.org/10.1111/1749-4877.12323>

Nejman L., Lisa L., Dolakova N., Horacek I., Bajer A., **Novák J. LAPE**, Wright D., Sullivan M., Wood R., Gargett R., Pacher M., Sazlova S., Fisakova M., Rohovec J., Kralik M. 2018. Cave deposits as a sedimentary trap for the Marine Isotope Stage 3 environmental record: The case study of Pod Hradem, Czech Republic. Palaeogeography, Palaeoclimatology, Palaeoecology 497: 201-217. <http://dx.doi.org/10.1016/j.palaeo.2018.02.020>

Nieto-Lugilde M., Werner O., McDaniel S., **Koutecký P. KBO**, **Kučera J. KBO**, Rizk S., Ros R. 2018. Peripatric speciation associated with genome expansion and female-biased sex ratios in the moss genus *Ceratodon*. American Journal of Botany 105: 1009-1020. <http://dx.doi.org/10.1002/ajb2.1107>

Nisler J., Zatloukal M., **Sobotka R. KMB**, Pilny J., Zdvihalova B., Novak O., Strnad M., Spichal L. 2018. New Urea Derivatives Are Effective Anti-senescence Compounds Acting Most Likely via a Cytokinin-Independent Mechanism. Frontiers in Plant Science 9: nestránkováno. <http://dx.doi.org/10.3389/fpls.2018.01225>

Novák J. LAPE, Abraham V. LAPE, Houfková P. LAPE, Kočár P. LAPE, Vanecek Z., Peska J. 2018. History of the Litovelske Pomoravi woodland (NE Czech Republic): A comparison of archaeo-anthracological, pedoanthracological, and pollen data. Quaternary International 463: 352-362. <http://dx.doi.org/10.1016/j.quaint.2016.11.020>

Oborník M. KMB 2018. The Birth of Red Complex Plastids: One, Three, or Four Times?. Trends in Parasitology 34: 923-925. <http://dx.doi.org/10.1016/j.pt.2018.09.001>

Orivel J., Klimeš P. KZO, Novotný V. KZO, Leponce M. 2018. Resource use and food preferences in understory ant communities along a complete elevational gradient in Papua New Guinea. Biotropica 50: 641-648. <http://dx.doi.org/10.1111/btp.12539>

Oros M., Uhrovic D., Scholz T. KPA 2018. A NEW CLASSIFICATION OF GLARIDACRIS COOPER, 1920 (CESTODA: CARYOPHYLLIDEA), PARASITES OF SUCKERS (CATOSTOMIDAE) IN NORTH AMERICA, INCLUDING ERECTION OF PSEUDOGLARIDACRIS N. GEN.. Journal of Parasitology 104: 60-69. <http://dx.doi.org/10.1645/17-58>

Oulehle F., Tahovská K. KBE, Chuman T., Evans C., Hruska J., Ruzek M., Bártá J. KBE 2018. Comparison of the impacts of acid and nitrogen additions on carbon fluxes in European conifer and broadleaf forests. Environmental Pollution 238: 884-893. <http://dx.doi.org/10.1016/j.envpol.2018.03.081>

Ozcan E., Keşan G. UFY, Topaloglu B., Ecik E., Dere A., Yakuphanoglu F., Cosut B. 2018. Synthesis, photophysical, DFT and photodiode properties of subphthalocyanine-BODIPY dyads. New Journal of Chemistry 42: 4972-4980. <http://dx.doi.org/10.1039/c7nj04568a>

Pajoro M., Pistone D. KPA, Boccazzì I., Merighetti V., Bandi C., Fabbi M., Scattorin F., Sassera D., Montagna M. 2018. Molecular screening for bacterial pathogens in ticks (*Ixodes ricinus*) collected on migratory birds captured in northern Italy. Folia Parasitologica 65: nestránkováno. <http://dx.doi.org/10.14411/fp.2018.008>

Palice Z., Malicek J., Peksa O., Vondrák J. KBO 2018. New remarkable records and range extensions in the central European lichen biota. Herzogia 31: 518-534. <http://dx.doi.org/10.13158/heia.31.1.2018.518>

Pang Y., Lu Y., Caisová V. KME, Liu Y., Bullova P., Huynh TT., Zhou Y., Yu D., Frysak Z., Hartmann I., Taieb D., Pacak K., Yang C. 2018. Targeting NAD(+)/PARP DNA Repair Pathway as a Novel Therapeutic Approach to SDHB-Mutated Cluster I Pheochromocytoma and Paraganglioma. Clinical Cancer Research 24: 3423-3432. <http://dx.doi.org/10.1158/1078-0432.CCR-17-3406>

Parimuchova A., Sustr V., Devetter M. CPE, Vosta O., Popa I., Kovac L. 2018. The activity of saccharolytic enzymes in Collembola is associated with species affinity for caves. International Journal of Speleology 47: 155-163. <http://dx.doi.org/10.5038/1827-806X.47.2.2150>

Paris Z. KMB, Alfonzo J. 2018. How the intracellular partitioning of tRNA and tRNA modification enzymes affects mitochondrial function. IUBMB Life 70: 1207-1213. <http://dx.doi.org/10.1002/iub.1957>

Partensky F., Mella-Flores D., Six C., Garczarek L., Czjzek M., Marie D., Kotabova E., Felcmanová K. KEBR, Prášil O. UCH 2018. Comparison of photosynthetic performances of marine picocyanobacteria with different configurations of the oxygen-evolving complex. Photosynthesis Research 138: 57-71. <http://dx.doi.org/10.1007/s11120-018-0539-3>

Pastrav I., Ionica A., Pestean C., Nováková E. KPA, Modry D., Mihalca A. 2018. Peripheral venous vs. capillary microfilariae in a dog co-infected with *Dirofilaria repens* and *D-immitis*: A comparative approach using triatomine bugs for blood collection. Veterinary Parasitology 257: 54-57. <http://dx.doi.org/10.1016/j.vetpar.2018.05.017>

Patra S. KPA, Bartosova-Sojkova P., Peckova H., Fiala I. KPA, Eszterbauer E., Holzer AS. KPA 2018. Biodiversity and host-parasite cophylogeny of Sphaerospora (sensu stricto) (Cnidaria: Myxozoa). Parasites & Vectors 11: nestránkováno. <http://dx.doi.org/10.1186/s13071-018-2863-z>

Pavelková V. KZO, Horsak M., Hais M. KBE, Robovský J. KZO, Chytry M. 2018. Environmental correlates of the Late Quaternary regional extinctions of large and small Palaearctic mammals. Ecography 41: 516-527. <http://dx.doi.org/10.1111/ecog.02851>

Pavliska P., Riegert J. KZO, Grill S. KBE, Salek M. 2018. The effect of landscape heterogeneity on population density and habitat preferences of the European hare (*Lepus europaeus*) in contrasting farmlands. Mammalian Biology 88: 8-15. <http://dx.doi.org/10.1016/j.mambio.2017.11.003>

Pena-Diaz P., Lukeš J. KMB 2018. Fe-S cluster assembly in the supergroup Excavata. Journal of Biological Inorganic Chemistry 23: 521-541. <http://dx.doi.org/10.1007/s00775-018-1556-6>

Pena-Diaz P., Mach J., Kriegova E., Poliak P. KMB, Tachezy J., Lukeš J. KMB 2018. Trypanosomal mitochondrial intermediate peptidase does not behave as a classical mitochondrial processing peptidase. PLoS One 13: nestránkováno. <http://dx.doi.org/10.1371/journal.pone.0196474>

Perez-Miranda F., Mejia O., Soto-Galera E., Espinosa-Perez H., Piálek L. KZO, Říčan O. KZO 2018. Phylogeny and species diversity of the genus Herichthys (Teleostei: Cichlidae). Journal of Zoological Systematics and Evolutionary Research 56: 223-247. <http://dx.doi.org/10.1111/jzs.12197>

Perner J. KMB, Kotál J. KMB, Hatalová T. KMB, Urbanova V., Bartosova-Sojkova P., Brophy P., Kopacek P. 2018. Inducible glutathione S-transferase (IrGST1) from the tick *Ixodes ricinus* is a haem-binding protein. Insect Biochemistry and Molecular Biology 95: 44-54. <http://dx.doi.org/10.1016/j.ibmb.2018.02.002>

Peterka T., Hajek M., Dite D., Hajkova P., Palpurina S., Goia I., Grulich V., Kalnikova V., Pleskova Z., Simova A., Štechová T. KBO 2018. Relict occurrences of boreal brown-moss quaking rich fens in the Carpathians and adjacent territories. Folia Geobotanica 53: 265-276. <http://dx.doi.org/10.1007/s12224-018-9318-3>

Petkov B., Vitale V., Svendby T., Hansen G., Sobolewski P., Laska K., Elster J. CPE, Pavlova K., Viola A., Mazzola M., Lupi A., Solomatnikova A. 2018. Altitude-temporal behaviour of atmospheric ozone, temperature and wind velocity observed at Svalbard. Atmospheric Research 207: 100-110. <http://dx.doi.org/10.1016/j.atmosres.2018.03.005>

Petrash D., Jan J., Sirová D. KBE, Osafu NOA. KBE, Borovec J. KBE 2018. Iron and nitrogen cycling, bacterioplankton community composition and mineral transformations involving phosphorus stabilisation in the ferruginous hypolimnion of a post-mining lake. Environmental Science: Processes & Impacts 20: 1414-1426. <http://dx.doi.org/10.1039/c8em00328a>

Petrzela J., Šumbera R. KZO, Aghova T., Bryjova A., Katakweba A., Sabuni C., Chitaukali W., Bryja J. 2018. Spiny mice of the Zambezian bioregion - phylogeny, biogeography and ecological differentiation within the *Acomys spinosissimus* complex. Mammalian Biology 91: 79-90. <http://dx.doi.org/10.1016/j.mambio.2018.03.012>

Piston N., Michalet R., Schob C., Macek P. CPE, Armas C., Pugnaire F. 2018. The balance of canopy and soil effects determines intraspecific differences in foundation species' effects on associated plants. Functional Ecology 32: 2253-2263. <http://dx.doi.org/10.1111/1365-2435.13139>

Piwosz K., Shabarova T., Tomasch J., Šimek K., Kopejtka K. UCH, Kahl S., Pieper D., Koblížek M. UCH 2018. Determining lineage-specific bacterial growth curves with a novel approach based on amplicon reads normalization using internal standard (ARNIS). ISM E Journal 12: 2640-2654. <http://dx.doi.org/10.1038/s41396-018-0213-y>

Plavcova L., Hronková M. KEBR, Simkova M., Květoň J. KEBR, Vráblová M. KEBR, Kubásek J. KEBR, Šantrůček J. KEBR 2018. Seasonal variation of delta O-18 and delta H-2 in leaf water of *Fagus sylvatica* L. and related water compartments. Journal of Plant Physiology 227: 56-65. <http://dx.doi.org/10.1016/j.jplph.2018.03.009>

Pokorna A., Kocar P., Novák J. LAPE, Šálková T. LAPE, Zackova P., Komárková V. LAPE, Vanecek Z., Sadlo J. 2018. Ancient and Early Medieval man-made habitats in the Czech Republic: colonization history and vegetation changes. Preslia : časopis České botanické společnosti 90: 171-193. <http://dx.doi.org/10.23855/preslia.2018.171>

Polasek M., Godunko R., Rutschmann S., Svitok M. KBE, Novikmec M., Zahradkova S. 2018. Integrative taxonomy of genus *Electrogena* (Ephemeroptera: Heptageniidae): the role of innovative morphological analyses for species delimitation. Arthropod Systematics & Phylogeny 76: 449-462.

Pomajblíková K. KME, Jirku M., Levá J. KME, Sobotkova K., Morien E., Parfrey L. 2018. The benign helminth *Hymenolepis diminuta* ameliorates chemically induced colitis in a rat model system. Parasitology 145: 1324-1335. <http://dx.doi.org/10.1017/S0031182018000896>

Poniewozik M., Juráň J. KBO 2018. Extremely high diversity of euglenophytes in a small pond in eastern Poland. Plant Ecology and Evolution 151: 18-34. <http://dx.doi.org/10.5091/plecevo.2018.1308>

Porcal P. KBE, Kopáček J. KBE 2018. Photochemical degradation of dissolved organic matter reduces the availability of phosphorus for aquatic primary producers. Chemosphere 193: 1018-1026. <http://dx.doi.org/10.1016/j.chemosphere.2017.11.140>

Potocky P., Bartoňová A. KZO, Benes J., Zapletal M., Konvička M. KZO 2018. Life-history traits of Central European moths: gradients of variation and their association with rarity and threats. Insect Conservation and Diversity 11: 493-505. <http://dx.doi.org/10.1111/icad.12291>

Pozgayova M., Piálková R. KZO, Honza M., Prochazka P. 2018. Sex-specific nestling growth in an obligate brood parasite: Common Cuckoo males grow larger than females. Auk 135: 1033-1042. <http://dx.doi.org/10.1642/AUK-18-26.1>

Prandl J., Koutecký P. KBO, Travnicek P., Jarolimova V., Lučanová M. KBO, Koutecká E. KBO, Kaplan Z. 2018. Cytotype variation, cryptic diversity and hybridization in *Ranunculus* sect. Batrachium revealed by flow cytometry and chromosome numbers. Preslia : časopis České botanické společnosti 90: 195-223. <http://dx.doi.org/10.23855/preslia.2018.195>

Proctor M., Chidgey J., Shukla MK. UCH, Jackson P., Sobotka R. KMB, Hunter C., Hitchcock A. 2018. Plant and algal chlorophyll synthases function in *Synechocystis* and interact with the YidC/Alb3 membrane insertase. FEBS Letters 592: 3062-3073. <http://dx.doi.org/10.1002/1873-3468.13222>

Prochazka J., Čížek L. KZO, Schlaghmersky J. 2018. Vertical stratification of scolytine beetles in temperate forests. Insect Conservation and Diversity 11: 534-544. <http://dx.doi.org/10.1111/icad.12301>

Procházková M. KMB, Panicucci B., Zíková A. KMB 2018. Cultured bloodstream *Trypanosoma brucei* adapt to life without mitochondrial translation release factor 1. Scientific Reports 8: nestránkováno. <http://dx.doi.org/10.1038/s41598-018-00380-w>

Prochazkova T., Sychrova E., Vecerkova J., Javurkova B., Otoupalikova A., Pernica M., Simek Z., Smutna M., **Lepšová-Skácelová O. KBO**, Hilscherova K. 2018. Estrogenic activity and contributing compounds in stagnant water bodies with massive occurrence of phytoplankton. Water Research 136: 12-21. <http://dx.doi.org/10.1016/j.watres.2018.02.040>

Pushkareva E. CPE, Pessi I., Namsaraev Z., Mano M., **Elster J. CPE**, Wilmotte A. 2018. Cyanobacteria inhabiting biological soil crusts of a polar desert: Sor Rondane Mountains, Antarctica. Systematic and Applied Microbiology 41: 363-373. <http://dx.doi.org/10.1016/j.syapm.2018.01.006>

Puy J. KBO, **Dvořáková H. KBO**, **Perez Carmona C. KBO**, **De Bello F. KBO**, Hiiesalu I., Latzel V. 2018. Improved demethylation in ecological epigenetic experiments: Testing a simple and harmless foliar demethylation application. Methods in Ecology and Evolution 9: 744-753. <http://dx.doi.org/10.1111/2041-210X.12903>

Raschmanova N., Sustr V., Kovac L., Parimuchova A., **Devetter M. CPE** 2018. Testing the climatic variability hypothesis in edaphic and subterranean Collembola (Hexapoda). Journal of Thermal Biology 78: 391-400. <http://dx.doi.org/10.1016/j.jtherbio.2018.11.004>

Redmond C. KZO, Stout J. 2018. Breeding system and pollination ecology of a potentially invasive alien Clematis vitalba L. in Ireland. Journal of Plant Ecology 11: 56-63. <http://dx.doi.org/10.1093/jpe/rtw137>

Rejmankova E., Sirova D., Castle S., **Bárta J. KBE**, Carpenter H. 2018. Heterotrophic N-2-fixation contributes to nitrogen economy of a common wetland sedge, Schoenoplectus californicus. PLoS One 13: nestránkováno. <http://dx.doi.org/10.1371/journal.pone.0195570>

Repin S., **Valdman J. UMB** 2018. Error identities for variational problems with obstacles. ZAMM-Zeitschrift fur Angewandte Mathematik und Mechanik 98: 635-658. <http://dx.doi.org/10.1002/zamm.201700105>

Revilla T., **Křivan V. UMB** 2018. Competition, trait-mediated facilitation, and the structure of plant-pollinator communities. Journal of Theoretical Biology 440: 42-57. <http://dx.doi.org/10.1016/j.jtbi.2017.12.019>

Riegert J. KZO, **Jůzlová Z. KZO** 2018. Vocal mimicry in the song of Icterine warblers (Hippolais icterina): possible functions and sources of variability. Ethology Ecology & Evolution 30: 430-446. <http://dx.doi.org/10.1080/03949370.2017.1412356>

Rodriguez Ruano SM. KPA, Martin-Vivaldi M., Peralta-Sanchez J., Garcia-Martin A., Martinez-Garcia A., Soler J., Valdivia E., Martinez-Bueno M. 2018. Seasonal and Sexual Differences in the Microbiota of the Hoopoe Uropygial Secretion. Genes 9: nestránkováno. <http://dx.doi.org/10.3390/genes9080407>

Rodriguez Ruano SM. KPA, **Škochová V. KME**, Rego R., Schmidt J., Roachell W., **Hypša V. KPA**, **Nováková E. KPA** 2018. Microbiomes of North American Triatominae: The Grounds for Chagas Disease Epidemiology. Frontiers in Microbiology 9: nestránkováno. <http://dx.doi.org/10.3389/fmicb.2018.01167>

Rottenborn J., **Vítovcová K. KBO**, **Prach K. KBO** 2018. Interannual dynamics of a rare vegetation on emerged river gravels with special attention to the critically endangered species Corrigiola litoralis L. Folia Geobotanica 53: 213-225. <http://dx.doi.org/10.1007/s12224-018-9316-5>

Roumbedakis K., Drabkova M., **Tymí T. KPA**, di Cristo C. 2018. A Perspective Around Cephalopods and Their Parasites, and Suggestions on How to Increase Knowledge in the Field. Frontiers in Physiology 9: nestránkováno. <http://dx.doi.org/10.3389/fphys.2018.01573>

Rukavina I., **Kostanjšek F. KZO**, Jelaska S., Pirnat A., Jelaska L. 2018. Distribution and habitat suitability of two rare saproxylic beetles in Croatia - a piece of puzzle missing for South-Eastern Europe. iForest-Biogeosciences and Forestry 11: 765-774. <http://dx.doi.org/10.3832/ifor2753-011>

Ruzkova J., Kvetonova D., Jirku M., Lhotska Z., Stensvold C., Parfrey L., **Pomajblíková K. KME** 2018. Evaluating rodent experimental models for studies of Blastocystis ST1. Experimental Parasitology 191: 55-61. <http://dx.doi.org/10.1016/j.exppara.2018.06.009>

Řehounková K. KBO, **Lencová K. KBO**, **Prach K. KBO** 2018. Spontaneous establishment of woodland during succession in a variety of central European disturbed sites. Ecological Engineering 111: 94-99. <http://dx.doi.org/10.1016/j.ecoleng.2017.11.016>

Saber A., **Mareš J. KBO**, Guella G., Anesi A., **Štenclová L. KBO**, Cantonati M. 2018. Polyphasic approach to a characteristic Ulva population from a limno-rheocrenic, mineral (chloride, sodium, sulphate) spring in the Siwa Oasis (Western Desert of Egypt). Fottea 18: 227-242. <http://dx.doi.org/10.5507/fot.2018.008>

Sabuni C., Aghova T., Bryjova A., **Šumbera R. KZO**, Bryja J. 2018. Biogeographic implications of small mammals from Northern Highlands in Tanzania with first data from the volcanic Mount Kitumbeine. Mammalia 82: 360-372. <http://dx.doi.org/10.1515/mammalia-2017-0069>

Sajdlová Z. KBE, Frouzova J., Drastik V., Juza T., Peterka J., Prchalova M., Riha M., Vasek M., Kubecka J., Cech M. 2018. Are diel

vertical migrations of European perch (*Perca fluviatilis* L.) early juveniles under direct control of light intensity? Evidence from a large field experiment. *Freshwater Biology* 63: 473-482. <http://dx.doi.org/10.1111/fwb.13085>

Salek M., **Bažant M. KZO**, Zmihorski M. 2018. Active farmsteads are year-round strongholds for farmland birds. *Journal of Applied Ecology* 55: 1908-1918. <http://dx.doi.org/10.1111/1365-2664.13093>

Samonil P., Moravcova A., Pokorny P., Zackova P., Kaspar J., Vasickova I., Danek P., **Novák J. LAPE**, Hajkova P., Adam D., Leuschner H. 2018. The disturbance regime of an Early Holocene swamp forest in the Czech Republic, as revealed by dendroecological, pollen and macrofossil data. *Palaeogeography, Palaeoclimatology, Palaeoecology* 507: 81-96. <http://dx.doi.org/10.1016/j.palaeo.2018.07.001>

Segar S. KZO, Mardiastuti A., Wheeler P., Cook J. 2018. Detecting the elusive cost of parasites on fig seed production. *Acta Oecologica* 90: 69-74. <http://dx.doi.org/10.1016/j.actao.2018.03.002>

Seidi K., Jahanban-Esfahlan R., Monhemi H., Zare P., **Minofar B. UFY**, Adli A., Farajzadeh D., Behzadi R., Abbasi M., Neubauer H., Moriggl R., Zarghami N., Javaheri T. 2018. NGR (Asn-Gly-Arg)-targeted delivery of coagulase to tumor vasculature arrests cancer cell growth. *Oncogene* 37: 3967-3980. <http://dx.doi.org/10.1038/s41388-018-0213-4>

Sentis A. KBE, **Boukal D. KBE** 2018. On the use of functional responses to quantify emergent multiple predator effects. *Scientific Reports* 8: nestránkováno. <http://dx.doi.org/10.1038/s41598-018-30244-9>

Sfair J., **De Bello F. KBO**, de Franca T., Baldauf C., Tabarelli M. 2018. Chronic human disturbance affects plant trait distribution in a seasonally dry tropical forest. *Environmental Research Letters* 13: nestránkováno. <http://dx.doi.org/10.1088/1748-9326/aa9f5e>

Shalygin S., Pietrasik N., Gomez F., Mlewska C., Gerard E., **Johansen JR. KBO** 2018. Rivularia halophila sp nov (Nostocales, Cyanobacteria): the first species of Rivularia described with the modern polyphasic approach. *European Journal of Phycology* 53: 537-548. <http://dx.doi.org/10.1080/09670262.2018.1479887>

Sharaf A., **Oborník M. KMB**, Hammad A., El-Afifi S., Marei E. 2018. Characterization and comparative genomic analysis of virulent and temperate *Bacillus* megaterium bacteriophages. *PeerJ* 6: nestránkováno. <http://dx.doi.org/10.7717/peerj.5687>

Shefferson R., Kull T., Hutchings M., Selosse M., Jacquemyn H., Kellett K., Menges E., Primack R., Tuomi J., Alahuhta K., Hurskainen S., Alexander H., Anderson D., Brys R., Brzosko E., Dostalik S., Gregg K., **Ipser Z. KBE**, Jakalaniemi A., **Jersáková J. KBE**, Kettle W., McCormick M., Mendoza A., Miller M., Moen A., Oien D., Puttsepp U., Roy M., Sather N., Sletvold N., Stipkova Z., Tali K., Warren R., Whigham D. 2018. Drivers of vegetative dormancy across herbaceous perennial plant species. *Ecology Letters* 21: 724-733. <http://dx.doi.org/10.1111/ele.12940>

Shukla MK. UCH, Llansola-Portoles M., Tichy M., Pascal A., Robert B., **Sobotka R. KMB** 2018. Binding of pigments to the cyanobacterial high-light-inducible protein HliC. *Photosynthesis Research* 137: 29-39. <http://dx.doi.org/10.1007/s11120-017-0475-7>

Schaeffner B., **Ditrich O. CPE**, Kuchta R. 2018. A century of taxonomic uncertainty: re-description of two species of tapeworms (Diphyllobothriidea) from Arctic seals. *Polar Biology* 41: 2543-2559. <http://dx.doi.org/10.1007/s00300-018-2396-0>

Scholz T., Tavakol S., **Uhrová L. KPA**, Brabec J., Prikrylova I., Masova S., Simkova A., Halajian A., Luus-Powell W. 2018. An annotated list and molecular data on larvae of gryporhynchid tapeworms (Cestoda: Cyclophyllidae) from freshwater fishes in Africa. *Systematic Parasitology* 95: 567-590. <http://dx.doi.org/10.1007/s11230-018-9796-y>

Schwarz D., Schoenenwald A., Doerrstein J., **Štěrba J. UCH**, Kahoun D. **UCH**, Fojtikova P., **Vilímek J. UCH**, Schieder D., Zollfrank C., Sieber V. 2018. Biosynthesis of poly-3-hydroxybutyrate from grass silage by a two-stage fermentation process based on an integrated biorefinery concept. *Bioresource Technology* 269: 237-245.

<http://dx.doi.org/10.1016/j.biortech.2018.08.064>

Schwelm A., Badstoeber J., Bulman S., Desoignies N., Etemadi M., Falloon R., Gachon C., Legreve A., **Lukeš J. KMB**, Merz U., **Nenarokova A. KMB**, Strittmatter M., Sullivan B., Neuhauser S. 2018. Not in your usual Top 10: protists that infect plants and algae. *Molecular Plant Pathology* 19: 1029-1044. <http://dx.doi.org/10.1111/mpp.12580>

Schwelm J., Soldanova M., **Vyhlídalová T. KPA**, Sures B., Selbach C. 2018. Small but diverse: larval trematode communities in the small freshwater planorbids *Gyraulus albus* and *Segmentina nitida* (Gastropoda: Pulmonata) from the Ruhr River, Germany. *Parasitology Research* 117: 241-255. <http://dx.doi.org/10.1007/s00436-017-5699-0>

Silva F., Kostygov A., Spodareva V., Butenko A., Tossou R., **Lukeš J. KMB**, Yurchenko V., Alves J. 2018. The reduced genome of *Candidatus Kinetoplastibacterium sorsogonicusi*, the endosymbiont of *Kentomonas sorsogonicus* (Trypanosomatidae): loss of the haem-synthesis pathway. *Parasitology* 145: 1287-1293. <http://dx.doi.org/10.1017/S003118201800046X>

Sinha D., Bialevich V., Shamayeva K., Guzanova A., Sisakova A., Csefalvay E., **Řeha D. UCH**, Krejci L., Carey J., Weiserova M., Ettrich R. 2018. A residue of motif III positions the helicase domains of motor subunit HsdR in restriction-modification enzyme EcoR124I. *Journal of Molecular Modeling* 24: nestránkováno. <http://dx.doi.org/10.1007/s00894-018-3722-8>

Sirmarova J., Salat J., Palus M., Honig V., **Langhansová H. KME**, Holbrook M., Ruzeke D. 2018. Kyasanur Forest disease virus infection activates human vascular endothelial cells and monocyte-derived dendritic cells. *Emerging Microbes & Infections* 7: nestránkováno. <http://dx.doi.org/10.1038/s41426-018-0177-z>

Sirová D. KBE, Bárta J. KBE, Šimek K. KBE, Posch T., **Pech J. UAI**, Stone J., Borovec J., Adamec L., **Vrba J. KBE** 2018. Hunters or farmers? Microbiome characteristics help elucidate the diet composition in an aquatic carnivorous plant. *Microbiome* 6: nestránkováno. <http://dx.doi.org/10.1186/s40168-018-0600-7>

Skotnicová P. KMB, Sobotka R. KMB, Shepherd M., **Hájek J. KMB, Hrouzek P. UCH, Tichý M. UCH** 2018. The cyanobacterial protoporphyrinogen oxidase HemJ is a new b-type heme protein functionally coupled with coproporphyrinogen III oxidase. *Journal of Biological Chemistry* 293: 12394-12404. <http://dx.doi.org/10.1074/jbc.RA118.003441>

Smietana M., Sobaszek M., Michalak B., Niedzialkowski P., Bialobrzeska W., Koba M., **Sezemský P. UFY, Straňák V. UFY**, Karczewski J., Ossowski T., Bogdanowicz R. 2018. Optical Monitoring of Electrochemical Processes With ITO-Based Lossy-Mode Resonance Optical Fiber Sensor Applied as an Electrode. *Journal of Lightwave Technology* 36: 954-960. <http://dx.doi.org/10.1109/JLT.2018.2797083>

Smykla J., Porazinska D., Iakovenko N., **Devetter M. CPE**, Drewnik M., Hii Y., Emslie S. 2018. Geochemical and biotic factors influencing the diversity and distribution of soil microfauna across ice-free coastal habitats in Victoria Land, Antarctica. *Soil Biology & Biochemistry* 116: 265-276. <http://dx.doi.org/10.1016/j.soilbio.2017.10.628>

Sochuliakova L., Sienkiewicz E., Hamerlik L., **Svitok M. KBE**, Fidlerova D., Bitusik P. 2018. Reconstructing the Trophic History of an Alpine Lake (High Tatra Mts.) Using Subfossil Diatoms: Disentangling the Effects of Climate and Human Influence. *Water Air and Soil Pollution* 229: nestránkováno. <http://dx.doi.org/10.1007/s11270-018-3940-9>

Somodi I., Vadkerti A., **Těšitel J. KBO** 2018. Thesium linophyllum parasitizes and suppresses expansive Calamagrostis epigejos. *Plant Biology* 20: 759-764. <http://dx.doi.org/10.1111/plb.12723>

Souto Vilarós D. KZO, Proffit M., Buatois B., **Rindoš M. KZO**, Sisol M., Kuyaiva T., Isua B., **Michálek J. KMB**, Darwell C., Hossaert-McKey M., Weiblen G., **Novotný V. KZO, Segar ST. KZO** 2018. Pollination along an elevational gradient mediated both by floral scent and pollinator compatibility in the fig and fig-wasp mutualism. *Journal of Ecology* 106: 2256-2273. <http://dx.doi.org/10.1111/1365-2745.12995>

Souto Vilarós D. KZO, Vuleta A., Jovanovic S., Budecevic S., Wang H., Sapir Y., Imbert E. 2018. Are pollinators the agents of selection on flower colour and size in irises?. *Oikos* 127: 834-846. <http://dx.doi.org/10.1111/oik.04501>

Spinka M., **Syrová M. KZO**, Policht R., Linhart P. 2018. Individual stability in vocalization rates of preweaning piglets. *Journal of Animal Science* 96: 11-16. <http://dx.doi.org/10.1093/jas/skx014>

Spodareva V., Grybchuk-Ieremenko A., Losev A., Votypka J., **Lukeš J. KMB**, Yurchenko V., Kostygov A. 2018. Diversity and evolution of anuran trypanosomes: insights from the study of European species. *Parasites & Vectors* 11: nestránkováno. <http://dx.doi.org/10.1186/s13071-018-3023-1>

Sreekar R., Katabuchi M., Nakamura A., Corlett R., Slik J., Fletcher C., He F., Weiblen G., Shen G., Xu H., Sun I., Cao K., Ma K., Chang L., Cao M., Jiang M., Gunatilleke I., Ong P., Yap S., Gunatilleke C., **Novotný V. KZO**, Brockelman W., Xiang W., Mi X., Li X., Wang X., Qiao X., Li Y., Tan S., Condit R., Harrison R., Koh L. 2018. Spatial scale changes the relationship between beta diversity, species richness and latitude. *Royal Society Open Science* 5: nestránkováno. <http://dx.doi.org/10.1098/rsos.181168>

Srivastava A., Murawski K., Kuzma B., Wojcik D., Zaqrashvili T., Stangalini M., Musielak Z., Doyle J., **Kayshap PK. UFY**, Dwivedi B. 2018. Confined pseudo-shocks as an energy source for the active solar corona. *Nature Astronomy* 2: 951-956. <http://dx.doi.org/10.1038/s41550-018-0590-1>

Staleva - Musto HA. UFY, Kuznetsova V. UFY, West RG. UFY, Keşan G. UFY, Minofar B., Fuciman M. UFY, Bína D. UCH, Litvín R. UCH, Polívka T. UFY 2018. Nonconjugated Acyloxy Group Deactivates the Intramolecular Charge-Transfer State in the Carotenoid Fucoxanthin. *Journal of Physical Chemistry B* 122: 2922-2930. <http://dx.doi.org/10.1021/acs.jpcb.8b00743>

Stefanik M., Formanova P., **Bílý T. UCH, UFY, Vancová M. KPA**, Eyer L., Palus M., Salat J., Braconi C., Zanotto P., Gould E., Ruzek D. 2018. Characterisation of Zika virus infection in primary human astrocytes. *BMC Neuroscience* 19: nestránkováno. <http://dx.doi.org/10.1186/s12868-018-0407-2>

Stella D., Fric Z., **Rindoš M. KZO**, Kleisner K., Pechacek P. 2018. Distribution of Ultraviolet Ornaments in Colias Butterflies (Lepidoptera: Pieridae). *Environmental Entomology* 47: 1344-1354. <http://dx.doi.org/10.1093/ee/nvy111>

Straňák V. UFY, Bogdanowicz R., **Sezemský P. UFY**, Wulff H., Kruth A., Smietana M., **Kratochvíl J. UFY**, Cada M., Hubicka Z. 2018. Towards high quality ITO coatings: The impact of nitrogen admixture in HiPIMS discharges. *Surface and Coatings Technology* 335: 126-133. <http://dx.doi.org/10.1016/j.surfcoat.2017.12.030>

Straňák V. UFY, Hubicka Z., Cada M., Bogdanowicz R., Wulff H., Helm C., Hippler R. 2018. Influence of reactive oxygen species during deposition of iron oxide films by high power impulse magnetron sputtering. *Journal of Physics D: Applied Physics* 51: nestránkováno. <http://dx.doi.org/10.1088/1361-6463/aaa9e6>

Streckaitė S., **Gardian Z. UCH**, Li F., Pascal A., **Litvín R. UCH**, Robert B., Llansola-Portoles M. 2018. Pigment configuration in the light-harvesting protein of the xanthophyte alga *Xanthonema debile*. *Photosynthesis Research* 138: 139-148. <http://dx.doi.org/10.1007/s11120-018-0557-1>

Strnadová I., **Němec M. KZO**, Strnad M., **Veselý P. KZO**, **Fuchs R. KZO** 2018. The nest defence by the red-backed shrike *Lanius collurio* - support for the vulnerability hypothesis. *Journal of Avian Biology* 49: nestránkováno. <http://dx.doi.org/10.1111/jav.01726>

Světlíková P. KBO, **Hájek T. KEBR**, **Těšitel J. KBO** 2018. A hemiparasite in the forest understorey: photosynthetic performance and carbon balance of *Melampyrum pratense*. *Plant Biology* 20: 50-58. <http://dx.doi.org/10.1111/plb.12638>

Světlíková P. KBO, **Hájek T. KEBR**, **Těšitel J. KBO** 2018. Water-stress physiology of *Rhinanthus alectorolophus*, a root-hemiparasitic plant. *PLoS One* 13: nestránkováno. <http://dx.doi.org/10.1371/journal.pone.0200927>

Svitok M. KBE, Novikmec M., Hamerlík L., Kochjarová J., Otáheľová H., Paťove-Balang P., Senko D., Matúšová Z., Bubíková K., Hrvnák R. 2018. Test of the efficiency of environmental surrogates for the conservation prioritization of ponds based on macrophytes. *Ecological Indicators* 95: 606-614. <http://dx.doi.org/10.1016/j.ecolind.2018.08.006>

Svoboda J., Pokorný P., Horacek I., Sazelova S., Abraham V., **Divišová M. LAPE**, Ivanov M., Kozakova R., Novak J., Novak M., Sida P., Perri A. 2018. Late Glacial and Holocene sequences in rockshelters and adjacent wetlands of Northern Bohemia, Czech Republic: Correlation of environmental and archaeological records. *Quaternary International* 465: 234-250. <http://dx.doi.org/10.1016/j.quaint.2017.05.009>

Svobodova Z., Habustova O., Holec J., Holec M., **Boháč J. ZF/KSPR**, Jursik M., Soukup J., **Sehnal F. KZO** 2018. Split application of glyphosate in herbicide-tolerant maize provides efficient weed control and favors beneficial epigaeic arthropods. *Agriculture Ecosystems and Environment* 251: 171-179. <http://dx.doi.org/10.1016/j.agee.2017.09.018>

Šantrůčková H. KBE, **Kotas P. KBE**, **Bárta J. KBE**, Urich T., **Čapek P. KBE**, Palmtag J., Alves R., Biasi C., **Diáková K. KBE**, Gentsch N., Gittel A., Guggenberger G., Hugelius G., Lashchinsky N., Martikainen P., Mikutta R., Schleper C., Schnecker J., Schwab C., Shibalova O., Wild B., Richter A. 2018. Significance of dark CO₂ fixation in arctic soils. *Soil Biology & Biochemistry* 119: 11-21. <http://dx.doi.org/10.1016/j.soilbio.2017.12.021>

Šebela D. UFY, Quinones C., Cruz C., Ona I., Olejnickova J., Jagadish K. 2018. Chlorophyll Fluorescence and Reflectance-Based Non-Invasive Quantification of Blast, Bacterial Blight and Drought Stresses in Rice. *Plant and Cell Physiology* 59: 30-43. <http://dx.doi.org/10.1093/pcp/pcx144>

Šimek K. KBE, **Grujčić V. KBE**, Hahn M., Hornak K., Jezberova J., Kasalicky V., Nedoma J., Salcher M., Shabarova T. 2018. Bacterial prey food characteristics modulate community growth response of freshwater bacterivorous flagellates. *Limnology and Oceanography* 63: 484-502. <http://dx.doi.org/10.1002/limo.10759>

Šlouf V. UFY, **Kešan G. UFY**, **Litvín R. UCH**, Swainsbury D., Martin E., Hunter C., **Polívka T. UFY** 2018. Carotenoid to bacteriochlorophyll energy transfer in the RC-LH1-PufX complex from Rhodobacter sphaeroides containing the extended conjugation keto-carotenoid diketospirilloxanthin. *Photosynthesis Research* 135: 33-43. <http://dx.doi.org/10.1007/s11120-017-0397-4>

Šmejkal M. KBE, Ricard D., Sajdlova Z., Cech M., Vejrik L., Blabolil P., Vejrikova I., Prchalova M., Vasek M., Souza A., Bronmark C., Peterka J. 2018. Can species-specific prey responses to chemical cues explain prey susceptibility to predation?. *Ecology and Evolution* 8: 4544-4551. <http://dx.doi.org/10.1002/ece3.4000>

Štětina T. KZO, **Hůla P. KZO**, Moos M., Simek P., **Šmilauer P. KBE**, **Koštál V. KZO** 2018. Recovery from supercooling, freezing, and cryopreservation stress in larvae of the drosophilid fly, *Chymomyza costata*. *Scientific Reports* 8: nestránkováno. <http://dx.doi.org/10.1038/s41598-018-22757-0>

Šumbera R. KZO, **Krásová J. KZO**, Lavrenchenko L., Mengistu S., Bekele A., Mikula O., Bryja J. 2018. Ethiopian highlands as a cradle of the African fossorial root-rats (genus *Tachyoryctes*), the genetic evidence. *Molecular Phylogenetics and Evolution* 126: 105-115. <http://dx.doi.org/10.1016/j.ympev.2018.04.003>

Tahovská K. KBE, **Čapek P. KBE**, **Šantrůčková H. KBE**, Kopacek J. 2018. In situ phosphorus dynamics in soil: long-term ion-exchange resin study. *Biogeochemistry* 139: 307-320. <http://dx.doi.org/10.1007/s10533-018-0470-x>

Takeshita T., **Ivanov I. KEBR**, Oshima K., Ishii K., Kawamoto H., Ota S., Yamazaki T., Hirata A., Kazama Y., Abe T., Hattori M., Bisova K., Zachleder V., Kawano S. 2018. Comparison of lipid productivity of *Parachlorella kessleri* heavy-ion beam irradiation mutant PK4 in laboratory and 150-L mass bioreactor, identification and characterization of its genetic variation. *Algal Research-Biomass Biofuels and Bioproducts* 35: 416-426. <http://dx.doi.org/10.1016/j.algal.2018.09.005>

Tashyreva D., Prokopchuk G., Votypka J., Yabuki A., **Horák A. KMB**, **Lukeš J. KMB** 2018. Life Cycle, Ultrastructure, and Phylogeny of New Diplonemids and Their Endosymbiotic Bacteria. *mBio* 9: nestránkováno. <http://dx.doi.org/10.1128/mBio.02447-17>

Tashyreva D., Prokopchuk G., Yabuki A., **Kaur B. KMB**, **Faktorová D. KMB**, Votypka J., Kusaka C., Fujikura K., Shiratori T., Ishida

K., Horák A. KMB, Lukeš J. KMB 2018. Phylogeny and Morphology of New Diplonemids from Japan. *Protist* 169: 158-179. <http://dx.doi.org/10.1026/j.protis.2018.02.001>

ter Braak C., Šmilauer P. KBE, Dray S. 2018. Algorithms and biplots for double constrained correspondence analysis. *Environmental and Ecological Statistics* 25: 171-197. <http://dx.doi.org/10.1007/s10651-017-03095-x>

Těšitel J. KBO, Mládek J. KBO, Fajmon K., Blažek P. KBO, Mudrak O. 2018. Reversing expansion of *Calamagrostis epigejos* in a grassland biodiversity hotspot: Hemiparasitic *Rhinanthus major* does a better job than increased mowing intensity. *Applied Vegetation Science* 21: 104-112. <http://dx.doi.org/10.1111/avsc.12339>

Těšitel J. KBO, Vratislavská M., Novák P., Chorney I., Roleček J. 2018. Merging of *Pedicularis exaltata* and *P-hacquetii* in the Carpathians: from local history to regional phylogeography based on complex evidence. *Folia Geobotanica* 53: 301-315. <http://dx.doi.org/10.1007/s12224-018-9317-4>

Theuer M., Berec L. UMB 2018. Impacts of infection avoidance for populations affected by sexually transmitted infections. *Journal of Theoretical Biology* 455: 64-74. <http://dx.doi.org/10.1016/j.jtbi.2018.06.030>

Thyrhaug E., Tempelaar R., Alcocer M., Zidek K., Bína D. UCH, Knoester J., Jansen T., Zigmantas D. 2018. Identification and characterization of diverse coherences in the Fenna-Matthews-Olson complex. *Nature Chemistry* 10: 780-786. <http://dx.doi.org/10.1038/s41557-018-0060-5>

Tonini M., Pena-Diaz P., Haindrich ACh. KMB, Basu S., Kriegova E., Pierik A., Lill R., MacNeill S., Smith T., Lukeš J. KMB 2018. Branched late-steps of the cytosolic iron-sulphur cluster assembly machinery of *Trypanosoma brucei*. *PLoS Pathogens* 14: nestránkováno. <http://dx.doi.org/10.1371/journal.ppat.1007326>

Travnický B., Lepší M. KBO, Lepsi P., Zila V. 2018. Taxonomy of *Rubus* ser. *Radula* in the Czech Republic. *Preslia : časopis České botanické společnosti* 90: 387-424. <http://dx.doi.org/10.23855/preslia.2018.387>

Tučková V. KZO, Sarová R., Bartošová J., King S., Pluháček J. 2018. Overmarking by adult females in four equid species: social bonds and group cohesion. *Journal of Zoology* 306: 180-188. <http://dx.doi.org/10.1111/jzo.12578>

Tymí T. CPE, Dykova I. 2018. *Sappinia* sp (Amoebozoa: Thecamoebida) and *Rosculus* sp (SAR: Cercozoa) Isolated From King Penguin Guano Collected in the Subantarctic (South Georgia, Salisbury Plain) and their Coexistence in Culture. *Journal of Eukaryotic Microbiology* 65: 544-555. <http://dx.doi.org/10.1111/jeu.12500>

Tymí T. CPE, Lisnerová M. KPA, Kostka M. KPA, Dykova I. 2018. Current view on phylogeny within the genus *Flabellula* Schaeffer, 1926 (Amoebozoa: Leptomyxida). *European Journal of Protistology* 64: 40-53. <http://dx.doi.org/10.1016/j.ejop.2018.03.005>

Urbanová V., Hajdusek O., Sima R., Franta Z. UCH, Honig-Mondekova H., Grunclová L., Bartošová-Sojková P., Jalovecká M., Kopáček P. 2018. IrC2/Bf - A yeast and Borrelia responsive component of the complement system from the hard tick *Ixodes ricinus*. *Developmental and Comparative Immunology* 79: 86-94. <http://dx.doi.org/10.1016/j.dci.2017.10.012>

Urbanová Z. KBE, Straková P., Kaštovská E. KBE 2018. Response of peat biogeochemistry and soil organic matter quality to rewetting in bogs and spruce swamp forests. *European Journal of Soil Biology* 85: 12-22. <http://dx.doi.org/10.1016/j.ejsobi.2017.12.004>

Urlacher S., Liebert M., Konečná M. KZO 2018. Global variation in diurnal cortisol rhythms: evidence from Garisakang forager-horticulturalists of lowland Papua New Guinea. *Stress - The International Journal on the Biology of Stress* 21: 101-109. <http://dx.doi.org/10.1080/10253890.2017.1414798>

Ustjuzhanin P., Kovtunovich V., Sáfián S. KZO, Maicher V. KZO, Tropek R. KZO 2018. A newly discovered biodiversity hotspot of manyplumed moths in the Mount Cameroon area: first report on species diversity, with description of nine new species (Lepidoptera, Alucitidae). *ZooKeys JUL* 2018: 119-139. <http://dx.doi.org/10.3897/zookeys.777.24729>

Valencia Gomez E. KBO, Gross N., Quero J., Carmona C., Ochoa V., Gozalo B., Delgado-Baquerizo M., Dumack K., Hamonts K., Singh B., Bonkowski M., Maestre F. 2018. Cascading effects from plants to soil microorganisms explain how plant species richness and simulated climate change affect soil multifunctionality. *Global Change Biology* 24: 5642-5654. <http://dx.doi.org/10.1111/gcb.14440>

Vašutová M. KBO, Edwards-Jonasová M., Veselá P., Effenberkova L., Fleischer P., Cudlin P. 2018. Management regime is the most important factor influencing ectomycorrhizal species community in Norway spruce forests after windthrow. *Mycorrhiza* 28: 221-233. <http://dx.doi.org/10.1007/s00572-018-0820-5>

Vávra J. KPA, Fiala I. KPA, Krylova P., Petrusek A., Hyliš M. 2018. Molecular and structural assessment of microsporidia infecting daphniids: The "obtusa-like" microsporidia, a branch of the monophyletic Agglomeratidae Glade, with the establishment of a new genus *Conglomerata*. *Journal of Invertebrate Pathology* 159: 95-104. <http://dx.doi.org/10.1016/j.jip.2018.10.003>

Vazač J. KMB, Fuessy Z., Hladová I. KMB, Killi S. KMB, Oborník M. KMB 2018. Ploidy and Number of Chromosomes in the Alveolate Alga *Chromera velia*. *Protist* 169: 53-63. <http://dx.doi.org/10.1016/j.protis.2017.12.001>

Vazquez-Martinez J., Manuel Gutierrez-Villagomez J., Fonseca-Garcia C., Ramirez-Chavez E., Lourdes Mondragon-Sanchez M., Partida-Martinez L., Johansen JR. KBO, Molina-Torres J. 2018. Nodosilinea chupicuarensis sp nov. (Leptolyngbyaceae, Synechococcales) a subaerial cyanobacterium isolated from a stone monument in central Mexico. *Phytotaxa* 334: 167-182. <http://dx.doi.org/10.11646/phytotaxa.334.2.6>

Vebrová L. KBE, van Nieuwenhuijzen A., **Kolář V. KBE**, **Boukal D. KBE** 2018. Seasonality and weather conditions jointly drive flight activity patterns of aquatic and terrestrial chironomids. *BMC Ecology* 18: nestránkováno. <http://dx.doi.org/10.1186/s12898-018-0175-y>

Věchtová P. KMB, **Štěrbová J. KMB**, **KPA**, **Štěrba J. UCH**, **Vancová M. KPA**, **Rego ROM. KPA**, **Selinger M. KMB**, **Strnad M. KPA**, Golovchenko M., Rudenko N., **Grubhoffer L. KPA** 2018. A bite so sweet: the glycobiology interface of tick-host-pathogen interactions. *Parasites & Vectors* 11: nestránkováno. <http://dx.doi.org/10.1186/s13071-018-3062-7>

Vejříková I. KBE, Vejrik L., **Lepš J. KBO**, Kocvara L., Sajdlova Z., Ctvrtlikova M., Peterka J. 2018. Impact of herbivory and competition on lake ecosystem structure: underwater experimental manipulation. *Scientific Reports* 8: nestránkováno. <http://dx.doi.org/10.1038/s41598-018-30598-0>

Venuleo M., **Prášil O. UCH**, Giordano M. 2018. Life at elevated CO₂ modifies the cell composition of *Chromera velia* (Chromerida). *European Journal of Phycology* 53: 58-66. <http://dx.doi.org/10.1080/09670262.2017.1376255>

Vician V., **Svitok M. KBE**, Michalkova E., Lukacik I., Stasiov S. 2018. Influence of tree species and soil properties on ground beetle (Coleoptera: Carabidae) communities. *Acta Oecologica* 91: 120-126. <http://dx.doi.org/10.1016/j.actao.2018.07.005>

Vincent J., Turner B., Alok C., **Novotný V. KZO**, Weiblen G., Whitfeld T. 2018. Tropical forest dynamics in unstable terrain: a case study from New Guinea. *Journal of Tropical Ecology* 34: 157-175. <http://dx.doi.org/10.1017/S0266467418000123>

Vogt-Schilb H. KBE, Moreau P., Malaval J., Schatz B., Richard F. 2018. Effects of long-term landscape dynamics and city growth on biodiversity in the Mediterranean: the case study of Montpellier, France. *Urban Ecosystems* 21: 921-932. <http://dx.doi.org/10.1007/s11252-018-0780-8>

Volf M. KZO, **Segar ST. KZO**, Miller S., Isua B., Sisol M., Aubona G., Simek P., Moos M., Laitila J., Kim J., Zima J., Rota J., Weiblen G., Wossa S., Salminen J., **Basset YF. KZO**, **Novotný V. KZO** 2018. Community structure of insect herbivores is driven by conservatism, escalation and divergence of defensive traits in *Ficus*. *Ecology Letters* 21: 83-92. <http://dx.doi.org/10.1111/ele.12875>

Volf M., Holec M., Holcova D., Jaros P., Hejda R., Drag L., Blizek J., Sebek P., **Čížek L. KZO** 2018. Microhabitat mosaics are key to the survival of an endangered ground beetle (*Carabus nitens*) in its post-industrial refugia. *Journal of Insect Conservation* 22: 321-328. <http://dx.doi.org/10.1007/s10841-018-0064-x>

Vondrák J. KBO, Malicek J., Palice Z., Bouda F., Berger F., Sanderson N., Acton A., Pouska V., Kish R. 2018. Exploiting hot-spots; effective determination of lichen diversity in a Carpathian virgin forest. *PLoS One* 13: nestránkováno. <http://dx.doi.org/10.1371/journal.pone.0203540>

Vondrák J. KBO, Shahidin H., Moniri M., Halici G., **Košnar J. KBO** 2018. Taxonomic and functional diversity in Calogaya (lichenised Ascomycota) in dry continental Asia. *Mycological Progress* 17: 897-916. <http://dx.doi.org/10.1007/s11557-018-1402-9>

Vrablova M., **Hronková M. KEBR**, Vrabl D., **Kubásek J. KEBR**, **Šantrůček J. KEBR** 2018. Light intensity-regulated stomatal development in three generations of *Lepidium sativum*. *Environmental and Experimental Botany* 156: 316-324. <http://dx.doi.org/10.1016/j.envexpbot.2018.09.012>

Vrba J. KBE, Macholdova M., Nedbalova L., Nedoma J., **Šorf M. KBE** 2018. An Experimental Insight into Extracellular Phosphatases - Differential Induction of Cell-Specific Activity in Green Algae Cultured under Various Phosphorus Conditions. *Frontiers in Microbiology* 9: nestránkováno. <http://dx.doi.org/10.3389/fmicb.2018.00271>

Wardhaugh C. KZO, Stone M., Stork N. 2018. Seasonal variation in a diverse beetle assemblage along two elevational gradients in the Australian Wet Tropics. *Scientific Reports* 8: nestránkováno. <http://dx.doi.org/10.1038/s41598-018-26216-8>

West RG. UFY, **Bína D. UCH**, **Fuciman M. UFY**, **Kuznetsova V. UFY**, **Litvín R. UCH**, **Polívka T. UFY** 2018. Ultrafast multi-pulse transient absorption spectroscopy of fucoxanthin chlorophyll a protein from *Phaeodactylum tricornutum*. *Biochimica et Biophysica Acta - Bioenergetics* 1859: 357-365. <http://dx.doi.org/10.1016/j.bbabi.2018.02.011>

West RG. UFY, **Fuciman M. UFY**, **Staleva - Musto HA. UFY**, **Šebelík V. UFY**, **Bína D. UCH**, **Durchan M. UFY**, **Kuznetsova V. UFY**, **Polívka T. UFY** 2018. Equilibration Dependence of Fucoxanthin S-1 and ICT Signatures on Polarity, Proticity, and Temperature by Multipulse Femtosecond Absorption Spectroscopy. *Journal of Physical Chemistry B* 122: 7264-7276. <http://dx.doi.org/10.1021/acs.jpcb.8b04217>

Wiedenova P., **Šumbera R. KZO**, **Okrouhlík J. KZO** 2018. Social thermoregulation and socio-physiological effect in the subterranean Mashona mole-rat (*Fukomys darlingi*). *Journal of Thermal Biology* 78: 367-373.

<http://dx.doi.org/10.1016/j.jtherbio.2018.10.020>

Wild B., Alves R., **Bárta J. KBE, Čapek P. KBE**, Gentsch N., Guggenberger G., Hugelius G., Knoltsch A., Kuhry P., Lashchinskiy N., Mikutta R., Palmtag J., Prommer J., Schnecker J., Shibliova O., Takriti M., Urich T., Richter A. 2018. Amino acid production exceeds plant nitrogen demand in Siberian tundra. Environmental Research Letters 13: nestránkováno.

<http://dx.doi.org/10.1088/1748-9326/aaa4fa>

Wu P., Lin Y. **KZO**, Wu T., Lee S., Wu C., Chang Y., Wu Y. 2018. MicroRNAs derived from the insect virus HzNV-1 promote lytic infection by suppressing histone methylation. Scientific Reports 8: nestránkováno. <http://dx.doi.org/10.1038/s41598-018-35782-w>

Xin M., Shaliutina-Kolešová A., **Štěrba J. UCH, Koník P. UCH**, Boryshpolets S., Rodina M., Li P., Nian R., Linhart O. 2018. Impact of cryopreservation on sterlet, *Acipenser ruthenus* sperm motility and proteome. Animal Reproduction Science 192: 280-289. <http://dx.doi.org/10.1016/j.anireprosci.2018.03.025>

Xin M., **Štěrba J. UCH**, Kolešová A., Dzyuba B., **Lieskovská J. KME**, Boryshpolets S., Siddique M., Kholodny V., Lebeda I., Linhart O. 2018. Protective role of antifreeze proteins on sterlet (*Acipenser ruthenus*) sperm during cryopreservation. Fish Physiology and Biochemistry 44: 1527-1533. <http://dx.doi.org/10.1007/s10695-018-0538-5>

Yu J., Knoppova J., Michoux F., Bialek W., Cota E., **Shukla MK. UCH**, Straskova A., **Pascual Aznar GM. UCH**, **Sobotka R. KMB, Komenda J. UCH**, Murray J., Nixon P. 2018. Ycf48 involved in the biogenesis of the oxygen-evolving photosystem II complex is a seven-bladed beta-propeller protein. Proceedings of The National Academy of Sciences of The United States of America 115: E7824-E7833. <http://dx.doi.org/10.1073/pnas.1800609115>

Yusah K., Foster W., Reynolds G., **Fayle T. KZO** 2018. Ant mosaics in Bornean primary rain forest high canopy depend on spatial scale, time of day, and sampling method. PeerJ 6: nestránkováno. <http://dx.doi.org/10.7717/peerj.4231>

Zahonova K., Fussy Z., Bircak E., Vanclava A., Klimes V., Vesteg M., Krajcovic J., **Oborník M. KMB**, Elias M. 2018. Peculiar features of the plastids of the colourless alga *Euglena longa* and photosynthetic euglenophytes unveiled by transcriptome analyses. Scientific Reports 8: nestránkováno. <http://dx.doi.org/10.1038/s41598-018-35389-1>

Zannotti M., Giovannetti R., **Minofar B. UFY, Řeha D. UCH, Plačková L. UFY**, D'Amato C., Rommozzi E., Dudko H., Kari N., Minicucci M. 2018. Aggregation and metal-complexation behaviour of THPP porphyrin in ethanol/water solutions as function of pH. Spectrochimica Acta Part A-Molecular and Biomolecular Spectroscopy 193: 235-248.

<http://dx.doi.org/10.1016/j.saa.2017.12.021>

Znachor P. KBE, Nedoma J., Hejzlar J., Sed'a J., Kopacek J., **Boukal D. KBE, Mrkvička T. EF/KMI** 2018. Multiple long-term trends and trend reversals dominate environmental conditions in a man-made freshwater reservoir. Science of the Total Environment 624: 24-33. <http://dx.doi.org/10.1016/j.scitotenv.2017.12.061>

Zrzavá M. KMB, Hladová I. KMB, Dalíková M. KMB, Sichova J., Ounap E., Kubickova S., Marec F. 2018. Sex Chromosomes of the Iconic Moth *Abraxas grossulariata* (Lepidoptera, Geometridae) and Its Congener *A. sylvata*. Genes 9: nestránkováno. <http://dx.doi.org/10.3390/genes9060279>

Zrzavý J. KZO, Duda P. KZO, Robovský J. KZO, Okřinová I. KZO, Pavelková V. KZO 2018. Phylogeny of the Caninae (Carnivora): Combining morphology, behaviour, genes and fossils. Zoologica Scripta 47: 373-389. <http://dx.doi.org/10.1111/zsc.12293>

Ostatní příspěvky nevidované v databázi WOS (bez IF) (28)

Abdolahi R., **Nedvěd O. KZO**, Nozari J. 2018. New data on some coccinellidae (coleoptera) from Iran. Acta Phytopathologica et Entomologica Hungarica 53: 83-90. <http://dx.doi.org/10.1556/038.52.2017.035>

Beneš J. LAPE, Naumov G., Majerovičová T. LAPE, Budilová K., Bumerl J. LAPE, Komárová V. LAPE, Kovárník J. LAPE, Vychronová M., Juřičková L. 2018. An Archaeobotanical Onsite Approach to the Neolithic Settlements in Southern Regions of the Balkans: The Case of Vrbjanska Čuka, a Tell Site in Pelagonia, Republic of Macedonia. Interdisciplinaria Archaeologica 9: 121-145.

Berec L. UMB 2018. Když se matematika potká s biologií: matematická epidemiologie. Pokroky matematiky, fyziky a astronomie 63: 91-107.

Dřevojan P., **Holá E. KBO, Jandová J., Košnar J. KBO, Kubešová S., Kučera J. KBO, Manukjanová A. KBO**, Mikulášková E., Müller F., Peterka T., **Štechová T. KBO**, Štěrbová J. 2018. Zajímavé bryofloristické nálezy XXX. Bryonora 62: 76-83.

Eliáš P., Bureš J., Dítě D., Eliáš P., Grulich V., Hodálová I., Koštál J., **Koutecký P. KBO**, Meredá P., Rydlo J., Valachovič M., Vymyslický T. 2018. Rastliny zaznamenané počas Floristického kurzu v Zlatých Moravciach. Bulletin Slovenskej botanickej spoločnosti 40: 49-92.

Hemala V., **Rindoš M. KZO** 2018. Phenology, distribution and first observation of the larva of the rare stink bug *Dybowskyia reticulata* (Hemiptera: Pentatomidae) in Europe. Klapalekiana 54: 183–196.

Horníčková K. UAI, Gogolák I., Grasse L., **Paclíková K. UAI**, Preusz M. UAI, Trejbal J., Zifčák Š. 2018. Krajina dat – Virtuální rekonstrukce ztracené Šumavy. Zlatý řez neuveden: 68-73.

Hoštičková I., Vráblová M., Rychlá A., **Hronková M. KEBR**, Jozová E., Čurn V. 2018. Infračervená termografie jako nástroj pro výběr genotypů máku s kontrastní reakcí na stres suchem. Úroda 12: 143-146.

Chvojka O., Mensik P., **Houfková P. LAPE**, **Šálková T. LAPE** 2018. K depotům měděných žeber ze starší doby bronzové v sídlištním kontextu: Depot z Kučeře (okr. Písek) pohledem archeologie a archeobotaniky. Archeologické rozhledy 70: 195-238.

Chvojka O., Beneš J., John J., **Šálková T. LAPE** 2018. Nové depoty doby bronzové z Bechyňska. Archeologické výzkumy v jižních Čechách 31: 45-86.

John J., Pták M., **Beneš J. LAPE** 2018. Olověné předměty z hradiště Na Jánu v Netolicích. Archeologické výzkumy v jižních Čechách 31: 247-252.

Kovačíková L. LAPE 2018. Nálezy zvířecích kostí z Jilemnice. Z Českého ráje a Podkrkonoší 31: 226-235.

Kovárník J. LAPE, **Beneš J. LAPE** 2018. Microscopic analysis of starch grains and its applications in the archaeology of the Stone Age. Interdisciplinaria Archaeologica IX: 83-93.

Lepší P., Boublík K., Lepší M., **Koutecký P. KBO**, **Štech M. KBO**, Janáková J., Půbal D. 2018. Vrba černající (*Salix myrsinifolia*) v jižní části Čech. Silva Gabreta : sborník vědeckých prací 24: 223-243.

Lippi M., Florenzano A., Rinaldi R., Allevato E., Arobba D., Bacchetta G., Bal M., Mazzanti M., Benatti A., **Beneš J. LAPE**, Bosi G., Buonincontri M., Caramiello R., Castelletti L., Castiglioni E., Celant A., Clò E., Costantini L., Pasquale G., Rita F., Fiorentino G., Furlanetto G., Giardini M., Grillo O., Guido M., Herchenbach M., Magri D., Marchesini M., Maritan M., Marvelli S., Masi A., Miola A., Montanari C., Montecchi M., Motella S., Nisbet R., Orrù M., Peña-Chocarro L., Pepe C., Perego R., Rattighieri E., Ravazzi C., Rottoli M., Rowan E., Sabato D., Sadori L., Sarigu M., Torri P., Ucchesu M., Mercuri A. 2018. The botanical record of archaeobotany Italian network - Brain: A cooperative network, database and website*. Flora Mediterranea 28: 365-376.
<http://dx.doi.org/10.7320/FIMedit28.365>

Müllerová A. KBO 2018. Sukcese vodní a mokřadní vegetace v pískovnách. Zprávy České botanické společnosti 53: 327-345.

Novák J. LAPE 2018. Analýza rostlinných makrozbytků a uhlíků z archeologického výzkumu kostela sv. Alžběty v Jilemnici. Z Českého ráje a Podkrkonoší 31: 236-243.

Novák R., Šída P., **Kovačíková L. LAPE** 2018. Nález sídlištního objektu kultury nálevkovitých pohárů a eneolitické sekery v Bačalkách, okr. Jičín. Archeologie ve středních Čechách 22: 95-107.

Paclíková K. UAI, Weinfurter A., **Vohnoutová M. UAI**, Dorner W., **Fesl J. UAI**, **Preusz M. UAI**, **Dostálek L. UAI**, **Horníčková K. UAI** 2018. Geoinformatics and crowdsourcing in cultural heritage: A tool for managing historical archives. Agris on-line Papers in Economics and Informatics 10: 73-83. <http://dx.doi.org/10.7160/aol.2018.100207>

Prach K. KBO, **Vítovcová K. KBO**, **Řehounková K. KBO**, Tichý L. 2018. Co obecného zatím vyplynulo z porovnání sukcesních sérií na antropogenních stanovištích v České republice?. Zprávy České botanické společnosti - Materiály 53: 321-326.

Pták M., **Ptáková M. LAPE** 2018. Nové poznatky k pravěku Práchně. Archeologické výzkumy v jižních Čechách 31: 105-113.

Říhová Z. UAI, Svatá V. 2018. Koncepční změny v řízení IT organizací. Systémová integrace Neuveden: 29-38.

Stolz D., Malyková D., **Kovačíková L. LAPE**, Přichystal A., Řídký J. 2018. Sídliště kultury s vypíchanou keramikou na sídlištním obchvatu v Kolíně-Štítarech. Analýza kamenné industrie a zvířecích kostí, radiokarbonové datování a celkové zhodnocení. Archeologie ve středních Čechách 22: 31-69.

Theischinger G., Richards S., **Toko P. KZO** 2018. Nososticta moginae SP. N. (Odonata: Platycnemididae), a new damselfly from Papua New Guinea. Australian Entomologist 45: 39-45.

Volná P., Unger J., **Kovačíková L. LAPE**, **Novák J. LAPE** 2018. Sídlištní objekty bylanské kultury (Ha C2-Ha D1) z Tuřan, okr. Kladno. Archeologie ve středních Čechách 22: 161-236.

Vondrovský V. LAPE, Bumerl J., Sida P., **Ptáková M. LAPE**, Pták M., Chvojka O. 2018. Nové poznatky o neolitickém osídlení jižních Čech. Archeologické rozhledy 70: 147-194.

Vrba J. KBE, Benedová Z., Jezberová J., Matoušů, A., Musil M., Nedoma J., **Pechar L. ZF/KKM**, Potužák, J., Řeháková K., **Šimek K. KBE**, **Šorf M. KBE**, Zemanová J. 2018. Nevstoupíš dvakrát do téhož rybníka – předběžná zpráva o stavu dnešních hypertrofních rybníčních ekosystémů. Vodní hospodářství 68: 1-5.

Zyval V., **Křenová Z. KBE**, Raus M., Strupl V., jun V., Zyvalova J. 2018. Effects of Deicing Salt in Protected Areas: Water Quality Monitoring in the River Basin with the Occurrence of a Rare Pearl Mussel. Inżynieria Mineralna - Journal of Polish Mineral Engineering Society JAN 2018: 99-102. <http://dx.doi.org/10.29227/IM-2018-01-16>

Knihy (9)

- Begall S., Burda H., Šumbera R. KZO 2018. Graumulle - Cryptomys und Fukomys. Magdeburg, VerlagsKG Wolf, 460 s.
- Beneš J. LAPE 2018. Počátky zemědělství ve Starém světě: pohled paleoekologie a environmentální archeologie. České Budějovice, Jihočeská univerzita v Českých Budějovicích, 351 s.
- Doležal J. KBO, Dvorský M., Börner A., Wild J., Schweingruber FH. 2018. Anatomy, Age and Ecology of High Mountain Plants in Ladakh, the Western Himalaya. Cham, Springer International Publishing, 616 s.
- Duszynski D., Kvíčerová J. KPA, Seville R. 2018. The Biology and Identification of the Coccidia (Apicomplexa) of Carnivores of the World. San Diego, Academic Press, 712 s.
- Dvorský M., Klimeš L., Doležal J. KBO, Wild J., Vickoré BW. 2018. Field Guide to the Flora of Ladakh. Praha, Academia, 291 s.
- Kaštovský J. KBO, Hauer T. KBO, Geriš R., Chattová B., Juráň J. KBO, Lepšová-Skácelová O. KBO, Pitelková P., Puzstai M., Škaloud P., Šťastný J., Čapková K., Bohunická M., Mühlsteinová R. KBO 2018. Atlas sinic a řas ČR 1. Praha, Powerprint, 393 s.
- Kaštovský J. KBO, Hauer T. KBO, Geriš R., Chattová B., Juráň J. KBO, Lepšová-Skácelová O. KBO, Pitelková P., Puzstai M., Škaloud P., Šťastný J., Čapková K. KBE, Bohunická M. KBO, Mühlsteinová R. KBO 2018. Atlas sinic a řas ČR 2. Praha, Powerprint, 491 s.
- Říhová Z. UAI, Svatá V., Tománek M., Čermák R. 2018. Úvod do IT Governance. In Praha : Oeconomica, 165 s.
- Šantrůčková H. KBE, Kaštovská E. KBE, Bárta J. KBE, Miko L., Tajovský K. 2018. Ekologie půdy. České Budějovice, Jihočeská univerzita v Českých Budějovicích, 260 s.

Kapitoly v knize (15)

- Bednářová A. KZO, Kodrík D. KZO, Chaudhuri A., Krishnan N. 2018. Neuroendocrine regulation of homeostasis in insects: Implications for metabolic disorders in humans. In Duncan, *Advances in Health and Disease*. New York : Nova Science Publishers, s. 1-45.
- Broom M., Křivan V. UMB 2018. Biology and Evolutionary Games. In Basar,, Zaccour, *Handbook of Dynamic Game Theory*. Cham : Springer International Publishing, s. 1039-1077.
- Ekrlová E., Holá E. KBO, Košnar J., Štechová T. KBO 2018. Obnova populací rašeliníštních mechiorostů na Vysočině. In Jongepierová,, Pešout,, Prach, *Ekologická obnova v České republice II..* Praha : Agentura ochrany přírody a krajiny ČR, s. 139-144.
- Faktorová D. KMB, Valach M., Kaur B. KMB, Burger G., Lukeš J. KMB 2018. Mitochondrial RNA Editing and Processing in Diplonemid Protists. In Cruz-Reyes,, Gray, *RNA Metabolism in Mitochondria*. Cham : Springer, s. 145-176.
- Füssy Z. UCH, Oborník M. KMB 2018. Complex endosymbioses I: From primary to complex plastids, multiple independent events. In Marechal, *PLASTIDS: METHODS AND PROTOCOLS*. New York : Humana Press Inc., s. 17-35.
- Herová Z., Prach K. KBO 2018. Revitalizace říčky Stropnice. In Jongepierová,, Pešout,, Prach, *Ekologická obnova v České republike II..* Praha : Agentura ochrany přírody a krajiny ČR, s. 149-151.
- Jongepierová I., Prach K. KBO, Fajmon K., Malaníková E., Malenovský I., Spitzer L. 2018. Obnova druhově bohatých luk v Bílých Karpathech. In Jongepierová,, Pešout,, Prach, *Ekologická obnova v České republike II..* Praha : Agentura ochrany přírody a krajiny ČR, s. 76-80.
- Jongepierová I., Prach K. KBO, Tichý L., Malenovský I. 2018. Sekundární trávníky a vřesoviště – Úvod. In Jongepierová,, Pešout,, Prach, *Ekologická obnova v České republike II..* Praha : Agentura ochrany přírody a krajiny ČR, s. 63-71.
- Klementová Š. UCH 2018. Photochemical Degradation of Organic Xenobiotics in Natural Waters. In Saha,, Mondal, *Photochemistry and Photophysics Fundamentals to Applications*. London : IntechOpen Limited, s. 67-88.
- Prach K. KBO 2018. Antropogenní stanoviště – Úvod. In Jongepierová,, Pešout,, Prach, *Ekologická obnova v České republike II..* Praha : Agentura ochrany přírody a krajiny ČR, s. 163-168.
- Prach K. KBO 2018. Obnova ekosystémů na orné půdě spontánní sukcesí. In Jongepierová,, Pešout,, Prach, *Ekologická obnova v České republike II..* Praha : Agentura ochrany přírody a krajiny ČR, s. 193-196.
- Řehounková K. KBO, Jongepierová I. 2018. Obnova společenstev vázaných na otevřené plochy písčin. In Jongepierová,, Pešout,, Prach, *Ekologická obnova v České republike II..* Praha : Agentura ochrany přírody a krajiny ČR, s. 99-101.

Sirová D. KBE, Bárta J. KBE, Borovec J. KBE, Vrba J. KBE 2018. The Utricularia - associated microbiome: composition, function, and ecology. In Ellison,, Adamec, *Carnivorous Plants: Physiology, ecology, and evolution*. Oxford : Oxford University Press, s. 349-358.

Těšitel J. KBO, Mládeček J. KBO 2018. Obnova diverzity porostů se třtinou křovištění. In Jongepierová,, Pešout,, Prach, *Ekologická obnova v České republice II.*. Praha : Agentura ochrany přírody a krajiny ČR, s. 81-83.

Vlková L., Prach K. KBO 2018. Revitalizace vytěženého rašeliniště Soumarský most – reintrodukce dvou cílových druhů. In Jongepierová,, Pešout,, Prach, *Ekologická obnova v České republice II.*. Praha : Agentura ochrany přírody a krajiny ČR, s. 136-138.

Užitný vzor (5)

JIHOČESKÁ UNIVERZITA V ČESKÝCH BUDĚJOVICÍCH. *Přípravek pro léčbu či profylaxi infekcí způsobených flaviviry, zejména virem klíštové encefalitidy.* **J. Štěrba UCH**, H. Mašková, **J. Tříška UCH**, **P. Věchtová UCH**, **M. Selinger UCH**, N. Vrchotová. Úřad průmyslového vlastnictví, CZ31559U1. 06.03.2018.

JIHOČESKÁ UNIVERZITA V ČESKÝCH BUDĚJOVICÍCH. *Zařízení pro dálkové ovládání potenciometrů elektronických přístrojů, zejména analogových hudebních zesilovačů.* **L. Ptáček UFY**, **M. Novák UAI**. Úřad průmyslového vlastnictví, CZ 32167 U1. 09.10.2018.

JIHOČESKÁ UNIVERZITA V ČESKÝCH BUDĚJOVICÍCH. *Zařízení pro upevnění a pohyb kyvety s gelovým vzorkem u femtosekundového spektroskopického laseru.* **M. Novák UAI**, **J. Pech UAI**. Úřad průmyslového vlastnictví, CZ 32041 U1. 04.09.2018.

JIHOČESKÁ UNIVERZITA V ČESKÝCH BUDĚJOVICÍCH. *Zařízení pro včasné odhalování napadení lesního porostu škůdci.* **M. Novák UAI**, **M. Prokýšek UAI**. Úřad průmyslového vlastnictví, CZ 32317 U1. 13.11.2018.

JIHOČESKÁ UNIVERZITA V ČESKÝCH BUDĚJOVICÍCH. *Zařízení pro včasné odhalování napadení lesního porostu škůdci.* **M. Novák UAI**, **M. Prokýšek UAI**. Úřad průmyslového vlastnictví, CZ 32316 U1. 13.11.2018.

Software (2)

Prokýšek, M. UAI, Geyer, J. UAI, Novák, M. UAI UAV bark beetle early stage attack detection system. 2018.

Prokýšek, M. UAI, Geyer, J. UAI, Ondřej, D., **Vohnout, R. UAI** UnicatDB - Universal Catalog Database. 2018.