

Publikace PřF za rok 2015:

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

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

[Knihy](#)

[Kapitoly v knize](#)

Články v databázi WOS (články s IF)

Odkazy DOI u záznamů po najetí myší otevřou přímo stránku publikace.

Abraham M., Pozgayova M., Prochazka P., **Piálková R. KZO**, Honza M. 2015. Is there a sex-specific difference between parasitic chicks in begging behaviour?. *Journal of Ethology* 33: 151-158.

<http://dx.doi.org/10.1007/s10164-015-0427-7>

Alami J., **Straňák V. UFY**, Herrendorf A., Hubička Z., Hippler R. 2015. Design of magnetic field configuration for controlled discharge properties in highly ionized plasma. *Plasma Sources Science and Technology* 24: nestránkováno. <http://dx.doi.org/10.1088/0963-0252/24/4/045016>

Almiron A., Casciotta J., **Piálek L. KZO**, **Doubnerová K. KZO**, **Řičan O. KZO** 2015. *Oligosarcus amome* (Ostariophysi: Characidae), a new species from the rio Uruguay basin, Misiones, Argentina.

Zootaxa 3915: 581-590. <http://dx.doi.org/10.11646/zootaxa.3915.4.8>

Anderson-Teixeira K., Davies S., Bennett A., Gonzalez-Akre E., Muller-Landau H., Wright S., Abu Salim K., Zambrano A., Alonso A., Baltzer J., Basset Y., Bourg N., Broadbent E., Brockelman W., Bunyavejchewin S., Burslem D., Butt N., Cao M., Cardenas D., Chuyong G., Clay K., Cordell S., Dattaraja H., Deng X., Detto M., Du X., Duque A., Erikson D., Ewango C., Fischer G., Fletcher C., Foster R., Giardina C., Gilbert G., Gunatilleke N., Gunatilleke S., Hao Z., Hargrove W., Hart T., Hau B., He F., Hoffman F., Howe R., Hubbell S., Inman-Narahari F., Jansen P., Jiang M., Johnson D., Kanzaki M., Kassim A., Kenfack D., Kibet S., Kinnaird M., Korte L., Kral K., Kumar J., Larson A., Li Y., Li X., Liu S., Lum S., Lutz J., Ma K., Maddalena D., Makana J., Malhi Y., Marthews T., Serudin R., McMahon S., McShea W., Memiaghe H., Mi X., Mizuno T., Morecroft M., Myers J., **Novotný V. KZO**, de Oliveira A., Ong P., Orwig D., Ostertag R., den Ouden J., Parker G., Phillips R., Sack L., Sainge M., Sang W., Sringernyuan K., Sukumar R., Sun I., Sungpalee W. 2015. CTFS-ForestGEO: a worldwide network monitoring forests in an era of global change. *Global Change Biology* 21: 528-549.

<http://dx.doi.org/10.1111/gcb.12712>

Anjam I., **Valdman J. UMB** 2015. Fast MATLAB assembly of FEM matrices in 2D and 3D: Edge elements. *Applied Mathematics and Computation* 267: 252-263.

<http://dx.doi.org/10.1016/j.amc.2015.03.105>

Arup U., **Vondrák J. KBO**, Halici M. 2015. *Parvoplaca nigroblastidiata*, a new corticolous lichen (Teloschistaceae) in Europe, Turkey and Alaska. *Lichenologist* 47: 379-385.

<http://dx.doi.org/10.1017/S0024282915000389>

Awad M. KZO, Laugier G., Loiseau A., **Nedvěd O. KZO** 2015. Unbalanced polyandry in wild-caught ladybirds *Harmonia axyridis* (Coleoptera: Coccinellidae). *Applied Entomology and Zoology* 50: 427-434.

<http://dx.doi.org/10.1007/s13355-015-0348-5>

Baho D., Tavsanoğlu U., **Šorf M. KBE**, Stefanidis K., Drakare S., Scharfenberger U., Agasild H., Beklioglu M., Hejzlar J., Adrian R., Papastergiadou E., Zingel P., Sondergaard M., Jeppesen E., Angeler D. 2015. Macroecological Patterns of Resilience Inferred from a Multinational, Synchronized Experiment. *Sustainability* 7: 1142-1160. <http://dx.doi.org/10.3390/su7021142>

Bajgar A. KMB, **Kučerová K. KMB**, **Jonátová L. KMB**, Tomcala A., **Schneedorferová I. KFZ**, **Okrouhlík J. KFZ**, **Doležal T. KMB** 2015. Extracellular Adenosine Mediates a Systemic Metabolic

Switch during Immune Response. PLoS Biology 13: nestránkováno.
<http://dx.doi.org/10.1371/journal.pbio.1002135>

Baran R. KBE, Kubecka J., Kubin M., Lojkasek B., Mrkvička T., Ricard D., Rulik M. 2015. Abundance of *Cottus poecilopus* is influenced by O-2 saturation, food density and *Salmo trutta* in three tributaries of the Roznovska Becva River, Czech Republic. Journal of Fish Biology 86: 805-811.
<http://dx.doi.org/10.1111/jfb.12565>

Bárta J. KBE, Stone J., **Pech J. UAI**, **Sirová D. KBE**, Adamec L., Campbell M., Storchova H. 2015. The transcriptome of *Utricularia vulgaris*, a rootless plant with minimalist genome, reveals extreme alternative splicing and only moderate sequence similarity with *Utricularia gibba*. BMC Plant Biology 15: nestránkováno. <http://dx.doi.org/10.1186/s12870-015-0467-8>

Bartosova-Sojkova P., Oppenheim R., Soldati-Favre D., **Lukeš J. KMB** 2015. Epicellular Apicomplexans: Parasites "On the Way In". PLoS Pathogens 11: nestránkováno.
<http://dx.doi.org/10.1371/journal.ppat.1005080>

Bartosova-Sojkova P., **Kodádková A. KPA**, Peckova H., Kuchta R., Reed C. 2015. Morphology and phylogeny of two new species of *Sphaeromyxa* Thelohan, 1892 (Cnidaria: Myxozoa) from marine fish (Clinidae and Trachichthyidae). Parasitology 142: 660-674. <http://dx.doi.org/10.1017/S0031182014001723>

Bartoš M. KBO, **Tropek R. KZO**, Spitzer L., **Padyšáková E. KZO**, Jansta P., Straka J., Tkoc M., Janecek S. 2015. Specialization of pollination systems of two co-flowering phenotypically generalized *Hypericum* species (Hypericaceae) in Cameroon. Arthropod-Plant Interactions 9: 241-252.
<http://dx.doi.org/10.1007/s11829-015-9378-8>

Bartuskova A., **Doležal J. KBO**, Janecek S., **Lanta V. KBO**, Klimesova J. 2015. Changes in biomass allocation in species rich meadow after abandonment: Ecological strategy or allometry?. Perspectives in Plant Ecology, Evolution and Systematics 17: 379-387. <http://dx.doi.org/10.1016/j.ppees.2015.06.003>

Basset YF. KZO, **Čížek L. KZO**, Cuenoud P., Didham R., **Novotný V. KZO**, Odegaard F., Roslin T., Tishechkin A., Schmidl J., Winchester N., Roubik D., Aberlenc H., Bail J., Barrios H., Bridle J., Castano-Meneses G., Corbara B., Curletti G., da Rocha W., De Bakker D., Delabie J., Dejean A., Fagan L., Floren A., Kitching R., Medianero E., de Oliveira E., Orivel J., Pollet M., Rapp M., Ribeiro SP., Roisin Y., Schmidt J., Sorensen L., Lewinsohn T., Leponce M. 2015. Arthropod Distribution in a Tropical Rainforest: Tackling a Four Dimensional Puzzle. PLoS One 10: nestránkováno.
<http://dx.doi.org/10.1371/journal.pone.0144110>

Basset YF. KZO, Barrios H., **Segar S. KZO**, Srygley R., Aiello A., Warren A., Delgado F., Coronado J., Lezcano J., Arizala S., Rivera M., Perez F., Bobadilla R., Lopez Y., Alejandro Ramirez J. 2015. The Butterflies of Barro Colorado Island, Panama: Local Extinction since the 1930s. PLoS One 10: nestránkováno. <http://dx.doi.org/10.1371/journal.pone.0136623>

Bazsalovicsova E., Kralova-Hromadova I., **Štefka J. KPA**, Minarik G., Bokorova S., Pybus M. 2015. Genetic interrelationships of North American populations of giant liver fluke *Fascioloides magna*. Parasites & Vectors 8: nestránkováno. <http://dx.doi.org/10.1186/s13071-015-0895-1>

Bednářová A. KFZ, **Kodřík D. KFZ**, Krishnan N. 2015. Knockdown of adipokinetic hormone synthesis increases susceptibility to oxidative stress in *Drosophila* - A role for dFoxO?. Comparative Biochemistry and Physiology C - Toxicology and Pharmacology 171: 8-14. <http://dx.doi.org/10.1016/j.cbpc.2015.03.006>

Beránková J. KZO, **Veselý P. KZO**, **Fuchs R. KZO** 2015. The role of body size in predator recognition by untrained birds. Behavioural processes 120: 128-134. <http://dx.doi.org/10.1016/j.beproc.2015.09.015>

Bernhauerova V., **Berec L. UMB** 2015. Role of trade-off between sexual and vertical routes for evolution of pathogen transmission. Theoretical Ecology 8: 23-36. <http://dx.doi.org/10.1007/s12080-014-0234-8>

Bernhauerova V., **Berec L. UMB**, Maxin D. 2015. Evolution of early male-killing in horizontally

transmitted parasites. Proceedings of the Royal Society of London Series B - Biological Sciences 282: nestránkováno. <http://dx.doi.org/10.1098/rspb.2015.2068>

Bešta T. KBO, Novák J. LAPE, Dreslerova D., Jankovska V., Bernardová A. KBO, Lisa L., Valentova D. 2015. Mid-Holocene history of a central European lake: Lake Komoany, Czech Republic. *Boreas* 44: 563-574. <http://dx.doi.org/10.1111/bor.12119>

Bešta T. LAPE, Muska M., Juggins S., Těšitel J. KBO 2015. Comparison of diatom community structure from epilithon and fish guts: implications for inferring past changes in water quality. *Hydrobiologia* 742: 233-248. <http://dx.doi.org/10.1007/s10750-014-1987-1>

Bezdek A., Kral D., **Sládeček F. KZO** 2015. Oniticellus (Liatongus) boucomonti Balthasar, 1932 (Coleoptera: Scarabaeidae: Scarabaeinae: Oniticellini)-clarification of its taxonomic status by lectotype designation. *Zootaxa* 3974: 145-147. <http://dx.doi.org/10.11646/zootaxa.3974.1.13>

Bílý T. UFY, Palus M. KME, Eyer L., Elsterová J. KME, Vancová M. KPA, Růžek D. KME 2015. Electron Tomography Analysis of Tick-Borne Encephalitis Virus Infection in Human Neurons. *Scientific Reports* 5: nestránkováno. <http://dx.doi.org/10.1038/srep10745>

Blažek P. KBO, Lepš J. KBO 2015. Victims of agricultural intensification: Mowing date affects *Rhinanthus* spp. regeneration and fruit ripening. *Agriculture, Ecosystems and Environment : International journal for scientific research on the relat* 211: 10-16. <http://dx.doi.org/10.1016/j.agee.2015.04.022>

Bohoussou K., Cornette R., Akpatou B., Colyn M., Peterhans J., Kennis J., **Šumbera R. KZO, Verheyen E., N'Goran E., Katuala P., Nicolas V.** 2015. The phylogeography of the rodent genus *Malacomys* suggests multiple Afrotropical Pleistocene lowland forest refugia. *Journal of Biogeography* 42: 2049-2061. <http://dx.doi.org/10.1111/jbi.12570>

Bohunická M. KBO, Pietrasiak N., Johansen J. KBO, Gomez E., Hauer T., Gaysina L., Lukesova A. 2015. *Roholtiella*, gen. nov (Nostocales, Cyanobacteria)-a tapering and branching cyanobacteria of the family Nostocaceae. *Phytotaxa* 197: 84-103.

Bohunická M. KBO, Mareš J. KBO, Hrouzek P., Urajova P., Lukes M., Smarda J., Komarek J., Gaysina L., Strunecky O. 2015. A COMBINED MORPHOLOGICAL, ULTRASTRUCTURAL, MOLECULAR, AND BIOCHEMICAL STUDY OF THE PECULIAR FAMILY GOMONTIELLACEAE (OSCILLATORIALES) REVEALS A NEW CYLINDROSPERMOPHOSIN-PRODUCING CLADE OF CYANOBACTERIA. *Journal of Phycology* 51: 1040-1054. <http://dx.doi.org/10.1111/jpy.12354>

Bojková J. KBE, Soldan T. 2015. Two new species of the genus *Prosopistoma* (Ephemeroptera: Prosopistomatidae) from Iraq and Algeria. *Zootaxa* 4018: 109-123. <http://dx.doi.org/10.11646/zootaxa.4018.1.6>

Bombarova M., Spakulova M., Kello M., **Nguyen P. KGN, Bazsalovicsova E., Kralova-Hromadova I.** 2015. Cytogenetics of *Aspidogaster limacoides* (Trematoda, Aspidogastrea): karyotype, spermatocyte division, and genome size. *Parasitology Research* 114: 1473-1483. <http://dx.doi.org/10.1007/s00436-015-4330-5>

Borovicka J., **Oborník M. KMB, Stribny J., Noordeloos M., Parra Sanchez L., Gryndler M.** 2015. Phylogenetic and chemical studies in the potential psychotropic species complex of *Psilocybe atrobrunnea* with taxonomic and nomenclatural notes. *PERSOONIA* 34: 1-9. <http://dx.doi.org/10.3767/003158515X685283>

Boukal D. KBE, Ditrich T., Kutcherov D., Sroka P., Dudová P. KZO, Papáček M. 2015. Analyses of Developmental Rate Isomorphy in Ectotherms: Introducing the Dirichlet Regression. *PLoS One* 10: nestránkováno. <http://dx.doi.org/10.1371/journal.pone.0129341>

Brabec J. KPA, Kostadinova A., Scholz T. KPA, Littlewood D. 2015. Complete mitochondrial genomes and nuclear ribosomal RNA operons of two species of *Diplostomum* (Platyhelminthes: Trematoda): a molecular resource for taxonomy and molecular epidemiology of important fish pathogens. *Parasites &*

Vectors 8: nestránkovááno. <http://dx.doi.org/10.1186/s13071-015-0949-4>

Buse J., Šlachta M., **Sládeček F. KZO**, Pung M., Wagner T., Entling M. 2015. Relative importance of pasture size and grazing continuity for the long-term conservation of European dung beetles. *Biological Conservation* 187: 112-119. <http://dx.doi.org/10.1016/j.biocon.2015.04.011>

Bussmann I., **Matoušů A. KBE**, Osudar R., Mau S. 2015. Assessment of the radio H-3-CH₄ tracer technique to measure aerobic methane oxidation in the water column. *Limnology and Oceanography: Methods* 13: 312-327. <http://dx.doi.org/10.1002/lom3.10027>

Butterill P. KZO, **Novotný V. KZO** 2015. Gall-forming insects in a lowland tropical rainforest: low species diversity in an extremely specialised guild. *Ecological Entomology* 40: 409-419. <http://dx.doi.org/10.1111/een.12198>

Cantonati M., **Komárek J. KBO**, Montejano G. 2015. Cyanobacteria in ambient springs. *Biodiversity and Conservation* 24: 865-888. <http://dx.doi.org/10.1007/s10531-015-0884-x>

Carabajal Paladino L., Muntaabski I., Lanzavecchia S., **Pinguet Y. KBO**, Viscarret M., Juri M., Fueyo-Sanchez L., Papeschi A., Cladera J., Jose Bressa M. 2015. Complementary Sex Determination in the Parasitic Wasp *Diachasmimorpha longicaudata*. *PLoS One* 10: nestránkovááno. <http://dx.doi.org/10.1371/journal.pone.0119619>

Carnes J., Anupama A., Balmer O., Jackson A., Lewis M., Brown R., Cestari I., Desquesnes M., Gendrin C., Hertz-Fowler C., Imamura H., Ivens A., **Kořený L. KMB**, Lai D., MacLeod A., McDermott S., Merritt C., Monnerat S., Moon W., Myler P., Phan I., Ramasamy G., Sivam D., Lun Z., **Lukeš J. KMB**, Stuart K., Schnauffer A. 2015. Genome and Phylogenetic Analyses of *Trypanosoma evansi* Reveal Extensive Similarity to *T. brucei* and Multiple Independent Origins for Dyskinetoplasty. *PLoS Neglected Tropical Diseases* 9: nestránkovááno. <http://dx.doi.org/10.1371/journal.pntd.0003404>

Cepáková Š. KBE, Frouz J. 2015. Changes in chemical composition of litter during decomposition: a review of published C-13 NMR spectra. *Journal of Soil Science and Plant Nutrition* 15: 805-815.

Cerny T., Kopecky M., Petrik P., Song J., **Šrůtek M. KBO**, Valachovic M., **Altman J. KBO**, **Doležal J. KBO** 2015. Classification of Korean forests: patterns along geographic and environmental gradients. *Applied Vegetation Science* 18: 5-22. <http://dx.doi.org/10.1111/avsc.12124>

Corman J., Carlson E., Dix M., Giron N., Roegner A., **Veselá J. KBO**, Chandra S., Elser J., Rejmankova E. 2015. Nutrient dynamics and phytoplankton resource limitation in a deep tropical mountain lake. *Inland Waters* 5: 371-386. <http://dx.doi.org/10.5268/IW-5.4.843>

Csefalvay E., Lapkouski M., Guzanova A., Csefalvay L., **Baikova T. UCH**, Shevelev I., **Bialevich V. UCH**, **Shamayeva K. UCH**, Janscak P., **Kutá Smatanová I. UCH**, Panjekar S., Carey J., Weiserova M., **Ettrich R. UCH** 2015. Functional Coupling of Duplex Translocation to DNA Cleavage in a Type I Restriction Enzyme. *PLoS One* 10: nestránkovááno. <http://dx.doi.org/10.1371/journal.pone.0128700>

Čapek P. KBE, **Diáková K. KBE**, Dickopp J., **Bárta J. KBE**, Wild B., Schneckner J., Alves R., Aiglsdorfer S., Guggenberger G., Gentsch N., Hugelius G., Lashchinsky N., Gittel A., Schleper C., Mikutta R., Palmtag J., Shibistova O., Urich T., Richter A., **Šantrůčková H. KBE** 2015. The effect of warming on the vulnerability of subducted organic carbon in arctic soils. *Soil Biology & Biochemistry* 90: 19-29. <http://dx.doi.org/10.1016/j.soilbio.2015.07.013>

Černý J. KMB, Bolfikova B., Zanutto P., **Grubhoffer L. KPA**, Ruzek D. 2015. A deep phylogeny of viral and cellular right-hand polymerases. *Infection, Genetics and Evolution* 36: 275-286. <http://dx.doi.org/10.1016/j.meegid.2015.09.026>

Červinka J., **Riegert J. KZO**, **Grill S. KBE**, Šálek M. 2015. Large-scale evaluation of carnivore road mortality: the effect of landscape and local scale characteristics. *Mammal Research* 60: 233-243. <http://dx.doi.org/10.1007/s13364-015-0226-0>

Dainese M., **Lepš J. KBO**, **De Bello F. KBO** 2015. Different effects of elevation, habitat fragmentation

and grazing management on the functional, phylogenetic and taxonomic structure of mountain grasslands. *Perspectives in Plant Ecology, Evolution and Systematics* 17: 44-53.

<http://dx.doi.org/10.1016/j.ppees.2014.09.002>

Daněček J. UMB, Vizsus E. 2015. -Regularity for Vector-Valued Minimizers of Quasilinear Functionals with VMO-Coefficients. *Mediterranean Journal of Mathematics* 12: 1287-1305.

<http://dx.doi.org/10.1007/s00009-014-0476-0>

David V. KMB, Flegontov P., Gerasimov E., Tanifuji G., **Hashimi MMH. KMB**, Logacheva M., Maruyama S., Onodera N., Gray M., Archibald J., **Lukeš J. KMB** 2015. Gene Loss and Error-Prone RNA Editing in the Mitochondrion of *Perkinsella*, an Endosymbiotic Kinetoplastid. *mBio* 6: nestránkováno.

<http://dx.doi.org/10.1128/mBio.01498-15>

d'Avila-Levy C., Boucinha C., Kostygov A., Carneiro Santos H., Morelli K., Grybchuk-Ieremenko A., Duval L., Votypka J., Yurchenko V., Grellier P., **Lukeš J. KMB** 2015. Exploring the environmental diversity of kinetoplastid flagellates in the high-throughput DNA sequencing era. *Memorias do Instituto Oswaldo Cruz* 110: 956-965. <http://dx.doi.org/10.1590/0074-02760150253>

De **Bello F. KBO**, Berg M., Dias A., Diniz-Filho J., Gotzenberger L., Hortal J., Ladle R., **Lepš J. KBO** 2015. On the need for phylogenetic 'corrections' in functional trait-based approaches. *Folia Geobotanica* 50: 349-357. <http://dx.doi.org/10.1007/s12224-015-9228-6>

de Vargas C., Audic S., Henry N., Decelle J., Mahe F., Logares R., Lara E., Berney C., Le Bescot N., Probert I., Carmichael M., Poulain J., Romac S., Colin S., Aury J., Bittner L., Chaffron S., Dunthorn M., Engelen S., **Flegontova O. KMB**, Guidi L., **Horák A. KMB**, Jaillon O., Lima-Mendez G., **Lukeš J. KMB**, Malviya S., Morard R., Mulot M., Scalco E., Siano R., Vincent F., Zingone A., Dimier C., Picheral M., Searson S., Kandels-Lewis S., Acinas S., Bork P., Bowler C., Gorsky G., Grimsley N., Hingamp P., Iudicone D., Not F., Ogata H., Pesant S., Raes J., Sieracki M., Speich S., Stemmann L., Sunagawa S., Weissenbach J., Wincker P., Karsenti E. 2015. Eukaryotic plankton diversity in the sunlit ocean. *Science* 348: nestránkováno. <http://dx.doi.org/10.1126/science.1261605>

Debouk H., **De Bello F. KBO**, Sebastia M. 2015. Functional Trait Changes, Productivity Shifts and Vegetation Stability in Mountain Grasslands during a Short-Term Warming. *PLoS One* 10: nestránkováno. <http://dx.doi.org/10.1371/journal.pone.0141899>

D'Haene S., **Sobotka R. KMB**, **UCH**, **Bučinská L. UCH**, Dekker J., **Komenda J. UCH** 2015. Interaction of the PsbH subunit with a chlorophyll bound to histidine 114 of CP47 is responsible for the red 77 K fluorescence of Photosystem II. *Biochimica et Biophysica Acta - Bioenergetics* 1847: 1327-1334. <http://dx.doi.org/10.1016/j.bbabi.2015.07.003>

Dogga S., Bartosova-Sojkova P., **Lukeš J. KMB**, Soldati-Favre D. 2015. Phylogeny, Morphology, and Metabolic and Invasive Capabilities of Epicellular Fish Coccidium *Goussia janae*. *Protist* 166: 659-676. <http://dx.doi.org/10.1016/j.protis.2015.09.003>

Dolezalova J., Vallo P., Petrzalkova K., Foitova I., Nurcahyo W., Mudakikwa A., Hashimoto C., Jirku M., **Lukeš J. KMB**, **Scholz T. KPA**, Modry D. 2015. Molecular phylogeny of anoplocephalid tapeworms (Cestoda: Anoplocephalidae) infecting humans and non-human primates. *Parasitology* 142: 1278-1289. <http://dx.doi.org/10.1017/S003118201500058X>

Doležel D. KMB 2015. Photoperiodic time measurement in insects. *Current Opinion in Insect Science* 7: 98-103. <http://dx.doi.org/10.1016/j.cois.2014.12.002>

Drag L. KZO, **Čížek L. KZO** 2015. Successful reintroduction of an endangered veteran tree specialist: conservation and genetics of the Great Capricorn beetle (*Cerambyx cerdo*). *Conservation Genetics* 16: 267-276. <http://dx.doi.org/10.1007/s10592-014-0656-2>

Drag L. KZO, Hauck D., Berces S., Michalcewicz J., Jelaska L., Aurenhammer S., **Čížek L. KZO** 2015. Genetic differentiation of populations of the threatened saproxylic beetle *Rosalia longicorn*, *Rosalia alpina* (Coleoptera: Cerambycidae) in Central and South-east Europe. *Biological Journal of the Linnean Society*

116: 911-925. <http://dx.doi.org/10.1111/bij.12624>

Dubcová J. KZO, Bartosova J., Komarkova M. 2015. Effects of prompt versus stepwise relocation to a novel environment on foals' responses to weaning in domestic horses (*Equus caballus*). *Journal of Veterinary Behavior: Clinical Applications and Research* 10: 346-352.
<http://dx.doi.org/10.1016/j.jveb.2015.03.003>

Dvorakova N., **Kvičerová J. KPA**, Hostovsky M., Siroky P. 2015. Haemogregarines of freshwater turtles from Southeast Asia with a description of *Haemogregarina sacaliae* sp n. and a redescription of *Haemogregarina pellegrini* Laveran and Pettit, 1910. *Parasitology* 142: 816-826.
<http://dx.doi.org/10.1017/S0031182014001930>

Edwards KR. KBE 2015. Effect of nutrient additions and site hydrology on belowground production and root nutrient contents in two wet grasslands. *Ecological Engineering* 84: 325-335.
<http://dx.doi.org/10.1016/j.ecoleng.2015.09.034>

Edwards KR. KBE, Píček T. KBE, Čížková H., Zemanova K., Stará A. 2015. Nutrient Addition Effects on Carbon Fluxes in Wet Grasslands With Either Organic or Mineral Soil. *Wetlands* 35: 55-68.
<http://dx.doi.org/10.1007/s13157-014-0592-4>

Eisner J. UMB, Kucera M., Recke L. 2015. Direction and stability of bifurcating solutions for a Signorini problem. *Nonlinear Analysis: Theory, Methods & Application* 113: 357-371.
<http://dx.doi.org/10.1016/j.na.2014.09.032>

Elsterová J. KME, Černý J. KMB, Muellerova J., Sima R., Coulson S., Lorentzen E., Strom H., **Grubhoffer L. KPA** 2015. Search for tick-borne pathogens in the Svalbard Archipelago and Jan Mayen. *Polar Research* 34: nestránkováno. <http://dx.doi.org/10.3402/polar.v34.27466>

Ewers R., Boyle M., Gleave R., **Plowman NS. KZO**, Benedick S., Bernard H., Bishop T., Bakhtiar E., Chey VK., Chung A., Davies R., Edwards D., Eggleton P., **Fayle T. KZO**, Hardwick S., Homathevi R., Kitching R., Khoo M., Luke S., March J., Nilus R., Pfeifer M., Rao S., Sharp A., Snaddon J., Stork N., Struebig M., Wearn O., Yusah K., Turner E. 2015. Logging cuts the functional importance of invertebrates in tropical rainforest. *Nature Communications* 6: nestránkováno. <http://dx.doi.org/10.1038/ncomms7836>

Eyer L., Valdes J., Gil V., Nencka R., Hrebabecky H., Sala M., Salat J., **Černý J. KMB, Palus M. KME**, De Clercq E., **Růžek D. KME** 2015. Nucleoside Inhibitors of Tick-Borne Encephalitis Virus. *Antimicrobial Agents and Chemotherapy* 59: 5483-5493. <http://dx.doi.org/10.1128/AAC.00807-15>

Fayle T. KZO, Eggleton P., Manica A., Yusah K., Foster W. 2015. Experimentally testing and assessing the predictive power of species assembly rules for tropical canopy ants. *Ecology Letters* 18: 254-262.
<http://dx.doi.org/10.1111/ele.12403>

Fayle T. KZO, Edwards D., Foster W., Yusah K., Turner E. 2015. An ant-plant by-product mutualism is robust to selective logging of rain forest and conversion to oil palm plantation. *Oecologia* 178: 441-450.
<http://dx.doi.org/10.1007/s00442-014-3208-z>

Fayle T. KZO, Turner E., **Basset YF. KZO**, Ewers R., Reynolds G., **Novotný V. KZO** 2015. Whole-ecosystem experimental manipulations of tropical forests. *Trends in Ecology and Evolution* 30: 334-346.
<http://dx.doi.org/10.1016/j.tree.2015.03.010>

Fayle T. KZO, Scholtz O., Dumbrell A., Russell S., **Segar S. KZO**, Eggleton P. 2015. Detection of Mitochondrial COII DNA Sequences in Ant Guts as a Method for Assessing Termite Predation by Ants. *PLoS One* 10: nestránkováno. <http://dx.doi.org/10.1371/journal.pone.0122533>

Fesl J. UAI, Drdák F. UAI 2015. New Techniques of IEEE 802.11 Family Hotspots Attacks, Principles and Defense. In *PROCEEDINGS OF THE 14TH EUROPEAN CONFERENCE ON CYBER WARFARE AND SECURITY (ECCWS- 2015)*. NR READING : ACAD CONFERENCES LTD, s. 61-70.

Fiala I., Hlavnickova M., **Kodádková A. KPA**, Freeman M., Bartosova-Sojkova P., Atkinson S. 2015. Evolutionary origin of *Ceratonova shasta* and phylogeny of the marine myxosporean lineage. *Molecular*

Phylogenetics and Evolution 86: 75-89. <http://dx.doi.org/10.1016/j.ympev.2015.03.004>

Fibich P. KBO, Rychtecká T. KBO, Lepš J. KBO 2015. Analysis of biodiversity experiments: A comparison of traditional and linear-model-based methods. *Acta Oecologica* 63: 47-55. <http://dx.doi.org/10.1016/j.actao.2015.02.002>

Flegontov P., **Michálek J. KMB**, Janouskovec J., Lai D., **Jirků M. KMB**, Hajduskova E., Tomcala A., Otto T., Keeling P., Pain A., **Oborník M. KMB**, **Lukeš J. KMB** 2015. Divergent Mitochondrial Respiratory Chains in Phototrophic Relatives of Apicomplexan Parasites. *Molecular Biology and Evolution* 32: 1115-1131. <http://dx.doi.org/10.1093/molbev/msv021>

Forister M., **Novotný V. KZO**, Panorska A., Baje L., **Basset YF. KZO**, **Butterill P. KZO**, **Čížek L. KZO**, Coley P., Dem F., Diniz I., Drozd P., Fox M., Glassmire A., Hazen R., **Hrček J. KZO**, Jahner J., **Kaman O. KZO**, Kozubowski T., Kursar T., Lewis O., Lill J., Marquis R., Miller S., Morais H., Murakami M., Nickel H., Pardikes N., Ricklefs R., Singer M., Smilanich A., Stireman J., Villamarin-Cortez S., **Vodka Š. KZO**, **Volf M. KZO**, Wagner D., Walla T., Weiblen G., Dyer L. 2015. The global distribution of diet breadth in insect herbivores. *Proceedings of The National Academy of Sciences of The United States of America* 112: 442-447. <http://dx.doi.org/10.1073/pnas.142304211>

Formanova P., **Černý J. KMB**, Bolfikova B., Valdes J., Kozlova I., Dzhioev Y., **Růžek D. KME** 2015. Full genome sequences and molecular characterization of tick-borne encephalitis virus strains isolated from human patients. *Ticks and Tick-borne Diseases* 6: 38-46. <http://dx.doi.org/10.1016/j.ttbdis.2014.09.002>

Frischauf I., **Zayats V. UCH**, Deix M., Hochreiter A., Jardin I., Muik M., Lackner B., Svobodova B., Pammer T., Litvinukova M., Sridhar A., Derler I., Bogeski I., Romanin C., **Etrich RH. UCH**, Schindl R. 2015. A calcium-accumulating region, CAR, in the channel Orai1 enhances Ca²⁺ permeation and SOCE-induced gene transcription. *Science Signaling* 8: nestránkováno. <http://dx.doi.org/10.1126/scisignal.aab1901>

Fucikova K., **Pažoutová M. KBO**, Rindi F. 2015. MEIOTIC GENES AND SEXUAL REPRODUCTION IN THE GREEN ALGAL CLASS TREBOUXIOPHYCEAE (CHLOROPHYTA). *Journal of Phycology* 51: 419-430. <http://dx.doi.org/10.1111/jpy.12293>

Fuciman M. UFY, **Kesan G. UFY**, LaFountain A., Frank H., **Polívka T. UFY** 2015. Tuning the Spectroscopic Properties of Aryl Carotenoids by Slight Changes in Structure. *Journal of Physical Chemistry B* 119: 1457-1467. <http://dx.doi.org/10.1021/jp512354r>

Fučíková K., **Johansen J. KBO**, Hall J. 2015. A contribution to the desmid flora of Southeastern Maine. *Journal of the Torrey Botanical Society* 142: 166-178. <http://dx.doi.org/10.3159/TORREY-D-14-00046.1>

Gauthier M., Bradley R., **Šimek M. KBE** 2015. More evidence that anaerobic oxidation of methane is prevalent in soils: Is it time to upgrade our biogeochemical models?. *Soil Biology & Biochemistry* 80: 167-174. <http://dx.doi.org/10.1016/j.soilbio.2014.10.009>

Gentsch N., Mikutta R., Alves R., **Bárta J. KBE**, **Čapek P. KBE**, Gittel A., Hugelius G., Kuhry P., Lashchinskiy N., Palmtag J., Richter A., **Šantrůčková H. KBE**, Schneckner J., Shibistova O., Urich T., Wild B., Guggenberger G. 2015. Storage and transformation of organic matter fractions in cryoturbated permafrost soils across the Siberian Arctic. *Biogeosciences* 12: 4525-4542. <http://dx.doi.org/10.5194/bg-12-4525-2015>

Gentsch N., Mikutta R., Shibistova O., Wild B., Schneckner J., Richter A., Urich T., Gittel A., **Šantrůčková H. KBE**, **Bárta J. KBE**, Lashchinskiy N., Mueller C., Fuss R., Guggenberger G. 2015. Properties and bioavailability of particulate and mineral-associated organic matter in Arctic permafrost soils, Lower Kolyma Region, Russia. *European Journal of Soil Science* 66: 722-734. <http://dx.doi.org/10.1111/ejss.12269>

Gibb H., Sanders N., Dunn R., Watson S., Photakis M., Abril S., Andersen A., Angulo E., Armbrrecht I., Arnan X., Baccaro F., Bishop T., Boulay R., Castracani C., Del Toro I., Delsinne T., Diaz M., Donoso D., Enriquez M., **Fayle T. KZO**, Feener D., Fitzpatrick M., Gomez C., Grasso D., Groc S., Heterick B.,

Hoffmann B., Lach L., Lattke J., Leponce M., Lessard J., Longino J., Lucky A., Majer J., Menke S., Mezger D., Mori A., Munyai T., Paknia O., Pearce-Duvet J., Pfeiffer M., Philpott S., de Souza J., Tista M., Vasconcelos H., Vonshak M., Parr C. 2015. Climate mediates the effects of disturbance on ant assemblage structure. *Proceedings of the Royal Society of London Series B - Biological Sciences* 282: nestránkováno. <http://dx.doi.org/10.1098/rspb.2015.0418>

Gnipova A., Subrtova K., Panicucci B., Horvath A., **Lukeš J. KMB**, **Zíková A. KMB** 2015. The ADP/ATP Carrier and Its Relationship to Oxidative Phosphorylation in Ancestral Protist Trypanosoma brucei. *Eukaryotic Cell* 14: 297-310. <http://dx.doi.org/10.1128/EC.00238-14>

Gor K., Tursun M., **Kesan G. UFY**, Kurkcuglu G., Rhyman L., Parlak C., Ramasami P., Yesilel O., Buyukgungor O. 2015. Novel Cyanide-Bridged Heterometallic Two-Dimensional Complex of 3-Methylpyridazine: Synthesis, Crystallographical, Vibrational, Thermal and DFT Studies. *Journal of Inorganic and Organometallic Polymers and Materials* 25: 1205-1217. <http://dx.doi.org/10.1007/s10904-015-0229-y>

Goux N., **Šebek P. KZO**, Valladares L., Brustel H., Brin A. 2015. Habitat requirements of the violet click beetle (*Limoniscus violaceus*), an endangered umbrella species of basal hollow trees. *Insect Conservation and Diversity* 8: 418-427. <http://dx.doi.org/10.1111/icad.12119>

Grana L., Morales E., **Bešta T. LAPE**, Echazu D., Wetzel C., Novais M., Rajdlova H., Ector L., Maidana N. 2015. On the geographical distribution and ecology of *Pseudostaurosira cataractarum* (Bacillariophyceae): new findings in the Palearctic and Neotropic ecozones. *Brazilian Journal of Botany* 38: 809-821. <http://dx.doi.org/10.1007/s40415-015-0188-0>

Gray C., Lewis O., Chung A., **Fayle T. KZO** 2015. Riparian reserves within oil palm plantations conserve logged forest leaf litter ant communities and maintain associated scavenging rates. *Journal of Applied Ecology* 52: 31-40. <http://dx.doi.org/10.1111/1365-2664.12371>

Gregorovic J., **Zalabová L. UMB** 2015. On Automorphisms with Natural Tangent Actions on Homogeneous Parabolic Geometries. *Journal of Lie Theory* 25: 677-715.

Grujčić V. KBE, **Kasalický V. KBE**, **Šimek K. KBE** 2015. Prey-Specific Growth Responses of Freshwater Flagellate Communities Induced by Morphologically Distinct Bacteria from the Genus *Limnohabitans*. *Applied and Environmental Microbiology* 81: 4993-5002. <http://dx.doi.org/10.1128/AEM.00396-15>

Guntner A., Faschinger F., Aichhorn S., Muellegger S., **Schoefberger W. UCH** 2015. Observation of High-Valent Manganese(V)-Corrole Complexes During Metalation of meso-Functionalized A(3)-Corroles under Aerobic Conditions. *Synlett* 26: 2180-2184. <http://dx.doi.org/10.1055/s-0034-1378819>

Habustova O., **Svobodová Z. KBE**, Spitzer L., **Doležal P. KFZ**, Hussein H., **Sehnal F. KFZ** 2015. Communities of ground-dwelling arthropods in conventional and transgenic maize: background data for the post-market environmental monitoring. *Journal of Applied Entomology* 139: 31-45. <http://dx.doi.org/10.1111/jen.12160>

Hajek M., Jirousek M., Navratilova J., Horodyska E., Peterka T., Pleskova Z., Navrátil J., Hajkova P., **Hájek T. KEBR** 2015. Changes in the moss layer in Czech fens indicate early succession triggered by nutrient enrichment. *Preslia : časopis České botanické společnosti* 87: 279-301.

Hamilton P., Votypka J., Dostalova A., Yurchenko V., Bird N., **Lukeš J. KMB**, Lemaitre B., Perlman S. 2015. Infection Dynamics and Immune Response in a Newly Described Drosophila-Trypanosomatid Association. *mBio* 6: nestránkováno. <http://dx.doi.org/10.1128/mBio.01356-15>

Hanna M., **Bednářová A. KFZ**, Rakshit K., Chaudhuri A., O'Donnell J., Krishnan N. 2015. Perturbations in dopamine synthesis lead to discrete physiological effects and impact oxidative stress response in *Drosophila*. *Journal of Insect Physiology* 73: 11-19. <http://dx.doi.org/10.1016/j.jinsphys.2015.01.001>

Hauer T. KBO, **Mühlsteinová R. KBO**, Bohunicka M., **Kaštovský J. KBO**, **Mareš J. KBO** 2015.

Diversity of cyanobacteria on rock surfaces. *Biodiversity and Conservation* 24: 759-779.
<http://dx.doi.org/10.1007/s10531-015-0890-z>

Herbstová M. KBO, Bína D. UCH, Koník P. UCH, Gardian Z. UCH, Vácha F. UCH, Litvín R. UCH 2015. Molecular basis of chromatic adaptation in pennate diatom *Phaeodactylum tricorutum*. *Biochimica et Biophysica Acta - Bioenergetics* 1847: 534-543.
<http://dx.doi.org/10.1016/j.bbabi.2015.02.016>

Hofmeister J., Hosek J., **Holá E. KBO**, Novozamska E. 2015. Decline in bryophyte diversity in predominant types of central European managed forests. *Biodiversity and Conservation* 24: 1391-1402.
<http://dx.doi.org/10.1007/s10531-015-0863-2>

Hofmeister J., Hosek J., Brabec M., Dvorak D., Beran M., Deckerova H., Burel J., Kriz M., Borovicka J., Bet'ak J., **Vašutová M. KBO**, Malicek J., Palice Z., Syrovatkova L., Steinova J., Cernajova I., **Holá E. KBO**, Novozamska E., Cizek L., Iarema V., Baltaziuk K., Svoboda T. 2015. Value of old forest attributes related to cryptogam species richness in temperate forests: A quantitative assessment. *Ecological Indicators* 57: 497-504. <http://dx.doi.org/10.1016/j.ecolind.2015.05.015>

Holá E. KBO, Košnar J. KBO, Kučera J. KBO 2015. Comparison of Genetic Structure of Epixylic Liverwort *Crossocalyx hellerianus* between Central European and Fennoscandian Populations. *PLoS One* 10: nestránkováno. <http://dx.doi.org/10.1371/journal.pone.0133134>

Hönig V. KPA, Svec P., Halas P., Vavrušková Z. KPA, Tykalová H. KPA, Kilian P. KME, Vetiskova V., Dornáková V. KMB, Štěrbová J. KPA, Šimonová Z., Erhart J., Štěřba J. UCH, Golovchenko M., Rudenko N., Grubhoffer L. KPA 2015. Ticks and tick-borne pathogens in South Bohemia (Czech Republic) - Spatial variability in *Ixodes ricinus* abundance, *Borrelia burgdorferi* and tick-borne encephalitis virus prevalence. *Ticks and Tick-borne Diseases* 6: 559-567. <http://dx.doi.org/10.1016/j.ttbdis.2015.04.010>

Horakova E., **Changmai P. KMB, Paris Z., Salmon D., Lukeš J. KMB** 2015. Simultaneous depletion of Atm and Mdl rebalances cytosolic Fe-S cluster assembly but not heme import into the mitochondrion of *Trypanosoma brucei*. *FEBS Journal* 282: 4157-4175. <http://dx.doi.org/10.1111/febs.13411>

Hortal J., De **Bello F. KBO, Diniz-Filho J., Lewinsohn T., Lobo J., Ladle R.** 2015. Seven Shortfalls that Beset Large-Scale Knowledge of Biodiversity. *Annual Review of Ecology, Evolution and Systematics* 46: 523 - 549. <http://dx.doi.org/10.1146/annurev-ecolsys-120213-054400>

Houfková P. LAPE, Bumerl J. LAPE, Pospisil L., Karlik P., Beneš J. LAPE, Bernardová A. LAPE, Hrabalíková M., Molnarova K., Hejcman M. 2015. Origin and development of long-strip field patterns: A case study of an abandoned medieval village in the Czech Republic. *Catena* 135: 83-91.
<http://dx.doi.org/10.1016/j.catena.2015.06.017>

Hronková M. KEBR, Wiesnerova D., Simkova M., Skupa P., Dewitte W., Vráblová M. KEBR, Zazimalova E., Šantrůček J. KEBR 2015. Light-induced STOMAGEN-mediated stomatal development in *Arabidopsis* leaves. *Journal of Experimental Botany* 66: 4621-4630.
<http://dx.doi.org/10.1093/jxb/erv233>

Huang Z. KMB, Faktorová D. KMB, Křížová A. UCH, Kafkova L., Read L., Lukeš J. KMB, Hashimi M. KMB 2015. Integrity of the core mitochondrial RNA-binding complex 1 is vital for trypanosome RNA editing. *RNA - A Publication of the RNA Society* 21: 2088-2102.
<http://dx.doi.org/10.1261/rna.052340.115>

Chytry M., Drazil T., Hajek M., Kalnikova V., Preislerova Z., Sibik J., Ujhazy K., Axmanova I., Bernatova D., Blana D., Dancak M., Drevojan P., Fajmon K., Galvanek D., Hajkova P., Herben T., Hrivnak R., Janecek S., Janisova M., Jiraska S., Kliment J., Kochjarova J., **Lepš J. KBO**, Leskovjanska A., Merunkova K., Mladek J., Slezak M., Seffer J., Sefferova V., Skodova I., Uhlirova J., Ujhazyova M., Vymazalova M. 2015. The most species-rich plant communities in the Czech Republic and Slovakia (with new world records). *Preslia : časopis České botanické společnosti* 87: 217-278.

Iermak I. UCH, Degtjarik O. UCH, Steffler F., Sieber V., Kutá Smatanová I. UCH 2015.

Crystallization behaviour of glyceraldehyde dehydrogenase from *Thermoplasma acidophilum*. *Acta Crystallographica Section F-Structural Biology and Communications* 71: 1475-1480.

<http://dx.doi.org/10.1107/S2053230X15020270>

Isbell F., Craven D., Connolly J., Loreau M., Schmid B., Beierkuhnlein C., Bezemer T., Bonin C., Bruelheide H., de Luca E., Ebeling A., Griffin J., Guo Q., Hautier Y., Hector A., Jentsch A., Kreyling J., **Lanta V. KBO**, Manning P., Meyer S., Mori A., Naeem S., Niklaus P., Polley H., Reich P., Roscher C., Seabloom E., Smith M., Thakur M., Tilman D., Tracy B., van der Putten W., van Ruijven J., Weigelt A., Weisser W., Wilsey B., Eisenhauer N. 2015. Biodiversity increases the resistance of ecosystem productivity to climate extremes. *Nature* 526: 574-U263. <http://dx.doi.org/10.1038/nature15374>

Ivanova A., **Doležal J. KBO**, Gaertner H., Schweingruber F. 2015. FORTY CENTIMETER LONG TRANSVERSE AND RADIAL SECTIONS CUT FROM FRESH INCREMENT CORES. *IAWA Journal* 36: 460-463. <http://dx.doi.org/10.1163/22941932-20150115>

Jan J. KBE, Borovec J., Kopacek J., Hejzlar J. 2015. Assessment of phosphorus associated with Fe and Al (hydr)oxides in sediments and soils. *Journal of Soils and Sediments* 15: 1620-1629. <http://dx.doi.org/10.1007/s11368-015-1119-1>

Janecek S., Bartuskova A., **Bartoš M. KBO**, Altman J., De Bello F. **KBO**, **Doležal J. KBO**, Latzel V., **Lanta V. KBO**, **Lepš J. KBO**, Klimesova J. 2015. Effects of disturbance regime on carbohydrate reserves in meadow plants. *AoB Plants* 7: nestránkováno. <http://dx.doi.org/10.1093/aobpla/plv123>

Jaška P. KZO, **Linhart P. KZO**, **Fuchs R. KZO** 2015. Neighbour recognition in two sister songbird species with a simple and complex repertoire - a playback study. *Journal of Avian Biology* 46: 151-158. <http://dx.doi.org/10.1111/jav.00482>

Javanbakht H., **Kvičerová J. KPA**, Dvorakova N., Mikulicek P., Sharifi M., Kautman M., Marsikova A., Siroky P. 2015. Phylogeny, Diversity, Distribution, and Host Specificity of *Haemoproteus* spp. (Apicomplexa: Haemosporida: Haemoproteidae) of Palearctic Tortoises. *Journal of Eukaryotic Microbiology* 62: 670-678. <http://dx.doi.org/10.1111/jeu.12227>

Jelínek P. UFY, Srivastava A., Murawski K., Kayshap P., Dwivedi B. 2015. Spectroscopic observations and modelling of impulsive Alfvén waves along a polar coronal jet. *Astronomy & Astrophysics* 581: nestránkováno. <http://dx.doi.org/10.1051/0004-6361/201424234>

Jelínek P. UFY, Karlicky M., Murawski K. 2015. ELECTRIC CURRENT FILAMENTATION AT A NON-POTENTIAL MAGNETIC NULL-POINT DUE TO PRESSURE PERTURBATION. *Astrophysical Journal* 812: nestránkováno. <http://dx.doi.org/10.1088/0004-637X/812/2/105>

Jersáková J. KBE, Traxmandlova I., **Ipser Z. KBE**, Kropf M., Pellegrino G., Schatz B., Djordjevic V., Kindlmann P., Renner S. 2015. Biological flora of Central Europe: *Dactylorhiza sambucina* (L.) Soo. *Perspectives in Plant Ecology, Evolution and Systematics* 17: 318-329. <http://dx.doi.org/10.1016/j.ppees.2015.04.002>

Jílková V., **Píček T. KBE**, Frouz J. 2015. Seasonal changes in methane and carbon dioxide flux in wood ant (*Formica aquilonia*) nests and the surrounding forest soil. *Pedobiologia* 58: 7-12. <http://dx.doi.org/10.1016/j.pedobi.2014.12.001>

Jindra M., Uhlířova M., Charles J., **Smýkal V. KMB**, Hill R. 2015. Genetic Evidence for Function of the bHLH-PAS Protein Gce/Met As a Juvenile Hormone Receptor. *PLoS Genetics* 11: nestránkováno. <http://dx.doi.org/10.1371/journal.pgen.1005394>

Johanidesova E., Fajmon K., Jongepierova I., **Prach K. KBO** 2015. Spontaneous colonization of restored dry grasslands by target species: restoration proceeds beyond sowing regional seed mixtures. *Grass and Forage Science* 70: 631-638. <http://dx.doi.org/10.1111/gfs.12144>

Junker M., Zimmermann M., Ramos A., Gros P., **Konvička M. KZO**, Neve G., Rakosy L., Tammaru T., Castilho R., Schmitt T. 2015. Three in One-Multiple Faunal Elements within an Endangered European

Butterfly Species. PLoS One 10: nestránkováno. <http://dx.doi.org/10.1371/journal.pone.0142282>

Kalová J. UMB, Mares R. 2015. Size Dependences of Surface Tension. International Journal of Thermophysics 36: 2862-2868. <http://dx.doi.org/10.1007/s10765-015-1851-1>

Kalová J. UMB, Mares R. 2015. Reference Values of Surface Tension of Water. International Journal of Thermophysics 36: 1396-1404. <http://dx.doi.org/10.1007/s10765-015-1907-2>

Kaňa J. KBE, Tahovská K. KBE, Kopáček J. KBE, Šantrůčková H. KBE 2015. Excess of Organic Carbon in Mountain Spruce Forest Soils after Bark Beetle Outbreak Altered Microbial N Transformations and Mitigated N-Saturation. PLoS One 10: nestránkováno. <http://dx.doi.org/10.1371/journal.pone.0134165>

Kanuch P., Aghova T., Meheretu Y., **Šumbera R. KZO**, Bryja J. 2015. New discoveries on the ecology and echolocation of the heart-nosed bat *Cardiomyotis cor* with a contribution to the phylogeny of Megadermatidae. African Zoology 50: 53-57. <http://dx.doi.org/10.1080/15627020.2015.1021711>

Kaštovská E. KBE, Edwards KR. KBE, Píček T. KBE, Šantrůčková H. KBE 2015. A larger investment into exudation by competitive versus conservative plants is connected to more coupled plant-microbe N cycling. Biogeochemistry 122: 47-59. <http://dx.doi.org/10.1007/s10533-014-0028-5>

Kelemen A., Lazzaro L., Besnyoi V., Albert A., **Konečná M. KBO**, Dobay G., Memelink I., **Adamec V. KBO**, Goetzenberger L., De **Bello F. KBO**, **Pinguet Y. KBO**, **Lepš J. KBO** 2015. Net outcome of competition and facilitation in a wet meadow changes with plant's life stage and community productivity. Preslia : časopis České botanické společnosti 87: 347-361.

Kesan G. UFY, Durchan M. UFY, Tichý J. UFY, Minofar B. UFY, Kuznetsova V. UFY, Fuciman M. UFY, Šlouf V. UFY, Parlak C., Polívka T. UFY 2015. Different Response of Carbonyl Carotenoids to Solvent Proticity Helps To Estimate Structure of the Unknown Carotenoid from *Chromera velia*. Journal of Physical Chemistry B 119: 12653-12663. <http://dx.doi.org/10.1021/acs.jpccb.5b08152>

Klečková I. KZO, Vrba P. KZO, Konvička M. KZO 2015. Quantitative evidence for spatial variation in the biennial life cycle of the mountain butterfly *Erebia euryale* (Lepidoptera: Nymphalidae) in the Czech Republic. European Journal of Entomology 112: 114-119.

Klečková I. KZO, Cesanek M., Faltýnek **Fric Z. KZO**, Pellissier L. 2015. Diversification of the cold-adapted butterfly genus *Oeneis* related to Holarctic biogeography and climatic niche shifts. Molecular Phylogenetics and Evolution 92: 255-265. <http://dx.doi.org/10.1016/j.ympev.2015.06.012>

Klein M., Bruehl T., Staudt V., Reuter S., Grebe N., Gerlitzki B., Hoffmann M., Bohn T., Ulges A., Stergiou N., De Graaf J., Loewer M., Taube C., Becker M., Hain T., Dietzen S., Stassen M., Huber M., Lohoff M., Chagas A., Andersen J., Kotal J., **Langhansová H. KME, Kopecký J. KME**, Schild H., Kotsyfakis M., Schmitt E., Bopp T. 2015. Tick Salivary Sialostatin L Represses the Initiation of Immune Responses by Targeting IRF4-Dependent Transcription in Murine Mast Cells. Journal of Immunology 195: 621-631. <http://dx.doi.org/10.4049/jimmunol.1401823>

Klimeš P. KZO, Fibich P. KBO, Idigel C., Rimandai M. 2015. Disentangling the Diversity of Arboreal Ant Communities in Tropical Forest Trees. PLoS One 10: nestránkováno. <http://dx.doi.org/10.1371/journal.pone.0117853>

Klimeš P. KZO, Okrouhlík J. KFZ 2015. Invasive ant *Tapinoma melanocephalum* (Hymenoptera: Formicidae): A rare guest or increasingly common indoor pest in Europe?. European Journal of Entomology 112: 705-712. <http://dx.doi.org/10.14411/eje.2015.089>

Kobelkova A., Závodská R., **Šauman I. KMB, Bazalová O. KMB, Doležel D. KMB** 2015. Expression of Clock Genes period and timeless in the Central Nervous System of the Mediterranean Flour Moth, *Ephestia kuehniella*. Journal of Biological Rhythm 30: 104-116. <http://dx.doi.org/10.1177/0748730414568430>

Koblížek M. UCH, Moulisova V., Muronova M., **Oborník M. KMB** 2015. Horizontal transfers of two types of puf operons among phototrophic members of the Roseobacter clade. Folia Microbiologica 60: 37-

43. <http://dx.doi.org/10.1007/s12223-014-0337-z>

Koblížek M. UCH 2015. Ecology of aerobic anoxygenic phototrophs in aquatic environments. *FEMS Microbiology Reviews* 39: 854-870. <http://dx.doi.org/10.1093/femsre/fuv032>

Kodádková A. KPA, Bartosova-Sojkova P., Holzer A., Fiala I. 2015. *Bipteria vetusta* n. sp - an old parasite in an old host: tracing the origin of myxosporean parasitism in vertebrates. *International Journal for Parasitology* 45: 269-276. <http://dx.doi.org/10.1016/j.ijpara.2014.12.004>

Kodrík D. KFZ, Staskova T., Jedlickova V., **Weyda F. KME**, Závodská R., Pfliegerova J. 2015. Molecular characterization, tissue distribution, and ultrastructural localization of adipokinetic hormones in the CNS of the firebug *Pyrrhocoris apterus* (Heteroptera, Insecta). *General and Comparative Endocrinology* 210: 1-11. <http://dx.doi.org/10.1016/j.ygcen.2014.10.014>

Kodrík D. KFZ, **Bednářová A. KFZ**, **Zemanová M. KFZ**, Krishnan N. 2015. Hormonal Regulation of Response to Oxidative Stress in Insects-An Update. *International Journal of Molecular Sciences* 16: 25788-25816. <http://dx.doi.org/10.3390/ijms161025788>

Kolar F., Kaplan Z., Suda J., **Štech M. KBO** 2015. Populations of *Knautia* in ecologically distinct refugia on the Hercynian massif belong to two endemic species. *Preslia : časopis České botanické společnosti* 87: 363-386.

Kolesik P., **Butterill P. KZO** 2015. New gall midges (Diptera: Cecidomyiidae) from Papua New Guinea. *Austral Entomology* 54: 79-86. <http://dx.doi.org/10.1111/aen.12095>

Koloniuk I., **Hrabáková L. KGN**, Petrzik K. 2015. Molecular characterization of a novel amalgavirus from the entomopathogenic fungus *Beauveria bassiana*. *Archives of Virology* 160: 1585-1588. <http://dx.doi.org/10.1007/s00705-015-2416-0>

Komárek J. KBO, Genuario D., Fiore M., **Elster J. Centrum polární ekologie** 2015. Heterocytous cyanobacteria of the Ulu Peninsula, James Ross Island, Antarctica. *Polar Biology* 38: 475-492. <http://dx.doi.org/10.1007/s00300-014-1609-4>

Konečná M. KZO, Urlacher S. 2015. Effect of chewing betel nut (*Areca catechu*) on salivary cortisol measurement. *American Journal of Physical Anthropology* 158: 151-154. <http://dx.doi.org/10.1002/ajpa.22766>

Kopáček J. KBE, Bicarova S., Hejzlar J., Hynstova M., Kana J., Mitosinkova M., Porcal P., Stuchlik E., Turek J. 2015. Catchment biogeochemistry modifies long-term effects of acidic deposition on chemistry of mountain lakes. *Biogeochemistry* 125: 315-335. <http://dx.doi.org/10.1007/s10533-015-0127-y>

Kopáček J. KBE, Cudlin P., **Fluksová H. KBE**, Kana J., **Picek T. KBE**, **Šantrůčková H. KBE**, Svoboda M., **Vaněk D. KBE** 2015. Dynamics and composition of litterfall in an unmanaged Norway spruce (*Picea abies*) forest after bark-beetle outbreak. *Boreal Environment Research* 20: 305-323.

Kopáček J. KBE, Hejzlar J., Kana J., Norton S., Stuchlik E. 2015. Effects of Acidic Deposition on in-Lake Phosphorus Availability: A Lesson from Lakes Recovering from Acidification. *Environmental Science & Technology* 49: 2895-2903. <http://dx.doi.org/10.1021/es5058743>

Kopečna J., Cabeza de Vaca I., Adams N., Davison P., Brindley A., Hunter C., Guallar V., **Sobotka R. KMB**, **UCH** 2015. Porphyrin Binding to Gun4 Protein, Facilitated by a Flexible Loop, Controls Metabolite Flow through the Chlorophyll Biosynthetic Pathway. *Journal of Biological Chemistry* 290: 28477-28488. <http://dx.doi.org/10.1074/jbc.M115.664987>

Kopečná J. UCH, Pilny J., **Krynická V. UCH**, **Tomčala A. KFZ**, Kis M., Gombos Z., **Komenda J. UCH**, **Sobotka R. KMB**, **UCH** 2015. Lack of Phosphatidylglycerol Inhibits Chlorophyll Biosynthesis at Multiple Sites and Limits Chlorophyllide Reutilization in *Synechocystis* sp Strain PCC 6803. *Plant Physiology* 169: 1307-1317. <http://dx.doi.org/10.1104/pp.15.01150>

Kotál J. KMB, **Langhansová H. KME**, **Lieskovská J. KME**, Andersen J., Francischetti I., Chavakis T.,

- Kopecký J. KME**, Pedra J., Kotsyfakis M., **Chmelař J. KME** 2015. Modulation of host immunity by tick saliva. *Journal of Proteomics* 128: 58-68. <http://dx.doi.org/10.1016/j.jprot.2015.07.005>
- Koubová A. KBE**, Chronakova A., Pizl V., Angel Sanchez-Monedero M., Elhottova D. 2015. The effects of earthworms *Eisenia* spp. on microbial community are habitat dependent. *European Journal of Soil Biology* 68: 42-55. <http://dx.doi.org/10.1016/j.ejsobi.2015.03.004>
- Koutecký P. KBO** 2015. MorphoTools: a set of R functions for morphometric analysis. *Plant Systematics and Evolution* 301: 1115-1121. <http://dx.doi.org/10.1007/s00606-014-1153-2>
- Kovářová L. UAI**, Viertl R. 2015. THE GENERATION OF FUZZY SETS AND THE CONSTRUCTION OF CHARACTERIZING FUNCTIONS OF FUZZY DATA. *Iranian Journal of Fuzzy Systems* 12: 1-16.
- Kozminsky E., Kraeva N., Ishemgulova A., Dobakova E., **Lukeš J. KMB**, Kment P., Yurchenko V., Votypka J., Maslov D. 2015. Host-specificity of Monoxenous Trypanosomatids: Statistical Analysis of the Distribution and Transmission Patterns of the Parasites from Neotropical Heteroptera. *Protist* 166: 551-568. <http://dx.doi.org/10.1016/j.protis.2015.08.004>
- Kraeva N., Butenko A., Hlavacova J., Kostygov A., Myskova J., Grybchuk D., Lestinova T., Votypka J., Volf P., Opperdoes F., Flegontov P., **Lukeš J. KMB**, Yurchenko V. 2015. *Leptomonas seymouri*: Adaptations to the Dixenous Life Cycle Analyzed by Genome Sequencing, Transcriptome Profiling and Co-infection with *Leishmania donovani*. *PLoS Pathogens* 11: nestránkováno. <http://dx.doi.org/10.1371/journal.ppat.1005127>
- Krottenthaler S., Pitsch P., Helle G., Locosselli G., Ceccantini G., **Altman J. KBO**, Svoboda M., **Doležal J. KBO**, Schleser G., Anhof D. 2015. A power-driven increment borer for sampling high-density tropical wood. *DENDROCHRONOLOGIA* 36: 40-44. <http://dx.doi.org/10.1016/j.dendro.2015.08.005>
- Kroutil O. UFY**, Chval Z., Skelton A., **Předota M. UFY** 2015. Computer Simulations of Quartz (101)-Water Interface over a Range of pH Values. *Journal of Physical Chemistry C* 119: 9274-9286. <http://dx.doi.org/10.1021/acs.jpcc.5b00096>
- Krueck T., Korandova M., Sery M., Frydrychova R., **Szakosová K. KGN** 2015. EFFECT OF LOW DOSES OF HERBICIDE PARAQUAT ON ANTIOXIDANT DEFENSE IN *Drosophila*. *Archives of Insect Biochemistry and Physiology* 88: 235-248. <http://dx.doi.org/10.1002/arch.21222>
- Krynická V. UCH**, Shao S., Nixon P., **Komenda J. UCH** 2015. Accessibility controls selective degradation of photosystem II subunits by FtsH protease. *Nature Plants* 1: nestránkováno. <http://dx.doi.org/10.1038/NPLANTS.2015.168>
- Křivan V. UMB**, Priyadarshi A. 2015. L-shaped prey isocline in the Gause predator-prey experiments with a prey refuge. *Journal of Theoretical Biology* 370: 21-26. <http://dx.doi.org/10.1016/j.jtbi.2015.01.021>
- Křivan V. UMB**, Jana D. 2015. Effects of animal dispersal on harvesting with protected areas. *Journal of Theoretical Biology* 364: 131-138. <http://dx.doi.org/10.1016/j.jtbi.2014.09.010>
- Kučera T. KBE**, **Kloubcová P. KBE**, **Veselý P. KZO** 2015. Diverse vegetation in a spa town supports human social benefits of urban birds. *Biodiversity and Conservation* 24: 3329-3346. <http://dx.doi.org/10.1007/s10531-015-0974-9>
- Kulik N., Slamova K., **Ettrich R. UCH**, Kren V. 2015. Computational study of beta-N-acetylhexosaminidase from *Talaromyces flavus*, a glycosidase with high substrate flexibility. *BMC Bioinformatics* 16: nestránkováno. <http://dx.doi.org/10.1186/s12859-015-0465-8>
- Kumar CSC., Parlak C., Tursun M., Fun H., Rhyman L., Ramasami P., Alswaidan I., **Kesan G. UFY**, Chandraju S., Quah C. 2015. 3-Iodobenzaldehyde: XRD FT-IR, Raman and DFT studies. *Spectrochimica Acta Part A-Molecular and Biomolecular Spectroscopy* 145: 90-97. <http://dx.doi.org/10.1016/j.saa.2015.02.079>

- Kumordzi B., De **Bello F. KBO**, Freschet G., **Pinguet Y. KBO**, **Lepš J. KBO**, Wardle D. 2015. Linkage of plant trait space to successional age and species richness in boreal forest understorey vegetation. *Journal of Ecology* 103: 1610-1620. <http://dx.doi.org/10.1111/1365-2745.12458>
- Kust A. KBE**, **Zapomělová E. KBO**, **Mareš J. KBO**, Rehakova K. 2015. A detailed morphological, phylogenetic and ecophysiological analysis of four benthic *Anabaena* (Nostocales, Cyanobacteria) strains confirms deep heterogeneity within the genus. *Fottea* 15: 191-202. <http://dx.doi.org/10.5507/fot.2015.019>
- Laanisto L., Sammuli M., Kull T., **Macek P. CPE**, Hutchings M. 2015. Trait-based analysis of decline in plant species ranges during the 20th century: a regional comparison between the UK and Estonia. *Global Change Biology* 21: 2726-2738. <http://dx.doi.org/10.1111/gcb.12887>
- Langhansová H. KME**, Bopp T., Schmitt E., **Kopecký J. KME** 2015. Tick saliva increases production of three chemokines including monocyte chemoattractant protein-1, a histamine-releasing cytokine. *Parasite Immunology* 37: 92-96. <http://dx.doi.org/10.1111/pim.12168>
- Lanta V. KBO**, Kantorova J. 2015. Niche Separation of two Grass Species along a Moisture Gradient in a Post-Mined Peatland. *Wetlands* 35: 923-929. <http://dx.doi.org/10.1007/s13157-015-0683-x>
- Lepší M. KBO**, Lepsi P., **Koutecký P. KBO**, Bila J., Vit P. 2015. Taxonomic revision of *Sorbus* subgenus *Aria* occurring in the Czech Republic. *Preslia : časopis České botanické společnosti* 87: 109-162.
- Levy E., Putnova L., Stohl R., Svobodova K., Matouskova J., **Robovský J. KZO**, Lamka J., Vrtkova I., Ernst M. 2015. Utility of several microsatellite markers for the genetic characterisation of three ex situ populations of threatened caprine taxa (*Capra aegagrus*, *C. cylindricornis* and *C. falconeri*). *Archives Animal Breeding* 58: nestránkováno. <http://dx.doi.org/10.5194/aab-58-365-2015>
- Lieskovská J. KME**, **Páleníková J. KME**, **Langhansová H. KME**, Chagas A., Calvo E., Kotsyfakis M., **Kopecký J. KME** 2015. Tick sialostatin L and L2 differentially influence dendritic cell responses to *Borrelia spirochetes*. *Parasites & Vectors* 8: nestránkováno. <http://dx.doi.org/10.1186/s13071-015-0887-1>
- Lieskovská J. KME**, **Páleníková J. KME**, Sirmarova J., **Elsterová J. KME**, Kotsyfakis M., Chagas A., Calvo E., **Růžek D. KME**, **Kopecký J. KME** 2015. Tick salivary cystatin sialostatin L2 suppresses IFN responses in mouse dendritic cells. *Parasite Immunology* 37: 70-78. <http://dx.doi.org/10.1111/pim.12162>
- Ligare M., Rijs A., Berden G., **Kabeláč M. UCH**, Nachtigallova D., Oomens J., de Vries M. 2015. Resonant Infrared Multiple Photon Dissociation Spectroscopy of Anionic Nucleotide Monophosphate Clusters. *Journal of Physical Chemistry B* 119: 7894-7901. <http://dx.doi.org/10.1021/acs.jpcc.5b02222>
- Lin R., Lai D., Zheng L., Wu J., **Lukeš J. KMB**, Hide G., Lun Z. 2015. Analysis of the mitochondrial maxicircle of *Trypanosoma lewisi*, a neglected human pathogen. *Parasites & Vectors* 8: nestránkováno. <http://dx.doi.org/10.1186/s13071-015-1281-8>
- Linhart P. KZO**, **Fuchs R. KZO** 2015. Song pitch indicates body size and correlates with males' response to playback in a songbird. *Animal Behaviour* 103: 91-98. <http://dx.doi.org/10.1016/j.anbehav.2015.01.038>
- Liskova V., Bednar D., **Prudnikova T. UCH**, Rezacova P., Koudelakova T., Sebestova E., **Kutá Smatanová I. UCH**, Brezovsky J., Chaloupkova R., Damborsky J. 2015. Balancing the Stability-Activity Trade-Off by Fine-Tuning Dehalogenase Access Tunnels. *ChemCatChem* 7: 648-659. <http://dx.doi.org/10.1002/cctc.201402792>
- Losev A., Grybchuk-Ieremenko A., Kostygov A., **Lukeš J. KMB**, Yurchenko V. 2015. Host specificity, pathogenicity, and mixed infections of trypanoplasms from freshwater fishes. *Parasitology Research* 114: 1071-1078. <http://dx.doi.org/10.1007/s00436-014-4277-y>
- Lososova Z., De **Bello F. KBO**, Chytry M., Kuehn I., Pysek P., Sadlo J., Winter M., Zeleny D. 2015. Alien plants invade more phylogenetically clustered community types and cause even stronger clustering. *Global Ecology and Biogeography* 24: 786-794. <http://dx.doi.org/10.1111/geb.12317>

- Lóvy M. KZO, Šklíba J. KZO, Hrouzková E. KZO, Dvořáková V. KZO, Nevo E., Šumbera R. KZO** 2015. Habitat and Burrow System Characteristics of the Blind Mole Rat *Spalax galili* in an Area of Supposed Sympatric Speciation. *PLoS One* 10: nestránkováno. <http://dx.doi.org/10.1371/journal.pone.0133157>
- Lukeš J. KMB, Basu S. KMB** 2015. Fe/S protein biogenesis in trypanosomes - A review. *Biochimica et Biophysica Acta-Molecular Cell Research* 1853: 1481-1492. <http://dx.doi.org/10.1016/j.bbamcr.2014.08.015>
- Lukeš J. KMB**, Stensvold C., Jirku-Pomajbikova K., Parfrey L. 2015. Are Human Intestinal Eukaryotes Beneficial or Commensals?. *PLoS Pathogens* 11: nestránkováno. <http://dx.doi.org/10.1371/journal.ppat.1005039>
- Mahdy A., Hilt S., Filiz N., Beklioglu M., Hejzlar J., Ozkundakci D., Papastergiadou E., Scharfenberger U., **Šorf M. KBE**, Stefanidis K., Tuvikene L., Zingel P., Sondergaard M., Jeppesen E., Adrian R. 2015. Effects of water temperature on summer periphyton biomass in shallow lakes: a pan-European mesocosm experiment. *Aquatic Sciences* 77: 499-510. <http://dx.doi.org/10.1007/s00027-015-0394-7>
- Machesky M., **Předota M. UFY**, Ridley M., Wesolowski D. 2015. Constrained Surface Complexation Modeling: Rutile in RbCl, NaCl, and NaCF₃SO₃ Media to 250 degrees C. *Journal of Physical Chemistry C* 119: 15204-15215. <http://dx.doi.org/10.1021/acs.jpcc.5b02841>
- Mapua M., Qablan M., Pomajbikova K., Petrzalkova K., Huzova Z., Radrova J., Votypka J., Todd A., **Jirků M. KMB**, Leendertz F., **Lukeš J. KMB**, Neel C., Modry D. 2015. Ecology of malaria infections in western lowland gorillas inhabiting Dzanga Sangha Protected Areas, Central African Republic. *Parasitology* 142: 890-900. <http://dx.doi.org/10.1017/S0031182015000086>
- Kalová J. UMB** 2015. Some notes on surface tension measurements of supercooled water. In Dancova, Vit, *EPJ Web of Conferences*. Les Ulis Cedex : EDP Sciences, s. nestránkováno. <http://dx.doi.org/10.1051/epjconf/20159202050>
- Mareš J. KBO**, Lara Y., Dadakova I., **Hauer T. KBO**, Uher B., Wilmotte A., **Kaštovský J. KBO** 2015. PHYLOGENETIC ANALYSIS OF CULTIVATION-RESISTANT TERRESTRIAL CYANOBACTERIA WITH MASSIVE SHEATHS (STIGONEMA SPP. AND PETALONEMA ALATUM, NOSTOCALES, CYANOBACTERIA) USING SINGLE-CELL AND FILAMENT SEQUENCING OF ENVIRONMENTAL SAMPLES. *Journal of Phycology* 51: 288-297. <http://dx.doi.org/10.1111/jpy.12273>
- Mariani M., Padedda B., **Kaštovský J. KBO**, Buscarinu P., Sechi N., Viridis T., Luglie A. 2015. Effects of trophic status on microcystin production and the dominance of cyanobacteria in the phytoplankton assemblage of Mediterranean reservoirs. *Scientific Reports* 5: nestránkováno. <http://dx.doi.org/10.1038/srep17964>
- Martinů J. KPA, Roubová V. KZO**, Novakova M., Smith V., **Hypša V. KPA, Štefka J. KPA** 2015. Characterisation of microsatellite loci in two species of lice, *Polyplax serrata* (Phthiraptera: Anoplura: Polyplacidae) and *Myrsidea nesomimi* (Phthiraptera: Amblycera: Menoponidae). *Folia Parasitologica* 62: nestránkováno. <http://dx.doi.org/10.14411/fp.2015.016>
- Martinů J. KPA**, Sychra O., Literak I., Capek M., Gustafsson D., **Štefka J. KPA** 2015. Host generalists and specialists emerging side by side: an analysis of evolutionary patterns in the cosmopolitan chewing louse genus *Menacanthus*. *International Journal for Parasitology* 45: 63-73. <http://dx.doi.org/10.1016/j.ijpara.2014.09.001>
- McDonough M., **Šumbera R. KZO, Mazoch V. KZO**, Ferguson A., Phillips C., Bryja J. 2015. Multilocus phylogeography of a widespread savanna-woodland-adapted rodent reveals the influence of Pleistocene geomorphology and climate change in Africa's Zambezi region. *Molecular Ecology* 24: 5248-5266. <http://dx.doi.org/10.1111/mec.13374>
- Meheretu Y., **Šumbera R. KZO**, Bryja J. 2015. Enigmatic Ethiopian endemic rodent *Muriculus imberbis*

(Ruppell 1842) represents a separate lineage within genus *Mus*. *Mammalia* 79: 15-23.
<http://dx.doi.org/10.1515/mammalia-2013-0119>

Melian C., **Křivan V. UMB**, Altermatt F., Stary P., Pellissier L., De Laender F. 2015. Dispersal Dynamics in Food Webs. *American Naturalist* 185: 157-168. <http://dx.doi.org/10.1086/679505>

Mendoza Palmero C. KPA, Blasco-Costa I., **Scholz T. KPA** 2015. Molecular phylogeny of Neotropical monogeneans (Platyhelminthes: Monogenea) from catfishes (Siluriformes). *Parasites & Vectors* 8: nestránkováno. <http://dx.doi.org/10.1186/s13071-015-0767-8>

Mihajlović A. KMB, **Thamodaran V. KMB**, **Bruce A. KMB** 2015. The first two cell-fate decisions of preimplantation mouse embryo development are not functionally independent. *Scientific Reports* 5: nestránkováno. <http://dx.doi.org/10.1038/srep15034>

Mocq JH. KBE, St-Hilaire A., Cunjak R. 2015. Influences of Experts' Personal Experiences in Fuzzy Logic Modeling of Atlantic Salmon Habitat. *North American Journal of Fisheries Management* 35: 271-280. <http://dx.doi.org/10.1080/02755947.2014.996684>

Morger J., Raberg L., Hille S., Helsen S., **Štefka J. KPA**, Al-Sabi M., Kapel C., Mappes T., Essbauer S., Ulrich R., Bartolommei P., Mortelliti A., Balciauskas L., van den Brink N., Remy A., Bajer A., Cheprakov M., Korva M., Garcia-Perez A., Biek R., Withenshaw S., Tschirren B. 2015. Distinct haplotype structure at the innate immune receptor Toll-like receptor 2 across bank vole populations and lineages in Europe. *Biological Journal of the Linnean Society* 116: 124-133. <http://dx.doi.org/10.1111/bij.12593>

Musilova Z., **Říčan O. KZO**, **Říčanová Š. KZO**, Jansta P., Gahura O., Novák J. 2015. Phylogeny and historical biogeography of trans-Andean cichlid fishes (Teleostei: Cichlidae). *Vertebrate Zoology* 65: 333-350.

Nana E., Sedlacek O., **Doležal J. KBO**, Dancak M., Altman J., Svoboda M., Majesky L., Horak D. 2015. Relationship between Survival Rate of Avian Artificial Nests and Forest Vegetation Structure along a Tropical Altitudinal Gradient on Mount Cameroon. *Biotropica* 47: 758-764.
<http://dx.doi.org/10.1111/btp.12262>

Němec M. KZO, **Syrová M. KZO**, Dokoupilova L., **Veselý P. KZO**, **Šmilauer P. KBE**, Landova E., Liskova S., **Fuchs R. KZO** 2015. Surface texture and priming play important roles in predator recognition by the red-backed shrike in field experiments. *Animal Cognition* 18: 259-268.
<http://dx.doi.org/10.1007/s10071-014-0796-2>

Neumann P., **Pavlíková Z. KMB**, Koblizkova A., Fukova I., Jedlickova V., Novak P., Macas J. 2015. Centromeres Off the Hook: Massive Changes in Centromere Size and Structure Following Duplication of CenH3 Gene in Fabeae Species. *Molecular Biology and Evolution* 32: 1862-1879.
<http://dx.doi.org/10.1093/molbev/msv070>

Novák J. LAPE, Svoboda J., Sida P., Prostednik J., Pokorny P. 2015. A charcoal record of Holocene woodland succession from sandstone rock shelters of North Bohemia (Czech Republic). *Quaternary International* 366: 25-36. <http://dx.doi.org/10.1016/j.quaint.2014.08.042>

Novak M., Gebauer G., Thoma M., Curik J., Stepanova M., Jackova I., Buzek F., **Bárta J. KBE**, **Šantrůčková H. KBE**, Fottova D., Kubena A. 2015. Denitrification at two nitrogen-polluted, ombrotrophic Sphagnum bogs in Central Europe: Insights from porewater N₂O-isotope profiles. *Soil Biology & Biochemistry* 81: 48-57. <http://dx.doi.org/10.1016/j.soilbio.2014.10.021>

Nováková E. KPA, **Husník F. KPA**, **Šochová E. KPA**, **Hypša V. KPA** 2015. Arsenophonus and Sodalis Symbionts in Louse Flies: an Analogy to the Wigglesworthia and Sodalis System in Tsetse Flies. *Applied and Environmental Microbiology* 81: 6189-6199. <http://dx.doi.org/10.1128/AEM.01487-15>

Novotný D. KZO, **Zapletal M. KZO**, **Kepka P. KZO**, Beneš J., **Konvička M. KZO** 2015. Large moths captures by a pest monitoring system depend on farmland heterogeneity. *Journal of Applied Entomology* 139: 390-400. <http://dx.doi.org/10.1111/jen.12185>

- Oborník M. KMB, Lukeš J. KMB** 2015. The Organellar Genomes of Chromera and Vitrella, the Phototrophic Relatives of Apicomplexan Parasites. *Annual Review of Microbiology* 69: 129-144. <http://dx.doi.org/10.1146/annurev-micro-091014-104449>
- Okrouhlík J. KFZ, Foltan P. KZO** 2015. Evaluation of the diet of a carabid predator using fluorescent marking of prey. *European Journal of Entomology* 112: 477-485. <http://dx.doi.org/10.14411/eje.2015.054>
- Okrouhlík J. KFZ, Burda H., Kunc P., Knizkova I., Šumbera R. KZO** 2015. Surprisingly low risk of overheating during digging in two subterranean rodents. *Physiology & Behavior* 138: 236-241. <http://dx.doi.org/10.1016/j.physbeh.2014.10.029>
- Osudar R., **Matoušů A. KBE**, Alawi M., Wagner D., Bussmann I. 2015. Environmental factors affecting methane distribution and bacterial methane oxidation in the German Bight (North Sea). *Estuarine, Coastal and Shelf Science* 160: 10-21. <http://dx.doi.org/10.1016/j.ecss.2015.03.028>
- Páleníková J. KME, Lieskovská J. KME, Langhansová H. KME, Kotsyfakis M., Chmelař J. KME, Kopecký J. KME** 2015. Ixodes ricinus Salivary Serpin IRS-2 Affects Th17 Differentiation via Inhibition of the Interleukin-6/STAT-3 Signaling Pathway. *Infection and Immunity* 83: 1949-1956. <http://dx.doi.org/10.1128/IAI.03065-14>
- Palus M. KME, Formanova P., Salat J., Zampachova E., Elsterová J. KME, Růžek D. KME** 2015. Analysis of Serum Levels of Cytokines, Chemokines, Growth Factors, and Monoamine Neurotransmitters in Patients With Tick-borne Encephalitis: Identification of Novel Inflammatory Markers With Implications for Pathogenesis. *Journal of Medical Virology* 87: 885-892. <http://dx.doi.org/10.1002/jmv.24140>
- Paudel P. KBE, Hais M. KBE, Kindlmann P.** 2015. Habitat suitability models of mountain ungulates: identifying potential areas for conservation. *Zoological Studies* 54: nestránkováno. <http://dx.doi.org/10.1186/s40555-015-0116-9>
- Pech P., Dolansky J., Hrdlicka R., **Lepš J. KBO** 2015. Differential response of communities of plants, snails, ants and spiders to long-term mowing in a small-scale experiment. *Community Ecology* 16: 115-124. <http://dx.doi.org/10.1556/168.2015.16.1.13>
- Pellegrino I., Negri A., Boano G., Cucco M., Kristensen T., Pertoldi C., Randi E., **Šálek M. KZO, Mucci N.** 2015. Evidence for strong genetic structure in European populations of the little owl *Athene noctua*. *Journal of Avian Biology* 46: 462-475. <http://dx.doi.org/10.1111/jav.00679>
- Pena C., Witthauer H., **Klečková I. KZO, Faltýnek Fric Z. KZO, Wahlberg N.** 2015. Adaptive radiations in butterflies: evolutionary history of the genus *Erebia* (Nymphalidae: Satyrinae). *Biological Journal of the Linnean Society* 116: 449-467. <http://dx.doi.org/10.1111/bij.12597>
- Peng Y., **Macek P. CPE**, Mackova J., Romoleroux K., Hensen I. 2015. Clonal Diversity and Fine-scale Genetic Structure in a High Andean Treeline Population. *Biotropica* 47: 59-65. <http://dx.doi.org/10.1111/btp.12175>
- Perez **Carmona C. KBO**, Rota C., Azcarate F., Peco B. 2015. More for less: sampling strategies of plant functional traits across local environmental gradients. *Functional Ecology* 29: 579-588. <http://dx.doi.org/10.1111/1365-2435.12366>
- Pescador D., De **Bello F. KBO**, Valladares F., Escudero A. 2015. Plant Trait Variation along an Altitudinal Gradient in Mediterranean High Mountain Grasslands: Controlling the Species Turnover Effect. *PLoS One* 10: nestránkováno. <http://dx.doi.org/10.1371/journal.pone.0118876>
- Pinguet Y. KBO**, Boerger L., Quero J., Garcia-Gomez M., Soriano S., Maestre F., Gross N. 2015. Traits of neighbouring plants and space limitation determine intraspecific trait variability in semi-arid shrublands. *Journal of Ecology* 103: 1647-1657. <http://dx.doi.org/10.1111/1365-2745.12480>
- Pinseel E., van de Vijver B., **Kopalová K. CPE** 2015. *Achnanthidium petuniabuktianum* sp nov (Achnanthidiaceae, Bacillariophyta), a new representative of the A-pyreanaicum group from Spitsbergen (Svalbard Archipelago, High Arctic). *Phytotaxa* 226: 63-74. <http://dx.doi.org/10.11646/phytotaxa.226.1.6>

- Piston N., Armas C., Schoeb C., **Macek P. CPE**, Pugnaire F. 2015. Phylogenetic distance among beneficiary species in a cushion plant species explains interaction outcome. *Oikos* 124: 1354-1359. <http://dx.doi.org/10.1111/oik.01979>
- Plavsin I., **Stašková T. KFZ**, Šerý M., **Smýkal V. KMB**, Hackenberger B., **Kodřík D. KFZ** 2015. Hormonal enhancement of insecticide efficacy in *Tribolium castaneum*: Oxidative stress and metabolic aspects. *Comparative Biochemistry and Physiology C - Toxicology and Pharmacology* 170: 19-27. <http://dx.doi.org/10.1016/j.cbpc.2015.01.005>
- Pokorny P., Chytrý M., Jurickova L., Sadlo J., **Novák J. LAPE**, Lozek V. 2015. Mid-Holocene bottleneck for central European dry grasslands: Did steppe survive the forest optimum in northern Bohemia, Czech Republic?. *Holocene* 25: 716-726. <http://dx.doi.org/10.1177/0959683614566218>
- Poupardin R., Schoettner K., Korbelova J., **Provazník J. KFZ**, Dolezel D., Pavlinic D., Benes V., Kostal V. 2015. Early transcriptional events linked to induction of diapause revealed by RNAseq in larvae of drosophilid fly, *Chymomyza costata*. *BMC Genomics* 16: nestránkováno. <http://dx.doi.org/10.1186/s12864-015-1907-4>
- Prach K. KBO**, Fajmon K., Jongepierova I., **Řehouňková K. KBO** 2015. Landscape context in colonization of restored dry grasslands by target species. *Applied Vegetation Science* 18: 181-189. <http://dx.doi.org/10.1111/avsc.12140>
- Prach K. KBO**, **Karešová P. KBO**, **Jírová A. KBO**, **Dvořáková H. KBO**, **Konvalinková P. KBO**, **Řehouňková K. KBO** 2015. Do not neglect surroundings in restoration of disturbed sites. *Restoration Ecology* 23: 310-314. <http://dx.doi.org/10.1111/rec.12189>
- Pribylova L., **Berec L. UMB** 2015. Predator interference and stability of predator-prey dynamics. *Journal of Mathematical Biology* 71: 301-323. <http://dx.doi.org/10.1007/s00285-014-0820-9>
- Prochazka A., Dammer J., **Weyda F. KME**, Sopko V., Benes J., Zeman J., Jandejsek I. 2015. Biological object recognition in mu-radiography images. *Journal of Instrumentation* 10: nestránkováno. <http://dx.doi.org/10.1088/1748-0221/10/03/C03023>
- Puza V., **Chundelová D. KGN**, Nermut' J., **Žurovcová M. KGN**, Mracek Z. 2015. Intra-individual variability of ITS regions in entomopathogenic nematodes (Steinernematidae: Nematoda): implications for their taxonomy. *Biocontrol* 60: 547-554. <http://dx.doi.org/10.1007/s10526-015-9664-5>
- Rasmussen H., Dixon K., **Jersáková J. KBE**, **Těšitelová T. KBO** 2015. Germination and seedling establishment in orchids: a complex of requirements. *Annals of Botany* 116: 391-402. <http://dx.doi.org/10.1093/aob/mcv087>
- Rathner A. UCH**, Chandra K., **Rathner P. UCH**, Hornicakova M., Schlagnitweit J., **Kohoutová J. UCH**, **Ettrich R. UCH**, Müller N. 2015. Resonance assignment of PsbP: an extrinsic protein from photosystem II of *Spinacia oleracea*. *Biomolecular NMR Assignments* 9: 341-346. <http://dx.doi.org/10.1007/s12104-015-9606-2>
- Rathner P. UCH**, Rathner A., Hornicakova M., Wohlschlager C., Chandra K., **Kohoutová J. UCH**, **Ettrich R. UCH**, Wimmer R., Müller N. 2015. Solution NMR and molecular dynamics reveal a persistent alpha helix within the dynamic region of PsbQ from photosystem II of higher plants. *PROTEINS : Structure, Function, and Bioinformatics* 83: 1677-1686. <http://dx.doi.org/10.1002/prot.24853>
- Rehakova K., Chronakova A., Kristufek V., Kuchtova B., **Čapková K. KBE**, Scharfen J., **Čapek P. KBE**, **Doležal J. KBO** 2015. Bacterial community of cushion plant *Thylacospermum caespitosum* on elevational gradient in the Himalayan cold desert. *Frontiers in Microbiology* 6: nestránkováno. <http://dx.doi.org/10.3389/fmicb.2015.00304>
- Repka R., **Koutecký P. KBO**, Vahalik P. 2015. *Gymnocalycium campestre* (Cactaceae, Trichocereae), a New Species from Cordoba, Argentina. *Novon* 24: 280-288. <http://dx.doi.org/10.3417/2015007>
- Repka R., **Koutecký P. KBO**, Vahalik P. 2015. A New Subspecies and a New Combination in

Gymnocalycium sutterianum (Cactaceae, Trichocereae) from Argentina. Novon 24: 273-279.
<http://dx.doi.org/10.3417/2015008>

Rodrigues H., Šumbera R. **KZO** 2015. Dental peculiarities in the silvery mole-rat: an original model for studying the evolutionary and biological origins of continuous dental generation in mammals. PeerJ 3: nestránkováno. <http://dx.doi.org/10.7717/peerj.1233>

Roubová V. **KZO**, Konečná M. **KZO**, Šmilauer P. **KBE**, Wallner B. 2015. Whom to Groom and for What? Patterns of Grooming in Female Barbary Macaques (*Macaca sylvanus*). PLoS One 10: nestránkováno. <http://dx.doi.org/10.1371/journal.pone.0117298>

Rozsypal J., Košťál V. **KFZ**, Berkova P., Zahradnickova H., Simek P. 2015. Reprint of: Seasonal changes in the composition of storage and membrane lipids in overwintering larvae of the codling moth, *Cydia pomonella*. Journal of Thermal Biology 54: 20-29. <http://dx.doi.org/10.1016/j.jtherbio.2015.10.007>

Ruzicka V., Zacharda M., Šmilauer P. **KBE**, Kučera T. **KBE** 2015. Can paleorefugia of cold-adapted species in talus slopes resist global warming?. Boreal Environment Research 20: 403-412.

Rychtecký P. **KBE**, Rehakova K., Kozlikova E., Vrba J. **KBE** 2015. Light Availability May Control Extracellular Phosphatase Production in Turbid Environments. Microbial Ecology 69: 37-44.
<http://dx.doi.org/10.1007/s00248-014-0483-5>

Rysanek D., Hřčková K. **KBO**, Skaloud P. 2015. Global ubiquity and local endemism of free-living terrestrial protists: phylogeographic assessment of the streptophyte alga *Klebsormidium*. Environmental Microbiology 17: 689-698. <http://dx.doi.org/10.1111/1462-2920.12501>

Řičánková V. **KZO**, Robovský J. **KZO**, Riegert J. **KZO**, Zrzavý J. **KZO** 2015. Regional patterns of postglacial changes in the Palearctic mammalian diversity indicate retreat to Siberian steppes rather than extinction. Scientific Reports 5: nestránkováno. <http://dx.doi.org/10.1038/srep12682>

Sadilek D., Nguyen P. **KGn**, Koc H., Kovarik F., Yagmur E., Stahlavsky F. 2015. Molecular cytogenetics of *Androctonus* scorpions: an oasis of calm in the turbulent karyotype evolution of the diverse family Buthidae. Biological Journal of the Linnean Society 115: 69-76. <http://dx.doi.org/10.1111/bij.12488>

Sajdlová Z. **KBE**, Drastik V., Juza T., Riha M., Frouzova J., Cech M., Vasek M., Muska M., Blabolil P., Tuser M., Kratochvil M., Peterka J., Mrkvička T., Balk H., Kubecka J. 2015. Fish behaviour in response to a midwater trawl footrope in temperate reservoirs. Fisheries Research 172: 105-113.
<http://dx.doi.org/10.1016/j.fishres.2015.06.025>

Sajwan S., Sidorov R., Stašková T. **KFZ**, Zaloudikova A., Takasu Y., Kodrík D. **KFZ**, Žurovec M. **KGn** 2015. Targeted mutagenesis and functional analysis of adipokinetic hormone-encoding gene in *Drosophila*. Insect Biochemistry and Molecular Biology 61: 79-86. <http://dx.doi.org/10.1016/j.ibmb.2015.01.011>

Salek M., Havlíček J. **KZO**, Riegert J. **KZO**, Nesor M., Fuchs R. **KZO**, Kipson M. 2015. Winter density and habitat preferences of three declining granivorous farmland birds: The importance of the keeping of poultry and dairy farms. Journal for Nature Conservation 24: 10-16.
<http://dx.doi.org/10.1016/j.jnc.2015.01.004>

Salek M., Kučera T. **KBE**, Zimmermann K., Bartuskova I., Plátek M. **KZO**, Grill S. **KBE**, Konvička M. **KZO** 2015. Edges within farmland: Management implications of taxon specific species richness correlates. Basic and Applied Ecology 16: 714-725. <http://dx.doi.org/10.1016/j.baae.2015.08.001>

Sam K. **KZO**, Remmel T., Molleman F. 2015. Material affects attack rates on dummy caterpillars in tropical forest where arthropod predators dominate: an experiment using clay and dough dummies with green colourants on various plant species. Entomologia Experimentalis et Applicata 157: 317-324.
<http://dx.doi.org/10.1111/eea.12367>

Sam K. **KZO**, Koane B., Novotný V. **KZO** 2015. Herbivore damage increases avian and ant predation of caterpillars on trees along a complete elevational forest gradient in Papua New Guinea. Ecography 38: 293-

300. <http://dx.doi.org/10.1111/ecog.00979>

Sample P., **Kořený L. KMB**, Paris Z., Gaston K., Rubio M., Fleming I., Hinger S., **Horáková E. KMB**, Limbach P., **Lukeš J. KMB**, Alfonzo J. 2015. A common tRNA modification at an unusual location: the discovery of wyosine biosynthesis in mitochondria. *Nucleic Acids Research* 43: 4262-4273.

<http://dx.doi.org/10.1093/nar/gkv286>

Sekerka L. KZO, Borowiec L. 2015. Subgenera of *Charidotella* Weise with description of a new subgenus and species from Brazil (Coleoptera, Chrysomelidae, Cassidinae, Cassidini). *ZooKeys* 1: 61-74.

<http://dx.doi.org/10.3897/zookeys.506.8770>

Sentis A. KBE, Morisson J., **Boukal D. KBE** 2015. Thermal acclimation modulates the impacts of temperature and enrichment on trophic interaction strengths and population dynamics. *Global Change Biology* 21: 3290-3298. <http://dx.doi.org/10.1111/gcb.12931>

Sentis A. KBE, Ramon-Portugal F., Brodeur J., Hemptinne J. 2015. The smell of change: warming affects species interactions mediated by chemical information. *Global Change Biology* 21: 3586-3594.

<http://dx.doi.org/10.1111/gcb.12932>

Sevcikova T., **Horák A. KMB**, Klimes V., Zbrankova V., Demir-Hilton E., Sudek S., Jenkins J., Schmutz J., Pribyl P., Fousek J., Vlcek C., Lang B., **Oborník M. KMB**, Worden A., Elias M. 2015. Updating algal evolutionary relationships through plastid genome sequencing: did alveolate plastids emerge through endosymbiosis of an ochrophyte?. *Scientific Reports* 5: nestránkováno.

<http://dx.doi.org/10.1038/srep10134>

Shaw B., Crandall-Stotler B., Vana J., Stotler R., von Konrat M., Engel J., Davis E., Long D., **Sova P. KBO**, Shaw A. 2015. Phylogenetic Relationships and Morphological Evolution in a Major Clade of Leafy Liverworts (Phylum Marchantiophyta, Order Jungermanniales): Suborder Jungermanniineae. *Systematic Botany* 40: 27-45. <http://dx.doi.org/10.1600/036364415X686314>

Sherwood A., Carlile A., Vaccarino M., **Johansen J. KBO** 2015. Characterization of Hawaiian freshwater and terrestrial cyanobacteria reveals high diversity and numerous putative endemics. *Phycological Research* 63: 85-92. <http://dx.doi.org/10.1111/pre.12080>

Schneedorferová I. KFZ, Tomcala A., Valterova I. 2015. Effect of heat treatment on the n-3/n-6 ratio and content of polyunsaturated fatty acids in fish tissues. *Food Chemistry* 176: 205-211.

<http://dx.doi.org/10.1016/j.foodchem.2014.12.058>

Schulz F., **Tyml T. CPE**, Pizzetti I., Dykova I., Fazi S., **Kostka M. KPA**, Horn M. 2015. Marine amoebae with cytoplasmic and perinuclear symbionts deeply branching in the Gammaproteobacteria. *Scientific Reports* 5: nestránkováno. <http://dx.doi.org/10.1038/srep13381>

Sidorov R., Kučerová L., Kiss I., **Žurovec M. KGN** 2015. Mutation in the *Drosophila melanogaster* adenosine receptor gene selectively decreases the mosaic hyperplastic epithelial outgrowth rates in wts or dco heterozygous flies. *Purinergic Signalling* 11: 95-105. <http://dx.doi.org/10.1007/s11302-014-9435-2>

Siefert A., Violle C., Chalmandrier L., Albert C., Taudiere A., Fajardo A., Aarssen L., Baraloto C., Carlucci M., Cianciaruso M., Dantas V., De **Bello F. KBO**, Duarte L., Fonseca C., Freschet G., Gaucherand S., Gross N., Hikosaka K., Jackson B., Jung V., Kamiyama C., Katabuchi M., Kembel S., Kichenin E., Kraft N., Lagerstrom A., **Pinguet Y. KBO**, Li Y., Mason N., Messier J., Nakashizuka T., McC Overton J., Peltzer D., Perez-Ramos I., Pillar V., Prentice H., Richardson S., Sasaki T., Schamp B., Schoeb C., Shipley B., Sundqvist M., Sykes M., Vandewalle M., Wardle D. 2015. A global meta-analysis of the relative extent of intraspecific trait variation in plant communities. *Ecology Letters* 18: 1406-1419. <http://dx.doi.org/10.1111/ele.12508>

Simoes M., **Sekerka L. KZO** 2015. REVIEW OF THE NEOTROPICAL LEAF BEETLE SUBGENUS DORYNOTA S-STR. CHEVROLAT (COLEOPTERA: CHRYSOMELIDAE: CASSIDINAE: DORYNOTINI). *Coleopterists Bulletin* 69: 231-254. <http://dx.doi.org/10.1649/0010-065X-69.2.231>

- Sinclair F., Stone G., Nicholls J., Cavers S., Gibbs M., **Butterill P. KZO**, Wagner S., Ducouso A., Gerber S., Petit R., Kremer A., Schoenrogge K. 2015. Impacts of local adaptation of forest trees on associations with herbivorous insects: implications for adaptive forest management. *Evolutionary Applications* 8: 972-987. <http://dx.doi.org/10.1111/eva.12329>
- Sklenar P., Kucerova A., Mackova J., **Macek P. CPE** 2015. TEMPORAL VARIATION OF CLIMATE IN THE HIGH-ELEVATION PARAMO OF ANTISANA, ECUADOR. *Geografia Fisica e Dinamica Quaternaria* 38: 67-78. <http://dx.doi.org/10.4461/GFDQ.2015.38.07>
- Skodova-Sverakova I., Verner Z., **Skalický T. KMB**, Votypka J., Horvath A., **Lukeš J. KMB** 2015. Lineage-specific activities of a multipotent mitochondrion of trypanosomatid flagellates. *Molecular Microbiology* 96: 55-67. <http://dx.doi.org/10.1111/mmi.12920>
- Soldan T., **Bojková J. KBE** 2015. New species of mayflies (Ephemeroptera) from Cape Verde. *Zootaxa* 3926: 561-575.
- Speijer D., **Lukeš J. KMB**, Elias M. 2015. Sex is a ubiquitous, ancient, and inherent attribute of eukaryotic life. *Proceedings of The National Academy of Sciences of The United States of America* 112: 8827-8834. <http://dx.doi.org/10.1073/pnas.1501725112>
- Sroka P., **Bojková J. KBE**, Soldan T., Godunko R. 2015. New species of the genus *Oligoneuriella* Ulmer, 1924 (Ephemeroptera: Oligoneuriidae) from Turkey. *Zootaxa* 4012: 329-350. <http://dx.doi.org/10.11646/zootaxa.4012.2.4>
- Staleva - Musto HA. UFY**, **Komenda J. UCH**, **Shukla MK. UCH**, **Šlouf V. UFY**, **Kaňa R. UCH**, **Polívka T. UFY**, **Sobotka R. KMB**, **UCH** 2015. Mechanism of photoprotection in the cyanobacterial ancestor of plant antenna proteins. *Nature Chemical Biology* 11: 287-291. <http://dx.doi.org/10.1038/NCHEMBIO.1755>
- Staleva - Musto HA. UFY**, Zeeshan M., Chabera P., Partali V., Sliwka H., **Polívka T. UFY** 2015. Ultrafast Dynamics of Long Homologues of Carotenoid Zeaxanthin. *Journal of Physical Chemistry A* 119: 11304-11312. <http://dx.doi.org/10.1021/acs.jpca.5b08460>
- Steinbach G., Schubert F., **Kaňa R. UCH** 2015. Cryo-imaging of photosystems and phycobilisomes in *Anabaena* sp PCC 7120 cells. *Journal of Photochemistry and Photobiology B-Biology* 152: 395-399. <http://dx.doi.org/10.1016/j.jphotobiol.2015.10.003>
- Stibal M., Gozdereliler E., Cameron K., Box J., Stevens I., Gokul J., Schostag M., **Žárský J. Centrum polární ekologie**, Edwards A., Irvine-Fynn T., Jacobsen C. 2015. Microbial abundance in surface ice on the Greenland Ice Sheet. *Frontiers in Microbiology* 6: nestránkováno. <http://dx.doi.org/10.3389/fmicb.2015.00225>
- Straňák V. UFY**, Drache S., Wulff H., Hubicka Z., Tichy M., Kruth A., Helm C., Hippler R. 2015. Oxidation behavior of Cu nanoparticles embedded into semiconductive TiO₂ matrix. *Thin Solid Films* 589: 864-871. <http://dx.doi.org/10.1016/j.tsf.2015.07.026>
- Stransky J., Koval' T., Podzimek T., **Týcová A. KGN**, Lipovova P., Matousek J., Kolenko P., Fejfarova K., Duskova J., Skalova T., Hasek J., Dohnalek J. 2015. Phosphate binding in the active centre of tomato multifunctional nuclease TBN1 and analysis of superhelix formation by the enzyme. *Acta Crystallographica Section F-Structural Biology and Communications* 71: 1408-1415. <http://dx.doi.org/10.1107/S2053230X15018324>
- Strnad M. KPA**, **Elsterová J. KME**, **Schrenková J. KPA**, **Vancová M. KPA**, Rego R., **Grubhoffer L. KPA**, **Nebesářová J. UFY** 2015. Correlative cryo-fluorescence and cryo-scanning electron microscopy as a straightforward tool to study host-pathogen interactions. *Scientific Reports* 5: nestránkováno. <http://dx.doi.org/10.1038/srep18029>
- Subrtova K., Panicucci B., **Zíková A. KMB** 2015. ATPaseTb2, a Unique Membrane-bound FoF1-ATPase Component, Is Essential in Bloodstream and Dyskinetoplastic Trypanosomes. *PLoS Pathogens* 11:

nestránkováno. <http://dx.doi.org/10.1371/journal.ppat.1004660>

Sunter J., Benz C., Andre J., Whipple S., McKean P., Gull K., Ginger M., **Lukeš J. KMB** 2015. Modulation of flagellum attachment zone protein FLAM3 and regulation of the cell shape in *Trypanosoma brucei* life cycle transitions. *Journal of Cell Science* 128: 3117-3130. <http://dx.doi.org/10.1242/jcs.171645>

Světlíková P. KBO, Hájek T. CPE, KEBR, KFR, Těšitel J. KBO 2015. Hydathode trichomes actively secreting water from leaves play a key role in the physiology and evolution of root-parasitic rhinanthoid Orobanchaceae. *Annals of Botany* 116: 61-68. <http://dx.doi.org/10.1093/aob/mcv065>

Svitavska-Svobodova H., Andreas M., Kristufek V., **Beneš J. LAPE, Novák J. LAPE** 2015. The thousand-year history of the Slovak Karst inferred from pollen in bat guano inside the Domica Cave (Slovakia). *Folia Geobotanica* 50: 49-61. <http://dx.doi.org/10.1007/s12224-015-9205-0>

Svoboda J., Hladilova S., Horacek I., Kaiser J., Kralik M., **Novák J. LAPE, Novak M., Pokorny P., Sazelova S., Smolikova L., Zikmund T.** 2015. Dolni Vestonice IIa: Gravettian microstratigraphy, environment, and the origin of baked clay production in Moravia. *Quaternary International* 359: 195-210. <http://dx.doi.org/10.1016/j.quaint.2014.06.048>

Svobodová Z. KBE, Habustova O., Hutchison W., Hussein H., Sehnal F. KFZ 2015. Risk Assessment of Genetically Engineered Maize Resistant to *Diabrotica* spp.: Influence on Above-Ground Arthropods in the Czech Republic. *PLoS One* 10: nestránkováno. <http://dx.doi.org/10.1371/journal.pone.0130656>

Šálková T. LAPE, Bezdek A., Brezinova H., Farkasova K., Houfková P. LAPE, Chvojka O., John J., Kmosek J., Koník P. UCH, Kovacikova L., Michálek J., Msallamova S., Novák J. LAPE, Pavelka J., Sulakova H., Bešta T. LAPE, Myšková E. KPA, Weiter L., Zronek P. 2015. Bioarchaeologická rekonstrukce pohřebního ritu – případová studie na základě organického materiálu zhaštatské mohyly na lokalitě Zahradka (jižní Čechy, Česká republika). *Památky archeologické* 106: 95-135.

Šebek P. KZO, Bace R., Bartoš M. KBO, Benes J., Chlumská Z. KBO, Doležal J. KBO, Dvorský M. KBO, Kovar J., Machac O., Mikatova B., Perlík M. KZO, Plátek M. KZO, Polakova S., Skorpik M., Stejskal R., Svoboda M., Trnka F., Vlasin M., Zapletal M. KZO, Čížek L. KZO 2015. Does a minimal intervention approach threaten the biodiversity of protected areas? A multi-taxa short-term response to intervention in temperate oak-dominated forests. *Forest Ecology and Management* 358: 80-89. <http://dx.doi.org/10.1016/j.foreco.2015.09.008>

Šebela D. UFY, Quinones C., Olejnickova J., Jagadish K. 2015. Temporal chlorophyll fluorescence signals to track changes in optical properties of maturing rice panicles exposed to high night temperature. *Field Crops Research* 177: 75-85. <http://dx.doi.org/10.1016/j.fcr.2015.02.025>

Šichová J. KGN, Voleníková A. KEBR, Dinca V., Nguyen P. KGN, Vila R., Sahara K., Marec F. KGN 2015. Dynamic karyotype evolution and unique sex determination systems in Leptidea wood white butterflies. *BMC Evolutionary Biology* 15: nestránkováno. <http://dx.doi.org/10.1186/s12862-015-0375-4>

Šlancarová J. KZO, Vrba P. KZO, Plátek M. KZO, Zapletal M. KZO, Spitzer L., Konvička M. KZO 2015. Co-occurrence of three *Aristolochia*-feeding Papilionids (*Archon apollinus*, *Zerynthia polyxena* and *Zerynthia cerisy*) in Greek Thrace. *Journal of Natural History* 49: 1825-1848. <http://dx.doi.org/10.1080/00222933.2015.1006281>

Šlancarová J. KZO, Garcia-Pereira P., Fric Z., Romo H., Garcia-Barros E. 2015. Butterflies in Portuguese 'montados': relationships between climate, land use and life-history traits. *Journal of Insect Conservation* 19: 823-836. <http://dx.doi.org/10.1007/s10841-015-9801-6>

Šmejkal M. KBE, Ricard D., Prchalova M., Riha M., Muska M., Blabolil P. KBE, Cech M., Vasek M., Juza T., Herreras A., Encina L., Peterka J., Kubecka J. 2015. Biomass and Abundance Biases in European Standard Gillnet Sampling. *PLoS One* 10: nestránkováno. <http://dx.doi.org/10.1371/journal.pone.0122437>

Šorf M. KBE, Davidson T., Brucet S., Menezes R., Sondergaard M., Lauridsen T., Landkildehus F., Liboriussen L., Jeppesen E. 2015. Zooplankton response to climate warming: a mesocosm experiment at

contrasting temperatures and nutrient levels. *Hydrobiologia* 742: 185-203.

<http://dx.doi.org/10.1007/s10750-014-1985-3>

Štětina T. KFZ, Kostal V., Korbelova J. 2015. The Role of Inducible Hsp70, and Other Heat Shock Proteins, in Adaptive Complex of Cold Tolerance of the Fruit Fly (*Drosophila melanogaster*). *PLoS One* 10: nestránkováno. <http://dx.doi.org/10.1371/journal.pone.0128976>

Tashyreva D. CPE, Elster J. Centrum polární ekologie 2015. Effect of nitrogen starvation on desiccation tolerance of Arctic *Microcoleus* strains (cyanobacteria). *Frontiers in Microbiology* 6: nestránkováno. <http://dx.doi.org/10.3389/fmicb.2015.00278>

ter Braak C., **Šmilauer P. KBE** 2015. Topics in constrained and unconstrained ordination. *Plant Ecology* 216: 683-696. <http://dx.doi.org/10.1007/s11258-014-0356-5>

Těšitel J. KBO, Těšitelová T. KBO, Fisher J., **Lepš J. KBO**, Cameron D. 2015. Integrating ecology and physiology of root-hemiparasitic interaction: interactive effects of abiotic resources shape the interplay between parasitism and autotrophy. *New Phytologist* 205: 350-360. <http://dx.doi.org/10.1111/nph.13006>

Těšitel J. KBO, Fibich P. KBO, De Bello F. KBO, Chytrý M., **Lepš J. KBO** 2015. Habitats and ecological niches of root-hemiparasitic plants: an assessment based on a large database of vegetation plots. *Preslia : časopis České botanické společnosti* 87: 87-108.

Těšitelová T. KBO, Kotlínek M. KBO, Jersáková J. KBE, Joly F., **Košnar J. KBO**, Tatarsenko I., Selosse M. 2015. Two widespread green *Neottia* species (Orchidaceae) show mycorrhizal preference for Sebaciniales in various habitats and ontogenetic stages. *Molecular Ecology* 24: 1122-1134. <http://dx.doi.org/10.1111/mec.13088>

Tichánek F. KZO, Tropek R. 2015. Conservation value of post-mining headwaters: drainage channels at a lignite spoil heap harbour threatened stream dragonflies. *Journal of Insect Conservation* 19: 975-985. <http://dx.doi.org/10.1007/s10841-015-9814-1>

Timr S., Brabec J., Bondar A., Ryba T., Zelezny M., **Lazar J. KMB**, Jungwirth P. 2015. Nonlinear Optical Properties of Fluorescent Dyes Allow for Accurate Determination of Their Molecular Orientations in Phospholipid Membranes. *Journal of Physical Chemistry B* 119: 9706-9716. <http://dx.doi.org/10.1021/acs.jpcc.5b05123>

Tomek P., **Hrouzek P. UCH**, Kuzma M., Sykora J., Fiser R., Cerný J., Novak P., Bartova S., Simek P., Hof M., Kavan D., Kopecky J. 2015. Cytotoxic Lipopeptide Muscotoxin A, Isolated from Soil Cyanobacterium *Desmonostoc muscorum*, Permeabilizes Phospholipid Membranes by Reducing Their Fluidity. *Chemical Research in Toxicology* 28: 216-224. <http://dx.doi.org/10.1021/tx500382b>

Tonk M., Cabezas-Cruz A., Valdes J., Rego R., **Grubhoffer L. KPA**, Estrada-Pena A., Vilcinskis A., Kotsyfakis M., Rahnamaeian M. 2015. *Ixodes ricinus* defensins attack distantly-related pathogens. *Developmental and Comparative Immunology* 53: 358-365. <http://dx.doi.org/10.1016/j.dci.2015.08.001>

Toth T., Chukhutsina V., Domonkos I., **Knoppová J. UCH, Komenda J. UCH**, Kis M., Lenart Z., Garab G., Kovacs L., Gombos Z., van Amerongen H. 2015. Carotenoids are essential for the assembly of cyanobacterial photosynthetic complexes. *Biochimica et Biophysica Acta - Bioenergetics* 1847: 1153-1165. <http://dx.doi.org/10.1016/j.bbabi.2015.05.020>

Trávníček P., Ponert J., Urfus T., **Jersáková J. KBE**, Vrana J., Hribova E., Dolezel J., Suda J. 2015. Challenges of Flow-Cytometric Estimation of Nuclear Genome Size in Orchids, a Plant Group with Both Whole-Genome and Progressively Partial Endoreplication. *Cytometry Part A* 87A: 958-966. <http://dx.doi.org/10.1002/cyto.a.22681>

Treat C., Natali S., Ernakovich J., Iversen C., Lupascu M., McGuire A., Norby R., Chowdhury T., Richter A., **Šantrůčková H. KBE**, Schaedel C., Schuur E., Sloan V., Turetsky M., Waldrop M. 2015. A pan-Arctic synthesis of CH₄ and CO₂ production from anoxic soil incubations. *Global Change Biology* 21: 2787-2803. <http://dx.doi.org/10.1111/gcb.12875>

- Tropek R. KZO, Leština D. KZO**, Jansta P., Brattstroem O., Espeland M., Safian S. 2015. First records of *Hypolycaena anara* Larsen, 1986 from Cameroon (Lepidoptera: Lycaenidae). *SHILAP Revista de Lepidopterología* 43: 235-239.
- Týč J. KMB**, Klingbeil M., **Lukeš J. KMB** 2015. Mitochondrial Heat Shock Protein Machinery Hsp70/Hsp40 Is Indispensable for Proper Mitochondrial DNA Maintenance and Replication. *mBio* 6: nestránkováno. <http://dx.doi.org/10.1128/mBio.02425-14>
- Valencia E., Maestre F., **Pinguet Y. KBO**, Luis Quero J., Tamme R., Boerger L., Garcia-Gomez M., Gross N. 2015. Functional diversity enhances the resistance of ecosystem multifunctionality to aridity in Mediterranean drylands. *New Phytologist* 206: 660-671. <http://dx.doi.org/10.1111/nph.13268>
- Vancová M. KPA**, Nebesarova J. 2015. Correlative Fluorescence and Scanning Electron Microscopy of Labelled Core Fucosylated Glycans Using Cryosections Mounted on Carbon-Patterned Glass Slides. *PLoS One* 10: nestránkováno. <http://dx.doi.org/10.1371/journal.pone.0145034>
- Vesely M., Vajglova Z., **Kotas P. Centrum polární ekologie**, Kristal J., Ponec R., Jiricny V. 2015. Model for photodegradation of polybrominated diphenyl ethers. *Environmental Science and Pollution Research* 22: 4949-4963. <http://dx.doi.org/10.1007/s11356-014-3741-7>
- Vicherová E. KBO**, Hajek M., **Hájek T. KEBR** 2015. Calcium intolerance of fen mosses: Physiological evidence, effects of nutrient availability and successional drivers. *Perspectives in Plant Ecology, Evolution and Systematics* 17: 347-359. <http://dx.doi.org/10.1016/j.ppees.2015.06.005>
- Villar M., Ayllon N., Kocan K., Bonzon-Kulichenko E., Alberdi P., Blouin E., Weisheit S., Mateos-Hernandez L., Cabezas-Cruz A., Bell-Sakyi L., **Vancová M. KPA**, **Bílý T. UFY**, Meyer D., Sterba J., Contreras M., Rudenko N., **Grubhoffer L. KPA**, Vazquez J., de la Fuente J. 2015. Identification and Characterization of *Anaplasma phagocytophilum* Proteins Involved in Infection of the Tick Vector, *Ixodes scapularis*. *PLoS One* 10: nestránkováno. <http://dx.doi.org/10.1371/journal.pone.0137237>
- Vlašánek P. KZO**, **Novotný V. KZO** 2015. Demography and mobility of three common understory butterfly species from tropical rain forest of Papua New Guinea. *Population Ecology* 57: 445-455. <http://dx.doi.org/10.1007/s10144-015-0480-7>
- Volf M. KZO**, **Hrček J. KZO**, Julkunen-Tiitto R., **Novotný V. KZO** 2015. To each its own: differential response of specialist and generalist herbivores to plant defence in willows. *Journal of Animal Ecology* 84: 1123-1132. <http://dx.doi.org/10.1111/1365-2656.12349>
- Volf M. KZO**, Julkunen-Tiitto R., **Hrček J. KZO**, **Novotný V. KZO** 2015. Insect herbivores drive the loss of unique chemical defense in willows. *Entomologia Experimentalis et Applicata* 156: 88-98. <http://dx.doi.org/10.1111/eea.12312>
- Vondrák J. KBO**, Malicek J., Šoun J., Pouska V. 2015. Epiphytic lichens of Stuzica (E Slovakia) in the context of Central European old-growth forests. *Herzogia* 28: 104-126.
- Vorel J., **Grill S. KBE** 2015. Land use change propensity maps. *Journal of Maps* 11: 225-230. <http://dx.doi.org/10.1080/17445647.2014.911709>
- Votypka J., Radrova J., **Skalický T. KMB**, **Jirků M. KMB**, **Jirsová D. KPA**, Mihalca A., D'Amico G., Petrzalkova K., Modry D., **Lukeš J. KMB** 2015. A tsetse and tabanid fly survey of African great apes habitats reveals the presence of a novel trypanosome lineage but the absence of *Trypanosoma brucei*. *International Journal for Parasitology* 45: 741-748. <http://dx.doi.org/10.1016/j.ijpara.2015.06.005>
- Votypka J., d'Avila-Levy C., Grellier P., Maslov D., **Lukeš J. KMB**, Yurchenko V. 2015. New Approaches to Systematics of Trypanosomatidae: Criteria for Taxonomic (Re)description. *Trends in Parasitology* 31: 460-469. <http://dx.doi.org/10.1016/j.pt.2015.06.015>
- Vrkoc I., **Křivan V. UMB** 2015. Asymptotic stability of tri-trophic food chains sharing a common resource. *Mathematical Biosciences* 270: 90-94. <http://dx.doi.org/10.1016/j.mbs.2015.10.005>

- Wagnerová P., Sak B., McEvoy J., Rost M., Matysiak A., **Ježková J. KPA**, Kváč M. 2015. Genetic diversity of *Cryptosporidium* spp. including novel identification of the *Cryptosporidium muris* and *Cryptosporidium tyzzeri* in horses in the Czech Republic and Poland. *Parasitology Research* 114: 1619-1624. <http://dx.doi.org/10.1007/s00436-015-4353-y>
- Wang R., **Segar S. KZO**, Harper M., Yu H., Quinnell R., Compton S. 2015. Between-species facilitation by male fig wasps in shared figs. *Ecological Entomology* 40: 428-436. <http://dx.doi.org/10.1111/een.12201>
- Wardhaugh CW. KZO** 2015. How many species of arthropods visit flowers?. *Arthropod-Plant Interactions* 9: 547-565. <http://dx.doi.org/10.1007/s11829-015-9398-4>
- Weigl S., Bretterbauer K., Hesser G., **Schoefberger W. UCH**, Paulik C. 2015. Synthesis, characterization, and description of influences on the stabilizing activity of antioxidant-functionalized multi-walled carbon nanotubes. *Carbon* 81: 305-313. <http://dx.doi.org/10.1016/j.carbon.2014.09.061>
- Weisheit S., Villar M., **Tykalová H. KPA**, Popara M., Loecherbach J., Watson M., **Růžek D. KME**, **Grubhoffer L. KPA**, de la Fuente J., Fazakerley J., Bell-Sakyi L. 2015. *Ixodes scapularis* and *Ixodes ricinus* tick cell lines respond to infection with tick-borne encephalitis virus: transcriptomic and proteomic analysis. *Parasites & Vectors* 8: nestránkováno. <http://dx.doi.org/10.1186/s13071-015-1210-x>
- Weyda F. KME**, Pfliegerova J., Staskova T., Tomcala A., Prenerova E., Zemek R., Volter L., **Kodřík D. KFZ** 2015. Ultrastructural and biochemical comparison of summer active and summer diapausing pupae of the horse chestnut leaf miner, *Cameraria ohridella* (Lepidoptera: Gracillariidae). *European Journal of Entomology* 112: 197-203. <http://dx.doi.org/10.14411/eje.2015.014>
- Woo Y., Ansari H., Otto T., Klinger C., Kolisko M., **Michálek J. KMB**, Saxena A., Shanmugam D., Tayyrov A., Veluchamy A., Ali S., Bernal A., del Campo J., **Cihlár J. KMB**, Flegontov P., Gornik S., Hajduskova E., **Horák A. KMB**, Janouskovec J., Katris N., Mast F., Miranda-Saavedra D., Mourier T., Naeem R., Nair M., Panigrahi A., Rawlings N., Padron-Regalado E., Ramaprasad A., Samad N., **Tomčala A. KFZ**, Wilkes J., Neafsey D., Doerig C., Bowler C., Keeling P., Roos D., Dacks J., Templeton T., Waller R., **Lukeš J. KMB**, **Oborník M. KMB**, Pain A. 2015. Chromerid genomes reveal the evolutionary path from photosynthetic algae to obligate intracellular parasites. *eLife* 4: nestránkováno. <http://dx.doi.org/10.7554/eLife.06974>
- Zarybnicka M., **Riegert J. KZO**, Kouba M. 2015. Indirect food web interactions affect predation of Tengmalm's Owls *Aegolius funereus* nests by Pine Martens *Martes martes* according to the alternative prey hypothesis. *IBIS* 157: 459-467. <http://dx.doi.org/10.1111/ibi.12265>
- Zarybnicka M., **Riegert J. KZO**, Brejskova L., Sindelar J., Kouba M., Hanel J., Popelkova A., Menclova P., Tomasek V., St'astny K. 2015. Factors Affecting Growth of Tengmalm's Owl (*Aegolius funereus*) Nestlings: Prey Abundance, Sex and Hatching Order. *PLoS One* 10: nestránkováno. <http://dx.doi.org/10.1371/journal.pone.0138177>
- Zarybnicka M., Kloubec B., Obuch J., **Riegert J. KZO** 2015. FLEDGLING PRODUCTIVITY IN RELATION TO DIET COMPOSITION OF TENGMALM'S OWL AEGOLIUS FUNEREUS IN CENTRAL EUROPE. *Ardeola* 62: 163-171. <http://dx.doi.org/10.13157/arla.62.1.2015.163>
- Zarybnicka M., **Riegert J. KZO**, St'astny K. 2015. Non-native spruce plantations represent a suitable habitat for Tengmalm's Owl (*Aegolius funereus*) in the Czech Republic, Central Europe. *Journal of Ornithology* 156: 457-468. <http://dx.doi.org/10.1007/s10336-014-1145-6>
- Zayats V. UCH**, Stockner T., **Pandey S. UCH**, Woerz K., **Ettrich R. UCH**, Ludwig J. 2015. A refined atomic scale model of the *Saccharomyces cerevisiae* K⁺-translocation protein Trk1p combined with experimental evidence confirms the role of selectivity filter glycines and other key residues. *Biochimica et Biophysica Acta- Biomembranes* 1848: 1183-1195. <http://dx.doi.org/10.1016/j.bbamem.2015.02.007>
- Zeng Y., Selyanin V., Lukes M., Dean J., **Kaftan D. KEBR**, Feng F., **Koblížek M. UCH** 2015. Characterization of the microaerophilic, bacteriochlorophyll a-containing bacterium *Gemmatimonas phototrophica* sp nov., and emended descriptions of the genus *Gemmatimonas* and *Gemmatimonas*

aurantiaca. *International Journal of Systematic and Evolutionary Microbiology* 65: 2410-2419.
<http://dx.doi.org/10.1099/ijs.0.000272>

Znachor P. KBE, Rychtecký P. KBE, Nedoma J., Visocká V. KBE 2015. Factors affecting growth and viability of natural diatom populations in the meso-eutrophic A similar to imov Reservoir (Czech Republic). *Hydrobiologia* 762: 253-265. <http://dx.doi.org/10.1007/s10750-015-2417-8>

Ostatní příspěvky nevidované v databázi WOS (bez IF)

Awad MAR., Kalushkov P., Karabüyük F., **Nedvěd O. KZO** 2015. Non-random mating activity of colour morphs of ladybird *Harmonia axyridis* (Coleoptera: Coccinellidae). *Acta Societatis Zoologicae Bohemicae* 79: 11–17.

Bojková J. KBE, Čížková H., Kučerová A., Rádková V., Soldán T., Svidenský R., Vrba J. KBE 2015. Monitoring of the restored streams in the Vltavský Luh, Šumava National Park. *Silva Gabreta : sborník vědeckých prací* 21: 73–79.

Bojková J. KBE, Soldán T. 2015. Two new species of the genus *Prosopistoma* (Ephemeroptera: Prosopistomatidae) from Iraq and Algeria. *Zootaxa* 4018: 109–123.

Casciotta J., Almirón A., **Doubnerová K. KZO, Piálek L. KZO, Říčan O. KZO** 2015. First records of *Characidium heirmostigmata* and *C. serrano* (Characiformes: Crenuchidae) from freshwaters of Argentina. *Ichthyological Contributions of PecesCriollos* 34: 1-3.

Čapek L., Chvojka O., **Kodýdková K. LAPE, Beneš J. LAPE, Houfková P. LAPE, Myšková E. LAPE** 2015. Středověká odpadní jímka domu čp. 7 v Krajinské ulici v Českých Budějovicích ve výsledcích rozboru artefaktů a environmentálních analýz. *Archeologické výzkumy v jižních Čechách* 28: 227-252.

Divišová M. LAPE, Šída P. LAPE 2015. Plant Use in the Mesolithic Period. *Archaeobotanical Data from the Czech Republic in a European Context – a Review. Interdisciplinaria Archaeologica* 6: 95-106.

Dobáková E., Flegontov, **Skalický T. KMB, Lukeš J. KMB** 2015. Unexpectedly Streamlined Mitochondrial Genome of the Euglenozoan *Euglena gracilis*. *Genome Biology and Evolution* 7: 3358–3367. <http://dx.doi.org/10.1093/gbe/evv229>

Doležalová J., **Oborník M. KMB, Hajdušková E., Jirků M., Petrželková KJ., Bolechová P., Cutillas C., Callejón R., Jaroš J., Beránková Z., Modrý** 2015. How many species of whipworms do we share? Whipworms from man and other primates form two phylogenetic lineages. *Folia Parasitologica* 62: nestránkováno. <http://dx.doi.org/10.14411/fp.2015.063>

Dostálek L. UAI 2015. Strong Authentication for Internet Mobile Application. In *Pinker, Applied Electronics 2015*. Plzeň : University of West Bohemia, s. 23-26.

Dostálek L. UAI 2015. 4G. In *Sborník příspěvků z 47. konference EurOpen.CZ*. Plzeň : Česká společnost uživatelů otevřených systémů EurOpen.CZ, s. 23-44.

Dostálek L. UAI 2015. Authentication and Authorization Applications in 4G Networks. In *Proceedings of Security and Protection of Information (SPI) 2015*. Brno : Universita Obrany v Brně, s. nestránkováno.

Dvořák M., **Dostálek L. UAI, Říhová Z. UAI** 2015. Optimizing the Amount of Data to Evaluate the Events of Cyber Security. *International Journal of Modern Communication Technologies & Research* 3: 34-39.

Enei F., Nardi-Combescure S., Pocard G., **Beneš J. LAPE, Galletti M., Kodýdková K. LAPE, Lureau A., Paclíková K. LAPE, Preusz M. LAPE, Squaglia A.** 2015. Castrum Novum (Santa Marinella, prov. de Rome). *La Chronique des activités archéologiques de l'École française de Rome "Neuveden"*: 2-41.

Fesl J. UAI, Plch L., Doležalová M., Drdák F. UAI 2015. Live migration of virtual distributed computing

- systems. *International Journal of Innovative Computing, Information and Control (IJICIC)* 11: 973-983.
- Gregorovič J., **Zalabová L. UMB** 2015. NOTES ON SYMMETRIC CONFORMAL GEOMETRIES. *Archivum Mathematicum* 51: 287–296.
- Valdman J. UMB** 2015. Verification of functional a posteriori error estimates for an obstacle problem. In Simos, Tsitouras, *PROCEEDINGS OF THE INTERNATIONAL CONFERENCE OF NUMERICAL ANALYSIS AND APPLIED MATHEMATICS 2014 (ICNAAM-2014)*. Spojené státy : American Institute of Physics Inc., s. "850042-1–850042-4". <http://dx.doi.org/10.1063/1.4913097>
- Valdman J. UMB** 2015. Guaranteed a posteriori error estimates for obstacle problem for elastic deformation of membrane. In Szarkova, Balko, Richtarikova, *APLIMAT 2015 - 14th Conference on Applied Mathematics, Proceedings*. Slovensko : Slovak University of Technology in Bratislava, s. 341-345.
- Hlásek D., **Houfková P. LAPE**, John J., **Novák J. LAPE**, Šálková T. 2015. Všemyslice – Kozí vrch. Nové poznatky o hradišti z počátku střední doby bronzové, výsledky multidisciplinárního výzkumu. *Archeologie západních Čech* 9: 96-121.
- Chvojka O., John J., **Šálková T. LAPE** 2015. Nové kovové depoty ze starší doby bronzové v jižních Čechách. In Bátora, Tóth, *Keď bronz vystriedal med'*. Bratislava : Archeologický ústav SAV Nitra, Katedra archeológie FiF UK, s. 421-431.
- Jelínek J. UAI** 2015. Analysis of the students' behavior during electronic testing. In *EDULEARN15 Proceedings*. Barcelona : IATED Academy, s. 5290-5298.
- Jirků M. KMB**, Votýpka J., Petrželková KJ., Jirků-Pomajbíková K., Kriegová E., Vodička R., Lankester F., Leendertz SAJ., Wittig RM., Boesch C., Modrý D., Ayala FJ., Leendertz FH., **Lukeš J. KMB** 2015. Wild chimpanzees are infected by *Trypanosoma brucei*. *International Journal for Parasitology: Parasites and Wildlife* 4: 277-282. <http://dx.doi.org/10.1016/j.ijppaw.2015.05.001>
- Jongepierová I., **Prach K. KBO**, Ševčíková M. 2015. Regionální směsi osiv a jejich problematika. Zprávy české botanické společnosti - Materiály 50: 41-50.
- Juráň J. KBO**, **Hauer T. KBO**, **Johansen JR. KBO**, Krienitz L. 2015. (2365) Proposal to conserve the name *Cyanospira* G. Florenz.. *Taxon* 64: 845-846. <http://dx.doi.org/10.12705/644.17>
- Keller F., Mayer N., Gregor T., Paule J., Lepší M., **Koutecký P. KBO**, Fussi B., Hackl C., Joerg E. 2015. Hybriden zwischen Mehlbeere (*Sorbus aria*) und Elsbeere (*Sorbus torminalis*) im oberbayerischen Fünfseenland.. *Berichte der Bayerischen Botanischen Gesellschaft* 85: 19-34.
- Klementová Š. UCH**, Rabova-Tousova Z., Bláha L., **Kahoun D. UCH**, Šimek P., **Keltnerová L. UCH**, Zlámal M. 2015. Photodegradation of Atrazine on TiO₂—Products Toxicity Assessment. *Open Journal of Applied Sciences* 5: 14-21. <http://dx.doi.org/10.4236/ojapps.2015.51002>
- Kočár P., **Beneš J. LAPE**, **Preusz M. LAPE**, Vaněček Z. 2015. Ječmen a ječný slad ve středověku a raném novověku v českých zemích. *Kvasný průmysl. Časopis pro výrobu nápojů a biochemické technologie* 61: 153–158.
- Kortan M. UAI**, **Prokýšek M. UAI** 2015. Interaktivita ICT zařízení. *Journal of Technology and Information Education (online)* 7: 27-35. <http://dx.doi.org/10.5507/jtie.2015.015>
- Kotlínek M. KBO**, **Těšitelová T. KBO**, **Jersáková J. KBE** 2015. Biological Flora of the British Isles: *Neottia ovata*. *Journal of Ecology* 103: 1354-1366. <http://dx.doi.org/10.1111/1365-2745.12444>
- Kovačiková L. LAPE** 2015. Zvířecí kosti z raně středověkého sídliště v Budčevsi. *Archeologie ve středních Čechách* 19: 751-753.
- Královec J., **Prach K. KBO** 2015. Obnova podhorské louky po ukončení hnojení. Zprávy české botanické společnosti - Materiály 50: 73-78.

Strnadová G. UCH 2015. VYUŽITÍ SRÁŽKOVÉ VODY PRO NAVÝŠENÍ HLADINY SPODNÍ VODY V PRACHATICÍCH. In Dočkal, *SBORNÍK PŘÍSPĚVKŮ KONFERENCE VODA A KRAJINA 2015*. Praha : České vysoké učení technické v Praze, s. 47 - 56.

Kučera J. KBO, Bradáčová J. KBO, Holá E. KBO, Jandová J., Košnar J. KBO, Kubešová S., Kyselá M., Laburdová J., Manukjanová A. KBO, Tkáčiková J., Štechová T. KBO 2015. Mechorosty zaznamenané v průběhu terénních bryologických kurzů Jihočeské Univerzity na Šumavě v roce 2014. *Bryonora* 56: 88-101.

Lepš J. KBO 2015. Experimentální studie mechanismů v lučních porostech – co z nich plyne pro management a obnovu. *Zprávy české botanické společnosti - Materiály* 50: 33-39.

Madani I., Tahir YF., Hamdeen HM., **Pokorná A. LAPE, Pokorný P.** 2015. Vegetation Ecology and Taxonomy of El - Ga'ab Area, North - Western Sudan. *EUROPEAN ACADEMIC RESEARCH* 3: 2927-2943.

Novák J. LAPE 2015. Výzkum raně středověkého sídliště Budčeves z pohledu antrakologické a makrozbytkové analýzy. *Archeologie ve středních Čechách* 19: 755-758.

Novák M. UAI 2015. Videoprezentace pomocí HTML5 jako modul LMS Moodle. *Matematika, fyzika, informatika* 24: 148-155.

Parkman M., **Šálková T. LAPE, Beneš J. LAPE** 2015. Raně středověký sídlištní objekt ze Starých Prachatic. Příspěvek k paleoekonomii a absolutnímu datování osídlení. *Archeologické výzkumy v jižních Čechách* 28: 187-200.

Piálek L. KZO, Dragová K. KZO, Casciotta J., Almirón A., Řičan O. KZO 2015. DESCRIPTION OF TWO NEW SPECIES OF *Crenicichla* (TELEOSTEI: CICHLIDAE) FROM THE LOWER IGUAZÚ RIVER WITH A TAXONOMIC REAPPRAISAL OF *C. iguassuensis*, *C. tesay* AND *C. yaha*. *Historia natural (Buenos Aires)* 5: 5-27.

Pokorný P., Sádlo J., Chytrý M., Juříčková L., **Novák J. LAPE, Ložek V.** 2015. Nelesní vegetace české nížiny: reliktní původ a antropogenní transformace. *Zprávy České botanické společnosti* 50: 181-200.

Prach K. KBO 2015. Obnova travinných ekosystémů v současné ekologii. *Zprávy české botanické společnosti - Materiály* 50: 23-31.

Prach K. KBO 2015. Mining Site Restoration by Spontaneous Processes in the Czech Republic.. *Cornerstone* 3: 40-43.

Preusz M., **Kodýdková K. LAPE, Kočár P., Vaněček Z.** 2015. Exotic Spices in Flux: Archaeobotanical Material from Medieval and Early Modern Sites of the Czech Lands (Czech Republic). *Interdisciplinaria Archaeologica* 6: 223-236.

Prostředník J., **Novák J. LAPE** 2015. Výzkum zásobního objektu lidu popelnicových polí z Přepěř u Turnova. *Archeologie ve středních Čechách* 19: 667-674.

Repin S., **Valdman J. UMB** 2015. A Posteriori Error Estimates for Two-Phase Obstacle Problem. *Journal of Mathematical Sciences* 207: 324-335. <http://dx.doi.org/10.1007/s10958-015-2374-9>

Robovský J. KZO, Sleightholme S., Vohralík V., Benda P. 2015. Specimens of *Thylacinus cynocephalus* in collections of the Czech Republic (Mammalia: Thylacinidae). *Journal of the National Museum, Natural History Series* 184: 43-50.

Roleček J., Hájek M., Karlík P., **Novák J. LAPE** 2015. Reliktní vegetace na mezických stanovištích. *Zprávy České botanické společnosti* 50: 201-245.

Říhová Z. UAI 2015. Problém neznalosti smluvních vztahů při řízení projektu. *Systémová integrace* 3: 102-106.

Smrž J., **Kučera T. KBE, Vašků Z.** 2015. Food offer inside agroecosystem soils as an ecological factor for

settling microhabitats by soil saprophagous mites. *Acta Universitatis Agriculturae et Silviculturae Mendelianae Brunensis* 63: 1565-1574. <http://dx.doi.org/10.11118/actaun201563051565>

Smrž J., **Kučera T. KBE**, Vašků Z. 2015. Potravní nabídka v zemědělských půdách jako ekologický faktor pro řešení mikrostanišť půdních saprofitních roztočů. *Acta Universitatis Agriculturae et Silviculturae Mendelianae Brunensis* 63: 1565-1574.

Stachurska A., **Robovský J. KZO**, Bocian K., Janczarek I. 2015. Changes of coat cover in primitive horses living on a reserve. *Journal of Animal Science* 93: 1411–1417. <http://dx.doi.org/10.2527/jas2014-8668>

Šálek M. **KZO**, **Drahníková L. KZO**, Tkadlec E. 2015. Changes in home range sizes and population densities of carnivore species along the natural to urban habitat gradient. *Mammal Review* 45: 1-14. <http://dx.doi.org/10.1111/mam.12027>

Šálek M. **KZO**, **Riegert J. KZO**, **Grill S. KBE** 2015. House Sparrows *Passer domesticus* and Tree Sparrows *Passer montanus*: Fine-Scale Distribution, Population Densities, and Habitat Selection in a Central European city. *Acta Ornithologica* 50: 221 - 232. <http://dx.doi.org/10.3161/00016454AO2015.50.2.010>

Šálková T. **LAPE**, **Houfková P. LAPE**, Jiřík J., Kovačiková L., **Novák J. LAPE**, Pták M., **Bešta T. LAPE**, **Čejková A. LAPE**, **Myšková E. KPA** 2015. Economy and Environment of a Medieval Town Reflected in Wells Backfill in Písek, Bakaláře Square (South Bohemia, Czech Republic). *Interdisciplinaria Archaeologica* 6: 63-82.

Šoun J., **Vondrák J. KBO**, Bouda F. 2015. Vzácné a málo známé druhy lišejníků Třebíčska a okolí. *Bryonora* 56: 1-23.

Šoun J., Bouda F., Kocourková J., Malíček J., Peksa O., Svoboda D., Uhlík P., **Vondrák J. KBO** 2015. Lišejníky zaznamenané během jarního setkání Bryologicko-lichenologické sekce ČBS na Manětínsku (západní Čechy) v dubnu 2014. *Bryonora* 55: 20-36.

Varadzinová Suková L., Varadzin L., Havelková P., **Novák J. LAPE**, **Pokorná A. LAPE**, Pokorný P. 2015. Raně Postmerojský pohřeb lučištníka z pohoří Sabaloka. *Pražské egyptologické studie neuveden*: 72-77.

Verner Z. KMB, **Basu S. KMB**, Benz, **Dixit S. KMB**, Dobáková E., **Faktorová D. KMB**, **Hashimi MMH. KMB**, Horáková E., **Huang Z. KMB**, Paris Z., Peña-Díaz P., **Ridlon L. KMB**, **Týč J. KMB**, Wildridge D., **Zíková A. KMB**, **Lukeš J. KMB** 2015. Malleable Mitochondrion of *Trypanosoma brucei*. *International Review of Cell and Molecular Biology* 315: 73-151. <http://dx.doi.org/10.1016/bs.ircmb.2014.11.001>

Vondrák J. KBO, Malíček J. 2015. Teloschistaceae Velké kotliny a Petrových kamenů v Hrubém Jeseníku. *Bryonora* 56: 45-55.

Vonnahme T., **Devetter M. CPE**, **Žárský J. Centrum polární ekologie**, Šabacká M., **Elster J. Centrum polární ekologie** 2015. Controls on microalgal community structures in cryoconite holes upon high Arctic glaciers, Svalbard. *Biogeosciences Discussions* 12: 11751–11795. <http://dx.doi.org/10.5194/bgd-12-11751-2015>

Vrba J. KBE, **Kopáček J. KBE**, **Tahovská K. KBE**, **Šantrůčková H. KBE** 2015. Long-term ecological research of glacial lakes in the Bohemian Forest and their catchments. *Silva Gabreta : sborník vědeckých prací* 21: 53–71.

Zíková A. KMB, **Oborník M. KMB**, **Lukeš J. KMB** 2015. Fancy a gene? A surprisingly complex evolutionary history of peroxiredoxins. *Microbial Cell* 2: 33-37. <http://dx.doi.org/10.15698/mic2015.02.189>

Knihy

Albrecht J., Bureš J., Cepák J., Čapek M., **Havlíček J. KZO**, Jan H., Klimeš Z., Kloubec B., Kubelka V., Pakandl M., Pecl K., Pelz P., Pykal J., Šťastný Š. 2015. Ptáci jižních Čech. In Kloubec, Hora, Šťastný, České Budějovice : České Budějovice : Jihočeský kraj, 639 s.

Čížek O. KZO, Malkiewicz A., Beneš J., Tarnawski D., Zámečník J., Kadlec T., **Konvička M. KZO**, Myśków E., Sala A., **Vrba P. KZO**, **Zapletal M. KZO** 2015. Denní motýli v Krkonoších - atlas rozšíření = Motyle dzienne w Karkonoszach - atlas rozmieszczenia. In Čížek, Malkiewicz, Beneš, Tarnawski, Kielce : Vrchlabí : Správa Krkonošského národního parku ; Jelenia Góra : Dyrekcja Karkonoskiego Parku Narodowego, 327 s.

Nedvěd O. KZO 2015. Brouci čeledi slunéčkovití (Coccinellidae) střední Evropy = Ladybird beetles (Coccinellidae) of Central Europe. In Praha : Academia, 303 s.

Kapitoly v knize

Čížková H., Rychterová J., Hamadejová L., Suchý K., Filipová M., **Květ J. KBE**, Anderson NO. 2015. Biomass Production in Permanent Wet Grasslands Dominated with *Phalaris arundinacea*: Case Study of the Třeboň Basin Biosphere Reserve, Czech Republic. In Vymazal, *The Role of Natural and Constructed Wetlands in Nutrient Cycling and Retention on the Landscape*. Cham : Springer International Publishing, s. 1 - 16.

Ernst M., **Robovský J. KZO**, Svobodová K., **Pohlová L. KZO** 2015. Genetické analýzy krkonošské populace jelena evropského. In *Jeleni v Krkonoších / Jelenie w Karkonoszach*. Vrchlabí : Vrchlabí : Správa Krkonošského národního parku ; Jelenia Góra : Dyrekcja Karkonoskiego Parku Narodowego 2015, s. 77-82.

Klementová Š. UCH, **Keltnerová L. UCH** 2015. Triazine Herbicides in the Environment. In Price, Kelton, Sarunaite, *Herbicides, Physiology of Action, and Safety*. Alabama, USA : InTech, Chapters published December 02 2015 under CC BY 3.0 license, s. 71-96.

Kodrík D. KFZ, Plavšín I., Velki M., **Stašková T. KFZ** 2015. Enhancement of insecticide efficacy by adipokinetic hormones. In *Insecticides: Occurrence, Global Threats and Ecological Impact*. New York : Nova Science Publishers, Inc., s. 77-91.

Komárek J. KBO, **Sirová D. KBE**, Komárková J., Rejmánková E. 2015. Structure and Function of Cyanobacterial Mats in Wetlands of Belize. In *Microbiology of the Everglades Ecosystem*. Boca Raton : CRC Press, s. 194-217.

Kovačiková L. LAPE 2015. Kosti. In *Vrcovice: hradiště z počátku střední doby bronzové*. České Budějovice : Jihočeské muzeum v Českých Budějovicích, s. 199-200.

Novák J. LAPE 2015. Uhlíky. In *Vrcovice: hradiště z počátku střední doby bronzové*. České Budějovice : Jihočeské muzeum v Českých Budějovicích, s. 196-198.

Šálková T. LAPE 2015. Rostlinné makrozbytky. In *Vrcovice: hradiště z počátku střední doby bronzové*. České Budějovice : Jihočeské muzeum v Českých Budějovicích, s. 193-196.

Šálková T. LAPE, **Houfková P. LAPE**, **Novák J. LAPE** 2015. Prostorové vlastnosti archeoenvironmentálních dat. In *Vrcovice: hradiště z počátku střední doby bronzové*. České Budějovice : Jihočeské muzeum v Českých Budějovicích, s. 201-203.