

## **Publikace PŘF za rok 2020:**

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### **Články v databázi WOS (články s IF)**

Adamec F. **UFY**, Farci D., Bína D. **UCH**, Litvín R. **UCH**, Khan T. **UFY**, Fuciman M. **UFY**, Piano D., Polívka T. **UFY** 2020. Photophysics of deinoxanthin, the keto-carotenoid bound to the main S-layer unit of *Deinococcus radiodurans*. *Photochemical & Photobiological Sciences* 19: 495-503. <http://dx.doi.org/10.1039/d0pp00031k>

Ahuja V., Macho M. **UCH**, Ewe D., Singh M., Saha S., Saurav K. 2020. Biological and Pharmacological Potential of Xylitol: A Molecular Insight of Unique Metabolism. *Foods* 9: nestránkováno. <http://dx.doi.org/10.3390/foods9111592>

Aksoy B.T., Keşan G. **UFY**, Özcan E. **UFY**, Ecik E.T., Dere A., Karabulut A., Yakuphanoglu F., Cosut B. 2020. Solution-processable BODIPY decorated triazine photodiodes and their comprehensive photophysical evaluation. *New Journal of Chemistry* 44: 2155-2165. <http://dx.doi.org/10.1039/c9nj05662a>

Akter A. **KZO**, Biella P., Batary P., Klecka J. 2020. Changing pollinator communities along a disturbance gradient in the Sundarbans mangrove forest: A case study on *Acanthus ilicifolius* and *Avicennia officinalis*. *Global Ecology and Conservation* 24: nestránkováno. <http://dx.doi.org/10.1016/j.gecco.2020.e01282>

Alama-Bermejo G., Meyer E., Atkinson S.D., Holzer A.S., Wisniewska M.M., Kolísko M. **KMB**, Bartholomew J.L. 2020. Transcriptome-Wide Comparisons and Virulence Gene Polymorphisms of Host-Associated Genotypes of the Cnidarian Parasite *Ceratomyxa shasta* in Salmonids. *Genome Biology and Evolution* 12: 1258-1276. <http://dx.doi.org/10.1093/gbe/evaa109>

Altman J., Treydte K., Pejcha V., Cerny T., Petrik P., Šrůtek M. **KBO**, Song J., Trouet V., Doležal J. **KBO** 2020. Tree growth response to recent warming of two endemic species in Northeast Asia. *Climatic Change* 162: 1345-1364. <http://dx.doi.org/10.1007/s10584-020-02718-1>

Andresen E., Lyubenova L., Hubacek T., Bokhari S.N.H., Matouskova S., Mijovilovich A., Rohovec J., Küpper H. **KEBR** 2020. Chronic exposure of soybean plants to nanomolar cadmium reveals specific additional high-affinity targets of cadmium toxicity. *Journal of Experimental Botany* 71: 1628-1644. <http://dx.doi.org/10.1093/jxb/erz530>

Aounallah H., Bensaoud Ch., M'ghirbi Y., Faria F., Chmelař J. **KME**, Kotsyfakis M. **KME** 2020. Tick Salivary Compounds for Targeted Immunomodulatory Therapy. *Frontiers in Immunology* 11: nestránkováno. <http://dx.doi.org/10.3389/fimmu.2020.583845>

Aphasizheva I., Alfonzo J., Carnes J., Cestari I., Cruz-Reyes J., Goeringer H.U., Hajduk S., Lukeš J. **KMB**, Madison-Antenucci S., Maslov D.A., McDermott S.M., Ochsenreiter T., Read L.K., Salavati R., Schnauffer A., Schneider A., Simpson L., Stuart K., Yurchenko V., Zhou Z.H., Ziková A. **KMB**, Zhang L., Zimmer S., Aphasizhev R. 2020. Lexis and Grammar of Mitochondrial RNA Processing in Trypanosomes. *Trends in Parasitology* 36: 337-355. <http://dx.doi.org/10.1016/j.pt.2020.01.006>

Artigas-Jeronimo S., Pastor Comin J.J., Villar M., Contreras M., Alberdi P., Leon Viera I., Soto L., Cordero R., Valdés J.J. **KMB**, KPA, Cabezas-Cruz A., Estrada-Pena A., de la Fuente J. 2020. A Novel Combined Scientific and Artistic Approach for the Advanced Characterization of Interactomes: The Akirin/Subolesin Model. *Vaccines* 8: nestránkováno. <http://dx.doi.org/10.3390/vaccines8010077>

Aryafard M. **UCH**, Karimi A., Harifi-Mood A.R., Minofar B. **UCH** 2020. Molecular Dynamics Simulations, Solvatochromic Parameters, and Preferential Solvation in Aqueous Solutions of Ethaline, Ethylene Glycol, and

Choline Chloride. *Journal of chemical and engineering data* 65: 4556-4566. <http://dx.doi.org/10.1021/acs.jced.0c00381>

**Aslam M. KZO, Nedvěd O. KZO, Sam K. KZO** 2020. Attacks by predators on artificial cryptic and aposematic insect larvae. *Entomologia Experimentalis et Applicata* 168: 184-190. <http://dx.doi.org/10.1111/eea.12877>

Aubrechtova T., **Semančíková E. KBE**, Raska P. 2020. Formulation Matters! The Failure of Integrating Landscape Fragmentation Policy. *Sustainability* 12: nestránkováno. <http://dx.doi.org/10.3390/su12103962>

**Ávila Robledillo L. KMB**, Neumann P., Koblizkova A., Novak P., Vrbova I., Macas J. 2020. Extraordinary Sequence Diversity and Promiscuity of Centromeric Satellites in the Legume Tribe Fabaeae. *Molecular Biology and Evolution* 37: 2341-2356. <http://dx.doi.org/10.1093/molbev/msaa090>

Axmanova I., **Robovský J. KZO**, Tichy L., Danihelka J., Troeva E., Protopopov A., Chytrý M. 2020. Habitats of Pleistocene megaherbivores reconstructed from the frozen fauna remains. *Ecography* 43: 703-713. <http://dx.doi.org/10.1111/ecoq.04940>

Babaei A., Ranglová K., **Malapascua JR. UCH**, Torzillo G., Shayegan J., Silva Benavides AM., **Masojídek J. KEBR** 2020. Photobiochemical changes in *Chlorella* culture during trophic conversion (metabolic pathway shift) from heterotrophic to phototrophic growth regime. *Journal of Applied Phycology* 32: 2807-2818. <http://dx.doi.org/10.1007/s10811-020-02137-w>

Bajgarová Z., **Bajgar A. KMB** 2020. The relationships among MAOA, COMT Val158Met, and 5-HTTLPR polymorphisms, newborn stress reactivity, and infant temperament. *Brain and Behavior* 10: nestránkováno. <http://dx.doi.org/10.1002/brb3.1511>

**Balami S. KBO, Vašutová M. KBO**, Godbold D., **Kotas P. KBE**, Cudlín P. 2020. Soil fungal communities across land use types. *iForest-Biogeosciences and Forestry* 13: 548-558. <http://dx.doi.org/10.3832/for3231-013>

Bartos M., Janecek S., **Janečková P. KBO**, Padysakova E., Tropek R., Goetzenberger L., Klomberg Y., **Jersáková J. KBE** 2020. Self-compatibility and autonomous selfing of plants in meadow communities. *Plant Biology* 22: 120-128. <http://dx.doi.org/10.1111/plb.13049>

Bartos M., Janecek S., **Janečková P. KBO**, Chmelova E., Tropek R., **Götzenberger L. KBO**, Klomberg Y., **Jersáková J. KBE** 2020. Are Reproductive Traits Related to Pollen Limitation in Plants? A Case Study from a Central European Meadow. *Plants-Basel* 9: nestránkováno. <http://dx.doi.org/10.3390/plants9050640>

**Basset YF. KZO**, Palacios-Vargas JG., Donoso DA., Castano-Meneses G., Decaens T., **Lamarre GPA. KZO**, De Leon LF., Rivera M., Garcia-Gomez A., Perez F., Bobadilla R., Lopez Y., Alejandro Ramirez J., Montejo Cruz M., Arango Galvan A., Mejia-Recamier BE., Barrios H. 2020. Enemy-free space and the distribution of ants, springtails and termites in the soil of one tropical rainforest. *European Journal of Soil Biology* 99: nestránkováno. <http://dx.doi.org/10.1016/j.ejsobi.2020.103193>

Bazsalovicsova E., Kralova-Hromadova I., Juhasova L., Mikulicek P., Oravcova A., Minarik G., **Štefka J. KMB** 2020. Comparative analysis of monozoic fish tapeworms *Caryophyllaeus laticeps* (Pallas, 1781) and recently described *Caryophyllaeus chondrostomi* Barcak, Oros, Hanzelova, Scholz, 2017, using microsatellite markers. *Parasitology Research* 119: 3995-4004. <http://dx.doi.org/10.1007/s00436-020-06898-8>

Becerra-Absalon I., **Johansen JR. KBO**, Osorio-Santos K., Montejano G. 2020. Two new *Oculatella* (*Oculatellaceae*, Cyanobacteria) species in soil crusts from tropical semi-arid uplands of Mexico. *Fottea* 20: 160-170. <http://dx.doi.org/10.5507/fot.2020.010>

Benoni R., Culka M., Hudecek O., **Gahurová L. KMB**, Cahova H. 2020. Dinucleoside Polyphosphates as RNA Building Blocks with Pairing Ability in Transcription Initiation. *ACS Chemical Biology* 15: 1765-1772. <http://dx.doi.org/10.1021/acscchembio.0c00178>

**Biella P. KZO, Akter A. KZO**, Ollerton J., Nielsen A., Klecka J. 2020. An empirical attack tolerance test alters the structure and species richness of plant-pollinator networks. *Functional Ecology* 34: 2246-2258. <http://dx.doi.org/10.1111/1365-2435.13642>

Biranvand A., **Nedvěd O. KZO**, Karimi S., Vahedi H., Hesami S., Lotfalizadeh H., Ajamhasani M., Ceryngier P. 2020. Parasitoids of the ladybird beetles (Coleoptera: Coccinellidae) in Iran: an update. *Annales de la Société entomologique de France* 56: 106-114. <http://dx.doi.org/10.1080/00379271.2020.1717378>

**Biriukov D. UFY, Fibich P. KBO, Předota M. UFY** 2020. Zeta Potential Determination from Molecular Simulations. *Journal of Physical Chemistry C* 124: 3159-3170. <http://dx.doi.org/10.1021/acs.jpcc.9b11371>

Bischoff M., **Biriukov D. UFY, Předota M. UFY**, Roke S., Marchioro A. 2020. Surface Potential and Interfacial Water Order at the Amorphous TiO<sub>2</sub> Nanoparticle/Aqueous Interface. *Journal of Physical Chemistry C* 124: 10961-10974. <http://dx.doi.org/10.1021/acs.jpcc.0c01158>

Blackwell M., **Haelewaters D. KZO**, Pfister DH. 2020. Laboulbeniomyces: Evolution, natural history, and Thaxter's final word. *Mycologia* 112: 1048-1059. <http://dx.doi.org/10.1080/00275514.2020.1718442>

Bodawatta KH., Schierbech SK., Petersen NR., **Sam K. KZO**, Bos N., Jonsson KA., Poulsen M. 2020. Great Tit (*Parus major*) Uropygial Gland Microbiomes and Their Potential Defensive Roles. *Frontiers in Microbiology* 11: nestránkováno. <http://dx.doi.org/10.3389/fmicb.2020.01735>

Bodawatta KH., Synek P., Bos N., Garcia-del-Rey E., Koane B., Marki PZ., Albrecht T., Lifjeld J., Poulsen M., Munclinger P., **Sam K. KZO**, Jonsson KA. 2020. Spatiotemporal patterns of avian host-parasite interactions in the face of biogeographical range expansions. *Molecular Ecology* 29: 2431-2448. <http://dx.doi.org/10.1111/mec.15486>

**Bondar A. KMB**, Jang W., Sviridova E., Lambert NA. 2020. Components of the G(s) signaling cascade exhibit distinct changes in mobility and membrane domain localization upon beta(2)-adrenergic receptor activation. *Traffic* 21: 324-332. <http://dx.doi.org/10.1111/tra.12724>

Born-Torrijos A., Paterson RA., van Beest GS., Schwelm J., **Vyhliđalová T. KPA**, Henriksen EH., Knudsen R., Kristoffersen R., Amundsen P., Soldanova M. 2020. Temperature does not influence functional response of amphipods consuming different trematode prey. *Parasitology Research* 119: 4271-4276. <http://dx.doi.org/10.1007/s00436-020-06859-1>

**Brdíčková K. KPA**, Sak B., Holubová N., Kvetonova D., Hlaskova L., Kicia M., Kopacz Z., Kváč M. 2020. Encephalitozoon cuniculi Genotype II Concentrates in Inflammation Foci. *Journal of Inflammation Research* 13: 583-593. <http://dx.doi.org/10.2147/JIR.S271628>

Briik V., Kolecek J., Burgess M., Hahn S., Humple D., Krist M., Ouwehand J., Weiser EL., Adamik P., Alves JA., Art D., Barisic S., Becker D., Belda EJ., Beran V., Both Ch., Bravo SP., Briedis M., Chutny B., Cikovic D., Cooper NW., Costa JS., Cueto VR., Emmenegger T., Fraser K., Gilg O., Guerrero M., Hallworth MT., Hewson Ch., Jiguet F., Johnson JA., Kelly T., Kishkinev D., Leconte M., Lislevand T., Lisovski S., Lopez C., McFarland KP., Marra PP., Matsuoka SM., Matyjasiak P., Meier ChM., Metzger B., Monros JS., Neumann R., Newman A., Norris R., Part T., **Pavel V. CPE**, Perlut N., Piha M., Reneerkens J., Rimmer ChC., Roberto-Charron A., Scandolara Ch., Sokolova N., Takenaka M., Tolkmitt D., Van Oosten H., Wellbrock AHJ., Wheeler H., van der Winden J., Witte K., Woodworth BK., Prochazka P. 2020. Weak effects of geolocators on small birds: A meta-analysis controlled for phylogeny and publication bias. *Journal of Animal Ecology* 89: 207-220. <http://dx.doi.org/10.1111/1365-2656.12962>

Brodsky K., **Kutý M. UCH**, Pelantova H., Cvacka J., Rebroš M., Kotik M., **Kutá Smatanová I. UCH**, Kren V., Bojarova P. 2020. Dual Substrate Specificity of the Rutinosidase from *Aspergillus niger* and the Role of Its Substrate Tunnel. *International Journal of Molecular Sciences* 21: nestránkováno. <http://dx.doi.org/10.3390/ijms21165671>

Broom M., **Křivan V. UMB** 2020. Two-strategy games with time constraints on regular graphs. *Journal of Theoretical Biology* 506: nestránkováno. <http://dx.doi.org/10.1016/j.jtbi.2020.110426>

**Brown JJ. KZO**, Mihaljevic J., Des ML., **Hrček J. KZO** 2020. Metacommunity theory for transmission of heritable symbionts within insect communities. *Ecology and Evolution* 10: 1703-1721. <http://dx.doi.org/10.1002/ece3.5754>

**Brown JJ. KZO, Rodriguez Ruano SM. KPA, Poosakkannu A. KPA, Giampiero B. KPA**, Schmidt JO., Roachell W., **Zima J. KPA, Hypša V. KPA, Nováková E. KPA** 2020. Ontogeny, species identity, and environment dominate microbiome dynamics in wild populations of kissing bugs (Triatominae). *Microbiome* 8: nestránkováno. <http://dx.doi.org/10.1186/s40168-020-00921-x>

Brunanska M., Matouskova M., Jasinska R., **Nebesářová J. UFY**, Poddubnaya LG. 2020. Spermiogenesis produces the spermatozoa with 9+1' and 9+0 axonemal pattern in progenetic cestode *Diplocotyle olrikii* Krabbe, 1874 (Spathelothriidea: Acrobothriidae). *Parasitology Research* 119: 4103-4111. <http://dx.doi.org/10.1007/s00436-020-06862-6>

Brunanska M., Matouskova M., Jasinska R., **Nebesářová J. UFY**, Poddubnaya LG. 2020. Heteromorphism of sperm axonemes in a parasitic flatworm, progenetic *Diplocotyle olrikii* Krabbe, 1874 (Cestoda, Spathelothriidea). *Parasitology Research* 119: 177-187. <http://dx.doi.org/10.1007/s00436-019-06524-2>

**Bryndová M. KBE**, Stec D., Schill RO., Michalczyk L., **Devetter M. CPE, KBE** 2020. Dietary preferences and diet effects on life-history traits of tardigrades. *Zoological Journal of the Linnean Society* 188: 865-877.

Burnham ChJ., **Futera Z. UFY**, Bacic Z., English NJ. 2020. Hydrogen Intramolecular Stretch Redshift in the Electrostatic Environment of Type II Clathrate Hydrates from Schrodinger Equation Treatment. *Applied Sciences-Basel* 10: nestránkováno. <http://dx.doi.org/10.3390/app10238504>

Butenko A., Opperdoes FR., Flegontova O., **Horák A. KMB**, Hampl V., Keeling P., Gawryluk RMR., Tikhonenkov D., Flegontov P., **Lukeš J. KMB** 2020. Evolution of metabolic capabilities and molecular features of diplomonads, kinetoplastids, and euglenids. *BMC Biology* 18: nestránkováno. <http://dx.doi.org/10.1186/s12915-020-0754-1>

Calabrese AN., Schiffrin B., Watson M., Karamanos TK., Walko M., Humes JR., Horne JE., White P., Wilson AJ., Kalli AC., **Tůma R. UCH**, Ashcroft AE., Brockwell DJ., Radford SE. 2020. Inter-domain dynamics in the chaperone SurA and multi-site binding to its outer membrane protein clients. *Nature Communications* 11: nestránkováno. <http://dx.doi.org/10.1038/s41467-020-15702-1>

Calatayud J., Andivia E., Escudero A., Melian CJ., Bernardo-Madrid R., Stoffel M., Aponte C., **García-Medina N. KBO**, Molina-Venegas R., Arnan X., Rosvall M., Neuman M., Ari Noriega J., Alves-Martins F., Draper I., Luzuriaga A., Ballesteros-Canovas JA., Morales-Molino C., Ferrandis P., Herrero A., Pataro L., Juen L., Cea A., Madrigal-Gonzalez J. 2020. Positive associations among rare species and their persistence in ecological assemblages. *Nature Ecology & Evolution* 4: 40-+. <http://dx.doi.org/10.1038/s41559-019-1053-5>

Canarini A., Wanek W., Watzka M., Sanden T., Spiegel H., **Šantrůček J. KEBR**, Schneckner J. 2020. Quantifying microbial growth and carbon use efficiency in dry soil environments via (18)O water vapor equilibration. *Global Change Biology* 26: 5333-5341. <http://dx.doi.org/10.1111/gcb.15168>

**Canonico M. KEBR**, Konert G., **Kaňa R. KEBR** 2020. Plasticity of Cyanobacterial Thylakoid Microdomains Under Variable Light Conditions. *Frontiers in Plant Science* 11: nestránkováno. <http://dx.doi.org/10.3389/fpls.2020.586543>

Capotorti G., Bonacquisti S., Abis L., Aloisi I., Attorre F., Bacaro G., Balletto G., Banfi E., Barni E., Bartoli F., Bazzato E., Beccaccioli M., Braglia R., Bretzel F., Brighetti MA., Brundu G., Burnelli M., Calfapietra C., Cambria VE., Caneva G., Canini A., Caronni S., Castello M., Catalano C., Celesti-Grappo L., Cicinelli E., Cipriani L., Citterio S., Concu G., Coppi A., Corona E., Del Duca S., Del VE., Di Gristina E., Domina G., Faino L., Fano EA., Fares S., Farris E., Farris S., Fornaciari M., Gaglio M., Galasso G., Galletti M., Gargano ML., Gentili R., Giannotta AP., Guarino C., Guarino R., Iaquina G., Iiriti G., Lallai A., Lallai E., Lattanzi E., Manca S., Manes F., Marignani M., Marinangeli F., Mariotti M., Mascia F., Mazzola P., Meloni G., Michelozzi P., Miraglia A., Montagnani C., Mundula L., Muresan AN., Musanti F., Nardini A., Nicosia E., Oddi L., Orlandi F., Pace R., Palumbo ME., Palumbo S., Parrotta L., Pasta S., Perini K., Poldini L., Postiglione A., Prigioniero A., Proietti C., Raimondo FM., Ranfa A., Redi EL., Reverberi M., Rocciotello E., Ruga L., Savo V., Scarano P., Schirru F., Sciarrillo R., Scuderi F., Sebastiani A., Siniscalco C., Sordo A., Suanno C., Tartaglia M., Tilia A., **Toffolo Ch. KBO**, Toselli E., Travaglini A., Ventura F., Venturella G., Vincenzi F., Blasi C. 2020. More nature in the city. *Plant Biosystems* 154: 1003-1006. <http://dx.doi.org/10.1080/11263504.2020.1837285>

Carotenuto AR., Guarracino F., **Šumbera R. KZO**, Fraldi M. 2020. Burrowing below ground: interaction between soil mechanics and evolution of subterranean mammals. *Journal of the Royal Society Interface* 17: nestránkováno. <http://dx.doi.org/10.1098/rsif.2019.0521>

Casamatta DA., Villanueva ChD., Garvey AD., Stocks HS., Vaccarino M., Dvorak P., Hasler P., **Johansen JR. KBO** 2020. *Reptodigitus Chapmanii* (Nostocales, Hapalosiphonaceae) Gen. Nov.: A Unique Nostoclean (Cyanobacteria) Genus Based on a Polyphasic Approach(1). *Journal of Phycology* 56: 425-436. <http://dx.doi.org/10.1111/jpy.12954>

Cassel-Lundhagen A., Schmitt T., Wahlberg N., Sarvasova L., **Konvička M. KZO**, Ryrholm N., Kanuch P. 2020. Wing morphology of the butterfly *Coenonympha arcania* in Europe: Traces of both historical isolation in glacial refugia and current adaptation. *Journal of Zoological Systematics and Evolutionary Research* 58: 929-943. <http://dx.doi.org/10.1111/jzs.12360>

Cerdan L., Frances-Monerris A., Roca-Sanjuan D., Bould J., Dolansky J., **Fuciman M. UFY**, Londesborough MGS. 2020. Unveiling the role of upper excited electronic states in the photochemistry and laser performance of anti-B18H22. *Journal of Materials Chemistry C* 8: 12806-12818. <http://dx.doi.org/10.1039/d0tc02309d>

Correa Dias AT., Rosado BHP., **De Bello F. KBO**, Piston N., de Mattos EA. 2020. Alternative plant designs: consequences for community assembly and ecosystem functioning. *Annals of Botany* 125: 391-398. <http://dx.doi.org/10.1093/aob/mcz180>

Cressman R., **Křivan V. UMB** 2020. Reducing courtship time promotes marital bliss: The Battle of the Sexes game revisited with costs measured as time lost. *Journal of Theoretical Biology* 503: nestránkováno. <http://dx.doi.org/10.1016/j.jtbi.2020.110382>

Croizat G., Gregor A., Gerelli E., Joniova J., **Scholz M. PĚF**, Wagnieres G. 2020. A general framework for non-exponential delayed fluorescence and phosphorescence decay analysis, illustrated on Protoporphyrin IX. *Journal of Photochemistry and Photobiology B-Biology* 209: nestránkováno. <http://dx.doi.org/10.1016/j.jphotobiol.2020.111887>

**Csercsáné Vojtkó A. KBO**, **De Bello F. KBO**, Durka W., Kuehn I., **Götzenberger L. KBO** 2020. The neglected importance of floral traits in trait-based plant community assembly. *Journal of Vegetation Science* 31: 529-539. <http://dx.doi.org/10.1111/jvs.12877>

**Csercsáné Vojtkó A. KBO**, Balogh N., Deak B., Kelemen A., Kis S., Kiss R., Lovas-Kiss A., Loki V., Lukacs K., Molnar V. A., Nagy T., Sonkoly J., Suveges K., Takacs A., Toth E., Toth K., Tothmeresz B., Torok P., Valko O., Vojtko A., Lukacs BA. 2020. Leaf trait records of vascular plant species in the Pannonian flora with special focus on endemics and rarities. *Folia Geobotanica* 55: 73-79. <http://dx.doi.org/10.1007/s12224-020-09363-7>

Cvrtlikova M., **Kopáček J. KBE**, Nedoma J., **Znachor P. KBE**, **Vrba J. KBE** 2020. Only the adults survive - A long-term resistance of *Isoetes lacustris* to acidity and aluminium toxicity stress in a Bohemian Forest lake. *Ecological Indicators* 111: nestránkováno. <http://dx.doi.org/10.1016/j.ecolind.2019.106026>

**Davidková M. KZO**, **Veselý P. KZO**, **Syrová M. KZO**, **Nácarová J. KZO**, Bugnyar T. 2020. Ravens respond to unfamiliar corvid alarm calls. *Journal of Ornithology* 161: 967-975. <http://dx.doi.org/10.1007/s10336-020-01781-w>

de Paula LFA., Colmenares-Trejos SL., Negreiros D., Rosado BHP., de Mattos EA., **De Bello F. KBO**, Porembski S., Silveira FAO. 2020. High plant taxonomic beta diversity and functional and phylogenetic convergence between two Neotropical inselbergs. *Plant Ecology & Diversity* 13: 61-73. <http://dx.doi.org/10.1080/17550874.2019.1673846>

del Llano E., Masek T., **Gahurová L. KMB**, Pospisek M., Koncicka M., Jindrova A., Jansova D., Iyyappan R., Roucova K., **Bruce AW. KMB**, Kubelka M., Susor A. 2020. Age-related differences in the translational landscape of mammalian oocytes. *Aging Cell* 19: nestránkováno. <http://dx.doi.org/10.1111/accel.13231>

**Delabye SJJ. KZO**, Sedlacek O., Maicher V., Tropek R. 2020. New records of six moth (Lepidoptera: Erebiidae, Lasiocampidae) species in south African countries, with comments on their distribution. *Biodiversity Data Journal* 8: nestránkováno. <http://dx.doi.org/10.3897/BDJ.8.e59339>

**Delabye SJJ. KZO**, Maicher V., **Sáfián S. KZO**, Potocky P., Mertens JEJ., Przybylowicz L., Murkwe M., Kobe IN., Fokam EB., Janecek S., Tropek R. 2020. First records of 31 species of butterflies and moths (Lepidoptera) in Cameroon, with remarks on their elevational ranges. *Biodiversity Data Journal* 8: nestránkováno. <http://dx.doi.org/10.3897/BDJ.8.e50543>

Dengler J., Matthews TJ., Steinbauer MJ., Wolfrum S., Boch S., Chiarucci A., Conradi T., Dembicz I., Marceno C., Garcia-Mijangos I., Nowak A., Storch D., Ulrich W., Campos JA., Cancellieri L., Carboni M., Ciaschetti G., De Frenne P., **Doležal J. KBO**, Dolnik Ch., Essl F., Fantinato E., Filibeck G., Grytnes J., Guarino R., Gueler B., Janisova M., Klichowska E., Kozub L., Kuzemko A., Manthey M., Mimet A., Naqinezhad A., Pedersen Ch., Peet RK., Pellissier V., Pielech R., Potenza G., Rosati L., Terzi M., Valko O., Vynokurov D., White H., Winkler M., Biurrun I. 2020. Species-area relationships in continuous vegetation: Evidence from Palaearctic grasslands. *Journal of Biogeography* 47: 72-86. <http://dx.doi.org/10.1111/jbi.13697>

Diagne C., Leroy B., Gozlan RE., Vaissiere A., Assailly C., Nuninger L., Roiz D., Jourdain F., **Jarić I. KBE**, Courchamp F. 2020. InvaCost, a public database of the economic costs of biological invasions worldwide. *Scientific Data* 7: nestránkováno. <http://dx.doi.org/10.1038/s41597-020-00586-z>

Didham RK., **Basset YF. KZO**, Collins CM., Leather SR., Littlewood NA., Menz MHM., Mueller J., Packer L., Saunders ME., Schonrogge K., Stewart AJA., Yanoviak SP., Hassall Ch. 2020. Interpreting insect declines: seven challenges and a way forward. *Insect Conservation and Diversity* 13: 103-114. <http://dx.doi.org/10.1111/icad.12408>

Dolezelova E., **Kunzová M. KMB**, Dejung M., Levin M., Panicucci B., Regnault C., Janzen ChJ., Barrett MP., Butter F., **Zíková A. KMB** 2020. Cell-based and multi-omics profiling reveals dynamic metabolic repurposing of mitochondria to drive developmental progression of *Trypanosoma brucei*. *PLoS Biology* 18: nestránkováno. <http://dx.doi.org/10.1371/journal.pbio.3000741>

**Doležal J. KBO**, **Fibich P. KBO**, Altman J., **Lepš J. KBO**, Uemura S., Takahashi K., Hara T. 2020. Determinants of ecosystem stability in a diverse temperate forest. *Oikos* 129: 1692-1703. <http://dx.doi.org/10.1111/oik.07379>

**Doležal J. KBO**, Kurnotova M., Stastna P., Klimesova J. 2020. Alpine plant growth and reproduction dynamics in a warmer world. *New Phytologist* 228: 1295-1305. <http://dx.doi.org/10.1111/nph.16790>

Dominguez-Martin MA., Hammel M., Gupta S., Lechno-Yossef S., Sutter M., Rosenberg DJ., Chen Y., Petzold ChJ., Ralston CY., **Polívka T. UFY**, Kerfeld ChA. 2020. Structural analysis of a new carotenoid-binding protein: the C-terminal domain homolog of the OCP. *Scientific Reports* 10: nestránkováno. <http://dx.doi.org/10.1038/s41598-020-72383-y>

Durante IM., Butenko A., **Rašková V. KMB**, Charyyeva A., Svobodova M., Yurchenko V., **Hashimi MMH. KMB**, **Lukeš J. KMB** 2020. Large-Scale Phylogenetic Analysis of Trypanosomatid Adenylate Cyclases Reveals Associations with Extracellular Lifestyle and Host-Pathogen Interplay. *Genome Biology and Evolution* 12: 2403-2416. <http://dx.doi.org/10.1093/gbe/evaa226>

**Dvořáček J. KZO, Sehadová H. KMB, KME, Weyda F. KME, Tomčala A., Hejníková M. KZO, Kodrík D. KZO** 2020. First Comprehensive Study of a Giant among the Insects, *Titanus giganteus*: Basic Facts from Its Biochemistry, Physiology, and Anatomy. *Insects* 11: nestránkováno. <http://dx.doi.org/10.3390/insects11020120>

**Dvořáčková O. UFY, Chval Z.** 2020. Tuning the Reactivity and Bonding Properties of Metal Square-Planar Complexes by the Substitution(s) on the Trans-Coordinated Pyridine Ring. *ACS Omega* 5: 11768-11783. <http://dx.doi.org/10.1021/acsomega.0c01161>

**Edwards KR. KBE, Čížková H.** 2020. Nutrient Inputs and Hydrology Interact with Plant Functional Type in Affecting Plant Production and Nutrient Contents in a Wet Grassland. *Wetlands* 40: 707-719. <http://dx.doi.org/10.1007/s13157-019-01216-0>

Ersoy Z., Scharfenberger U., Baho DL., Bucak T., Feldmann T., Hejzlar J., Levi EE., Mahdy A., Noges T., Papastergiadou E., Stefanidis K., **Šorf M. KBE, Sondergaard M., Trígal C., Jeppesen E., Beklioglu M.** 2020. Impact of nutrients and water level changes on submerged macrophytes along a temperature gradient: A pan-European mesocosm experiment. *Global Change Biology* 26: 6831-6851. <http://dx.doi.org/10.1111/gcb.15338>

Estruch C., **Macek P. CPE, Armas C., Piston N., Pugnaire FI.** 2020. Species identity improves soil respiration predictions in a semiarid scrubland. *Geoderma* 363: nestránkováno. <http://dx.doi.org/10.1016/j.geoderma.2019.114153>

**Faktorová D. KMB, Kaur B. KMB, Valach M., Graf L., Benz C., Burger G., Lukeš J. KMB** 2020. Targeted integration by homologous recombination enables in situ tagging and replacement of genes in the marine microeukaryote *Diplonema papillatum*. *Environmental Microbiology* 22: 3660-3670. <http://dx.doi.org/10.1111/1462-2920.15130>

**Faltýnek Fric Z. KZO, Rindoš M. KZO, Konvička M. KZO** 2020. Phenology responses of temperate butterflies to latitude depend on ecological traits. *Ecology Letters* 23: 172-180. <http://dx.doi.org/10.1111/ele.13419>

Fanta V., Zouhar J., **Beneš J. LAPE, Bumerl J. LAPE, Sklenicka P.** 2020. How old are the towns and villages in Central Europe? Archaeological data reveal the size of bias in dating obtained from traditional historical sources. *Journal of Archaeological Science* 113: nestránkováno. <http://dx.doi.org/10.1016/j.jas.2019.105044>

Flegontova O., Flegontov P., Londono PAC., Walczowski W., Santic D., Edgcomb VP., **Lukeš J. KMB, Horák A. KMB** 2020. Environmental determinants of the distribution of planktonic diplomonads and kinetoplastids in the oceans. *Environmental Microbiology* 22: 4014-4031. <http://dx.doi.org/10.1111/1462-2920.15190>

**Fojtíková P. UCH, Kahoun D. UCH, Bocek J., Burian M., Kupka R., Schwarz J.** 2020. Tracking AdBlue properties during tests of selective catalytic reduction (SCR) systems - the suitability of various analytical methods for urea content determination. *International Journal of Energy Research* 44: 2549-2559. <http://dx.doi.org/10.1002/er.4921>

Frkova Z., Vystavna Y., Koubová A., **Kotas P. KBE, Grabicová K., Grabic R., Kodesova R., Chronakova A.** 2020. Microbial responses to selected pharmaceuticals in agricultural soils: Microcosm study on the roles of soil, treatment and time. *Soil Biology & Biochemistry* 149: nestránkováno. <http://dx.doi.org/10.1016/j.soilbio.2020.107924>

**Füssy Z. KMB, UCH, Zahonova K., Tomčala A., Krajcovic J., Yurchenko V., Oborník M. KMB, Elias M.** 2020. The Cryptic Plastid of *Euglena longa* Defines a New Type of Nonphotosynthetic Plastid Organelle. *mSphere* 5: nestránkováno. <http://dx.doi.org/10.1128/mSphere.00675-20>

**Futera Z. UFY, Ide I., Kayser B., Garg K., Jiang X., van Wonderen JH., Butt JN., Ishii H., Pecht I., Sheves M., Cahen D., Blumberger J.** 2020. Coherent Electron Transport across a 3 nm Bioelectronic Junction Made of Multi-Heme Proteins. *JOURNAL OF PHYSICAL CHEMISTRY LETTERS* 11: 9766-9774. <http://dx.doi.org/10.1021/acs.jpcllett.0c02686>

**Futera Z. UFY, Jiang X., Blumberger J.** 2020. Ergodicity Breaking in Thermal Biological Electron Transfer? Cytochrome C Revisited II. *Journal of Physical Chemistry B* 124: 3336-3342. <http://dx.doi.org/10.1021/acs.jpccb.0c01414>

**Futera Z. UFY, Tse JS., English NJ.** 2020. Possibility of realizing superionic ice VII in external electric fields of planetary bodies. *Science Advances* 6: nestránkováno. <http://dx.doi.org/10.1126/sciadv.aaz2915>

**Galland T. KBO, Carmona CP., Götzenberger L. KBO, Valencia E., De Bello F. KBO** 2020. Are redundancy indices redundant? An evaluation based on parameterized simulations. *Ecological Indicators* 116: nestránkováno. <http://dx.doi.org/10.1016/j.ecolind.2020.106488>

Garg KM., Chattopadhyay B., Koane B., **Sam K. KZO, Rheindt FE.** 2020. Last Glacial Maximum led to community-wide population expansion in a montane songbird radiation in highland Papua New Guinea. *BMC Evolutionary Biology* 20: nestránkováno. <http://dx.doi.org/10.1186/s12862-020-01646-z>

**Gautam UK. KZO, Hlávková D. KZO**, Shaik HA., Karaca I., Karaca G., Sezen K., **Kodrík D. KZO** 2020. Adipokinetic Hormones Enhance the Efficacy of the Entomopathogenic Fungus *Isaria fumosorosea* in Model and Pest Insects. *Pathogens* 9: nestránkováno. <http://dx.doi.org/10.3390/pathogens9100801>

**Gautam UK. KZO**, Bohatá A., Shaik HA., Zemek R., **Kodrík D. KZO** 2020. Adipokinetic hormone promotes infection with entomopathogenic fungus *Isaria fumosorosea* in the cockroach. *Comparative Biochemistry and Physiology C - Toxicology and Pharmacology* 229: 108677. <http://dx.doi.org/10.1016/j.cbpc.2019.108677>

George EE., Husnik F., Tashyreva D., Prokopchuk G., **Horák A. KMB**, Kwong WK., **Lukeš J. KMB**, Keeling PJ. 2020. Highly Reduced Genomes of Protist Endosymbionts Show Evolutionary Convergence. *Current Biology* 30: 925-933.e3. <http://dx.doi.org/10.1016/j.cub.2019.12.070>

Gobl J., Sinha DK., Sima R., Perner J., **Kopáček P. KMB**, **Valdés JJ. KMB**, **KPA**, **Rego ROM. KPA**, Cabezas-Cruz A. 2020. Histone Methyltransferase DOT1L Is Involved in Larval Molting and Second Stage Nymphal Feeding in *Ornithodoros moubata*. *Vaccines* 8: nestránkováno. <http://dx.doi.org/10.3390/vaccines8020157>

Guizzo MG., Neupane S., **Kučera M. KZO**, Perner J., Frantova H., Vaz IdSJ., de Oliveira PL., Kopacek P., Zurek L. 2020. Poor Unstable Midgut Microbiome of Hard Ticks Contrasts With Abundant and Stable Monospecific Microbiome in Ovaries. *Frontiers in Cellular and Infection Microbiology* 10: nestránkováno. <http://dx.doi.org/10.3389/fcimb.2020.00211>

**Haelewaters D. KZO**, Hiller T., Kemp EA., van Wielink PS., Shapiro-Ilan DI., Aime MC., **Nedvěd O. KZO**, Pfister DH., Cottrell TE. 2020. Mortality of native and invasive ladybirds co-infected by ectoparasitic and entomopathogenic fungi. *PeerJ* 8: nestránkováno. <http://dx.doi.org/10.7717/peerj.10110>

Hamid M., Khuroo AA., Malik AH., Ahmad R., Singh ChP., **Doležal J. KBO**, Haq SM. 2020. Early Evidence of Shifts in Alpine Summit Vegetation: A Case Study From Kashmir Himalaya. *Frontiers in Plant Science* 11: nestránkováno. <http://dx.doi.org/10.3389/fpls.2020.00421>

Hammond MJ., **Nenarokova A. KMB**, Butenko A., Zoltner M., Dobakova EL., Field MC., **Lukeš J. KMB** 2020. A Uniquely Complex Mitochondrial Proteome from *Euglena gracilis*. *Molecular Biology and Evolution* 37: 2173-2191. <http://dx.doi.org/10.1093/molbev/msaa061>

Hejdkova E., **Elster J. CPE**, Nedbalova L. 2020. Annual Cycle of Freshwater Diatoms in the High Arctic Revealed by Multiparameter Fluorescent Staining. *Microbial Ecology* 80: 559-572. <http://dx.doi.org/10.1007/s00248-020-01521-w>

Helmova R., **Hönig V. KPA**, **Tykalová H. KPA**, Palus M., Bell-Sakyi L., **Grubhoffer L. KPA** 2020. Tick-Borne Encephalitis Virus Adaptation in Different Host Environments and Existence of Quasispecies. *Viruses - Basel* 12: nestránkováno. <http://dx.doi.org/10.3390/v12080902>

Herbrík A., Corretto E., Chronakova A., **Langhansová H. KME**, Petraskova P., Hrdy J., Cihak M., Kristufek V., Bobek J., Petricek M., **Petříčková K. UCH** 2020. A Human Lung-Associated *Streptomyces* sp. TR1341 Produces Various Secondary Metabolites Responsible for Virulence, Cytotoxicity and Modulation of Immune Response. *Frontiers in Microbiology* 10: nestránkováno. <http://dx.doi.org/10.3389/fmicb.2019.03028>

Herrera H., **Novotná A. KBE**, Ortiz J., Soto J., Arriagada C. 2020. Isolation and identification of plant growth-promoting bacteria from rhizomes of *Arachnitis uniflora*, a fully mycoheterotrophic plant in southern Chile. *Applied Soil Ecology* 149: nestránkováno. <http://dx.doi.org/10.1016/j.apsoil.2020.103512>

Herrera H., Sanhueza T., **Novotná A. KBE**, Charles TC., Arriagada C. 2020. Isolation and Identification of Endophytic Bacteria from Mycorrhizal Tissues of Terrestrial Orchids from Southern Chile. *Diversity-Basel* 12: nestránkováno. <http://dx.doi.org/10.3390/d12020055>

Hodgetts NG., Soderstrom L., Blockeel TL., Caspari S., Ignatov MS., Konstantinova NA., Lockhart N., Papp B., Schroeck C., Sim-Sim M., Bell D., Bell NE., Blom HH., Bruggeman-Nannenga MA., Brugges M., Enroth J., Flatberg KI., Garilleti R., Hedenas L., Holyoak DT., Hugonnot V., Kariyawasam I., Koeckinger H., **Kučera J. KBO**, Lara F., Porley RD. 2020. An annotated checklist of bryophytes of Europe, Macaronesia and Cyprus. *Journal of Bryology* 42: 1-116. <http://dx.doi.org/10.1080/03736687.2019.1694329>

Hofmannova L., Jirku M., Mazanek S., Gremlicova D., **Kvičerová J. KPA** 2020. *Eimeria melogale* n. sp. (Apicomplexa: Eimeriidae) in the Javan ferret-badger (*Melogale orientalis*). *European Journal of Protistology* 73: nestránkováno. <http://dx.doi.org/10.1016/j.ejop.2019.125668>

Holec J., **Kučera T. KBE** 2020. Richness and composition of macrofungi on large decaying trees in a Central European old-growth forest: a case study on silver fir (*Abies alba*). *Mycological Progress* 19: 1429-1443. <http://dx.doi.org/10.1007/s11557-020-01637-w>

- Holec J., **Kučera T. KBE**, Betak J., Hort L. 2020. Macrofungi on large decaying spruce trunks in a Central European old-growth forest: what factors affect their species richness and composition?. *Mycological Progress* 19: 53-66. <http://dx.doi.org/10.1007/s11557-019-01541-y>
- Holubová M. KBE**, Blabolil P., Cech M., Vasek M., Peterka J. 2020. Species-specific schooling behaviour of fish in the freshwater pelagic habitat: an observational study. *Journal of Fish Biology* 97: 64-74. <http://dx.doi.org/10.1111/jfb.14326>
- Horák A. KMB**, Allen AE., **Oborník M. KMB** 2020. Common origin of ornithine-urea cycle in opisthokonts and stramenopiles. *Scientific Reports* 10: nestránkováno. <http://dx.doi.org/10.1038/s41598-020-73715-8>
- Horakova E., **Faktorová D. KMB**, Kraeva N., **Kaur B. KMB**, Van Den Abbeele J., Yurchenko V., **Lukeš J. KMB** 2020. Catalase compromises the development of the insect and mammalian stages of *Trypanosoma brucei*. *FEBS Journal* 287: 964-977. <http://dx.doi.org/10.1111/febs.15083>
- Houadria MYI., Feldhaar H., Fiala B., **Leština D. KZO**, Chung A., Salleh A., Justin H., **Kokořová P. KBE**, **Fayle TM. KZO** 2020. Reduced benefits of ant occupation for ant-trees in oil palm compared with heavily logged forest. *Symbiosis* 81: 79-91. <http://dx.doi.org/10.1007/s13199-020-00684-x>
- Hrdina J., **Zalabová L. UMB** 2020. Local Geometric Control of a Certain Mechanism with the Growth Vector (4,7). *Journal of dynamical and control systems* 26: 199-216. <http://dx.doi.org/10.1007/s10883-019-09460-7>
- Hrdý J., Sukenikova L., Petraskova P., Novotna O., **Kahoun D. UCH**, Petricek M., Chronakova A., **Petříčková K. UCH** 2020. Inhibition of Pro-Inflammatory Cytokines by Metabolites of *Streptomyces*-A Potential Alternative to Current Anti-Inflammatory Drugs?. *Microorganisms* 8: nestránkováno. <http://dx.doi.org/10.3390/microorganisms8050621>
- Hrivnak R., **Svitok M. KBE**, Kochjarova J., Jarolimek I., Machava J., Senko D., Slezak M. 2020. Drivers of plant species composition in alder-dominated forests with contrasting connectivity. *Wetlands Ecology And Management* 28: 137-150. <http://dx.doi.org/10.1007/s11273-019-09700-4>
- Hrivniak L. KZO**, Sroka P., Bojkova J., Godunko RJ., Soldan T., Staniczek AH. 2020. The impact of Miocene orogeny for the diversification of Caucasian *Epeorus* (Caucasiron) mayflies (Ephemeroptera: Heptageniidae). *Molecular Phylogenetics and Evolution* 146: nestránkováno. <http://dx.doi.org/10.1016/j.ympev.2020.106735>
- Hrivniak L. KZO**, Sroka P., Bojkova J., Godunko RJ. 2020. Identification guide to larvae of Caucasian *Epeorus* (Caucasiron) (Ephemeroptera, Heptageniidae). *ZooKeys* NOV 5 2020: 1-53. <http://dx.doi.org/10.3897/zookeys.986.56276>
- Hrivniak L. KZO**, Sroka P., Bojkova J., Godunko RJ., Namin JI., Bagheri S., Nejat F., Abdoli A., Staniczek AH. 2020. Diversity and distribution of *Epeorus* (Caucasiron) (Ephemeroptera, Heptageniidae) in Iran, with descriptions of three new species. *ZooKeys* 947: 71-102. <http://dx.doi.org/10.3897/zookeys.947.51259>
- Hrnčir V., **Duda P. KZO**, **Šaffa G. KZO**, Kvetina P., **Zrzavý J. KZO** 2020. Identifying post-marital residence patterns in prehistory: A phylogenetic comparative analysis of dwelling size. *PLoS One* 15: nestránkováno. <http://dx.doi.org/10.1371/journal.pone.0229363>
- Hrouzková E. KZO**, Bernasova E., **Šklíba J. KZO** 2020. Eavesdropping on a heterospecific alarm call in the giant root-rat (*Tachyorytes macrocephalus*), an important prey of the Ethiopian wolf (*Canis simensis*). *Journal of Ethology* 38: 121-124. <http://dx.doi.org/10.1007/s10164-019-00618-1>
- Hurtado P., Prieto M., Aragon G., **De Bello F. KBO**, Martinez I. 2020. Intraspecific variability drives functional changes in lichen epiphytic communities across Europe. *Ecology* 101: nestránkováno. <http://dx.doi.org/10.1002/ecy.3017>
- Hurtado P., Prieto M., **De Bello F. KBO**, Aragon G., Lopez-Angulo J., Giordani P., Maria Diaz-Pena E., Vicente R., Merinero S., Kosuthova A., Benespero R., Bianchi E., Mayrhofer H., Nascimbene J., Grube M., Wedin M., Westberg M., Martinez I. 2020. Contrasting Environmental Drivers Determine Biodiversity Patterns in Epiphytic Lichen Communities along a European Gradient. *Microorganisms* 8: nestránkováno. <http://dx.doi.org/10.3390/microorganisms8121913>
- Husník F. KPA**, **Hypša V. KPA**, Darby A. 2020. Insect-Symbiont Gene Expression in the Midgut Bacteriocytes of a Blood-Sucking Parasite. *Genome Biology and Evolution* 12: 429-442. <http://dx.doi.org/10.1093/gbe/evaa032>
- Hyde KD., Dong Y., Phookamsak R., Jeewon R., Bhat DJ., Jones EBG., Liu N., Abeywickrama PD., Mapook A., Wei D., Perera RH., Manawasinghe IS., Pem D., Bundhun D., Karunaratna A., Ekanayaka AH., Bao D., Li J., Samarakoon MC., Chaiwan N., Lin Ch., Phutthacharoen K., Zhang S., Senanayake IC., Goonasekara ID., Thambugala KM., Phukhamsakda Ch., Tennakoon DS., Jiang H., Yang J., Zeng M., Huanraluek N., Liu J(., Wijesinghe SN., Tian Q., Tibpromma S., Brahmanage RS., Boonmee S., Huang S., Thiyagaraja V., Lu Y.,

Jayawardena RS., Dong W., Yang E., Singh SK., Singh SM., Rana S., Lad SS., Anand G., Devadatha B., Niranjan M., Sarma VV., Liimatainen K., Aguirre-Hudson B., Niskanen T., Overall A., Alvarenga RLM., Gibertoni TB., Pfliegler WP., Horvath E., Imre A., Alves AL., Santos ACdS., Tiago PV., Bulgakov TS., Wanasinghe DN., Bahkali AH., Doilom M., Elgorban AM., Maharachchikumbura SSN., Rajeshkumar KC., **Haelewaters D. KZO**, Mortimer PE., Zhao Q., Lumyong S., Xu J., Sheng J. 2020. Fungal diversity notes 1151-1276: taxonomic and phylogenetic contributions on genera and species of fungal taxa. *Fungal diversity* 100: 5-277. <http://dx.doi.org/10.1007/s13225-020-00439-5>

Chambouvet A., Smilansky V., Jirku M., Isidoro-Ayza M., Itoiz S., Derelle E., Monier A., Gower DJ., Wilkinson M., Yabsley MJ., **Lukeš J. KMB**, Richards TA. 2020. Diverse alveolate infections of tadpoles, a new threat to frogs?. *PLoS Pathogens* 16: nestránkováno. <http://dx.doi.org/10.1371/journal.ppat.1008107>

**Choma M. KBE, Tahovská K. KBE, Kaštovská E. KBE, Bárta J. KBE**, Ruzek M., Oulehle F. 2020. Bacteria but not fungi respond to soil acidification rapidly and consistently in both a spruce and beech forest. *FEMS Microbiology Ecology* 96: nestránkováno. <http://dx.doi.org/10.1093/femsec/fiaa174>

Iadanza MG., Schiffrin B., White P., Watson MA., Horne JE., Higgins AJ., Calabrese AN., Brockwell DJ., **Tůma R. UCH**, Kalli AC., Radford SE., Ranson NA. 2020. Distortion of the bilayer and dynamics of the BAM complex in lipid nanodiscs. *Communications Biology* 3: nestránkováno. <http://dx.doi.org/10.1038/s42003-020-01419-w>

**Ibalim S. KZO**, Groom SVC., Dorey JB., Velasco-Castrillon A., Schwarz MP., Stevens MI. 2020. Origin and dispersal of *Homalictus* (Apoidea: Halictidae) across Australia, Papua New Guinea and Pacific. *Transactions of the Royal Society of South Australia* 144: 1-14. <http://dx.doi.org/10.1080/03721426.2020.1740957>

**Ignatev N. KZO**, Grzywacz B., Przybyłowicz L. 2020. A review of the genus *Mecistorhabdia* (Lepidoptera: Erebiidae: Arctiinae: Syntomini) with a description of a new species from the Central African Republic. *European Journal of Entomology* 117: 139-148. <http://dx.doi.org/10.14411/eje.2020.016>

Jahanshahi M., Kowsari E., Haddadi-Asl V., Khoobi M., Bazri B., **Aryafard M. UCH**, Lee JH., Kadumudi FB., Talebian S., Kamaly N., Mehrali M., Dolatshahi-Pirouz A. 2020. An innovative and eco-friendly modality for synthesis of highly fluorinated graphene by an acidic ionic liquid: Making of an efficacious vehicle for anti-cancer drug delivery. *Applied surface science* 515: nestránkováno. <http://dx.doi.org/10.1016/j.apsusc.2020.146071>

Janecek S., Chmel K., Uceda Gomez G., **Janečková P. KBO**, Chmelova E., Sejšova Z., Luma Ewome F. 2020. Ecological fitting is a sufficient driver of tight interactions between sunbirds and ornithophilous plants. *Ecology and Evolution* 10: 1784-1793. <http://dx.doi.org/10.1002/ece3.5942>

Janik M., Niedziakowski P., Lechowicz K., Koba M., **Sezemský P. UFY, Straňák V. UFY**, Ossowski T., Smietana MJ. 2020. Electrochemically directed biofunctionalization of a lossy-mode resonance optical fiber sensor. *Optics Express* 28: 15934-15942. <http://dx.doi.org/10.1364/OE.390780>

Janouskova E., **Berec L. UMB** 2020. Fecundity-Longevity Trade-Off, Vertical Transmission, and Evolution of Virulence in Sterilizing Pathogens. *American Naturalist* 195: 95-106. <http://dx.doi.org/10.1086/706182>

Janovsky MP., Karlik P., Horak J., Smejda L., Opere MA., **Beneš J. LAPE**, Hejzman M. 2020. Historical land-use in an abandoned mountain village in the Czech Republic is reflected by the Mg, P, K, Ca, V, Cr, Mn, Fe, Ni, Cu, Zn, Rb, Zr, and Sr content in contemporary soils. *Catena* 187: nestránkováno. <http://dx.doi.org/10.1016/j.catena.2019.104347>

Jansa J., **Šmilauer P. KBE**, Borovicka J., Hrselova H., Forczek ST., Slamova K., Rezanka T., Rozmos M., Bukovska P., Gryndler M. 2020. Dead *Rhizophagus irregularis* biomass mysteriously stimulates plant growth. *Mycorrhiza* 30: 63-77. <http://dx.doi.org/10.1007/s00572-020-00937-z>

**Jarić I. KBE**, Bellard C., Courchamp F., Kalinkat G., Meinard Y., Roberts DL., Correia RA. 2020. Societal attention toward extinction threats: a comparison between climate change and biological invasions. *Scientific Reports* 10: nestránkováno. <http://dx.doi.org/10.1038/s41598-020-67931-5>

**Jarić I. KBE**, Roll U., Arlinghaus R., Belmaker J., Chen Y., China V., Douda K., Essl F., Jaehrig SC., Jeschke JM., Kalinkat G., Kalous L., Ladle R., Lennox RJ., Rosa R., Sbragaglia V., Sherren K., Smejkal M., Soriano-Redondo A., Souza AT., Wolter Ch., Correia RA. 2020. Expanding conservation culturomics and iEcology from terrestrial to aquatic realms. *PLoS Biology* 18: nestránkováno. <http://dx.doi.org/10.1371/journal.pbio.3000935>

**Jarić I. KBE**, Correia RA., Brook BW., Buettel JC., Courchamp F., Di Minin E., Firth JA., Gaston KJ., Jepson P., Kalinkat G., Ladle R., Soriano-Redondo A., Souza AT., Roll U. 2020. iEcology: Harnessing Large Online Resources to Generate Ecological Insights. *Trends in Ecology and Evolution* 35: 630-639. <http://dx.doi.org/10.1016/j.tree.2020.03.003>

Jarquín-Díaz VH., Balard A., **Máková A. KPA**, Jost J., von Szepesbela TR., Berkold K., Tank S., **Kvičerová J. KPA**, Heitlinger E. 2020. Generalist *Eimeria* species in rodents: Multilocus analyses indicate inadequate resolution of established markers. *Ecology and Evolution* 10: 1378-1389. <http://dx.doi.org/10.1002/ece3.5992>

Jeliazkov A., Mijatovic D., Chantepie S., Andrew N., Arlettaz R., Barbaro L., Barsoum N., **Bartoňová A. KZO**, Belskaya E., Bonada N., Brind'Amour A., Carvalho R., Castro H., Chmura D., Choler P., Chong-Seng K., Cleary D., Cormont A., Cornwell W., de Campos R., de Voogd N., Doledec S., Drew J., Dziocok F., Eallonardo A., Edgar MJ., Farneda F., Flores Hernandez D., Frenette-Dussault C., Fried G., Gallardo B., Gibb H., Goncalves-Souza T., Higuti J., Humbert J., Krasnov BR., Le Saux E., Lindo Z., Lopez-Baucells A., Lowe E., Marteinsdottir B., Martens K., Meffert P., Mellado-Diaz A., Menz MHM., Meyer ChFJ., Ramos Miranda J., Mouillot D., Ossola A., Pakeman R., Pavoine S., Pekin B., Pino J., Pocheville A., Pomati F., Poschlod P., Prentice HC., Purschke O., Raevel V., Reitalu T., Renema W., Ribera I., Robinson N., Robroek B., Rocha R., Shieh S., Spake R., Staniaszek-Kik M., Stanko M., Tejerina-Garro FL., ter Braak C., Urban MC., van Klink R., Villegier S., Wegman R., Westgate MJ., Wolff J., Zarnowiec J., Zolotarev M., Chase JM. 2020. A global database for metacommunity ecology, integrating species, traits, environment and space. *Scientific Data* 7: nestránkováno. <http://dx.doi.org/10.1038/s41597-019-0344-7>

**Jelínek P. UFY**, Karlicky M., Smirnova VV., Solov'ev AA. 2020. Transverse oscillations of a double-structured solar filament. *Astronomy & Astrophysics* 637: nestránkováno. <http://dx.doi.org/10.1051/0004-6361/201936836>

Jilkova V., Jandova K., Cajthaml T., **Devetter M. CPE**, Kukla J., Stary J., Vacirova A. 2020. Organic matter decomposition and carbon content in soil fractions as affected by a gradient of labile carbon input to a temperate forest soil. *Biology and Fertility of Soils* 56: 411-421. <http://dx.doi.org/10.1007/s00374-020-01433-4>

Jirku M., Kuchta R., Gricaj E., Modry D., **Jirků K. KME** 2020. Canine thelaziosis in the Czech Republic: the northernmost autochthonous occurrence of the eye nematode *Thelazia callipaeda* Railliet et Henry, 1910 in Europe. *Folia Parasitologica* 67: nestránkováno. <http://dx.doi.org/10.14411/fp.2020.010>

**Kaniewska MM. KMB**, Vaneckova H., **Doležel D. KMB**, Kotwica-Rolinska J. 2020. Light and Temperature Synchronizes Locomotor Activity in the Linden Bug, *Pyrrhocoris apterus*. *Frontiers in Physiology* 11: nestránkováno. <http://dx.doi.org/10.3389/fphys.2020.00242>

Kaplan Z., Danihelka J., **Ekrť L. KBO**, **Štech M. KBO**, Repka R., Chrtěk JJ., Grulich V., Rotreklova O., Drevojan P., Sumberova K., Wild J. 2020. Distributions of vascular plants in the Czech Republic. Part 9. *Preslia : časopis České botanické společnosti* 92: 255-340. <http://dx.doi.org/10.23855/preslia.2020.255>

Kattge J., Boenisch G., Diaz S., Lavorel S., Prentice IC., Leadley P., Tautenhahn S., Werner GDA., Aakala T., Abedi M., Acosta ATR., Adamidis GC., Adamson K., Aiba M., Albert CH., Alcantara JM., Alcazar CC., Aleixo I., Ali H., Amiaud B., Ammer Ch., Amoroso MM., Anand M., Anderson C., Anten N., Antos J., Apgaua DMG., Ashman T., Asmara DH., Asner GP., Aspinwall M., Atkin O., Aubin I., Baastrup-Spohr L., Bahalkeh K., Bahn M., Baker T., Baker WJ., Bakker JP., Baldocchi D., Baltzer J., Banerjee A., Baranger A., Barlow J., Barneche DR., Baruch Z., Bastianelli D., Battles J., Bauerle W., Bauters M., Bazzato E., Beckmann M., Beeckman H., Beierkuhnlein C., Bekker R., Belfry G., Belluau M., Beloiu M., Benavides R., Benomar L., Berdugo-Lattke ML., Berenguer E., Bergamin R., Bergmann J., Carlucci MB., Berner L., Bernhardt-Roemermann M., Bigler Ch., Bjorkman AD., Blackman Ch., Blanco C., Blonder B., Blumenthal D., Bocanegra-Gonzalez KT., Boeckx P., Bohlman S., Boehning-Gaese K., Boisvert-Marsh L., Bond W., Bond-Lamberty B., Boom A., Boonman CCF., Bordin K., Boughton EH., Boukili V., Bowman DMJS., Bravo S., Brendel MR., Broadley MR., Brown KA., Bruelheide H., Brummich F., Bruun HH., Bruy D., Buchanan SW., Bucher SF., Buchmann N., Buitenwerf R., Bunker DE., Kaplan Z., Klimesova J., Maskova T., Pyšek P., **Csercsáné Vojtkó A. KBO**, **Svitok M. KBE** 2020. TRY plant trait database - enhanced coverage and open access. *Global Change Biology* 26: 119-188. <http://dx.doi.org/10.1111/gcb.14904>

Kaufman F., Dostalkova A., Pekarek L., Thanh TD., Kapisheva M., Hadravova R., Bednarova L., Novotny R., Krizova I., Cerny J., **Grubhoffer L. KPA**, Ruml T., Hrabal R., Rumlova M. 2020. Characterization and in vitro assembly of tick-borne encephalitis virus C protein. *FEBS Letters* 594: 1989-2004. <http://dx.doi.org/10.1002/1873-3468.13857>

**Kayshap PK. UFY**, Srivastava AK., Tiwari SK., **Jelínek P. UFY**, Mathioudakis M. 2020. Propagation of waves above a plage as observed by IRIS and SDO. *Astronomy & Astrophysics* 634: nestránkováno. <http://dx.doi.org/10.1051/0004-6361/201936070>

Kazan HH., **Özcan E. UFY**, Cosut B., Ciftci GY., Ecik ET. 2020. Novel BODIPY-subphthalocyanine dyads with reasonable photodynamic therapy behaviours. *New Journal of Chemistry* 44: 13738-13744. <http://dx.doi.org/10.1039/d0nj02455d>

**Khan T. UFY**, Dominguez-Martin MA., **Šimová I. UFY**, **Fuciman M. UFY**, Kerfeld ChA., **Polívka T. UFY** 2020. Excited-State Properties of Canthaxanthin in Cyanobacterial Carotenoid-Binding Proteins HCP2 and HCP3. *Journal of Physical Chemistry B* 124: 4896-4905. <http://dx.doi.org/10.1021/acs.jpcc.0c03137>

Khormizi MZ., **Nedvěd O. KZO** 2020. *Oenopia shirkuhensis* sp. nov. (Coleoptera, Coccinellidae) from Iran mimicking *Adalia bipunctata*. *ZooKeys* neuvaden: 107-116. <http://dx.doi.org/10.3897/zookeys.915.46390>

Kiran M., Sattar A., Zamir K., **Haelewaters D. KZO**, Khalid AN. 2020. Additions to the genus *Chroogomphus* (Boletales, Gomphidiaceae) from Pakistan. *MycKeys* neveden: 23-38. <http://dx.doi.org/10.3897/mycokeys.66.38659>

**Klementová Š. UCH, Poncarová M. UCH, Kahoun D. UCH, Šorf M. KBE, Dokoupilová E. UCH, Fojtíková P. UCH** 2020. Toxicity assessment of verapamil and its photodegradation products. *Environmental Science and Pollution Research* 27: 35650-35660. <http://dx.doi.org/10.1007/s11356-020-09830-w>

Klimes A., **Klimešová L. KBO**, Bartuskova A., Klimesova J. 2020. Climbing strategy in herbs does not necessarily lead to lower investments into stem biomass. *Plant Ecology* 221: 1159-1166. <http://dx.doi.org/10.1007/s11258-020-01070-9>

Kluge NJ., Godunko RJ., **Svitok M. KBE** 2020. Nomenclatural changes in *Centroptella* Braasch & Soldan, 1980 (Ephemeroptera, Baetidae). *ZooKeys* 914: 81-125. <http://dx.doi.org/10.3897/zookeys.914.46652>

Koblizek M., Dachev M., **Bina D. UCH**, Nupur N., Pivosz K., **Kaftan D. UCH** 2020. Utilization of light energy in phototrophic Gemmatimonadetes. *Journal of Photochemistry and Photobiology B-Biology* 213: nestránkováno. <http://dx.doi.org/10.1016/j.jphotobiol.2020.112085>

**Kolář V. KBE, Boukal D. KBE** 2020. Habitat preferences of the endangered diving beetle *Graphoderus bilineatus*: implications for conservation management. *Insect Conservation and Diversity* 13: 480-494. <http://dx.doi.org/10.1111/icad.12433>

**Kolísko M. KMB, Flegontova O., Karnkowska A., Lax G., Maritz JM., Panek T., Taborsky P., Carlton JM., Cepicka I., Horák A. KMB, Lukeš J. KMB, Simpson AGB., Tai V.** 2020. EukRef-excavates: seven curated SSU ribosomal RNA gene databases. *Database - The Journal of Biological Databases and Curation* neveden: nestránkováno. <http://dx.doi.org/10.1093/database/baaa080>

**Komárek J. KBO, Johansen JR. KBO**, Smarda J., Strunecký O. 2020. Phylogeny and taxonomy of *Synechococcus*-like cyanobacteria. *Fottea* 20: 171-191. <http://dx.doi.org/10.5507/fot.2020.006>

**Komárek J. KBO** 2020. Quo vadis, taxonomy of cyanobacteria (2019). *Fottea* 20: 104-110. <http://dx.doi.org/10.5507/fot.2019.020>

**Kopáček J. KBE**, Bace R., Hejzlar J., **Kaňa J. KBE, Kučera T. KBE**, Matejka K., **Porcal P. KBE**, Turek J. 2020. Changes in microclimate and hydrology in an unmanaged mountain forest catchment after insect-induced tree dieback. *Science of the Total Environment* 720: nestránkováno. <http://dx.doi.org/10.1016/j.scitotenv.2020.137518>

Kopecký M., Kolář L., Konvalina P., **Strunecký O. KBE**, Teodorescu F., Mráz P., Peterka J., Váchalová R., Bernas J., Bartoš P., Filipov F., Bucur D. 2020. Modified Biochar-A Tool for Wastewater Treatment. *Energies* 13: nestránkováno. <http://dx.doi.org/10.3390/en13205270>

Kostygov AY., Frolov AO., Malysheva MN., Ganyukova AI., Chistyakova LV., Tashyreva D., Tesarova M., Spodareva VV., Reznarova J., Macedo DH., Butenko A., d'Avila-Levy CM., **Lukeš J. KMB**, Yurchenko V. 2020. *Vickermania* gen. nov., trypanosomatids that use two joined flagella to resist midgut peristaltic flow within the fly host. *BMC Biology* 18: nestránkováno. <http://dx.doi.org/10.1186/s12915-020-00916-y>

**Kotlínek M. KBO, Těšitelová T. KBO, Košnar J. KBO, Fibich P. KBO**, Hemrova L., **Koutecký P. KBO**, Munzbergova Z., **Jersáková J. KBE** 2020. Seed dispersal and realized gene flow of two forest orchids in a fragmented landscape. *Plant Biology* 22: 522-532. <http://dx.doi.org/10.1111/plb.13099>

**Kotsarenko K. UCH, Věchtová P. KMB, UCH, Lieskovská J. KME, Füssy Z. KMB, UCH**, Cabral-de-Mello DC., **Rego ROM. KPA**, Alberdi P., Collins M., Bell-Sakyi L., **Štěrba J. UCH, Grubhoffer L. KPA** 2020. Karyotype changes in long-term cultured tick cell lines. *Scientific Reports* 10: nestránkováno. <http://dx.doi.org/10.1038/s41598-020-70330-5>

**Kotsarenko K. UCH, Věchtová P. UCH**, Hammerova Z., Langova N., Malinovska L., Wimmerova M., **Štěrba J. UCH, Grubhoffer L. KPA** 2020. Newly identified DNA methyltransferases of *Ixodes ricinus* ticks. *Ticks and Tick-borne Diseases* 11: nestránkováno. <http://dx.doi.org/10.1016/j.ttbdis.2019.101348>

Kotwica-Rolinska J., Kristofova L., Chvalova D., Pauchova L., Provaznik J., **Hejníková M. KZO**, Sehadova H., Lichy M., Vaneckova H., **Doležel D. KMB** 2020. Functional analysis and localisation of a thyrotropin-releasing hormone-type neuropeptide (EFLa) in hemipteran insects. *Insect Biochemistry and Molecular Biology* 122: nestránkováno. <http://dx.doi.org/10.1016/j.ibmb.2020.103376>

**Kovačiková L. LAPE, Trojánková O. LAPE**, Starec P., **Meduna P. LAPE**, Limbursky P. 2020. Livestock as an indicator of socioeconomic changes in Medieval Prague (Czech Republic). *Archaeological and Anthropological Sciences* 12: nestránkováno. <http://dx.doi.org/10.1007/s12520-020-01229-5>

**Kratochvíl J. UFY, Straňák V. UFY, Kousal J., Kus P., Kylian O.** 2020. Theoretical and experimental analysis of defined 2D-graded two-metal nanoparticle-build surfaces. *Applied surface science* 511: nestránkováno. <http://dx.doi.org/10.1016/j.apsusc.2020.145530>

Kratochvíl L., Vukic J., Cervenka J., Kubicka L., Johnson Pokorna M., Kukackova D., Rovatsos M., **Piálek L. KZO** 2020. Mixed-sex offspring produced via cryptic parthenogenesis in a lizard. *Molecular Ecology* 29: 4118-4127. <http://dx.doi.org/10.1111/mec.15617>

**Kroutil O. UFY, Pezzotti S., Gaigeot M., Předota M. UFY** 2020. Phase-Sensitive Vibrational SFG Spectra from Simple Classical Force Field Molecular Dynamics Simulations. *Journal of Physical Chemistry C* 124: 15253-15263. <http://dx.doi.org/10.1021/acs.jpcc.0c03576>

**Křivan V. UMB, Cressman R.** 2020. Defectors' intolerance of others promotes cooperation in the repeated public goods game with opting out. *Scientific Reports* 10: nestránkováno. <http://dx.doi.org/10.1038/s41598-020-76506-3>

Kuhry P., **Bárta J. KBE, Blok D., Elberling B., Faucherre S., Hugelius G., Jorgensen ChJ., Richter A., Šantrůčková H. KBE, Weiss N.** 2020. Lability classification of soil organic matter in the northern permafrost region. *Biogeosciences* 17: 361-379. <http://dx.doi.org/10.5194/bg-17-361-2020>

Kulik N., **Kutý M. UCH, Reha D.** 2020. The study of conformational changes in photosystem II during a charge separation. *Journal of Molecular Modeling* 26: nestránkováno. <http://dx.doi.org/10.1007/s00894-020-4332-9>

Kust A., Rehakova M., **Vrba J. KBE, Maicher V., Mareš J. KBO, Hrouzek P. KME, UCH, Chiriac M., Benedova Z., Tesařová B., Saurav K.** 2020. Insight into Unprecedented Diversity of Cyanopeptides in Eutrophic Ponds Using an MS/MS Networking Approach. *Toxins* 12: nestránkováno. <http://dx.doi.org/10.3390/toxins12090561>

**Kuznetsova V. UFY, Dominguez-Martin MA., Bao H., Gupta S., Sutter M., Kloz M., Rebarz M., Precek M., Chen Y., Petzold ChJ., Ralston CY., Kerfeld ChA., Polívka T. UFY** 2020. Comparative ultrafast spectroscopy and structural analysis of OCP1 and OCP2 from *Tolypothrix*. *Biochimica et Biophysica Acta - Bioenergetics* 1861: nestránkováno. <http://dx.doi.org/10.1016/j.bbabi.2019.148120>

**Kvičerová J. KPA, Hofmannova L., Scognamiglio F., Santoro M.** 2020. *Eimeria sciurorum* (Apicomplexa, Coccidia) From the Calabrian Black Squirrel (*Sciurus meridionalis*): An Example of Lower Host Specificity of Eimerians. *Frontiers in Veterinary Science* 7: nestránkováno. <http://dx.doi.org/10.3389/fvets.2020.00369>

**Kvíděrová J. CPE, Kumar D.** 2020. Response of short-term heat shock on photosynthetic activity of soil crust cyanobacteria. *Protoplasma* 257: 61-73. <http://dx.doi.org/10.1007/s00709-019-01418-7>

Lanta V., Mudrak O., Liancourt P., Dvorsky M., Bartos M., **Chlumská Z. KBO, Sebek P., Čížek L. KZO, Doležal J. KBO** 2020. Restoring diversity of thermophilous oak forests: connectivity and proximity to existing habitats matter. *Biodiversity and Conservation* 29: 3411-3427. <http://dx.doi.org/10.1007/s10531-020-02030-5>

Lembrechts JJ., Aalto J., Ashcroft MB., De Frenne P., Kopecky M., Lenoir J., Luoto M., Maclean IMD., Roupsard O., Fuentes-Lillo E., Garcia RA., Pellissier L., Pitteloud C., Alatalo JM., Smith SW., Bjork RG., Muffler L., Backes AR., Cesarz S., Gottschall F., Okello J., Urban J., Plichta R., Svatek M., Phartyal SS., Wipf S., Eisenhauer N., Puscas M., Turtureanu PD., Varlagin A., Dimarco RD., Jump AS., Randall K., Dorrepaal E., Larson K., Walz J., Vitale L., Svoboda M., Higgins RF., Halbritter H., Curasi SR., Klupar I., Koontz A., Pearse WD., Simpson E., Stenkovski M., Graae BJ., Sorensen MV., Hoyer TT., Fernandez Calzado MR., Lorite J., Carbonegnani M., Tomaselli M., Forte TGW., Petraglia A., Haesen S., Somers B., Van Meerbeek K., Bjorkman MP., Hylander K., Merinero S., Gharun M., Buchmann N., **Doležal J. KBO, Matula R., Thomas AD., Bailey JJ., Ghosn D., Kazakis G., de Pablo MA., Kempainen J., Niittynen P., Rew L., Seipel T., Larson Ch., Speed JDM., Ardo J., Cannone N., Guglielmin M., Malfasi F., Bader MY., Canessa R., Stanisci A., Kreyling J., Schmeddes J., Teuber L., Aschero V., Ciliak M., Malis F., De Smedt P., Govaert S., Meeussen C., Vangansbeke P., Gigauri K., Lamprecht A., Pauli H., Steinbauer K., Winkler M., Ueyama M.** 2020. SoilTemp: A global database of near-surface temperature. *Global Change Biology* 26: 6616-6629. <http://dx.doi.org/10.1111/gcb.15123>

Lennox RJ., Verissimo D., Twardek WM., Davis CR., **Jarić I. KBE** 2020. Sentiment analysis as a measure of conservation culture in scientific literature. *Conservation Biology* 34: 462-471. <http://dx.doi.org/10.1111/cobi.13404>

Leung K., Ras E., Ferguson KB., Ariens S., Babendreier D., Bijma P., Bourtzis K., Brodeur J., Bruins MA., Centurion A., Chattington SR., Chinchilla-Ramirez M., Dicke M., Fatouros NE., Gonzalez-Cabrera J., Groot TVM., Haye T., Knapp M., Koskinioti P., Le Hesran S., Lyrakis M., Paspati A., Perez-Hedo M., Plouvier WN., Schloetterer Ch., Stahl JM., Thiel A., Urbaneja A., van de Zande L., Verhulst EC., Vet LEM., **Visser S. KMB, Werren JH., Xia S., Zwaan BJ., Magalhaes S., Beukeboom LW., Pannebakker BA.** 2020. Next-generation biological control: the need for integrating genetics and genomics. *Biological Reviews* 95: 1838-1854. <http://dx.doi.org/10.1111/brv.12641>

**Lhotská Z. KME, Jirku M., Hlozkova O., Brožová K. KPA, Jirsova D., Stensvold ChR., Kolisko M. KMB, Jirků K. KME** 2020. A Study on the Prevalence and Subtype Diversity of the Intestinal Protist Blastocystis sp. in a

Gut-Healthy Human Population in the Czech Republic. *Frontiers in Cellular and Infection Microbiology* 10: nestránkováno. <http://dx.doi.org/10.3389/fcimb.2020.544335>

Li K., Zhang S., Song X., Weyrich A., Wang Y., Liu X., Wan N., Liu J., **Lůvy M. KZO**, Cui H., Frenkel V., Titievsky A., Panov J., Brodsky L., Nevo E. 2020. Genome evolution of blind subterranean mole rats: Adaptive peripatric versus sympatric speciation. *Proceedings of The National Academy of Sciences of The United States of America* 117: 32499-32508. <http://dx.doi.org/10.1073/pnas.2018123117>

Li S., Zhang X., **Lukeš J. KMB**, Li B., Wang J., Qu L., Hide G., Lai D., Lun Z. 2020. Novel organization of mitochondrial minicircles and guide RNAs in the zoonotic pathogen *Trypanosoma lewisi*. *Nucleic Acids Research* 48: 9747-9761. <http://dx.doi.org/10.1093/nar/gkaa700>

Liancourt P., Song X., Macek M., **Šantrůček J. KEBR**, **Doležal J. KBO** 2020. Plant's-eye view of temperature governs elevational distributions. *Global Change Biology* 26: 4094-4103. <http://dx.doi.org/10.1111/gcb.15129>

**Lin Y. KZO**, Tai Ch., Broz V., Tang Ch., Chen P., Wu CP., Li Ch., Wu Y. 2020. Adenosine Receptor Modulates Permissiveness of Baculovirus (Budded Virus) Infection via Regulation of Energy Metabolism in *Bombyx mori*. *Frontiers in Immunology* 11: nestránkováno. <http://dx.doi.org/10.3389/fimmu.2020.00763>

Lindtner P., **Svitok M. KBE**, Ujhazy K., Kubovcik V. 2020. Disturbances by the European ground squirrel enhance diversity and spatial heterogeneity of plant communities in temperate grassland. *Biodiversity and Conservation* 29: 853-867. <http://dx.doi.org/10.1007/s10531-019-01914-5>

**Lisner A. KBO**, **Lepš J. KBO** 2020. Everyone makes mistakes: Sampling errors in vegetation analysis - The effect of different sampling methods, abundance estimates, experimental manipulations, and data transformation. *Acta Oecologica* 109: nestránkováno. <http://dx.doi.org/10.1016/j.actao.2020.103667>

**Lisnerová M. KPA**, Fiala I., Cantatore D., Irigoitia M., Timi J., Peckova H., Bartosova-Sojkova P., Sandoval ChM., Luer C., Morris J., Holzer AS. 2020. Mechanisms and Drivers for the Establishment of Life Cycle Complexity in Myxozoan Parasites. *Biology* 9: nestránkováno. <http://dx.doi.org/10.3390/biology9010010>

**Lisnerová M. KPA**, Blabolil P., Holzer A., Jurajda P., **Fiala I. KPA** 2020. Myxozoan hidden diversity: the case of *Myxobolus pseudodispar* Gorbunova, 1936. *Folia Parasitologica* 67: nestránkováno. <http://dx.doi.org/10.14411/fp.2020.019>

Liu Y., Pang Y., Zhu B., **Uher O. KME**, Caisova V., Huynh T., Taieb D., Vanova KH., Ghayee HK., Neuzil J., Levine M., Yang Ch., Pacak K. 2020. Therapeutic Targeting of SDHB-Mutated Pheochromocytoma/Paraganglioma with Pharmacologic Ascorbic Acid. *Clinical Cancer Research* 26: 3868-3880. <http://dx.doi.org/10.1158/1078-0432.CCR-19-2335>

**Loginov DS. UCH**, **Böttlinger K. UCH**, **Loginova Y. UCH**, **Dyčka F. UCH**, **Věchtová P. UCH**, **Štěrba J. UCH** 2020. Biotyping of IRE/CTVM19 tick cell line infected by tick-borne encephalitis virus. *Ticks and Tick-borne Diseases* 11: nestránkováno. <http://dx.doi.org/10.1016/j.ttbdis.2020.101420>

**Lůvy M. KZO**, **Šumbera R. KZO**, Heth G., Nevo E. 2020. Presumed ecological speciation in blind mole rats: does soil type influence mate preferences?. *Ethology Ecology & Evolution* 32: 46-59. <http://dx.doi.org/10.1080/03949370.2019.1646809>

Lu Y., Wu C., Tang Ch., Lin Y., **Maaroufi HO. KMB**, Chuang Y., Wu Y. 2020. Identification of Immune Regulatory Genes in *Apis mellifera* through Caffeine Treatment. *Insects* 11: nestránkováno. <http://dx.doi.org/10.3390/insects11080516>

Luna F., **Šumbera R. KZO**, **Okrouhlík J. KZO**, **Mladěnková N. KZO**, Daniel Antenucci C. 2020. Evaporative water loss in seven species of fossorial rodents: Does effect of degree of fossoriality and sociality exist?. *Journal of Thermal Biology* 89: nestránkováno. <http://dx.doi.org/10.1016/j.jtherbio.2020.102564>

Lyčka Z., **Elster J. CPE** 2020. Punk's not dead, even at the Czech Arctic Scientific Station in Svalbard: How artists and scientists can influence and enrich each other and how avant-garde culture can increase media interest in scientific research and make science more visible to the public. *Oceanologia* 62: 622-627. <http://dx.doi.org/10.1016/j.oceano.2020.03.007>

**Maicher V. KZO**, **Sáfián S. KZO**, Murkwe M., **Delabye SJJ. KZO**, Przybylowicz L., Potocky P., Kobe IN., Janecek S., Mertens JEJ., Fokam EB., Pycrc T., **Doležal J. KBO**, Altman J., Horak D., Fiedler K., Tropek R. 2020. Seasonal shifts of biodiversity patterns and species' elevation ranges of butterflies and moths along a complete rainforest elevational gradient on Mount Cameroon. *Journal of Biogeography* 47: 342-354. <http://dx.doi.org/10.1111/jbi.13740>

**Maicher V. KZO**, **Delabye SJJ. KZO**, Murkwe M., **Doležal J. KBO**, Altman J., Kobe IN., Desmist J., Fokam EB., Pycrc T., Tropek R. 2020. Effects of disturbances by forest elephants on diversity of trees and insects in tropical rainforests on Mount Cameroon. *Scientific Reports* 10: nestránkováno. <http://dx.doi.org/10.1038/s41598-020-78659-7>

- Malicek J., Palice Z., **Vondrák J. KBO**, Tonsberg T. 2020. *Japewia aliphatica* (Lecanoraceae, lichenized Ascomycota), a new acidophilous, sorediate-blastidiate lichen from Europe. *Phytotaxa* 461: 21-30. <http://dx.doi.org/10.11646/phytotaxa.461.1.3>
- Mäntylä E. KZO**, Kipper S., Hilker M. 2020. Insectivorous birds can see and smell systemically herbivore-induced pines. *Ecology and Evolution* 10: 9358-9370. <http://dx.doi.org/10.1002/ece3.6622>
- Mäntylä E. KZO**, Mantyla K., Nuotio J., Nuotio K., Sillanpaa M. 2020. Longevity record of arctic skua (*Stercorarius parasiticus*). *Ecology and Evolution* 10: 12675-12678. <http://dx.doi.org/10.1002/ece3.6875>
- Manukjanová A. KBO**, **Košnar J. KBO**, **Kučera J. KBO** 2020. Genetic variation in two cryptic species of the rare fen moss *Hamatocaulis vernicosus* in the Czech Republic [Genetická variabilita dvou kryptických druhů vzácného slatiništního mechu *Hamatocaulis vernicosus* v České republice]. *Preslia : časopis České botanické společnosti* 92: 57-72. <http://dx.doi.org/10.23855/preslia.2020.057>
- Marek M., Chaloupkova R., **Prudnikova T. UCH**, Sato Y., Rezacova P., Nagata Y., **Kutá Smatanová I. UCH**, Damborsky J. 2020. Structural and catalytic effects of surface loop-helix transplantation within haloalkane dehalogenase family. *Computational and Structural Biotechnology Journal* 18: 1352-1362. <http://dx.doi.org/10.1016/j.csbj.2020.05.019>
- Martin J., Ringen E., **Duda P. KZO**, Jaeggi A. 2020. Harsh environments promote alloparental care across human societies. *Proceedings of the Royal Society of London Series B - Biological Sciences* 287: nestránkováno. <http://dx.doi.org/10.1098/rspb.2020.0758rspb20200758>
- Martinkova J., Klimes A., **Puy J. KBO**, Klimesova J. 2020. Response of clonal versus non-clonal herbs to disturbance: Different strategies revealed. *Perspectives in Plant Ecology, Evolution and Systematics* 44: nestránkováno. <http://dx.doi.org/10.1016/j.ppees.2020.125529>
- Martins Carreira B. KBE**, Segurado P., Laurila A., Rebelo R. 2020. Heat waves trigger swift changes in the diet and life-history of a freshwater snail. *Hydrobiologia* 847: 999-1011. <http://dx.doi.org/10.1007/s10750-019-04155-3>
- Martins LA., **Kotál J. KME**, Bensaoud Ch., **Chmelař J. KME**, **Kotsyfakis M. KME** 2020. Small protease inhibitors in tick saliva and salivary glands and their role in tick-host-pathogen interactions. *Biochimica et Biophysica Acta-Proteins and Proteomics* 1868: nestránkováno. <http://dx.doi.org/10.1016/j.bbapap.2019.140336>
- Martinů J. KPA**, **Štefka J. KPA**, **Poosakkannu A. KPA**, **Hypša V. KPA** 2020. "Parasite turnover zone" at secondary contact: A new pattern in host-parasite population genetics. *Molecular Ecology* 29: 4653-4664. <http://dx.doi.org/10.1111/mec.15653>
- Masek T., del Llano E., **Gahurová L. KMB**, Kubelka M., Susor A., Roucova K., Lin Ch., **Bruce AW. KMB**, Pospisek M. 2020. Identifying the Translatome of Mouse NEBD-Stage Oocytes via SSP-Profiling; A Novel Polysome Fractionation Method. *International Journal of Molecular Sciences* 21: nestránkováno. <http://dx.doi.org/10.3390/ijms21041254>
- Másilková M. KZO**, Weiss A., Slipogor V., **Konečná M. KZO** 2020. Comparative Assessment of Behaviorally Derived Personality Structures in Golden-Handed Tamarins (*Saguinus midas*), Cotton-Top Tamarins (*Saguinus oedipus*), and Common Marmosets (*Callithrix jacchus*). *Journal of Comparative Psychology* 134: 453-466. <http://dx.doi.org/10.1037/com0000226>
- Mateos-Hernandez L., Defaye B., **Vancová M. KPA**, Hajdusek O., Sima R., Park Y., Attoui H., Simo L. 2020. Cholinergic axons regulate type I acini in salivary glands of *Ixodes ricinus* and *Ixodes scapularis* ticks. *Scientific Reports* 10: nestránkováno. <http://dx.doi.org/10.1038/s41598-020-73077-1>
- Matouskova M., Brunanska M., **Nebesářová J. UFY**, Poddubnaya LG. 2020. Ultrastructure and cytochemistry of the mature spermatozoon of *Khawia armeniaca* (Cholodkovsky, 1915) (Caryophyllidea: Lytocestidae), a parasite of *Capoeta capoeta sevangi* (De Filippi, 1865) (Teleostei, Cyprinidae). *Helminthologia* 57: 353-360. <http://dx.doi.org/10.2478/helm-2020-0040>
- May M., Jakaski M., **Novotná A. KBE**, Dietel J., Ayasse M., Lallemand F., Figura T., Minasiewicz J., Selosse M. 2020. Three-year pot culture of *Epipactis helleborine* reveals autotrophic survival, without mycorrhizal networks, in a mixotrophic species. *Mycorrhiza* 30: 51-61. <http://dx.doi.org/10.1007/s00572-020-00932-4>
- Mehta V., Moshiri H., Srikanth A., Kala S., **Lukeš J. KMB**, Salavati R. 2020. Sulfonated inhibitors of the RNA editing ligases validate the essential role of the MRP1/2 proteins in kinetoplastid RNA editing. *RNA-A Publication of the RNA Society* 26: 827-835. <http://dx.doi.org/10.1261/rna.075598.120>
- Melicharkova A., Slenker M., Zozomova-Lihova J., Skokanova K., Singliarova B., Kacmarova T., Cabonova M., Kempa M., Sramkova G., Mandakova T., Lysak MA., **Svitok M. KBE**, Martonfiuva L., Marhold K. 2020. So Closely Related and Yet So Different: Strong Contrasts Between the Evolutionary Histories of Species of the Cardamine

pratensis Polyploid Complex in Central Europe. *Frontiers in Plant Science* 11: nestránkováno. <http://dx.doi.org/10.3389/fpls.2020.588856>

Mendoza-Palmero CA., Alejandra Rossin M., Marcial Irigoitia M., **Scholz T. KPA** 2020. A new species of *Ameloblastella* Kritsky, Mendoza-Franco & Scholz, 2000 (Monogeneoidea: Dactylogyridae) from South American freshwater catfishes (Siluriformes: Pimelodidae). *Systematic Parasitology* 97: 357-367. <http://dx.doi.org/10.1007/s11230-020-09915-7>

**Mennicken S. KBE**, Kondratow F., Buralli F., Manzi S., Andrieu E., Roy M., Brin A. 2020. Effects of Past and Present-Day Landscape Structure on Forest Soil Microorganisms. *Frontiers in Ecology and Evolution* 8: nestránkováno. <http://dx.doi.org/10.3389/fevo.2020.00118>

Mesfin M., **Johansen JR. KBO**, Pietrasiak N., Baldarelli LM. 2020. *Nostoc oromo* sp. nov. (Nostocales, Cyanophyceae) from Ethiopia: a new species based on morphological and molecular evidence. *Phytotaxa* 433: 81-93. <http://dx.doi.org/10.11646/phytotaxa.433.2.1>

Meyerson LA., Pysek P., **Lučanová M. KBO**, Wigginton S., Tran C., Cronin JT. 2020. Plant genome size influences stress tolerance of invasive and native plants via plasticity. *Ecosphere* 11: nestránkováno. <http://dx.doi.org/10.1002/ecs2.3145>

Middleton J., Abdad MY., Beauchamp E., Colthart G., Cooper MJF., Dem F., Fairhead J., Grundy CL., Head MG., Inacio J., Jimbudo M., Jones ChL., **Konečná M. KZO**, Laman M., MacGregor H., **Novotný V. KZO**, Peck M., Paliou J., Philip J., Pomat W., Roberts ChH., Sui S., Stewart AJ., Walker SL., Cassell JA. 2020. Health service needs and perspectives of remote forest communities in Papua New Guinea: study protocol for combined clinical and rapid anthropological assessments with parallel treatment of urgent cases. *BMJ Open* 10: nestránkováno. <http://dx.doi.org/10.1136/bmjopen-2020-041784>

Michaud JP., **Nedvěd O. KZO**, Bayoumy M., Abdelwahab A., Torres J., Saxena S., Omkar O., de Santos-Cividanes TM., **Sakaki S. KZO**, Rasekh A., Torfi ET. 2020. The Capacity for Limb Regeneration During Metamorphosis is Broadly Conserved in the Coccinellidae. *Annals of the Entomological Society of America* 113: 452-460. <http://dx.doi.org/10.1093/aesa/saaa020>

**Mikula O. KZO**, Nicolas V., Boratynski Z., Denys Ch., Dobigny G., Fichet-Calvet E., Gagare S., Hutterer R., Nimo-Paintsil SC., Olayemi A., Bryja J. 2020. Commensalism outweighs phylogeographical structure in its effect on phenotype of a Sudanian savanna rodent. *Biological Journal of the Linnean Society* 129: 931-949. <http://dx.doi.org/10.1093/biolinnean/blz184>

Morgan EJ., Certner M., **Lučanová M. KBO**, Kubikova K., Marhold K., Kolar F. 2020. Niche similarity in diploid-autotetraploid contact zones of *Arabidopsis arenosa* across spatial scales. *American Journal of Botany* 107: 1375-1388. <http://dx.doi.org/10.1002/ajb2.1534>

**Mottl O. KZO**, **Fibich P. KBO**, Klimes P., Volf M., Tropek R., Anderson-Teixeira K., Auga J., Blair T., **Butterill P. KZO**, Carscallen G., Gonzalez-Akre E., Goodman A., Kaman O., **Lamarre GPA. KZO**, **Libra M. KZO**, Losada ME., Manumbor M., Miller SE., Molem K., Nichols G., **Plowman NS. KZO**, **Redmond C. KZO**, **Seifert CL. KZO**, Vrana J., Weiblen GD., **Novotný V. KZO** 2020. Spatial covariance of herbivorous and predatory guilds of forest canopy arthropods along a latitudinal gradient. *Ecology Letters* 23: 1499-1510. <http://dx.doi.org/10.1111/ele.13579>

**Mottl O. KZO**, Yombai J., Fayle TM., **Novotný V. KZO**, Klimes P. 2020. Experiments with artificial nests provide evidence for ant community stratification and nest site limitation in a tropical forest. *Biotropica* 52: 277-287. <http://dx.doi.org/10.1111/btp.12684>

Mukherjee I., Salcher M., Andrei A., **Silva Kavagutti V. KBE**, Shabarova T., Grujić V., Haber M., Layoun P., Hodoki Y., Nakano S., **Šimek K. KBE**, Ghai R. 2020. A freshwater radiation of diplomonads. *Environmental Microbiology* 22: 4658-4668. <http://dx.doi.org/10.1111/1462-2920.15209>

**Müllerová A. KBO**, **Řehouňková K. KBO**, **Prach K. KBO** 2020. What is a reasonable plot size for sampling aquatic vegetation?. *Aquatic Sciences* 82: nestránkováno. <http://dx.doi.org/10.1007/s00027-020-00743-x>

Mylenko M., Vu DL., Kuta J., Ranglová K., Kubac D., Lakatos G., Grivalsky T., Caporgno MP., **Camara Manoel JAC. KEBR**, Kopecky J., Masojidek J., Hrouzek P. 2020. Selenium Incorporation to Amino Acids in *Chlorella* Cultures Grown in Phototrophic and Heterotrophic Regimes. *Journal of Agricultural and Food Chemistry* 68: 1654-1665. <http://dx.doi.org/10.1021/acs.jafc.9b06196>

Nedbal V., **Láska K. CPE**, Brom J. 2020. Mitigation of Arctic Tundra Surface Warming by Plant Evapotranspiration: Complete Energy Balance Component Estimation Using LANDSAT Satellite Data. *Remote Sensing* 12: 3395. <http://dx.doi.org/10.3390/rs12203395>

- Nedvěd O. KZO**, Biranvand A., Shakarami J., Senal D. 2020. POTENTIAL MULLERIAN MIMICRY BETWEEN ADALIA BIPUNCTATA (LINNAEUS) AND OENOPIA CONGLOBATA (LINNAEUS) (COLEOPTERA: COCCINELLIDAE) IN IRAN. *Coleopterists Bulletin* 74: 161-167. <http://dx.doi.org/10.1649/0010-065X-74.1.161>
- Niedźwiecka J. KBE**, McGee K., Finneran KT. 2020. Combined Biotic-Abiotic 2,4-Dinitroanisole Degradation in the Presence of Hexahydro-1,3,5-trinitro-1,3,5-triazine. *Environmental Science & Technology* 54: 10638-10645. <http://dx.doi.org/10.1021/acs.est.0c02363>
- Nostadt R., Hilbert M., Nizam S., Rovenich H., Wawra S., Martin J., **Küpper H. KEBR**, Mijovilovich A., Ursinus A., Langen G., Hartmann MD., Lupas AN., Zuccaro A. 2020. A secreted fungal histidine- and alanine-rich protein regulates metal ion homeostasis and oxidative stress. *New Phytologist* 227: 1174-1188. <http://dx.doi.org/10.1111/nph.16606>
- Novackova J., Cizkova M., Mokhtar MG., **Duda P. KZO**, Stenzl V., Triska P., Hofmanova Z., Cerny V. 2020. Subsistence strategy was the main factor driving population differentiation in the bidirectional corridor of the African Sahel. *American Journal of Physical Anthropology* 171: nestránkováno. <http://dx.doi.org/10.1002/ajpa.24001>
- Nováková N. KZO**, **Veselý P. KZO**, **Fuchs R. KZO** 2020. Object categorization by wild-ranging birds in nest defence. *Animal Cognition* 23: 203-213. <http://dx.doi.org/10.1007/s10071-019-01329-3>
- Oborník M. KMB** 2020. Photoparasitism as an Intermediate State in the Evolution of Apicomplexan Parasites. *Trends in Parasitology* 36: 727-734. <http://dx.doi.org/10.1016/j.pt.2020.06.002>
- Ottaviani G., Keppel G., Gotzenberger L., Harrison S., Opedal OH., Conti L., Liancourt P., Klimesova J., Silveira FAO., Jimenez-Alfaro B., Negoita L., **Doležal J. KBO**, Hajek M., Ibanez T., Mendez-Castro FE., Chytrý M. 2020. Linking Plant Functional Ecology to Island Biogeography. *Trends in Plant Science* 25: 329-339. <http://dx.doi.org/10.1016/j.tplants.2019.12.022>
- Outrata JV., **Valdman J. UMB** 2020. On computation of optimal strategies in oligopolistic markets respecting the cost of change. *Mathematical methods of operations research* 92: 489-509. <http://dx.doi.org/10.1007/s00186-020-00721-x>
- Özcan E. UFY**, Aksoy BT., Ecik ET., Dere A., Karabulut A., Yakuphanoglu F., Cosut B. 2020. Fabrication of hybrid photodiode systems: BODIPY decorated cyclotriphosphazene covalently grafted graphene oxides. *Inorganic Chemistry Frontiers* 7: 2920-2931. <http://dx.doi.org/10.1039/d0qi00468e>
- Pandey SK. UCH**, Melicherčík M., **Řeha D. UCH**, Etrich RH., Carey J. 2020. Conserved Dynamic Mechanism of Allosteric Response to L-arg in Divergent Bacterial Arginine Repressors. *Molecules* 25: nestránkováno. <http://dx.doi.org/10.3390/molecules25092247>
- Panek T., Elias M., **Vancová M. KPA**, **Lukeš J. KMB**, **Hashimi MMH. KMB** 2020. Returning to the Fold for Lessons in Mitochondrial Crista Diversity and Evolution. *Current Biology* 30: R575-R588. <http://dx.doi.org/10.1016/j.cub.2020.02.053>
- Park S., Andrei A., Bulzu P., **Silva Kavagutti V. KBE**, Ghai R., Mosier AC. 2020. Expanded Diversity and Metabolic Versatility of Marine Nitrite-Oxidizing Bacteria Revealed by Cultivation- and Genomics-Based Approaches. *Applied and Environmental Microbiology* 86: nestránkováno. <http://dx.doi.org/10.1128/AEM.01667-20>
- Pauly D., **Valdman J. UMB** 2020. Poincare-Friedrichs type constants for operators involving grad, curl, and div: Theory and numerical experiments. *Computers & Mathematics with Applications* 79: 3027-3067. <http://dx.doi.org/10.1016/j.camwa.2020.01.004>
- Perez Gomez R. KMB**, **Magnin V. KMB**, **Mihajlović Z. KMB**, **Slaninová V. KMB**, **Krejčí (Bruce) A. KMB** 2020. Downregulation of respiratory complex I mediates major signalling changes triggered by TOR activation. *Scientific Reports* 10: nestránkováno. <http://dx.doi.org/10.1038/s41598-020-61244-3>
- Perez-Miranda F., Mejia O., Lopez B., **Řičan O. KZO** 2020. Molecular clocks, biogeography and species diversity in *Herichthys* with evaluation of the role of Punta del Morro as a vicariant brake along the Mexican Transition Zone in the context of local and global time frame of cichlid diversification. *PeerJ* 8: nestránkováno. <http://dx.doi.org/10.7717/peerj.8818>
- Perez-Miranda F., Mejia O., Gonzalez-Diaz AA., Martinez-Mendez N., Soto-Galera E., Zuniga G., **Řičan O. KZO** 2020. The role of head shape and trophic variation in the diversification of the genus *Herichthys* in sympatry and allopatry. *Journal of Fish Biology* 96: 1370-1378. <http://dx.doi.org/10.1111/jfb.14304>
- Pernicova I., Novackova I., Sedlacek P., Kourilova X., Kalina M., Kovalcik A., Koller M., **Nebesářová J. UFY**, Krzyzanek V., Hrubanova K., Masilko J., Slaninova E., Obruca S. 2020. Introducing the Newly Isolated Bacterium *Aneurinibacillus* sp. H1 as an Auspicious Thermophilic Producer of Various Polyhydroxyalkanoates (PHA) Copolymers-1. Isolation and Characterization of the Bacterium. *Polymers* 12: nestránkováno. <http://dx.doi.org/10.3390/polym12061235>

Petrzelkova KJ., Smejkalova P., Ceza V., Pafco B., Shutt-Phillips KA., Todd A., **Jirků K. KME**, Benavides J., Modry D., Cepicka I. 2020. Sympatric western lowland gorillas, central chimpanzees and humans are infected with different trichomonads. *Parasitology* 147: 225-230. <http://dx.doi.org/10.1017/S0031182019001343>

Pilotto F., Kuehn I., Adrian R., Alber R., Alignier A., Andrews Ch., Baeck J., Barbaro L., Beaumont D., Beenaerts N., Benham S., **Boukal D. KBE**, Bretagnolle V., Camatti E., Canullo R., Cardoso PG., Ens BJ., Everaert G., Evtimova V., Feuchtmayr H., Garcia-Gonzalez R., Gomez Garcia D., Grandin U., Gutowski JM., Hadar L., Halada L., Halassy M., Hummel H., Huttunen K., Jaroszewicz B., Jensen TC., Kalivoda H., Schmidt IK., Kroencke I., Leinonen R., Martinho F., Meesenburg H., Meyer J., Minerbi S., Monteith D., Nikolov BP., Oro D., Ozolins D., Padedda BM., Pallett D., Pansera M., Pardal MA., Petriccione B., Pipan T., Poeyry J., Schaefer SM., Schaub M., Schneider SC., Skuja A., Soetaert K., Springe G., Stanchev R., Stockan JA., Stoll S., Sundqvist L., Thimonier A., Van Hoey G., Van Ryckegem G., Visser ME., Vorhauser S., Haase P. 2020. Meta-analysis of multidecadal biodiversity trends in Europe. *Nature Communications* 11: nestránkováno. <http://dx.doi.org/10.1038/s41467-020-17171-y>

Piwosz K., Shabarova T., Pernthaler J., Posch T., **Šimek K. KBE**, **Porcal P. KBE**, Salcher MM. 2020. Bacterial and Eukaryotic Small-Subunit Amplicon Data Do Not Provide a Quantitative Picture of Microbial Communities, but They Are Reliable in the Context of Ecological Interpretations. *mSphere* 5: nestránkováno. <http://dx.doi.org/10.1128/mSphere.00052-20>

Piwosz K., Vrdoljak A., Frenken T., Gonzalez-Olalla JM., Santic D., McKay RM., Spilling K., Guttman L., Znachor P., **Mujakić I. KBE**, Fecskeova LK., Zoccarato L., Hanusova M., Pessina A., Reich T., Grossart H., Koblizek M. 2020. Light and Primary Production Shape Bacterial Activity and Community Composition of Aerobic Anoxygenic Phototrophic Bacteria in a Microcosm Experiment. *mSphere* 5: nestránkováno. <http://dx.doi.org/10.1128/mSphere.00354-20>

**Pleštilová L. KZO**, **Okrouhlík J. KZO**, Burda H., **Sehadová H. KMB**, **KME**, Valesky EM., **Šumbera R. KZO** 2020. Functional histology of the skin in the subterranean African giant mole-rat: thermal windows are determined solely by pelage characteristics. *PeerJ* 8: nestránkováno. <http://dx.doi.org/10.7717/peerj.8883>

**Plowman NS. KZO**, **Mottl O. KZO**, **Novotný V. KZO**, Idigel C., Philip FJ., Rimandai M., Klimes P. 2020. Nest microhabitats and tree size mediate shifts in ant community structure across elevation in tropical rainforest canopies. *Ecography* 43: 431-442. <http://dx.doi.org/10.1111/ecog.04730>

Pluhacek J., **Tučková V. KZO**, Sarova R., King SRB. 2020. Effect of social organisation on interspecific differences in overmarking behaviour of foals in African equids. *Animal Cognition* 23: 131-140. <http://dx.doi.org/10.1007/s10071-019-01323-9>

Podesvova L., Lestinova T., Horakova E., **Lukeš J. KMB**, Volf P., Yurchenko V. 2020. Suicidal Leishmania. *Pathogens* 9: nestránkováno. <http://dx.doi.org/10.3390/pathogens9020079>

**Porcal P. KBE**, Amirbahman A., **Kopáček J. KBE**, Norton SA. 2020. Solar Radiation as the Likely Cause of Acid-Soluble Rare-Earth Elements in Sediments of Fresh Water Humic Lakes. *Environmental Science & Technology* 54: 1545-1553. <http://dx.doi.org/10.1021/acs.est.9b05146>

**Prach K. KBO**, **Šebelíková L. KBO**, **Řehounková K. KBO**, del Moral R. 2020. Possibilities and limitations of passive restoration of heavily disturbed sites. *Landscape Research* 45: 247-253. <http://dx.doi.org/10.1080/01426397.2019.1593335>

Prancl J., Fehrer J., Caklova P., Bambasova V., **Lučanová M. KBO**, Kaplan Z. 2020. Intricate evolutionary history of Callitriche(Plantaginaceae) taxa elucidated by a combination of DNAsequencing and genome size. *Taxon* 69: 1016-1041. <http://dx.doi.org/10.1002/tax.12315>

Prescott CE., Grayston SJ., Helmisaari H., **Kaštovská E. KBE**, Korner Ch., Lambers H., Meier IC., Millard P., Ostonen I. 2020. Surplus Carbon Drives Allocation and Plant-Soil Interactions. *Trends in Ecology and Evolution* 35: 1110-1118. <http://dx.doi.org/10.1016/j.tree.2020.08.007>

Proctor MS., **Pazderník M. UCH**, Jackson PJ., Pilny J., Martin EC., Dickman MJ., Canniffe DP., Johnson MP., Hunter CN., **Sobotka R. KMB**, Hitchcock A. 2020. Xanthophyll carotenoids stabilise the association of cyanobacterial chlorophyll synthase with the LHC-like protein HliD. *Biochemical Journal* 477: 4021-4036. <http://dx.doi.org/10.1042/BCJ20200561>

**Prysiazny V. UFY**, **Dyčka F. UCH**, **Kratochvíl J. UFY**, **Štěřba J. UCH**, **Straňák V. UFY** 2020. Gas-aggregated Ag nanoparticles for detection of small molecules using LDI MS. *Analytical and Bioanalytical Chemistry* 412: 1037-1047. <http://dx.doi.org/10.1007/s00216-019-02329-5>

**Prysiazny V. UFY**, **Dyčka F. UCH**, **Kratochvíl J. UFY**, **Straňák V. UFY** 2020. Gas aggregated Ag NPs as a matrix for small molecules: a study on natural amino acids. *Journal of Nanoparticle Research* 22: nestránkováno. <http://dx.doi.org/10.1007/s11051-020-05082-4>

- Předota M. UFY, Biriukov D. UFY** 2020. Electronic continuum correction without scaled charges. *Journal of Molecular Liquids* 314: nestránkováno. <http://dx.doi.org/10.1016/j.molliq.2020.113571>
- Pugnaire FI., Piston N., **Macek P. CPE**, Schob Ch., Estruch C., Armas C. 2020. Warming enhances growth but does not affect plant interactions in an alpine cushion species. *Perspectives in Plant Ecology, Evolution and Systematics* 44: nestránkováno. <http://dx.doi.org/10.1016/j.ppees.2020.125530>
- Pyrh J., **Rašková V. KMB**, Skodova-Sverakova I., Panek T., **Lukeš J. KMB** 2020. ZapE/Afg1 interacts with Oxa1 and its depletion causes a multifaceted phenotype. *PLoS One* 15: nestránkováno. <http://dx.doi.org/10.1371/journal.pone.0234918>
- Pysek P., Cuda J., **Šmilauer P. KBE**, Skalova H., Chumova Z., Lambertini C., **Lučanová M. KBO**, Rysava H., Travnicek P., Semberova K., Meyerson LA. 2020. Competition among native and invasive *Phragmites australis* populations: An experimental test of the effects of invasion status, genome size, and ploidy level. *Ecology and Evolution* 10: 1106-1118. <http://dx.doi.org/10.1002/ece3.5907>
- Roberts DL., **Jarič I. KBE** 2020. Inferring the extinction of species known only from a single specimen. *Oryx* 54: 161-166. <http://dx.doi.org/10.1017/S0030605319000590>
- Robertson PA., Mill A., Novoa A., Jeschke JM., Essl F., Gallardo B., Geist J., **Jarič I. KBE**, Lambin X., Musseau C., Pergl J., Pysek P., Rabitsch W., von Schmalensee M., Shirley M., Strayer DL., Stefansson RA., Smith K., Booy O. 2020. A proposed unified framework to describe the management of biological invasions. *Biological Invasions* 22: 2633-2645. <http://dx.doi.org/10.1007/s10530-020-02298-2>
- Rodriguez Ruano SM. KPA, Juhaňáková E. KPA, Vávra J. KPA, Nováková E. KPA** 2020. Methodological Insight Into Mosquito Microbiome Studies. *Frontiers in Cellular and Infection Microbiology* 10: nestránkováno. <http://dx.doi.org/10.3389/fcimb.2020.00086>
- Rotterova J., Salomaki E., Panek T., Bourland W., Zihala D., Taborsky P., Edgcomb VP., Beinart RA., **Kolíško M. KMB**, Cepicka I. 2020. Genomics of New Ciliate Lineages Provides Insight into the Evolution of Obligate Anaerobiosis. *Current Biology* 30: 2037-2050.e6. <http://dx.doi.org/10.1016/j.cub.2020.03.064>
- Roy K., **Vrba J. KBE**, Kaushik SJ., Mráz J., 2020. Feed-based common carp farming and eutrophication: is there a reason for concern?. *Reviews in Aquaculture* 12: 1736-1758. <http://dx.doi.org/10.1111/raq.12407>
- Roy K., **Vrba J. KBE**, Kaushik SJ., **Mráz J.**, 2020. Nutrient footprint and ecosystem services of carp production in European fishponds in contrast to EU crop and livestock sectors. *Journal of Cleaner Production* 270: nestránkováno. <http://dx.doi.org/10.1016/j.jclepro.2020.122268>
- Rycewicz M., Macewicz L., **Kratochvíl J. UFY**, Stanislawski A., Ficek M., Sawczak M., **Straňák V. UFY**, Szkodo M., Bogdanowicz R. 2020. Physicochemical and Mechanical Performance of Freestanding Boron-Doped Diamond Nanosheets Coated with C:H:N:O Plasma Polymer. *Materials* 13: nestránkováno. <http://dx.doi.org/10.3390/ma13081861>
- Rychtecká T. KBO, Lepš J. KBO** 2020. Species traits are better determinants of mobility than management in a species-rich meadow. *Journal of Vegetation Science* 31: 686-698. <http://dx.doi.org/10.1111/jvs.12926>
- Řehounková K. KBO, Vítovcová K. KBO, Prach K. KBO** 2020. Threatened vascular plant species in spontaneously revegetated post-mining sites. *Restoration Ecology* 28: 679-686. <http://dx.doi.org/10.1111/rec.13027>
- Saba M., **Haelewaters D. KZO**, Pfister D., Khalid AN. 2020. New species of *Pseudosperma* (Agaricales, Inocybaceae) from Pakistan revealed by morphology and multi-locus phylogenetic reconstruction. *MycologyKeys* neueden: 1-31. <http://dx.doi.org/10.3897/mycokeys.69.33563>
- Saccon F., **Durchan M. UFY, Polívka T. UFY**, Ruban AV. 2020. The robustness of the terminal emitter site in major LHCII complexes controls xanthophyll function during photoprotection. *Photochemical & Photobiological Sciences* 19: 1308-1318. <http://dx.doi.org/10.1039/d0pp00174k>
- Saccon F., **Durchan M. UFY, Bína D. UCH**, Duffy ChDP., Ruban AV., **Polívka T. UFY** 2020. A Protein Environment-Modulated Energy Dissipation Channel in LHCII Antenna Complex. *iScience* 23: nestránkováno. <http://dx.doi.org/10.1016/j.isci.2020.101430>
- Saha S., Esposito G., Urajova P., Mares J., Ewe D., Caso A., **Macho M. UCH, Delawská K. KME**, Kust A., Hrouzek P., **Juráň J. KBO**, Costantino V., Saurav K. 2020. Discovery of Unusual Cyanobacterial Tryptophan-Containing Anabaenopeptins by MS/MS-Based Molecular Networking. *Molecules* 25: nestránkováno. <http://dx.doi.org/10.3390/molecules25173786>

- Sak B., **Brdíčková K. KPA**, Holubová N., Kvetonova D., Hlaskova L., Kváč M. 2020. A massive systematic infection of *Encephalitozoon cuniculi* genotype III in mice does not cause clinical signs. *Microbes and Infection* 22: 467-473. <http://dx.doi.org/10.1016/j.micinf.2020.06.004>
- Sak B., **Brdíčková K. KPA**, Holubová N., Kvetonova D., Hlaskova L., Kváč M. 2020. *Encephalitozoon cuniculi* Genotype III Evinces a Resistance to Albendazole Treatment in both Immunodeficient and Immunocompetent Mice. *Antimicrobial Agents and Chemotherapy* 64: nestránkováno. <http://dx.doi.org/10.1128/AAC.00058-20>
- Salat J., Mikulasek K., Larralde O., Formanova PP., Chrdle A., Haviernik J., **Elsterová J. KME**, Teislerova D., Palus M., Eyer L., Zdrahal Z., Petrik J., Ruzek D. 2020. Tick-Borne Encephalitis Virus Vaccines Contain Non-Structural Protein 1 Antigen and May Elicit NS1-Specific Antibody Responses in Vaccinated Individuals. *Vaccines* 8: nestránkováno. <http://dx.doi.org/10.3390/vaccines8010081>
- Salak M., Vaclav R., **Sedláček F. KZO** 2020. Uncropped habitats under power pylons are overlooked refuges for small mammals in agricultural landscapes. *Agriculture Ecosystems and Environment* 290: nestránkováno. <http://dx.doi.org/10.1016/j.agee.2019.106777>
- Salgueiro PA., **Prach K. KBO**, Branquinho C., Mira A. 2020. Enhancing biodiversity and ecosystem services in quarry restoration - challenges, strategies, and practice. *Restoration Ecology* 28: 655-660. <http://dx.doi.org/10.1111/rec.13160>
- Salomaki ED., Eme L., Brown MW., **Kolíško M. KMB** 2020. Releasing uncurated datasets is essential for reproducible phylogenomics. *Nature Ecology & Evolution* 4: 1435-1437. <http://dx.doi.org/10.1038/s41559-020-01296-w>
- Sam K. KZO**, Koane B. 2020. Biomass, abundances, and abundance and geographical range size relationship of birds along a rainforest elevational gradient in Papua New Guinea. *PeerJ* 8: nestránkováno. <http://dx.doi.org/10.7717/peerj.9727>
- Sam K. KZO**, Koane B., Sam L., **Mrázová A. KZO**, **Segar ST. KZO**, **Volf M. KZO**, Moos M., Simek P., Sisol M., **Novotný V. KZO** 2020. Insect herbivory and herbivores of *Ficus* species along a rain forest elevational gradient in Papua New Guinea. *Biotropica* 52: 263-276. <http://dx.doi.org/10.1111/btp.12741>
- Santos AP., Gaudin V., **Mozgová I. KMB**, Pontvianne F., Schubert D., Tek AL., Dvorackova M., Liu Ch., Fransz P., Rosa S., Farrona S. 2020. Tidying-up the plant nuclear space: domains, tidingyng, and dynamics. *Journal of Experimental Botany* 71: 5160-5178. <http://dx.doi.org/10.1093/jxb/eraa282>
- Sato S., Nanjappa D., Dorrell RG., Jimenez Vieira FR., Kazamia E., Tirichine L., Veluchamy A., Heilig R., Aury J., Jaillon O., Wincker P., Fussy Z., **Oborník M. KMB**, Munoz-Gomez SA., Mann DG., Bowler Ch., Zingone A. 2020. Genome-enabled phylogenetic and functional reconstruction of an araphid pennate diatom *Plagiosiriata* sp. CCMP470, previously assigned as a radial centric diatom, and its bacterial commensal. *Scientific Reports* 10: nestránkováno. <http://dx.doi.org/10.1038/s41598-020-65941-x>
- Sedlacek P., Pernicova I., Novackova I., Kourilova X., Kalina M., Kovalcik A., Koller M., **Nebesářová J. UFY**, Krzyzanek V., Hrubanova K., Masilko J., Slaninova E., Trudicova M., Obruca S. 2020. Introducing the Newly Isolated *Bacterium Aneurinibacillus* sp. H1 as an Auspicious Thermophilic Producer of Various Polyhydroxyalkanoates (PHA) Copolymers-2. Material Study on the Produced Copolymers. *Polymers* 12: nestránkováno. <http://dx.doi.org/10.3390/polym12061298>
- Segar ST. KZO**, **Fayle TM. KZO**, Srivastava DS., Lewinsohn TM., Lewis OT., **Novotný V. KZO**, Kitching RL., Maunsell SC. 2020. The Role of Evolution in Shaping Ecological Networks. *Trends in Ecology and Evolution* 35: 454-466. <http://dx.doi.org/10.1016/j.tree.2020.01.004>
- Segar ST. KZO**, **Fayle TM. KZO**, Srivastava DS., Lewinsohn TM., Lewis OT., **Novotný V. KZO**, Kitching RL., Maunsell SC. 2020. On the Perils of Ignoring Evolution in Networks. *Trends in Ecology and Evolution* 35: 865-866. <http://dx.doi.org/10.1016/j.tree.2020.07.016>
- Sehadová H. KMB, KME**, Guerra PA., **Šauman I. KMB**, Reppert SM. 2020. A re-evaluation of silk measurement by the cecropia caterpillar (*Hyalophora cecropia*) during cocoon construction reveals use of a silk odometer that is temporally regulated. *PLoS One* 15: nestránkováno. <http://dx.doi.org/10.1371/journal.pone.0228453>
- Sehadová H. KMB, KME**, Takasu Y., Zaloudikova A., **Lin Y. KZO**, **Šauman I. KMB**, Sezutsu H., **Rouhová L. KMB**, **Kodřík D. KZO**, **Žurovec M. KMB** 2020. Functional Analysis of Adipokinetic Hormone Signaling in *Bombyx mori*. *Cells* 9: nestránkováno. <http://dx.doi.org/10.3390/cells9122667>
- Seifert CL. KZO**, **Volf M.**, **Ré Jorge L. KZO**, Abe T., Carscallen G., Drozd P., Kumar R., Lamarre GPA., **Libra M. KZO**, Losada ME., Miller SE., Murakami M., Nichols G., Pyszko P., Sigut M., Wagner DL.,

- Novotný V. KZO** 2020. Plant phylogeny drives arboreal caterpillar assemblages across the Holarctic. *Ecology and Evolution* 10: 14137-14151. <http://dx.doi.org/10.1002/ece3.7005>
- Seifert CL. KZO, Lamarre GPA. KZO, Volf M., Jorge LR., Miller SE., Wagner DL., Anderson-Teixeira KJ., Novotný V. KZO** 2020. Vertical stratification of a temperate forest caterpillar community in eastern North America. *Oecologia* 192: 501-514. <http://dx.doi.org/10.1007/s00442-019-04584-w>
- Semančíková E. KBE, Gradinaru SR., Aubrechtova T., Hersperger AM.** 2020. Framing fragmentation in strategic policy documents in spatial planning and environmental domains: differences and similarities. *Journal of Environmental Planning and Management* 63: 415-432. <http://dx.doi.org/10.1080/09640568.2019.1589433>
- Sember A., Pappova M., Forman M., **Nguyen P. KMB, Marec F., Dalíková M. KMB, Divisova K., Doležalkova-Kastankova M., Zrzavá M. KMB, Sadilek D., Hrubá B., Kral J.** 2020. Patterns of Sex Chromosome Differentiation in Spiders: Insights from Comparative Genomic Hybridisation. *Genes* 11: nestránkováno. <http://dx.doi.org/10.3390/genes11080849>
- Shaik AH. KZO, Mishra A., Sehadová H. KMB, KME, Kodrík D. KZO** 2020. Responses of sericotropin to toxic and pathogenic challenges: possible role in defense of the wax moth *Galleria mellonella*. *Comparative Biochemistry and Physiology C - Toxicology and Pharmacology* 227: nestránkováno. <http://dx.doi.org/10.1016/j.cbpc.2019.108633>
- Shaik AH. KZO, Mishra A., Hussein HM., Habustova OS., Sehnal F.** 2020. Competitive interactions between entomopathogenic nematodes and parasitoid venom. *Journal of Applied Entomology* 144: 481-490. <http://dx.doi.org/10.1111/jen.12750>
- Shalygin S., Shalygina RR., Redkina VV., Gargas CB., **Johansen JR. KBO** 2020. Description of *Stenomitos kolaensis* and *S. hiloensis* sp. nov. (Leptolyngbyaceae, Cyanobacteria) with an emendation of the genus. *Phytotaxa* 440: 108-128. <http://dx.doi.org/10.11646/phytotaxa.440.2.3>
- Shukla SP., **Kvíděrová J. CPE, Adamec L., Elster J. CPE** 2020. Ecophysiological Features of Polar Soil Unicellular Microalgae(1). *Journal of Phycology* 56: 481-495. <http://dx.doi.org/10.1111/jpy.12953>
- Singh KS., Troczka BJ., Duarte A., Balabanidou V., Trissi N., Paladino LZC., **Nguyen P. KMB, Zimmer ChT., Papapostolou KM., Randall E., Lueke B., Marec F., Mazzoni E., Williamson MS., Hayward A., Nauen R., Vontas J., Bass Ch.** 2020. The genetic architecture of a host shift: An adaptive walk protected an aphid and its endosymbiont from plant chemical defenses. *Science Advances* 6: nestránkováno. <http://dx.doi.org/10.1126/sciadv.aba1070>
- Sirova D., **Kreidlová V. KBE, Adamec L., Vrba J. KBE** 2020. The Ability of *Tetrahymena utriculariae*(Ciliophora, Oligohymenophorea) to Colonize Traps of Different Species of Aquatic Carnivorous *Utricularia*. *Journal of Eukaryotic Microbiology* 67: 608-611. <http://dx.doi.org/10.1111/jeu.12812>
- Skodova-Sverakova I., Zahonova K., Buckova B., Fussy Z., Yurchenko V., **Lukeš J. KMB** 2020. Catalase and Ascorbate Peroxidase in Euglenozoan Protists. *Pathogens* 9: nestránkováno. <http://dx.doi.org/10.3390/pathogens9040317>
- Smietana M., Koba M., **Sezemský P. UFY, Szot-Karpinska K., Burnat D., Straňák V. UFY, Niedziolka-Jonsson J., Bogdanowicz R.** 2020. Simultaneous optical and electrochemical label-free biosensing with ITO-coated lossy-mode resonance sensor. *Biosensors and Bioelectronics* 154: nestránkováno. <http://dx.doi.org/10.1016/j.bios.2020.112050>
- Smykal V., Pivarci M., Provaznik J., Bazalova O., Jedlicka P., Luksan O., Horak A., Vaneckova H., Benes V., Fiala I., Hanus R., **Doležel D. KMB** 2020. Complex Evolution of Insect Insulin Receptors and Homologous Decoy Receptors, and Functional Significance of Their Multiplicity. *Molecular Biology and Evolution* 37: 1775-1789. <http://dx.doi.org/10.1093/molbev/msaa048>
- Solcova A., Jamrichova E., Horsak M., Paril P., Petr L., Heiri O., **Květoň J. KEBR, Krizek M., Hartvich F., Hajek M., Hajkova P.** 2020. Abrupt vegetation and environmental change since the MIS 2: A unique paleorecord from Slovakia (Central Europe). *Quaternary Science Reviews* 230: nestránkováno. <http://dx.doi.org/10.1016/j.quascirev.2020.106170>
- Sottas C., Reif J., Kreisinger J., Schmiedova L., **Sam K. KZO, Osiejuk TS., Reifova R.** 2020. Tracing the early steps of competition-driven eco-morphological divergence in two sister species of passerines. *Evolutionary Ecology* 34: 501-524. <http://dx.doi.org/10.1007/s10682-020-10050-4>
- Souto Vilarós D. KZO, Houadria M., Michalek J., Sisol M., Isua B., Kuyaiva T., Weiblen GD., Novotný V. KZO, Segar ST.** 2020. Contrasting patterns of fig wasp communities along Mt. Wilhelm, Papua New Guinea. *Biotropica* 52: 323-334. <http://dx.doi.org/10.1111/btp.12763>
- Souza AT., Soukalova K., Ded V., Smejkal M., Blabolil P., Riha M., Juza T., Vasek M., Cech M., Peterka J., Vejrik L., Vejrikova I., Tuser M., Muska M., Holubova M., **Boukal D. KBE, Kubecka J.** 2020. Ontogenetic and interpopulation

differences in otolith shape of the European perch (*Perca fluviatilis*). *Fisheries Research* 230: nestránkováno. <http://dx.doi.org/10.1016/j.fishres.2020.105673>

Speijer D., Hammond M., **Lukeš J. KMB** 2020. Comparing Early Eukaryotic Integration of Mitochondria and Chloroplasts in the Light of Internal ROS Challenges: Timing is of the Essence. *mBio* 11: nestránkováno. <http://dx.doi.org/10.1128/mBio.00955-20>

Spribille T., Fryday AM., Perez-Ortega S., Svensson M., Tonsberg T., Ekman S., Holien H., Resl P., Schneider K., Stabentheiner E., Thues H., **Vondrák J. KBO**, Sharman L. 2020. Lichens and associated fungi from Glacier Bay National Park, Alaska. *Lichenologist* 52: 61-181. <http://dx.doi.org/10.1017/S0024282920000079>

Srivastava A., Summers ML., **Sobotka R. KMB** 2020. Cyanobacterial sigma factors: Current and future applications for biotechnological advances. *Biotechnology Advances* 40: nestránkováno. <http://dx.doi.org/10.1016/j.biotechadv.2020.107517>

Stahlavsky F., **Nguyen P. KMB**, Sadilek D., Stundlova J., Just P., Haddad ChR., Koc H., Ranawana KB., Stockmann M., Yagmur EA., Kovarik F. 2020. Evolutionary dynamics of rDNA clusters on chromosomes of buthid scorpions (Chelicerata: Arachnida). *Biological Journal of the Linnean Society* 131: 547-565. <http://dx.doi.org/10.1093/biolinnean/blaa118>

**Staleva-Musto HA. UFY, Kuznetsova V. UFY, Bína D. UCH, Litvín R. UCH, Polívka T. UFY** 2020. Intramolecular charge-transfer state of carotenoids siphonaxanthin and siphonin: function of non-conjugated acyl-oxy group. *Photosynthesis Research* 144: 127-135. <http://dx.doi.org/10.1007/s11120-019-00694-x>

Starke R., **Čapek P. KBE**, Morais D., Jehmlich N., Baldrian P. 2020. Explorative Meta-Analysis of 377 Extant Fungal Genomes Predicted a Total Mycobiome Functionality of 42.4 Million KEGG Functions. *Frontiers in Microbiology* 11: nestránkováno. <http://dx.doi.org/10.3389/fmicb.2020.00143>

Starke R., **Čapek P. KBE**, Morais D., Callister SJ., Jehmlich N. 2020. The total microbiome functions in bacteria and fungi. *Journal of Proteomics* 213: nestránkováno. <http://dx.doi.org/10.1016/j.jprot.2019.103623>

Stasiov S., Diviakova A., **Svitok M. KBE**, Novikmec M., Dovciak M. 2020. Hedgerows support rich communities of harvestmen (Opiliones) in upland agricultural landscape. *Basic and Applied Ecology* 47: 73-82. <http://dx.doi.org/10.1016/j.baae.2020.05.001>

Strakova P., Larmola T., Andres J., Ilola N., Launiainen P., **Edwards KR. KBE**, Minkkinen K., Laiho R. 2020. Quantification of Plant Root Species Composition in Peatlands Using FTIR Spectroscopy. *Frontiers in Plant Science* 11: nestránkováno. <http://dx.doi.org/10.3389/fpls.2020.00597>

Strechaite S., Macernis M., Li F., **Trsková E. KEBR, Litvín R. UCH**, Yang Ch., Pascal AA., Valkunas L., Robert B., Llansola-Portoles MJ. 2020. Modeling Dynamic Conformations of Organic Molecules: Alkyne Carotenoids in Solution. *Journal of Physical Chemistry A* 124: 2792-2801. <http://dx.doi.org/10.1021/acs.jpca.9b11536>

**Strnad M. KPA, Rego ROM. KPA** 2020. The need to unravel the twisted nature of the *Borrelia burgdorferi* sensu lato complex across Europe. *Microbiology-SGM* 166: 428-435. <http://dx.doi.org/10.1099/mic.0.000899>

**Strnad M. KPA, Grubhoffer L. KPA, Rego ROM.** 2020. Novel targets and strategies to combat borreliosis. *Applied Microbiology and Biotechnology* 104: 1915-1925. <http://dx.doi.org/10.1007/s00253-020-10375-8>

Strunecký O., Raabova L., **Bernardová A. CPE**, Ivanova AP., Semanova A., **Crossley J. UCH, Kaftan D. UCH** 2020. Diversity of cyanobacteria at the Alaska North Slope with description of two new genera: *Gibliniella* and *Shackletoniella*. *FEMS Microbiology Ecology* 96: nestránkováno. <http://dx.doi.org/10.1093/femsec/fiz189>

**Sucháčková A. KZO, Konvička M. KZO, Marešová J. KZO**, Kolev Z., Wahlberg N., Fric ZF. 2020. Recently lost connectivity in the Western Palearctic steppes: the case of a scarce specialist butterfly. *Conservation Genetics* 21: 561-575. <http://dx.doi.org/10.1007/s10592-020-01271-9>

Supina J., Bojkova J., **Boukal D. KBE** 2020. Warming erodes individual-level variability in life history responses to predation risk in larvae of the mayfly *Cloeon* dipterum. *Freshwater Biology* 65: 2211-2223. <http://dx.doi.org/10.1111/fwb.13619>

Sustr V., **Semanová S. KBE**, Rost-Roszkowska MM., Tajovsky K., Sosinka A., Kaszuba F. 2020. Enzymatic activities in the digestive tract of spirostreptid and spirobolid millipedes (Diplopoda: Spirostreptida and Spirobolida). *Comparative Biochemistry and Physiology B - Biochemistry & Molecular Biology* 241: nestránkováno. <http://dx.doi.org/10.1016/j.cbpb.2019.110388>

Sustr V., Šimek M. KBE, Faktorova L., Mackova J., Tajovsky K. 2020. Release of greenhouse gases from millipedes as related to food, body size, and other factors. *Soil Biology & Biochemistry* 144: nestránkováno. <http://dx.doi.org/10.1016/j.soilbio.2020.107765>

Syrová M. KZO, Hromádková T. KZO, Pavel V. CPE, Veselý P. KZO 2020. Responses of nesting Arctic terns (*Sterna paradisaea*) to disturbance by humans. *Polar Biology* 43: 399-407. <http://dx.doi.org/10.1007/s00300-020-02641-2>

Szefer P. KZO, Molem K., Sau A., Novotný V. KZO 2020. Impact of pathogenic fungi, herbivores and predators on secondary succession of tropical rainforest vegetation. *Journal of Ecology* 108: 1978-1988. <http://dx.doi.org/10.1111/1365-2745.13374>

Šandlová K. KZO, Komarkova M., Ceacero F. 2020. Daddy, daddy cool: stallion-foal relationships in a socially-natural herd of Exmoor ponies. *Animal Cognition* 23: 781-793. <http://dx.doi.org/10.1007/s10071-020-01388-x>

Šebelík V. UFY, West RG. UFY, Kuthanová E. KEBR, Kaňa R., Polívka T. UFY 2020. Energy transfer pathways in the CAC light-harvesting complex of *Rhodomonas salina*. *Biochimica et Biophysica Acta - Bioenergetics* 1861: nestránkováno. <http://dx.doi.org/10.1016/j.bbabi.2020.148280>

Šebelík V. UFY, Klotz M., Rebarz M., Precek M., Kang E., Choi T., Christensen RL., Polívka T. UFY 2020. Spectroscopy and excited state dynamics of nearly infinite polyenes. *Physical Chemistry Chemical Physics* 22: 17867-17879. <http://dx.doi.org/10.1039/d0cp02465a>

Šebelíková L. KBO, Řehounková K. KBO, Prach K. KBO 2020. Vegetation development of forestry reclaimed sand and sand-gravel pits: is it on a way towards more natural species composition?. *Restoration Ecology* 28: 979-987. <http://dx.doi.org/10.1111/rec.13085>

Šimek K. KBE, Grujić V., Mukherjee I., Kasalický V., Nedoma J., Posch T., Mehrshad M., Salcher M. 2020. Cascading effects in freshwater microbial food webs by predatory Cercozoa, Katablepharidacea and ciliates feeding on aplastidic bacterivorous cryptophytes. *FEMS Microbiology Ecology* 96: nestránkováno. <http://dx.doi.org/10.1093/femsec/fiaa121>

Šklíba J. KZO, Vlasatá T. KZO, Lóvy M. KZO, Hrouzková E. KZO, Meheretu Y., Sillero-Zubiri C., Šumbera R. KZO 2020. The giant that makes do with little: small and easy-to-leave home ranges found in the giant root-rat. *Journal of Zoology* 310: 64-70. <http://dx.doi.org/10.1111/jzo.12729>

Škodová-Sveráková I., Prokopchuk G., Peña-Díaz P., Záhonová K., Moos M., Horváth A., Šimek P., Lukeš J. KMB 2020. Unique Dynamics of Paramylon Storage in the Marine Euglenozoan *Diplonema papillatum*. *Protist* 171: nestránkováno. <http://dx.doi.org/10.1016/j.protis.2020.125717>

Šmilauer P. KBE, Šmilauerová M. KBO, Kotlínek M. KBO, Košnar J. KBO 2020. Foraging speed and precision of arbuscular mycorrhizal fungi under field conditions: An experimental approach. *Molecular Ecology* 29: 1574-1587. <http://dx.doi.org/10.1111/mec.15425>

Šmilauer P. KBE, Košnar J. KBO, Kotlínek M. KBO, Šmilauerová M. KBO 2020. Contrasting effects of host identity, plant community, and local species pool on the composition and colonization levels of arbuscular mycorrhizal fungal community in a temperate grassland. *New Phytologist* 225: 461-473. <http://dx.doi.org/10.1111/nph.16112>

Štětina T. KZO, Des Marteaux LE., Kostal V. 2020. Insect mitochondria as targets of freezing-induced injury. *Proceedings of the Royal Society of London Series B - Biological Sciences* 287: nestránkováno. <http://dx.doi.org/10.1098/rspb.2020.1273>

Šumbera R. KZO, Lóvy M. KZO, Marino J., Šimek M., Šklíba J. KZO 2020. Gas composition and its daily changes within burrows and nests of an Afroalpine fossorial rodent, the giant root-rat *Tachyoryctes macrocephalus*. *Zoology* 142: nestránkováno. <http://dx.doi.org/10.1016/j.zool.2020.125819>

Švamberková E. KBO, Lepš J. KBO 2020. Experimental assessment of biotic and abiotic filters driving community composition. *Ecology and Evolution* 10: 7364-7376. <http://dx.doi.org/10.1002/ece3.6461>

Tahovská K. KBE, Choma M. KBE, Kaštovská E. KBE, Oulehle F., Bárta J. KBE, Šantrůčková H. KBE, Moldan F. 2020. Positive response of soil microbes to long-term nitrogen input in spruce forest: Results from Gardsjon whole-catchment N-addition experiment. *Soil Biology & Biochemistry* 143: nestránkováno. <http://dx.doi.org/10.1016/j.soilbio.2020.107732>

Thorn S., Chao A., Georgiev KB., Mueller J., Baessler C., Campbell JL., Castro J., Chen Y., Choi Ch., Cobb TP., Donato DC., Durska E., Macdonald E., Feldhaar H., Fontaine JB., Fornwalt PJ., Hernandez RMH., Hutto RL., Koivula M., Lee E., Lindenmayer D., Mikusinski G., Obrist MK., Perlík M. KZO, Rost J., Waldron K., Wermelinger B., Weiss I., Zmihorski M., Leverkus AB. 2020. Estimating retention benchmarks for salvage logging to protect biodiversity. *Nature Communications* 11: nestránkováno. <http://dx.doi.org/10.1038/s41467-020-18612-4>

- Tichy L., Řehouňková K. **KBO**, Vítovcová K. **KBO**, Prach K. **KBO** 2020. Central-European vegetation types and their optima along successional gradient. *Preslia* : časopis České botanické společnosti 92: 341-352. <http://dx.doi.org/10.23855/preslia.2020.341>
- Tomčala A., Michálek J. **KMB**, Schneedorferová I. **KMB**, Fussy Z., Gruber A., Vancova M., Oborník M. **KMB** 2020. Fatty Acid Biosynthesis in Chromerids. *Biomolecules* 10: nestránkováno. <http://dx.doi.org/10.3390/biom10081102>
- Tomeckova L., Tomčala A., Oborník M. **KMB**, Hampl V. 2020. The Lipid Composition of *Euglena gracilis* Middle Plastid Membrane Resembles That of Primary Plastid Envelopes. *Plant Physiology* 184: 2052-2063. <http://dx.doi.org/10.1104/pp.20.00505>
- Trentelman JJA., Sima R., Krezdorn N., Tomas-Cortazar J., Barriaes D., Takumi K., Butler JM., Sprong H., Klouwens MJ., Urbanova V., Mahmood S. **KMB**, Winter P., Kopacek P., Anguita J., Hajdusek O., Hovius JW. 2020. A combined transcriptomic approach to identify candidates for an anti-tick vaccine blocking *B. afzelii* transmission. *Scientific Reports* 10: nestránkováno. <http://dx.doi.org/10.1038/s41598-020-76268-y>
- Troullinaki M., Chen L., Witt A., Pyrina I., Phielier J., Kourtzelis I., Chmelář J. **KME**, Sprott D., Gercken B., Koutsilieris M., Chavakis T., Chatzigeorgiou A. 2020. Robo4-mediated pancreatic endothelial integrity decreases inflammation and islet destruction in autoimmune diabetes. *FASEB Journal* 34: 3336-3346. <http://dx.doi.org/10.1096/fj.201900125RR>
- Tůma J. **KBE**, Eggleton P., Fayle T. 2020. Ant-termite interactions: an important but under-explored ecological linkage. *Biological Reviews* 95: 555-572. <http://dx.doi.org/10.1111/brv.12577>
- Tveit AT., Kiss A., Winkel M., Horn F., Hájek T. **KEBR**, Svenning MM., Wagner D., Liebner S. 2020. Environmental patterns of brown moss- and Sphagnum-associated microbial communities. *Scientific Reports* 10: nestránkováno. <http://dx.doi.org/10.1038/s41598-020-79773-2>
- Uddin M., Basak D., Hopefl R., Minofar B. **UCH** 2020. Potential Application of Ionic Liquids in Pharmaceutical Dosage Forms for Small Molecule Drug and Vaccine Delivery System. *Journal of Pharmacy and Pharmaceutical Sciences* 23: 158-176. <http://dx.doi.org/10.18433/jpps30965>
- Urbanavichus G., Vondrák J. **KBO**, Urbanavichene I., Palice Z., Malicek J. 2020. Lichens and allied non-lichenized fungi of virgin forests in the Caucasus State Nature Biosphere Reserve (Western Caucasus, Russia). *Herzogia* 33: 90-138. <http://dx.doi.org/10.13158/hea.33.1.2020.90>
- Urbánková G. **KZO**, Šichová K. **KZO**, Riegert J. **KZO**, Horsley R., Mladěnková N. **KZO**, Starck-Lantová P. **KZO**, Sedláček F. **KZO** 2020. Lifetime low behavioural plasticity of personality traits in the common vole (*Microtus arvalis*) under laboratory conditions. *Ethology* 126: 812-823. <http://dx.doi.org/10.1111/eth.13039>
- Urbanová Z. **KBE**, Bárta J. **KBE** 2020. Recovery of methanogenic community and its activity in long-term drained peatlands after rewetting. *Ecological Engineering* 150: nestránkováno. <http://dx.doi.org/10.1016/j.ecoleng.2020.105852>
- Ustjuzhanin P., Kovtunovich V., Maicher V. **KZO**, Sáfián S. **KZO**, Delabye SJJ. **KZO**, Streltsov A., Tropek R. 2020. Even hotter hotspot: description of seven new species of many-plumed moths (Lepidoptera, Alucitidae) from Mount Cameroon. *ZooKeys* neuveden: 103-119. <http://dx.doi.org/10.3897/zookeys.935.49843>
- Vaidulych M., Pleskunov P., Kratochvíl J. **UFY**, Mašková H. **KME**, Kočová P. **UFY**, Nikitin D., Hanus J., Kylian O., Štěrba J. **UFY**, Biederman H., Choukourov A. 2020. Convex vs concave surface nano-curvature of Ta2O5 thin films for tailoring the osteoblast adhesion. *Surface and Coatings Technology* 393: nestránkováno. <http://dx.doi.org/10.1016/j.surfcoat.2020.125805>
- Valencia E., De Bello F. **KBO**, Lepš J. **KBO**, Galland T. **KBO**, Csercsáné Vojtkó A. **KBO**, Conti L., Danihelka J., Dengler J., Eldridge DJ., Estiarte M., Garcia-Gonzalez R., Garnier E., Gomez D., Harrison S., Herben T., Ibanez R., Jentsch A., Juergens N., Kertesz M., Klumpp K., Louault F., Marrs RH., Onodi G., Pakeman RJ., Partel M., Peco B., Penuelas J., Rueda M., Schmidt W., Schmiedel U., Schuetz M., Skalova H., Šmilauer P. **KBE**, Šmilauerová M. **KBO**, Smit Ch., Song M., Stock M., Val J., Vandvik V., Wesche K., Woodcock BA., Young TP., Yu F., Zobel M., Götzberger L. **KBO** 2020. Directional trends in species composition over time can lead to a widespread overemphasis of year-to-year asynchrony. *Journal of Vegetation Science* 31: 792-802. <http://dx.doi.org/10.1111/jvs.12916>
- Valencia Gomez E. **KBO**, De Bello F. **KBO**, Galland T. **KBO**, Adler PB., Lepš J. **KBO**, Csercsáné Vojtkó A. **KBO**, van Klink R., Carmona CP., Danihelka J., Dengler J., Eldridge DJ., Estiarte M., Garcia-Gonzalez R., Garnier E., Gomez-Garcia D., Harrison SP., Herben T., Ibanez R., Jentsch A., Juergens N., Kertesz M., Klumpp K., Louault F., Marrs RH., Ogaya R., Onodi G., Pakeman RJ., Pardo I., Partel M., Peco B., Penuelas J., Pywell RF., Rueda M., Schmidt W., Schmiedel U., Schuetz M., Skalova H., Šmilauer P. **KBE**, Šmilauerová M. **KBO**, Smit Ch., Song M., Stock M., Val J., Vandvik V., Ward D., Wesche K., Wiser SK., Woodcock BA., Young TP., Yu F., Zobel M.,

Gotzenberger L. 2020. Synchrony matters more than species richness in plant community stability at a global scale. *Proceedings of The National Academy of Sciences of The United States of America* 117: 24345-24351. <http://dx.doi.org/10.1073/pnas.1920405117>

Valterova R., Prochazka P., Pozgayova M., **Piálková R. KZO**, **Piálek L. KZO**, Sulc M., Honza M. 2020. Son or daughter, it does not matter: brood parasites do not adjust offspring sex based on their own or host quality. *Journal of Ornithology* 161: 977-986. <http://dx.doi.org/10.1007/s10336-020-01782-9>

Vanclova AMGN., Zoltner M., Kelly S., Soukal P., Zahonova K., Fussy Z., Ebenezer TE., Dobakova EL., Elias M., **Lukeš J. KMB**, Field MC., Hampl V. 2020. Metabolic quirks and the colourful history of the *Euglena gracilis* secondary plastid. *New Phytologist* 225: 1578-1592. <http://dx.doi.org/10.1111/nph.16237>

**Vancová M. KPA**, **Bílý T. UCH**, Simo L., Tous J., Horodysky P., Ruzek D., Novobilsky A., Salat J., **Strnad M. KPA**, Sonenshine DE., **Grubhoffer L. KPA**, **Nebesářová J. UFY** 2020. Three-dimensional reconstruction of the feeding apparatus of the tick *Ixodes ricinus* (Acari: Ixodidae): a new insight into the mechanism of blood-feeding. *Scientific Reports* 10: nestránkováno. <http://dx.doi.org/10.1038/s41598-019-56811-2>

**Věchtová P. KMB**, **UCH**, **Füssy Z. KMB**, **UCH**, Cegan R., **Štěrbá J. UCH**, Erhart J., Benes V., **Grubhoffer L. KPA** 2020. Catalogue of stage-specific transcripts in *Ixodes ricinus* and their potential functions during the tick life-cycle. *Parasites & Vectors* 13: nestránkováno. <http://dx.doi.org/10.1186/s13071-020-04173-4>

Velemínský M., **Dvořáčková O. UFY**, Samková J., Rost M., Sethi D., Velemínský M. 2020. Prevalence of adverse childhood experiences (ACE) in the Czech Republic. *Child Abuse & Neglect* 102: 104249. <http://dx.doi.org/10.1016/j.chiabu.2019.104249>

Vicherova E., Glinwood R., **Hájek T. KEBR**, **Šmilauer P. KBE**, Ninkovic V. 2020. Bryophytes can recognize their neighbours through volatile organic compounds. *Scientific Reports* 10: nestránkováno. <http://dx.doi.org/10.1038/s41598-020-64108-y>

Vinklerek IS., **Bína D. UCH**, Malina T., Collins AM., **Litvín R. UCH**, Alster J., Psencik J. 2020. Triplet state quenching of bacteriochlorophyll c aggregates in a protein-free environment of a chlorosome interior. *Chemical Physics* 529: nestránkováno. <http://dx.doi.org/10.1016/j.chemphys.2019.110542>

**Virnicchi G. KMB**, **Bora P. KMB**, **Gahurová L. KMB**, Susor A., **Bruce AW. KMB** 2020. Wwc2Is a Novel Cell Division Regulator During Preimplantation Mouse Embryo Lineage Formation and Oogenesis. *Frontiers in Cell and Developmental Biology* 8: nestránkováno. <http://dx.doi.org/10.3389/fcell.2020.00857>

**Viček J. KZO**, **Štefka J. KMB**, **KPA** 2020. Association between louse abundance and MHC II supertypes in Galapagos mockingbirds. *Parasitology Research* 119: 1597-1605. <http://dx.doi.org/10.1007/s00436-020-06617-3>

**Vogt-Schilb H. KBE**, **Těšitelová T. KBO**, **Kotlínek M. KBO**, Suchacek P., Kohout P., **Jersáková J. KBE** 2020. Altered rhizoctonia assemblages in grasslands on ex-arable land support germination of mycorrhizal generalist, not specialist orchids. *New Phytologist* 227: 1200-1212. <http://dx.doi.org/10.1111/nph.16604>

Volf M., Laitila JE., Kim J., Sam L., **Sam K. KZO**, Isua B., Sisol M., **Wardhaugh CW. KZO**, Vejmelka F., Miller SE., Weiblen GD., Salminen J., **Novotný V. KZO**, **Segar ST. KZO** 2020. Compound Specific Trends of Chemical Defences in *Ficus* Along an Elevational Gradient Reflect a Complex Selective Landscape. *Journal of chemical ecology* 46: 442-454. <http://dx.doi.org/10.1007/s10886-020-01173-7>

**Vondrák J. KBO**, **Frolov IV. KBO**, **Košnar J. KBO**, Arup U., Veselska T., Halici G., Malicek J., Sochting U. 2020. Substrate switches, phenotypic innovations and allopatric speciation formed taxonomic diversity within the lichen genus *Blastenia*. *Journal of Systematics and Evolution* 58: 295-330. <http://dx.doi.org/10.1111/jse.12503>

**Vondrak T. KMB**, Robledillo LA., Novak P., Koblizkova A., Neumann P., Macas J. 2020. Characterization of repeat arrays in ultra-long nanopore reads reveals frequent origin of satellite DNA from retrotransposon-derived tandem repeats. *Plant Journal* 101: 484-500. <http://dx.doi.org/10.1111/tpj.14546>

Votypka J., Kment P., Yurchenko V., **Lukeš J. KMB** 2020. Endangered monoxenous trypanosomatid parasites: a lesson from island biogeography. *Biodiversity and Conservation* 29: 3635-3667. <http://dx.doi.org/10.1007/s10531-020-02041-2>

Vrablova M., Vrabl D., Sokolova B., Markova D., **Hronková M. KEBR** 2020. A modified method for enzymatic isolation of and subsequent wax extraction from *Arabidopsis thaliana* leaf cuticle. *Plant Methods* 16: nestránkováno. <http://dx.doi.org/10.1186/s13007-020-00673-7>

**Vyhlídalová T. KPA**, Soldanova M. 2020. Species-specific patterns in cercarial emergence of *Diplostomum* spp. from snails *Radix lagotis*. *International Journal for Parasitology* 50: 1177-1188. <http://dx.doi.org/10.1016/j.ijpara.2020.07.009>

Wahlberg N., **Marešová J. KZO**, Murillo-Ramos L., Collins S., Wu L. 2020. The phylogenetic positions of Bhagadatta Moore, 1898, Kumothales Overlaet, 1940 and Hamilla Aurivillius, 1892 (Lepidoptera, Nymphalidae, Limenitidinae) based on molecular data. *Nota Lepidopterologica* 43: 167-171. <http://dx.doi.org/10.3897/nl.43.50307>

Wijayawardene NN., Hyde KD., Al-Ani LKT., Tedersoo L., **Haelewaters D. KZO**, Rajeshkumar KC., Zhao RL., Aptroot A., Leontyev DV., Saxena RK., Tokarev YS., Dai DQ., Letcher PM., Stephenson SL., Ertz D., Lumbsch HT., Kukwa M., Issi IV., Madrid H., Phillips AJL., Selbmann L., Pfliegler WP., Horvath E., Bensch K., Kirk PM., Kolarikova K., Raja HA., Radek R., Papp V., Dima B., Ma J., Malosso E., Takamatsu S., Rambold G., Gannibal PB., Triebel D., Gautam AK., Avasthi S., Suetrong S., Timdal E., Fryar SC., Delgado G., Reblova M., Doilom M., Dolatabadi S., Pawlowska JZ., Humber RA., Kodsueb R., Sanchez-Castro I., Goto BT., Silva DKA., de Souza FA., Oehl FR., da Silva GA., Silva IR., Blaszkowski J., Jobim K., Maia LC., Barbosa FR., Fiuza PO., Divakar PK., Shenoy BD., Castaneda-Ruiz RF., Somrithipol S., Lateef AA., Karunarathna SC., Tibpromma S., Mortimer PE., Wanasinghe DN., Phookamsak R., Xu J., Wang Y., Tian F., Alvarado P., Li DW., Kusan I., Matocec N., Mesic A., Tkalcic Z., Maharachchikumbura SSN., Papizadeh M., Heredia G., Wartchow F., Bakhshi M., Boehm E., Youssef N., Hustad VP., Lawrey JD., Santiago ALCMA., Bezerra JDP., Souza-Motta CM., Firmino AL., Tian Q., Houbraeken J., Hongsanan S., Tanaka K., Dissanayake AJ., Monteiro JS., Grossart HP., Schnittler M. 2020. Outline of Fungi and fungus-like taxa. *Mycosphere* 11: 1060-1456. <http://dx.doi.org/10.5943/mycosphere/11/1/8>

Wijayawardene NN., Hyde KD., Dai DQ., Tang LZ., Aptroot A., Castaneda-Ruiz RF., Druzhinina IS., Cai F., Ekanayaka AH., Erdogan M., Fiuza PO., Gentekaki E., Goto BT., **Haelewaters D. KZO**, Hongsanan S., Jeewon R., Kirk PM., Jayalal RGU., Karunarathna SC., Wanasinghe DN., Lumbsch HT., Madrid H., Maharachchikumbura SSN., Monteiro JS., Shivaprakash N., Pfliegler WP., Phillips AJL., Saxena RK., Stadler M., Tian Q., Tokarev YS., Tsurykau A., Ertz D., Lee HB., Etayo J., Vizzini A., Jones EBG., Lin CG., Li WJ., Dai YC., Fan XL., McKenzie EHC., Shivas RG., Hustad V., Leontyev DV., de Hoog GS., Niskanen T., Boekhout T., Gaya E., Thines M. 2020. A dynamic portal for a community-driven, continuously updated classification of Fungi and fungus-like organisms: outlineoffungi.org. *Mycosphere* 11: 1514-1526. <http://dx.doi.org/10.5943/mycosphere/11/1/11>

Wu W., **Meador T. KBE**, Koenneke M., Elvert M., Wegener G., Hinrichs K. 2020. Substrate-dependent incorporation of carbon and hydrogen for lipid biosynthesis by *Methanosarcina barkeri*. *Environmental Microbiology Reports* 12: 555-567. <http://dx.doi.org/10.1111/1758-2229.12876>

Xin M., Niksirat Hashjin H., Kolešová A., Siddique MAM., **Štěrba J. UCH**, Boryshpolets S., Linhart O., 2020. Molecular and subcellular cryoinjury of fish spermatozoa and approaches to improve cryopreservation. *Reviews in Aquaculture* 12: 909-924. <http://dx.doi.org/10.1111/raq.12355>

Yen EC., McCarthy SA., Galarza JA., Generalovic TN., Pelan S., **Nguyen P. KMB**, Meier JI., Warren IA., Mappes J., Durbin R., Jiggins ChD. 2020. A haplotype-resolved, de novo genome assembly for the wood tiger moth (*Arctia plantaginis*) through trio binning. *GigaScience* 9: nestránkováno. <http://dx.doi.org/10.1093/gigascience/giaa088>

Yoshido A., Sichova J., **Pospíšilová K. KMB**, **Nguyen P. KMB**, **Voleníková A. KMB**, Safar J., Provazník J., Vila R., Marec F. 2020. Evolution of multiple sex-chromosomes associated with dynamic genome reshuffling in *Leptidea woodwhite* butterflies. *Heredity* 125: 138-154. <http://dx.doi.org/10.1038/s41437-020-0325-9>

Zarei M., Madadi H., Zamani AA., **Nedvěd O. KZO** 2020. Intraguild Predation between *Chrysoperla carnea* (Neuroptera: Chrysopidae) and *Hippodamia variegata* (Coleoptera: Coccinellidae) at Various Extraguild Prey Densities and Arena Complexities. *Insects* 11: nestránkováno. <http://dx.doi.org/10.3390/insects11050288>

**Zemanová J. KBE**, **Šorf M. KBE**, **Hejzlar J. KBE**, **Šorfová V. KBE**, **Vrba J. KBE** 2020. Planktivorous fish positively select *Daphnia* bearing advanced embryos. *Marine and Freshwater Research* 71: 505-511. <http://dx.doi.org/10.1071/MF18466>

Zhang H., **Jarić I. KBE**, Roberts DL., He Y., Du H., Wu J., Wang Ch., Wei Q. 2020. Extinction of one of the world's largest freshwater fishes: Lessons for conserving the endangered Yangtze fauna. *Science of the Total Environment* 710: nestránkováno. <http://dx.doi.org/10.1016/j.scitotenv.2019.136242>

**Znachor P. KBE**, Nedoma J., Hejzlar J., Sed'a J., Komarkova J., **Kolář V. KBE**, Mrkvička T., **Boukal D. KBE** 2020. Changing environmental conditions underpin long-term patterns of phytoplankton in a freshwater reservoir. *Science of the Total Environment* 710: nestránkováno. <http://dx.doi.org/10.1016/j.scitotenv.2019.135626>

Zoltner M., Campagnaro GD., **Taleva GH. KMB**, Burrell A., Cerone M., Leung K., Achcar F., Horn D., Vaughan S., Gadelha C., **Zíková A. KMB**, Barrett MP., de Koning HP., Field MC. 2020. Suramin exposure alters cellular metabolism and mitochondrial energy production in African trypanosomes. *Journal of Biological Chemistry* 295: 8331-8347. <http://dx.doi.org/10.1074/jbc.RA120.012355>

Zozomova-Lihova J., Melicharkova A., **Svitok M. KBE**, Spaniel S. 2020. Pleistocene range disruption and postglacial expansion with secondary contacts explain the genetic and cytotype structure in the western Balkan endemic

Alyssum austrodalmaticum (Brassicaceae). Plant Systematics and Evolution 306: nestránkováno. <http://dx.doi.org/10.1007/s00606-020-01677-5>

Zubrikova D., Wittmann M., **Hönig V. KPA**, Svec P., Vichova B., Essbauer S., Dobler G., **Grubhoffer L. KPA**, Pfister K. 2020. Prevalence of tick-borne encephalitis virus and Borrelia burgdorferi sensu lato in Ixodes ricinus ticks in Lower Bavaria and Upper Palatinate, Germany. Ticks and Tick-borne Diseases 11: nestránkováno. <http://dx.doi.org/10.1016/j.ttbdis.2020.101375>

## **Ostatní příspěvky nevidované v databázi WOS (bez IF)**

Baloun I., Witzanyová A., **Dvořáčková O. UFY**, Velemínský M. 2020. The quality of life of families who have children with cerebral palsy. Journal of Nursing, Social Studies, Public Health and Rehabilitation 11: 35-41.

Boublík K., Čech L., Danihelka J., Dvořák J., Grulich V., Harčarik J., Harčariková L., Hrouda L., Husáková J., Chrtěk J., Chytrá M., Chytrý M., Jírová A., Kaplan Z., **Koutecký P. KBO**, Kučera J., Lipl L., Lustyk P., Paulič R., Rydlo J., Samková V., Štefánek M., **Štech M. KBO**, Štěpánek J., Tichý T., Trávníček B. 2020. Výsledky floristického kurzu České botanické společnosti v Nové Pace 30. června až 6. července 2013. Zprávy České botanické společnosti 55: 279-360.

Castagneyrol B., Valdés-Correcher E., Bourdin A., Barbaro L., **Mrázová A. KZO**, **Sam K. KZO**, **Tahadlová M. KZO** 2020. Can School Children Support Ecological Research? Lessons from the Oak Bodyguard Citizen Science Project. Citizen science 5: 1-11. <http://dx.doi.org/10.1101/712638>

Diewald W., **Štech M. KBO**, Straubinger C. 2020. Vaccinium microcarpum – erster zytometrisch gesicherter Nachweis für Deutschland. Hoppea 81: 202-204.

Dítě D., Eliáš P., Grulich V., Hodálová I., Hrouda L., Kaplan Z., Kliment J., Kochjarová J., **Koutecký P. KBO**, Lipl L., Májková J., Meredá P., Slezák M., **Štech M. KBO**, Trávníček B., Ujházy K., Valachovič M. 2020. Cievnaté rastliny zaznamenané v záujmovom území Floristického kurzu Ružomberok 2015. Bulletin Slovenskej botanickej spoločnosti 42: 25-102.

Eliáš ml. P., Eliáš st. P., Grulich V., Hrouda L., Chrtěk J., Klíč V., Kochjarová J., Košťál J., **Koutecký P. KBO**, Meredá P., **Prach K. KBO**, Valachovič M. 2020. Rastliny zaznamenané na území Floristického kurzu v Bardejove. Bulletin Slovenskej botanickej spoločnosti 42: 35-115.

Fluksova H., **Grill S. KBE**, Bače R., **Hais M. KBE** 2020. Dynamics of stand replacing-disturbance and biomass estimation in the Plešné Lake basin. Silva Gabreta : sborník vědeckých prací 26: 99–116.

**Holá E. KBO**, Janošik L., **Kučera J. KBO**, Kučerová A., Lukáč M., **Manukjanová A. KBO**, Marek M., Mikulášková E., Plaček J., Soldán Z., Szokala D., **Štech M. KBO**, **Štechová T. KBO**, Tkáčiková J., Tenčík A. 2020. Zajímavé bryofloristické nálezy XXXIV.. Bryonora 66: 62-73.

**Hromádková T. KZO**, **Pavel V. CPE**, Flousek J., Briedis M. 2020. Seasonally specific responses to wind patterns and ocean productivity facilitate the longest animal migration on Earth. Marine ecology progress series 638: 1-12. <http://dx.doi.org/10.3354/meps13274>

Hunova I., Hanuskova D., Jandova K., Tesar M., **Květoň J. KEBR**, Kukla J. 2020. ESTIMATES OF THE CONTRIBUTION OF FOG WATER TO WET ATMOSPHERIC DEPOSITION IN CZECH MOUNTAIN FORESTS BASED ON ITS STABLE HYDROGEN AND OXYGEN ISOTOPE COMPOSITION: PRELIMINARY RESULTS. European Journal of Environmental Sciences 10: 89-97. <http://dx.doi.org/10.14712/23361964.2020.10>

Christina S., Siegfried H., Faschingbauer A., Berl A., **Geyer J. UAI**, **Vohnout R. UAI**, **Prokýšek M. UAI** 2020. Sustainable Peer-to-Peer Energy Trading Principles and Smart Meter Requirements for Smart Grids. Bavarian Journal of Applied Sciences 2019: 461-469. <http://dx.doi.org/10.25929/bjas.v5i1.66>

Chvojka O., John J., Parkman M., **Šálková T. LAPE** 2020. Dva nové depoty doby bronzové ze střední Šumavy. Archeologické výzkumy v jižních Čechách 33: 25-44.

Chvojka O., Beneš J., John J., **Šálková T. LAPE**, Průchová E. 2020. Pohřební a sídlištní areály střední a mladší doby bronzové v okolí Březnice u Bechyně. Archeologické výzkumy v jižních Čechách 33: 59-151.

Ignatov M., **Kučera J. KBO**, Hedenas L., Kuznetsova O., Ignatova E. 2020. A revision of the genus Orthothecium (Plagiotheciaceae, Bryophyta) in northern Eurasia. Arctoa, a journal of bryology 29: 10-48.

**Irunbam JS. KZO**, Gurule S., Fric Z. 2020. Lappet moths (Lepidoptera: Lasiocampidae) of manipur, north east india: An updated checklist. Journal of Insect Biodiversity 19: 24-43. <http://dx.doi.org/10.12976/jib/2020.19.2.1>

**Irungbam JS. KZO**, Meitei LR., Huidrom H., Soibam BS., Ngangom A., Ngangom B., Meitei R., Fric ZF. 2020. AN INVENTORY OF THE BUTTERFLIES OF MANIPUR, INDIA (INSECTA: LEPIDOPTERA). Zootaxa 4882: 1-91. <http://dx.doi.org/10.11646/zootaxa.4882.1.1>

Kajgrová L., Roy K., **Vrba J. KBE**, Mráz J. 2020. Něco pro povzbuzení našich rybářů, kteří odvádějí dobrou práci!. Rybníkářství 31: 6-7.

Kapustka K., Eigner J., Parkman M., Řezáč M., Přichystal A., Pokorný P., Lisá L., **Ptáková M. LAPE**, Světlík I., Kočárová R., Metlička M., Košťová N. 2020. Pozdně paleolitické a mezolitické osídlení Šumavy: možnosti výzkumu, datování a interpretace. Památky archeologické 111: 5-59.

**Kaštovský J. KBO**, Hauer T. **KBO**, Bešta T. **LAPE** 2020. Výsledky algologického průzkumu v tekoucích vodách CHKO Kokořínsko-Máchův kraj. Bohemia centralis 36: 211-251.

Kerbis PJ., Hutterer R., Doty J., Malekani J., Moyer D., **Krásová J. KZO**, Bryja J., Banasiak R., Demos T. 2020. Four new species of the Hylomyscus anelli group (Mammalia: Rodentia: Muridae) from the Democratic Republic of Congo and Tanzania. Bonn Zoological Bulletin 69: 55-83. <http://dx.doi.org/10.20363/BZB-2020.69.1.055>

**Kolář V. KBE** 2020. Vodní brouci (Coleoptera: Dytiscidae, Haliplidae, Heteroceridae, Hydrophilidae, Noteridae) v chráněných územích rybník Louňov a Částovické rybníky ve středních Čechách. Lampetra 9: 23-33.

Koskela M., Skotnicova P., Kiss E., **Sobotka R. KMB** 2020. Purification of Protein-complexes from the Cyanobacterium Synechocystis sp. PCC 6803 Using FLAG-affinity Chromatography. Bio-protocol 10: nestránkováno. <http://dx.doi.org/10.21769/BioProtoc.3616>

**Kučera J. KBO**, Hedenas L. 2020. Revisiting the genus Campyliadelphus (Amblystegiaceae, Bryophyta). Nova Hedwigia Beihefte 150: 165-178.

**Kučera J. KBO**, Sollman P., Afonina O., Ignatova E., Fedosov V., Shevock J., Tubanova D., Ignatov M. 2020. Range extensions for Bryoerythrophyllum sollmanianum and Tortula yuennanensis (Pottiaceae, Musci) with reconsideration of their phylogenetic affinities including Pararhexophyllum, gen. nov.. Nova Hedwigia Beihefte 150: 273-292.

Kunzová P., Lepší M., **Koutecký P. KBO** 2020. Rozšíření snědků z okruhu snědku rozkladitého (Ornithogalum umbellatum agg.) v jižní části Čech. Sborník Jihočeského muzea v Českých Budějovicích, Přírodní vědy 60: 6-28.

Kuznetsova O., Brinda J., Fedorova A., Fedosov V., Ignatov M., Ignatova E., **Kučera J. KBO** 2020. Bryophyte molecular barcoding records.2. Arctoa, a journal of bryology 29: 72-74.

**Lóvy M. KZO**, Lavrenchenko LA., Kostin DS., Martynov AA., **Šumbera R. KZO**, Bryja J., **Okrouhlík J. KZO** 2020. The effect of elevation on haematocrit in Ethiopian rodents. Journal of Vertebrate Biology 69: nestránkováno. <http://dx.doi.org/10.25225/jvb.20011>

Malíček J., Palice Z., **Vondrák J. KBO** 2020. LIŠEJNÍKY PRALESA HOJNÁ VODA V NOVOHRADSKÝCH HORÁCH. Bryonora 66: 51-61.

Medina R., Wang H., Caisova V., Cui J., Indig IH., **Uher O. KME**, Ye J., Nwankwo A., Sanchez V., Wu T., Nduom E., Heiss J., Gilbert MR., Terabe M., Ho W., **Ženka J. KME**, Pacak K., Zhuang Z. 2020. Induction of Immune Response against Metastatic Tumors via Vaccination of Mannan-BAM, TLR Ligands, and Anti-CD40 Antibody (MBTA). Advanced Therapeutics 3: nestránkováno. <http://dx.doi.org/10.1002/adtp.202000044>

Michalak B., **Sezemský P. UFY**, **Straňák V. UFY**, Smietana M. 2020. Effect of thermal annealing on sensing properties of optical fiber sensors coated with indium tin oxide nano-overlays. Photonics Letters of Poland 12: 58-60. <http://dx.doi.org/10.4302/plp.v12i2.1024>

Mizerovska D., Mikula O., Meheretu Y., Bartakova V., Bryjova A., Kostin DS., **Šumbera R. KZO**, Lavrenchenko LA., Bryja J. 2020. Integrative taxonomic revision of the Ethiopian endemic rodent genus Stenocephalemys (Muridae: Murinae: Praomyini) with the description of two new species. Journal of Vertebrate Biology 69: nestránkováno. <http://dx.doi.org/10.25225/jvb.20031>

Nidup S., **Irungbam JS. KZO** 2020. First record of the hawkmoth theretra lycetus (Cramer, 1775) (Sphingidae: Macroglossinae) from Bhutan. Journal of Threatened Taxa 12: 15385-15386. <http://dx.doi.org/10.11609/jott.5578.12.3.15385-15386>

**Nováková N. KZO**, Havlíček J., Závora J. 2020. A contribution to the diet composition of the Peregrine Falcon (Falco peregrinus) wintering in an urban environment. Sborník Jihočeského muzea v Českých Budějovicích, Přírodní vědy 2020: 127-130.

Peterka T., Hájková P., Mikulášková E., Liene A., Dítě D., Pawlikovski P., **Štechová T. KBO**, Hájek M. 2020. Vegetation affinity of the moss species Meesia triquetra, Paludella squarrosa, Pseudocalliergon trifarium and Scorpidium scorpioides across European regions. Nova Hedwigia Beihefte 150: 133-158.

- Pták M., **Ptáková M. LAPE** 2020. Nová stopa raně středověkého osídlení z Litochovic, okr. Strakonice. Archeologické výzkumy v jižních Čechách 33: 189-199.
- Rookmaaker K., **Robovský J. KZO** 2020. Addenda and Corrigenda: Bibliography of Colin Peter Groves (1942–2017), an anthropologist and mammalian taxonomist. Lynx 51: 227-229.
- Rusanov AL., Stepanov AA., Zgoda VG., Kaysheva AL., **Selinger M. UCH, Mašková H. UCH, Loginov DS. UCH, Štěrba J. UCH, Grubhoffer L. KPA**, Luzgina NG. 2020. Proteome dataset of mouse macrophage cell line infected with tick-borne encephalitis virus. Data in Brief 28: nestránkováno. <http://dx.doi.org/10.1016/j.dib.2019.105029>
- Řídký J., Burgert P., **Kovačiková L. LAPE**, Půlpán M., Volf M. 2020. Objekty z období kultury s lineární keramikou ve Vchynicích, okr. Litoměřice. Archeologie ve středních Čechách 24: 65–97.
- Salaš M., Šálková T., **Marešová P. LAPE**, Kmošek M. 2020. Metalický depot z doby popelnicových polí z Babího lomu u Svinošic (okr. Blansko) a výpověď jeho kulturně-chronologického, sémantického a environmentálního kontextu. Archeologické rozhledy 72: 26–66.
- Salzmann K., Jeníková E., **Semančíková E. KBE** 2020. Krajina jako veřejný prostor – plánování krajiny. Živa : časopis pro biologickou práci 65-68.
- Semančíková E KBE**. 2020. Evropská úmluva o krajině a nástroje její implementace. Živa : časopis pro biologickou práci 68-71.
- Starec P., Kuželka V., Světlík I., **Kovačiková L. LAPE** 2020. Nález hrobu v Mikulandské ulici před novým objektem čp. 137/II. Archaeologica Pragensia 25: 237-262.
- Sucháčková A.KZO**, Faltýnek Fric Z., **Marešová J. KZO, Konvička M. KZO** 2020. Velcí býložravci a změny klimatu II. Vesmír : přírodovědecký časopis
- Šálková T. LAPE**, Hiltcher T., Dreslerová D., **Kovačiková L. LAPE**, Jiřík J. 2020. The Benefits of Using Radiocarbon Dating and an Interdisciplinary Approach for Identifying Contamination of Archaeological Find Assemblages. A Case Study from the Multi-period Settlement Site at Rakovice, Czech Republic. Interdisciplinaria Archaeologica 11: 21-31.
- Širka P., Bradáčová J., Godovičová K., **Manukjanová A. KBO**, Mikulášková E., Novotný I., Plaček J., Singh P., **Vicherová E. KBO**, Zmrhalová M., **Kučera J. KBO** 2020. Machorasty zaznamenané počas 31. jesenného stretnutia bryologicko-lichenologickej sekcie ČBS na Poľane. Bryonora 66: 34-50.
- Šitnerová I. LAPE, Beneš J. LAPE**, Trpáková I., **Bumerl J. LAPE, Komárková V. LAPE, Majerovičová T. LAPE**, Hrabánková L., Janečková K. 2020. Landscape Transformed: Archaeological, Historical and Environmental Dating of Valštejn Plužina Field System, Czech Republic. Interdisciplinaria Archaeologica 11: 89-101.
- Šitnerová I. LAPE, Beneš J. LAPE**, Kottová B., **Bumerl J. LAPE, Majerovičová T. LAPE**, Janečková K. 2020. Archeologický výzkum plužin a zemědělských teras jako fenoménu historické krajiny České republiky. Archaeologia historica 45: 141-165.
- Štech M. KBO, Koutecký P. KBO**, Tribsch A., Schratt- Ehrendorfer L., Paszko B., Pachswoll C. 2020. Calamagrostis purpurea (Poaceae) – A long neglected boreal element, new for the flora of Austria. Neireichia 11: 133-152. <http://dx.doi.org/10.5281/zenodo.4016760>
- Trojánková O. LAPE, Kovačiková L. LAPE**, Frolík J., Starec P., Čiháková J. 2020. Chov prasat ve středověku prizmatem stabilních izotopů uhlíku a dusíku. Archaeologia historica 45: 167-183.
- Valdman J. UMB**, Frolov M. 2020. ФУНКЦИОНАЛЬНЫЕ АПОСТЕРИОРНЫЕ ОЦЕНКИ ТОЧНОСТИ РЕШЕНИЙ ЗАДАЧ МЕХАНИКИ ДЕФОРМИРУЕМОГО ТВЕРДОГО ТЕЛА. St. Petersburg Polytechnic University Journal - Physics and Mathematics 13: 203-215. <http://dx.doi.org/10.18721/JPM.13416>
- Vrba P., Vodičková V., Sucháčková Bartoňová A., Marešová J., **Konvička M.** 2020. Podyjí – nejvýznamnější útočiště hnědásků v České republice a návrat divokých koní. Živa : časopis pro biologickou práci 2020: 94-98.
- Waldhauser M., **Kolář V. KBE** 2020. Dvě nové lokality potápníka Graphoderus bilineatus (Coleoptera: Dytiscidae) na Českolipsku (severní Čechy, Česká republika). Sborník Severočeského Muzea, Přírodní Vědy 38: 55–61.
- Zach P., Holecová M., Brabec M., Hollá K., Šebestová M., Martinková Z., Skuhrovec J., Honěk A., **Nedvěd O. KZO**, Holec J., Brown P., Saniga M., Jauschová T., Kulfan J. 2020. Scots pine forest in Central Europe as a habitat for Harmonia axyridis: Temporal and spatial patterns in the population of an alien ladybird. Folia Oecologica 47: 81-88. <http://dx.doi.org/10.2478/foecol-2020-0010>
- Znachor P.**, Čtvrtlíková M., **Vrba J.** 2020. Lahvenka velká, nečekaný obyvatel Prášílského jezera. Vesmír : přírodovědecký časopis 99: 176–179.

## **Knihy**

Akatova TV., Afonina OM., Doroshina GY., Ignatov MS., Ignatova EA., **Kučera J. KBO**, Maksimov AI., Fedosov VE., Czernyadjeva IV. 2020. Флора мхов России. Том 5. Hypopterygiales – Hypnales (Plagiotheciaceae – Brachytheciaceae).. Ignatov, Moscow : KMK Scientific Press Ltd., 599 s.

Bezděk A., **Bernardová A. LAPE**, Burgert P., **Ditrich O. KPA**, Drvotová M., Hlaváč J., Horáček I., Hošek J., Hošková K., Juříčková L., Kapustka K., **Kovačiková L. LAPE**, Krásný F., Kuželka V., Mangel T., Novák J., Prostředník J., **Ptáková M. LAPE**, Sázelová S., Vondrovský V. 2020. Mezolit severních Čech III. Vývoj pravěké krajiny Českého ráje: Vegetace, fauna, lidé. Šída., Pokorný, Brno : Archeologický ústav AV ČR, Brno, v. v. i., 600 s.

Devetter M., **Kreidlová V. KBE**, Vondrák D., Přikryl I. 2020. Aktuální seznam vířníků (Kmen: Rotifera) České republiky. Plzeň : Západočeské muzeum v Plzni, 64 s.

**Lepš J. KBO**, **Šmilauer P. KBE** 2020. Biostatistics with R - An Introductory Guide for Field Biologists. Velká Británie : Cambridge University Press, 382 s.

**Marešová P. LAPE**, Bureš V., Štemberková R., Matulová P., Krejcar O., Toman J., Škodová Parmová D. 2020. Od výzkumu po využívání v praxi: Vše kolem transferu znalostí a technologií. Hradec Králové : Univerzita Hradec Králové, 209 s.

Poláček L., Baxa P., Bejdová Š., Bigoni L., Březinová H., Brukner Havelková P., Brůžek J., Brzobohatá H., Drtikolová Kaupová S., Galuška L., Harvát M., Hladík M., Hlavica M., Hošek J., Ibrová A., Kalhous D., Košta J., Kouřil P., **Kovačiková L. LAPE**, Krupičková Š., Langr J., Látková M., Macháček J., Mazuch M., Ottenwelter E., Procházka R., Rohanová D., Sedláčková H., Sládek V., Stránská P., Ungerman Š., Valášková L., Velemínská J., Velemínský P., Zazvonilová E. 2020. Great Moravian elites from Mikulčice. Brno : Czech Academy of Sciences, Institute of Archaeology, Brno, 465 s.

**Prach K. KBO**, Walker LR. 2020. Comparative Plant Succession among Terrestrial Biomes of the World. Velká Británie : Cambridge University Press, 399 s.

Schweingruber F., Kučerová A., Adamec L., **Doležal J. KBO** 2020. Anatomical atlas of aquatic and wetland plant stems. Cham : Springer, 487 s.

Schweingruber FH., Dvorsky M., Börner A., **Doležal J. KBO** 2020. Atlas of Stem Anatomy of Arctic and Alpine Plants Around the Globe. Cham : Springer International Publishing, 453 s.

## **Kapitoly v knihách**

**Kaňa R. KEBR**, **Prášil O. KEBR**, Santabarbara S., Casazza AP., Belgio E. 2020. Light Harvesting by Long-Wavelength Chlorophyll Forms (Red Forms) in Algae: Focus on their Presence, Distribution and Function. Larkum,, Grossman,, Raven, *Photosynthesis in Algae: Biochemical and Physiological Mechanisms*. Cham : Springer Nature, s. 261-297.

**Lamarre GPA. KZO**, Fayle T., Segar S., **Laird-Hopkins BC. KZO**, Nakamura A., Souto-Vilarós D., Watanabe S., **Basset YF. KZO** 2020. Monitoring tropical insects in the 21st century. *Advances in Ecological Research*. Londýn : Academic Press Inc., s. 295-330.

**Robovský J. KZO**, Melichar L., Gippoliti S. 2020. Zoos and conservation in the Anthropocene: opportunities and problems. Angelici,, Rossi, *Problematic Wildlife II – new conservation and management challenge in the human-wildlife interactions*. Cham : Springer, s. 451-484.

Řídký J., Netolický P., **Kovačiková L. LAPE**, Půlpán M., Květina P. 2020. What happened at the settlement? The testimony of sherds, animal remains, grinding tools and daub. Hofman, *Magical, mundane or marginal? Deposition practices in the Early Neolithic Linearbandkeramik culture*. Leiden : Sidestone Press, s. 205-225.

## **Aplikované výstupy**

### **Prototyp**

Fesl, **J.UAI** Prototyp systému na konsolidaci virtuálních počítačů. 2020.

## **Software**

Fesi, J.UAI Software pro konsolidaci virtuálních počítačů. 2020.