

Publikace zaměstnanců a studentů PřF JU v roce 2013

Pracovníci a studenti PřF zaměstnaní či studující na PřF v roce 2013 jsou uvedeni tučně.

1. ČLÁNKY VE VĚDECKÝCH ČASOPISECH S IF (CELKEM 290 PRACÍ)

AGUILA R., MATOS MARAVI P., WAHLBERG N., 2013. New *Calisto* species from Cuba, with insights on the relationships of Cuban and Bahamian taxa (Lepidoptera, Nymphalidae, Satyrinae). *Zootaxa* 3669: 503-521.

AHANTARIG A., TRINACHARTVANIT W., BAIMAI V., GRUBHOFFER L., 2013. Hard ticks and their bacterial endosymbionts (or would be pathogens). *Folia Microbiologica* 58: 419-428.

ALMIRÓN A., CASCIOTTA J., BRUNO M. C., PIÁLEK L., DOUBNEROVÁ K., ŘÍČAN O., 2013. First record and supplementary description of *Leporinus amae* Godoy, 1980 (Characiformes: Anostomidae) from freshwaters in Argentina. *Check List: Journal of species lists and distribution* 9: 820-822.

ALTMAN J., HÉDL R., SZABÓ P., MAZŮREK P., RIEDL V., MUELLEROVÁ J., KOPECKÝ M., DOLEŽAL J., 2013. Tree-Rings Mirror Management Legacy: Dramatic Response of Standard Oaks to Past Coppicing in Central Europe. *PLoS One* 8(2): e55770.

ALTMAN J., DOLEŽAL J., ČERNÝ T., SONG J., 2013. Forest response to increasing typhoon activity on the Korean peninsula: evidence from oak tree-rings. *Global Change Biology* 19: 498-504.

AMMERMAN M., TOMASELLO D., FAKTOROVÁ D., KAFKOVÁ L., HASHIMI M., LUKEŠ J., READ L., 2013. A Core MRB1 Complex Component Is Indispensable for RNA Editing in Insect and Human Infective Stages of *Trypanosoma brucei*. *PLoS One* 8(10): e78015.

ARIAS M., ATTEKE C., AUGUSTO S., BAILEY J., BAZAGA P., BEHEREGARAY L., BENOIT L., BLATRIX R., BORN C., BRITO R., CHEN H., COVARRUBIAS S., DE VEGA C., DJIÉTO-LORDON C., DUBOIS M., FRANCISCO F., GARCÍA C., GONCALVES P., GONZÁLEZ C., GUTIÉRREZ-RODRÍGUEZ C., HAMMER M., HERRERA C., ITOH H., KAMIMURA S., KARAOGLU H., KOJIMA S., LI S., LING H., MATOS MARAVI P., MCKEY D., MEZUI-M'EKO J., FRANCISCO ORNELAS J., PARK R., POZO M., RAMULA S., RIGUEIRO C., SANDOVAL-CASTILLO J., SANTIAGO L., SEINO M., SONG C., TAKESHIMA H., VASEMAGI A., WELLINGS C., YAN J., DU Y., ZHANG C., ZHANG T., 2013. Permanent genetic resources added to Molecular Ecology Resources Database 1 February 2013-31 March 2013. *Molecular Ecology Resources* 13: 760-762.

ASCHENBACH K., CONRAD R., ŘEHÁKOVÁ K., DOLEŽAL J., JANATKOVÁ K., ANGEL R., 2013. Methanogens at the top of the world: Occurrence and potential activity of

methanogens in newly deglaciated soils in high-altitude cold deserts in the Western Himalayas. *Frontiers in Microbiology* 4: article 359.

AWAD M., KALUSHKOV P., NEDVĚDOVÁ T., NEDVĚD O., 2013. Fecundity and fertility of ladybird beetle *Harmonia axyridis* after prolonged cold storage. *Biocontrol* 58: 657-666.

BAJGAR A., JINDRA M., DOLEŽEL D., 2013. Autonomous regulation of the insect gut by circadian genes acting downstream of juvenile hormone signaling. *Proceedings of The National Academy of Sciences of The United States of America* 110: 4416-4421.

BAJGAR A., DOLEŽEL D., HODKOVÁ M., 2013. Endocrine regulation of non-circadian behavior of circadian genes in insect gut. *Journal of Insect Physiology* 59: 881-886.

BASSET Y., EASTWOOD R., SAM L., LOHMAN D., NOVOTNÝ V., TREUER T., MILLER S., WEIBLEN G., PIERCE N., BUNYAVEJCHEWIN S., SAKCHOOWONG W., KONGNOO P., OSORIO-ARENAS M., 2013. Cross-continental comparisons of butterfly assemblages in tropical rainforests: implications for biological monitoring. *Insect Conservation and Diversity* 6: 223-233.

BASU S., LEONARD J., DESAI N., MAVRIDOU D., TANG K., GODDARD A., GINGER M., LUKEŠ J., ALLEN J., 2013. Divergence of Erv1-Associated Mitochondrial Import and Export Pathways in Trypanosomes and Anaerobic Protists. *Eukaryotic Cell* 12: 343-355.

BEDNÁŘOVÁ R., HROUZKOVÁ-KNOTKOVÁ E., BURDA H., SEDLÁČEK F., ŠUMBERA R., 2013. Vocalizations of the giant mole-rat (*Fukomys mechowii*), a subterranean rodent with the richest vocal repertoire. *Bioacoustics - The International Journal of Animal Sound and its Recording* 22: 87-107.

BEDNÁŘOVÁ A., KODRÍK D., KRISHNAN N., 2013. Adipokinetic hormone exerts its anti-oxidative effects using a conserved signal-transduction mechanism involving both PKC and cAMP by mobilizing extra- and intracellular Ca²⁺ stores. *Comparative Biochemistry and Physiology C-Toxicology & Pharmacology* 158: 142-149.

BEDNÁŘOVÁ A., KODRÍK D., KRISHNAN N., 2013. Nature's Timepiece-Molecular Coordination of Metabolism and Its Impact on Aging. *International Journal of Molecular Sciences* 14: 3026-3049.

BEDNÁŘOVÁ A., KODRÍK D., KRISHNAN N., 2013. Unique roles of glucagon and glucagon-like peptides: Parallels in understanding the functions of adipokinetic hormones in stress responses in insects. *Comparative Biochemistry and Physiology A-Molecular & Integrative Physiology* 164: 91-100.

BEDNÁŘOVÁ A., KRISHNAN N., CHENG I., VEČEŘA J., LEE H., KODRÍK D., 2013. Adipokinetic hormone counteracts oxidative stress elicited in insects by hydrogen peroxide: in vivo and in vitro study. *Physiological Entomology* 38: 54-62.

BENOT M., MONY C., LEPŠ J., PENET L., BONIS A., 2013. Are clonal traits and their response to defoliation good predictors of grazing resistance? *Botany-Botanique* 91: 62-68.

BEREC L., DOLEŽAL P., HAIS M., 2013. Population dynamics of *Ips typographus* in the

Bohemian Forest (Czech Republic): Validation of the phenology model PHENIPS and impacts of climate change. *Forest Ecology and Management* 292: 1-9.

BEREC L., MAXIN D., 2013. Fatal or Harmless: Extreme Bistability Induced by Sterilizing, Sexually Transmitted Pathogens. *Bulletin of Mathematical Biology* 75: 258-273.

BEREC L., MRKVIČKA T., 2013. Neglecting uncertainty behind Allee effect estimation may generate false predictions of population extinction risk. *Oikos* 122: 845-856.

BHATTARAI B., KINDLMANN P., 2013. Effect of human disturbance on the prey of tiger in the Chitwan National Park - Implications for park management. *Journal of Environmental Management* 131: 343-350.

BIALEK W., WEN S., MICHOUX F., BEČKOVÁ M., KOMENDA J., MURRAY J., NIXON P., 2013. Crystal structure of the Psb28 accessory factor of *Thermosynechococcus elongatus* photosystem II at 2.3 angstrom. *Photosynthesis Research* 117: 375-383.

BOCK C., LUO W., KUSBER W., HEGEWALD E., PAŽOUTOVÁ M., KRIENITZ L., 2013. Classification of Crucigenoid Algae: Phylogenetic Position of the Reinstated Genus *Lemmermannia*, *Tetrastrum* spp. *Crucigenia tetrapedia*, and *C. lauterbornii* (Trebouxiophyceae, Chlorophyta). *Journal of Phycology* 49: 329-339.

BOLDAREVA-NUIANZINA E., BLÁHOVÁ Z., SOBOTKA R., KOBLÍŽEK M., 2013. Distribution and Origin of Oxygen-Dependent and Oxygen-Independent Forms of Mg-Protoporphyrin Monomethylester Cyclase among Phototrophic Proteobacteria. *Applied and Environmental Microbiology* 79: 2596-2604.

BOUZID W., ŠTEFKA J., BAHRI-SFAR L., BEERLI P., LOOT G., LEK S., HADDAOUI N., HYPŠA V., SCHOLZ T., DKHIL-ABBES T., MEDDOUR R., BEN HASSINE O., 2013. Pathways of cryptic invasion in a fish parasite traced using coalescent analysis and epidemiological survey. *Biological Invasions* 15: 1907-1923.

BRUCE A., 2013. Generating different genetic expression patterns in the early embryo: insights from the mouse model. *Reproductive BioMedicine Online* 27: 586-592.

BŘÍZA J., VLASÁK J., RYBA Š., LUDVÍKOVÁ V., NIEDERMEIEROVÁ H., 2013. Transformation of tobacco cpDNA with fusion E7GGG/GUS gene and homologous recombination mediated elimination of the marker gene. *Biotechnology & Biotechnological Equipment* 27: 3644-3648.

BŘÍZA J., PAVINGEROVÁ D., VLASÁK J., NIEDERMEIEROVÁ H., 2013. Norway spruce (*Picea abies*) genetic transformation with modified Cry3A gene of *Bacillus thuringiensis*. *Acta Biochimica Polonica* 60: 395-400.

BUŘIČOVÁ M., HODKOVÁ M., 2013. Relationships between locomotor activity, oxidative damage and life span in males and females of the linden bug, *Pyrrhocoris apterus* (Heteroptera: Pyrrhocoridae). *European Journal of Entomology* 110: 443-449.

CABEZAS CRUZ A., VANCOVÁ M., ZWEYGARTH E., BARBOSA RIBEIRO M.,

GRUBHOFFER L., FRICHE PASSOS L., 2013. Ultrastructure of *Ehrlichia mineirensis*, a new member of the *Ehrlichia* genus. *Veterinary Microbiology* 167: 455-458.

CABEZAS CRUZ A., PASSOS L., LIS K., KENNEIL R., VALDÉS J., FERROLHO J., **TONK M.,** POHL A., **GRUBHOFFER L.,** ZWEYGARTH E., SHKAP V., RIBEIRO M., ESTRADA-PENÁ A., KOCAN K., DE LA FUENTE J., 2013. Functional and Immunological Relevance of *Anaplasma marginale* Major Surface Protein 1a Sequence and Structural Analysis. *PLoS One* 8(6): e65243.

ČAJÁNEK L., GANJI R., HENRIQUES-OLIVEIRA C., THEOFILOPOULOS S., **KONÍK P.,** BRYJA V., ARENAS E., 2013. Tiam1 Regulates the Wnt/Dvl/Rac1 Signaling Pathway and the Differentiation of Midbrain Dopaminergic Neurons. *Molecular and Cellular Biology* 33: 59-70.

CASCIOTTA J., ALMIRÓN A., AICHINO D., GÓMEZ S., **PIÁLEK L.,** **ŘÍČAN O.,** 2013. *Crenicichla taikyra* (Teleostei: Cichlidae), a new species of pike cichlid from the middle rio Parana, Argentina. *Zootaxa* 3721: 379-386.

ČERNÝ T., **DOLEŽAL J.,** JANEČEK S., ŠRŮTEK M., VALACHOVIČ M., PETŘÍK P., **ALTMAN J.,** **BARTOŠ M.,** SONG J., 2013. Environmental correlates of plant diversity in Korean temperate forests. *Acta Oecologica* 47: 37-45.

COSIC N., **ŘÍČANOVÁ Š.,** BRYJA J., PENEZIC A., CIROVIC D., 2013. Do rivers and human-induced habitat fragmentation affect genetic diversity and population structure of the European ground squirrel at the edge of its Pannonian range? *Conservation Genetics* 14: 345-354.

CRESSMAN R., **KŘIVAN V.,** 2013. Two-patch population models with adaptive dispersal: the effects of varying dispersal speeds. *Journal of Mathematical Biology* 67: 329-358.

CRISTODERO M., MANI J., OELJEKLAUS S., AEBERHARD L., **HASHIMI M.,** RAMRATH DJF., **LUKEŠ J.,** WARSCHEID B., SCHNEIDER A., 2013. Mitochondrial translation factors of *Trypanosoma brucei*: elongation factor-Tu has a unique subdomain that is essential for its function. *Molecular Microbiology* 90: 744-755.

ČERVINKA J., ŠÁLEK M., **PADYŠÁKOVÁ E.,** ŠMILAUER P., 2013. The effects of local and landscape-scale habitat characteristics and prey availability on corridor use by carnivores: A comparison of two contrasting farmlands. *Journal for Nature Conservation* 21: 105-113.

ČÍŽEK O., **VRBA P.,** BENEŠ J., HRÁZSKÝ Z., KOPTIK J., **KUČERA T.,** MARHOUL P., ZÁMEČNÍK J., **KONVIČKA M.,** 2013. Conservation Potential of Abandoned Military Areas Matches That of Established Reserves: Plants and Butterflies in the Czech Republic. *PLoS One* 8(1):e53124.

ČÍŽKOVÁ H., **KVĚT J.,** COMIN F., LAIHO R., POKORNÝ J., PITHART D., 2013. Actual state of European wetlands and their possible future in the context of global climate change. *Aquatic Sciences* 75: 3-26.

ČUPEROVÁ Z., HOLZER E., SALKÁ I., SOMMARUGA R., **KOBLÍŽEK M.,** 2013. Temporal Changes and Altitudinal Distribution of Aerobic Anoxygenic Phototrophs in Mountain Lakes. *Applied and Environmental Microbiology* 79: 6439-6446.

DAHL C., RICHARDS S., NOVOTNÝ V., 2013. The Sepik River (Papua New Guinea) is not a dispersal barrier for lowland rain-forest frogs. *Journal of Tropical Ecology* 29: 477-483.

DALLARÉS S., GEORGIEVA S., KOSTADINOVA A., CARRASSÓN M., GIBSON D., PÉREZ-DEL-OLMO A., 2013. Morphometric and molecular characterisation of specimens of *Lepidapedon* Stafford, 1904 (Digenea: Lepidapedidae) from the deep-sea fish *Mora moro* (Risso) (Teleostei: Moridae) in the western Mediterranean. *Systematic Parasitology* 85: 243-253.

DAMMER J., WEYDA F., BENEŠ J., SOPKO V., GELBIC I., 2013. Micro-radiography of biological samples with medical contrast agents. *Nuclear Instruments & Methods in Physics Research Section A-Accelerators Spectrometers Detectors and Associated Equipment* 730: 149-151.

DAMMER J., WEYDA F., BENEŠ J., SOPKO V., JANDEJSEK I., PFLEGEROVA J., 2013. High resolution radiography of ambers with pixel detectors. *Journal of Instrumentation* 8: nestránkováno.

DANĚČEK J., VISZUS E., 2013. REGULARITY ON THE INTERIOR FOR THE GRADIENT OF WEAK SOLUTIONS TO NONLINEAR SECOND-ORDER ELLIPTIC SYSTEMS. *Electronic Journal of Differential Equations* 121: 1-17.

DE BELLO F., KLIMEŠOVÁ J., HERBEN T., PRACH K., ŠMILAUER P., 2013. Serious Research with Great Fun: the Strange Case of Jan Šuspa Lepš (and Other Plant Ecologists). *Folia Geobotanica* 48: 297-306.

DE BELLO F., CARMONA C., MASON N., SEBASTIA M., LEPŠ J., 2013. Which trait dissimilarity for functional diversity: trait means or trait overlap? *Journal of Vegetation Science* 24: 807-819.

DE BELLO F., MUDRÁK O., 2013. Plant traits as indicators: loss or gain of information? *Applied Vegetation Science* 16: 353-354.

DE BELLO F., VANDEWALLE M., REITALU T., LEPŠ J., PRENTICE H., LAVOREL S., SYKES M., 2013. Evidence for scale- and disturbance-dependent trait assembly patterns in dry semi-natural grasslands. *Journal of Ecology* 101: 1237-1244.

DEM F., STEWART A., GIBSON A., WEIBLEN G., NOVOTNÝ V., 2013. Low host specificity in species-rich assemblages of xylem- and phloem-feeding herbivores (Auchenorrhyncha) in a New Guinea lowland rain forest. *Journal of Tropical Ecology* 29: 467-476.

DJIANE A., KREJČÍ (BRUCE) A., BERNARD F., FEXOVA S., MILLEN K., BRAY S., 2013. Dissecting the mechanisms of Notch induced hyperplasia. *EMBO Journal* 32: 60-71.

DOLEŽAL J., YAKUBOV V., HARA T. 2013. Plant diversity changes and succession along resource availability and disturbance gradients in Kamchatka. *Plant Ecology* 214: 477-488.

DRAG L., ZIMA J., ČÍŽEK L., 2013. Characterization of nine polymorphic microsatellite loci

for a threatened saproxylic beetle *Rosalia alpina* (Coleoptera: Cerambycidae). Conservation Genetics Resources 5: 903-905.

DRAG L., KOŠNAR J., ČÍŽEK L., 2013. Development and characterization of ten polymorphic microsatellite loci for the Great Capricorn beetle (*Cerambyx cerdo*) (Coleoptera: Cerambycidae). Conservation Genetics Resources 5: 907-909.

DUDA P., ZRZAVÝ J., 2013. Evolution of life history and behavior in Hominidae: Towards phylogenetic reconstruction of the chimpanzee-human last common ancestor. Journal of Human Evolution 65: 424-446.

DVORSKÝ M., DOLEŽAL J., KOPECKÝ M., CHLUMSKÁ Z., JANATKOVÁ K., ALTMAN J., DE BELLO F., ŘEHÁKOVÁ K., 2013. Testing the Stress-Gradient Hypothesis at the Roof of the World: Effects of the Cushion Plant *Thylacospermum caespitosum* on Species Assemblages. PLoS One 8(1): e53514.

ELIÁŠ M., NEUSTUPA J., PAŽOUTOVÁ M., ŠKALOUD P., 2013. A case of taxonomic inflation in coccoid algae: *Ellipsoidion parvum* and *Neocystis vischeri* are conspecific with *Neocystis* (= *Nephrodiella*) *brevis* (Chlorophyta, Trebouxiophyceae). Phytotaxa 76: 15-27.

ETTRICH R., KHABIRI M., MINOFAR B., BŘEZOVSKÝ J., DAMBORSKÝ J., 2013. Interaction of organic solvents with protein structures at protein-solvent interface. Journal of Molecular Modeling 19: 4701-4711.

FARSKÁ J., PREJZKOVÁ K., RUSEK J., 2013. Spruce monoculture establishment affects functional traits of soil microarthropod communities. Biologia 68: 479-486.

FAYLE T., TURNER E., FOSTER W., 2013. Ant mosaics occur in SE Asian oil palm plantation but not rain forest and are influenced by the presence of nest-sites and non-native species. Ecography 36: 1051-1057.

FERIMAZOVA N., FELCMANOVÁ K., ŠETLÍKOVÁ E., KUEPPER H., MALDENER I., HAUSKA G., ŠEDIVÁ B., PRÁŠIL O., 2013. Regulation of photosynthesis during heterocyst differentiation in *Anabaena* sp. strain PCC 7120 investigated in vivo at single-cell level by chlorophyll fluorescence kinetic microscopy. Photosynthesis Research 116: 79-91.

FERREIRA V., BRANCO L., KAŠTOVSKÝ J., 2013. True branched nostocalean cyanobacteria from tropical aerophytic habitats and molecular assessment of two species from field samples. Revista de Biología Tropical 61: 455-466.

FESL J., KLEE R., DOLEŽALOVÁ M., 2013. Distributed Conditional Multicast Access for IP TV in High-Speed Wireless Networks (Destination Specific Multicast). International Journal of Computer Science and Network 6: 137-141.

FIBICH P., VÍTOVÁ A., MACEK P., LEPŠ J., 2013. Establishment and spatial associations of recruits in meadow gaps. Journal of Vegetation Science 24: 496-505.

FLEGONTOV P., VOTÝPKA J., SKALICKÝ T., LOGACHEVA M., PENIN A., TANIFUJI G., ONODERA N., KONDRASHOV A., VOLF P., ARCHIBALD J., LUKEŠ J., 2013. Paratrypanosoma is a novel early-branching trypanosomatid. Current Biology 23: 1787-1793.

FORMAN M., NGUYEN P., HULA V., KRÁL J., 2013. Sex chromosome pairing and extensive NOR polymorphism in *Wadicosa fidelis* (Araneae: Lycosidae). *Cytogenetic and Genome Research* 141: 43-49.

FUCIMAN M., DURCHAN M., ŠLOUF V., KESAN G., POLÍVKA T., 2013. Excited-state dynamics of astaxanthin aggregates. *Chemical Physics Letters* 568: 21-25.

FÚSSY Z., PATZAK J., STEHLÍK J., MATOUŠEK J., 2013. Imbalance in expression of hop (*Humulus lupulus*) chalcone synthase H1 and its regulators during hop stunt viroid pathogenesis. *Journal of Plant Physiology* 170: 688-695.

GENUÁRIO D., CORREA D., KOMÁREK J., FIORE M., 2013. Characterization of freshwater benthic biofilm-forming *Hydrocoryne* (Cyanobacteria) isolates from Antarctica. *Journal of Phycology* 49: 1142-1153.

GEORGIEVA S., SOLDÁNOVÁ M., PÉREZ-DEL-OLMO A., DANGEL D., SITKO J., SURES B., KOSTADINOVA A., 2013. Molecular prospecting for European *Diplostomum* (Digenea: Diplostomidae) reveals cryptic diversity. *International Journal for Parasitology* 43: 57-72.

GREGOROVIČ J., ZALABOVÁ L., 2013. SYMMETRIC PARABOLIC CONTACT GEOMETRIES AND SYMMETRIC SPACES. *Transformation Groups* 18: 711-737.

HADID Y., TZUR S., PAVLÍČEK T., ŠUMBERA R., ŠKLÍBA J., LÓVY M., FRAGMAN-SAPIR O., BEILES A., ARIELI R., RAZ S., NEVO E., 2013. Possible incipient sympatric ecological speciation in blind mole rats (*Spalax*). *Proceedings of The National Academy of Sciences of The United States of America* 110: 2587-2592.

HAJDUŠEK O., SÍMA R., AYLLÓN N., JALOVECKÁ M., PERNER J., DE LA FUENTE J., KOPÁČEK P., 2013. Interaction of the tick immune system with transmitted pathogens. *Frontiers in Cellular and Infection Microbiology* 3: nestránkováno.

HAMILTON A., NOVOTNÝ V., WATERS E., BASSET Y., BENKE K., GRIMBACHER P., MILLER S., SAMUELSON G., WEIBLEN G., YEN J., STORK N., 2013. Estimating global arthropod species richness: refining probabilistic models using probability bounds analysis. *Oecologia* 171: 357-365.

HARABIS F., TICHÁNEK F., TROPEK R., 2013. Dragonflies of freshwater pools in lignite spoil heaps: Restoration management, habitat structure and conservation value. *Ecological Engineering* 55: 51-61.

HASHIMI M., MCDONALD L., STRÍBRNÁ E., LUKEŠ J., 2013. Trypanosome Letm1 Protein Is Essential for Mitochondrial Potassium Homeostasis. *Journal of Biological Chemistry* 288: 26914-26925.

HASHIMI M., ZIMMER S., AMMERMAN M., READ L., LUKEŠ J., 2013. Dual core processing: MRB1 is an emerging kinetoplast RNA editing complex. *Trends in Parasitology* 29: 91-99.

HAUER T., BOHUNICKÁ M., MÜHLSTEINOVÁ R., 2013. Calochaete gen. nov. (Cyanobacteria, Nostocales), a new cyanobacterial type from the "paramo" zone in Costa Rica. *Phytotaxa* 109: 36-44.

HEINO M., BAULIER L., **BOUKAL D.,** ERNANDE B., JOHNSTON F., MOLLET F., PARDOE H., THERKILDSEN N., UUSI-HEIKKILA S., VAINIKKA A., ARLINGHAUS R., DANKEL D., DUNLOP E., EIKESSET A., ENBERG K., ENGELHARD G., JORGENSEN C., LAUGEN A., MATSUMURA S., NUSSLÉ S., URBACH D., WHITLOCK R., RIJNSDORP A., DIECKMANN U., 2013. Can fisheries-induced evolution shift reference points for fisheries management? *ICES Journal of Marine Science* 70: 707-721.

HEJCMAN M., HEJCMANOVÁ P., PAVLŮ V., **BENEŠ J.,** 2013. Origin and history of grasslands in Central Europe - a review. *Grass and Forage Science* 68: 345-363.

HEJDA M., **DE BELLO F.** 2013. Impact of plant invasions on functional diversity in the vegetation of Central Europe. *Journal of Vegetation Science* 24: 890-897.

HINDÁK F., **KVÍDEROVÁ J.,** LUKAVSKÝ J., 2013. Growth characteristics of selected thermophilic strains of cyanobacteria using crossed gradients of temperature and light. *Biologia* 68: 830-837.

HOLCOVÁ V., ŠÍMA J., DUŠEK J., 2013. A comparison of fluorescein and deuterated water as tracers for determination of constructed wetland retention time. *Central European Journal of Chemistry* 11: 200-204.

HOLZER A., BARTOŠOVÁ P., PECKOVÁ H., **TYML T.,** ATKINSON S., BARTHOLOMEW J., SIPOS D., ESZTERBAUER E., DYKOVÁ I., 2013. 'Who's who' in renal sphaerosporids (Bivalvulida: Myxozoa) from common carp, Prussian carp and goldfish - molecular identification of cryptic species, blood stages and new members of *Sphaerospora sensu stricto*. *Parasitology* 140: 46-60.

HOUSDEN B., FU A., **KREJČÍ (BRUCE) A.,** BERNARD F., FISCHER B., TAVARÉ S., RUSSELL S., BRAY S., 2013. Transcriptional Dynamics Elicited by a Short Pulse of Notch Activation Involves Feed-Forward Regulation by *E(spl)/Hes* Genes. *PLoS Genetics* 9(1): e1003162.

HRČEK J., MILLER S., WHITFIELD J., SHIMA H., **NOVOTNÝ V.,** 2013. Parasitism rate, parasitoid community composition and host specificity on exposed and semi-concealed caterpillars from a tropical rainforest. *Oecologia* 173: 521-532.

HROUZEK P., LUKEŠOVÁ A., **MAREŠ J.,** VENTURA S., 2013. Description of the cyanobacterial genus *Desmonostoc* gen. nov. including *D. muscorum* comb. nov. as a distinct, phylogenetically coherent taxon related to the genus *Nostoc*. *Fottea* 13: 201-213.

HROUZKOVÁ E., DVOŘÁKOVÁ V., JEDLIČKA P., **ŠUMBERA R.,** 2013. Seismic communication in demon African mole rat *Tachyoryctes daemon* from Tanzania. *Journal of Ethology* 31: 255-259.

HUI C., RICHARDSON D., PYŠEK P., LE ROUX J., **KUČERA T.,** JAROŠÍK V., 2013.

Increasing functional modularity with residence time in the co-distribution of native and introduced vascular plants. *Nature Communications* 4: nestránkováno.

HUSNÍK F., NIKOH N., KOGA R., ROSS L., DUNCAN R., FUJIE M., TANAKA M., SATOH N., BACHTROG D., WILSON A., VON DOHLEN C., FUKATSU T., MCCUTCHEON J., 2013. Horizontal Gene Transfer from Diverse Bacteria to an Insect Genome Enables a Tripartite Nested Mealybug Symbiosis. *Cell* 153: 1567-1578.

HYLIŠ M., **OBORNÍK M.**, **NEBESÁŘOVÁ J.**, **VÁVRA J.**, 2013. Description and phylogeny of *Zelenkaia trichopterae* gen. et sp. nov. (Microsporidia), an aquatic microsporidian parasite of caddisflies (Trichoptera) forming spore doublets. *Journal of Invertebrate Pathology* 114: 11-21.

CHANGMAI P., HORÁKOVÁ E., LONG S., ČERNOTÍKOVÁ-STŘÍBRNÁ E., MCDONALD L., BONTEMPI E., **LUKEŠ J.**, 2013. Both human ferredoxins equally efficiently rescue ferredoxin deficiency in *Trypanosoma brucei*. *Molecular Microbiology* 89: 135-151.

CHIBWANA F., BLASCO-COSTA I., **GEORGIEVA S.**, HOSEA K., NKVVENGULILA G., SCHOLZ T., KOSTADINOVA A., 2013. A first insight into the barcodes for African diplostomids (Digenea: Diplostomidae): Brain parasites in *Clarias gariepinus* (Siluriformes: Clariidae). *Infection, Genetics and Evolution* 17: 62-70.

CHLUMSKÝ J., **KOUTECKÝ P.**, **JÍLKOVÁ V.**, **ŠTECH M.**, 2013. Roles of species-preferential seed dispersal by ants and endozoochory in *Melampyrum* (Orobanchaceae). *Journal of Plant Ecology* 6: 232-239.

CHRISTENSEN R., ENRIQUEZ M., WAGNER N., PEACOCK-VILLADA A., SCRIBAN C., SCHROCK R., **POLÍVKA T.**, FRANK H., BIRGE R., 2013. Energetics and Dynamics of the Low-Lying Electronic States of Constrained Polyenes: Implications for Infinite Polyenes. *Journal of Physical Chemistry A* 117: 1449-1465.

CHROŇÁKOVÁ A., ASCHER J., JIROUT J., CECCHERINI M., ELHOTTOVÁ D., PIETRAMELLARA G., **ŠIMEK M.**, 2013. Cattle impact on composition of archaeal, bacterial, and fungal communities by comparative fingerprinting of total and extracellular DNA. *Biology and Fertility of Soils* 49: 351-361.

CHVAL Z., **KABELÁČ M.**, BURDA J., 2013. Mechanism of the cis-[Pt(1R,2R-DACH)(H₂O)(2)](2+) Intrastrand Binding to the Double-Stranded (pGpG)center dot(CpC) Dinucleotide in Aqueous Solution: A Computational DFT Study. *Inorganic Chemistry* 52: 5801-5813.

IVANCHENKO M., DEN OS D., MONSHAUSEN G., DUBROVSKY J., **BEDNÁŘOVÁ A.**, KRISHNAN N., 2013. Auxin increases the hydrogen peroxide (H₂O₂) concentration in tomato (*Solanum lycopersicum*) root tips while inhibiting root growth. *Annals of Botany* 112: 1107-1116.

JAN J., **BOROVEC J.**, **KOPÁČEK J.**, **HEJZLAR J.**, 2013. What do results of common sequential fractionation and single-step extractions tell us about P binding with Fe and Al compounds in non-calcareous sediments? *Water Research* 47: 547-557.

JANATKOVÁ K., ŘEHÁKOVÁ K., DOLEŽAL J., ŠIMEK M., CHLUMSKÁ Z., DVORSKÝ M., KOPECKÝ M., 2013. Community structure of soil phototrophs along environmental gradients in arid Himalaya. *Environmental Microbiology* 15: 2505-2516.

JANEČEK S., DE BELLO F., HORNÍK J., BARTOŠ M., ČERNÝ T., DOLEŽAL J., DVORSKÝ M., FAJMON K., JANEČKOVÁ P., JIRÁSKÁ S., MUDRÁK O., KLIMEŠOVÁ J., 2013. Effects of land-use changes on plant functional and taxonomic diversity along a productivity gradient in wet meadows. *Journal of Vegetation Science* 24: 898-909.

JANOUSHKOVEC J., SOBOTKA R., LAI D., FLEGONTOV P., KONÍK P., KOMENDA J., ALI S., PRÁŠIL O., PAIN A., OBORNÍK M., LUKEŠ J., KEELING P., 2013. Split Photosystem Protein, Linear-Mapping Topology, and Growth of Structural Complexity in the Plastid Genome of *Chromera velia*. *Molecular biology and Evolution* 30: 2447-2462.

JANOUSHKOVEC J., HORÁK A., BAROTT K., ROHWER F., KEELING P., 2013. Environmental distribution of coral-associated relatives of apicomplexan parasites. *ISME Journal* 7: 444-447.

JELÍNEK P., MURAWSKI K., 2013. Numerical simulations of magnetoacoustic-gravity waves in the solar coronal curved magnetic field lines structure. *Monthly Notices of the Royal Astronomical Society* 434: 2347-2354.

JERSÁKOVÁ J., TRÁVNÍČEK P., KUBÁTOVÁ B., KREJČÍKOVÁ J., URFUS T., LIU Z., LAMB A., PONERT J., SCHULTE K., ČURN V., VRÁNA J., LEITCH I., SUDA J., 2013. Genome size variation in Orchidaceae subfamily Apostasioideae: filling the phylogenetic gap. *Botanical Journal of the Linnean Society* 172: 95-105.

JIRKŮ M., KVIČEROVÁ J., MODRÝ D., HYPŠA V., 2013. Evolutionary Plasticity in Coccidia - Striking Morphological Similarity of Unrelated Coccidia (Apicomplexa) from Related Hosts: *Eimeria* spp. from African and Asian Pangolins (Mammalia: Pholidota). *Protist* 164: 470-481.

JIROUT J., ŠIMEK M., ELHOTTOVÁ D., 2013. Fungal contribution to nitrous oxide emissions from cattle impacted soils. *Chemosphere* 90: 565-572.

JUNK W., AN S., FINLAYSON C., GOPAL B., KVĚT J., MITCHELL S., MITSCH W., ROBERTS R., 2013. Current state of knowledge regarding the world's wetlands and their future under global climate change: a synthesis. *Aquatic Sciences* 75: 151-167.

JŮZA T., RAKOWITZ G., DRAŠTÍK V., BLABOLIL P., HERZIG A., KRATOCHVÍL M., MUŠKA M., ŘÍHA M., SAJDLOVÁ Z., KUBEČKA J., 2013. Avoidance reactions of fish in the trawl mouth opening in a shallow and turbid lake at night. *Fisheries Research* 147: 154-160.

KALUSHKOV P., CHEHLAROV E., NEDVĚD O., 2013. Suitability of Gramineous Plants as Food for the Phytophagous Ladybird *Cynegetis impunctata* L. (Coleoptera: Coccinellidae). *Acta zoologica bulgarica* 65: 561-564.

KAŇA J., TAHOVSKÁ K., KOPÁČEK J., 2013. Response of soil chemistry to forest dieback after bark beetle infestation. *Biogeochemistry* 113: 369-383.

KAŇA R., 2013. Mobility of photosynthetic proteins. *Photosynthesis Research* 116: 465-479.

KAPUŠCIK A., HROUZEK P., KUZMA M., BÁRTOVÁ S., NOVÁK P., JOKELA J., PFLUEGER M., EGER A., HUNDSBERGER H., KOPECKÝ J., 2013. Novel Aeruginosin-865 from *Nostoc* sp as a Potent Anti-inflammatory Agent. *ChemBioChem* 14: 2329-2337.

KARLICKÝ M., MÉSZÁROSOVÁ H., JELÍNEK P., 2013. Radio fiber bursts and fast magnetoacoustic wave trains. *Astronomy & Astrophysics* 550: nestránkováno.

KASALICKÝ V., JEZBERA J., HAHN M., ŠIMEK K., 2013. The Diversity of the *Limnohabitans* Genus, an Important Group of Freshwater Bacterioplankton, by Characterization of 35 Isolated Strains. *PLoS One* 8(3): e58209.

KAYA M., PARLAK C., KESAN G., ALVER O., TURSUN M., 2013. Vibrational spectroscopic investigation of 1-pyrrolidino-1-cyclohexene: A comparative density functional study. *Spectrochimica Acta Part A-Molecular and Biomolecular Spectroscopy* 113: 1-9.

KESAN G., KAYA M., BILGE M., ALVER O., PARLAK C., 2013. DFT, FT-IR and Raman investigations of 1-pyrrolidino-1-cyclopentene. *Spectrochimica Acta Part A-Molecular and Biomolecular Spectroscopy* 101: 22-30.

KILIAN P., VALDES J., LECINA-CASAS D., CHRUDIMSKÝ T., RŮŽEK D., 2013. The variability of the large genomic segment of Ťahyňa orthobunyavirus and an all-atom exploration of its anti-viral drug resistance. *Infection, Genetics and Evolution* 20: 304-311.

KIRAKCI K., KUBÁT P., LANGMAIER J., POLÍVKA T., FUCIMAN M., FEJFAROVÁ K., LANG K., 2013. A comparative study of the redox and excited state properties of (nBu(4N)(2)[Mo6X14] and (nBu(4N)(2)[Mo6X8(CF3COO)(6)] (X = Cl, Br, or I). *Dalton Transactions* 42: 7224-7232.

KISHKO I., CAREY J., ŘEHA D., BRYNDA J., WINKLER R., HARISH B., GUERRA R., ETTRICHOVÁ O., KUKAČKA Z., SHERYEMYETYEVA O., NOVÁK P., KUTÝ M., KUTÁ SMATANOVÁ I., ETTRICH R., LAPKOUSKI M., 2013. 1.2 angstrom resolution crystal structure of *Escherichia coli* WrbA holoprotein. *Acta Crystallographica Section D-Biological Crystallography* 69: 1748-1757.

KLEČKA J., BOUKAL D., 2013. Foraging and vulnerability traits modify predator-prey body mass allometry: freshwater macroinvertebrates as a case study. *Journal of Animal Ecology* 82: 1031-1041.

KLEMENTOVÁ Š., ZLÁMAL M., 2013. Photochemical degradation of triazine herbicides - comparison of homogeneous and heterogeneous photocatalysis. *Photochemical & Photobiological Sciences* 12: 660-663.

KLIMEŠOVÁ J., DOLEŽAL J., ŠT'ASTNÁ P., 2013. Growth of the alpine herb *Rumex alpinus* over two decades: effect of climate fluctuations and local conditions. *Plant Ecology* 214: 1071-1084.

KLIMEŠOVÁ J., MUDRÁK O., DOLEŽAL J., HÁJEK M., DANČÁK M., KLIMEŠ L., 2013. Functional Traits in a Species-Rich Grassland and a Short-Term Change in Management:

Is There a Competition-Colonization Trade-Off? *Folia Geobotanica* 48: 373-391.

KNAPP M., NEDVĚD O., 2013. Gender and Timing during Ontogeny Matter: Effects of a Temporary High Temperature on Survival, Body Size and Colouration in *Harmonia axyridis*. *PLoS One* 8(9): e74984.

KODRÍK D., KLUDKIEWICZ B., NAVRÁTIL O., HABUŠTOVÁ O., HORÁČKOVÁ V., SVOBODOVÁ Z., VINOKUROV K., SEHNAL F., 2013. Protease Inhibitor from Insect Silk-Activities of Derivatives Expressed In Vitro and in Transgenic Potato. *Applied Biochemistry and Biotechnology* 171: 209-224.

KOHOUT P., TĚŠITELOVÁ T., ROY M., VOHNÍK M., JERSÁKOVÁ J., 2013. A diverse fungal community associated with *Pseudorchis albida* (Orchidaceae) roots. *Fungal Ecology* 6: 50-64.

KOMÁREK J., SANT ANNA C., BOHUNICKÁ M., MAREŠ J., HENTSCHKE G., RIGONATO J., FIORE M., 2013. Phenotype diversity and phylogeny of selected Scytonema-species (Cyanoprokaryota) from SE Brazil. *Fottea* 13: 173-200.

KOMÁREK J., ZAPOMĚLOVÁ E., ŠMARDA J., KOPECKÝ J., REJMÁNKOVÁ E., WOODHOUSE J., NEILAN B., KOMÁRKOVÁ J., 2013. Polyphasic evaluation of *Limnoraphis robusta*, a water-bloom forming cyanobacterium from Lake Atitlan, Guatemala, with a description of *Limnoraphis* gen. nov. *Fottea* 13: 39-52.

KOMÁREK J., KOVACIK L., 2013. Schizotrichacean cyanobacteria from central Spitsbergen (Svalbard). *Polar Biology* 36: 1811-1822.

KOMÁRKOVÁ J., ZAPOMĚLOVÁ E., KOMÁREK J., 2013. *Chakia* (cyanobacteria), a new heterocytous genus from Belizean marshes identified on the basis of the 16S rRNA gene. *Fottea* 13: 227-233.

KOPÁČEK J., COSBY B., EVANS C., HRUŠKA J., MOLDAN F., OULEHLE F., ŠANTRŮČKOVÁ H., TAHOVSKÁ K., WRIGHT R. F., 2013. Nitrogen, organic carbon and sulphur cycling in terrestrial ecosystems: linking nitrogen saturation to carbon limitation of soil microbial processes. *Biogeochemistry* 115: 33-51.

KOPALOVÁ K., NEDBALOVÁ L., NÝVLT D., ELSTER J., VAN DE VIJVER B., 2013. Diversity, ecology and biogeography of the freshwater diatom communities from Ulu Peninsula (James Ross Island, NE Antarctic Peninsula). *Polar Biology* 36: 933-948.

KOPEČNÁ J., SOBOTKA R., KOMENDA J., 2013. Inhibition of chlorophyll biosynthesis at the protochlorophyllide reduction step results in the parallel depletion of Photosystem I and Photosystem II in the cyanobacterium *Synechocystis* PCC 6803. *Planta* 237: 497-508.

KOŘENÝ L., OBORNÍK M., LUKEŠ J., 2013. Make It, Take It, or Leave It: Heme Metabolism of Parasites. *PLoS Pathogens* 9(1): e1003088.

KOŠTÁL V., ROZSYPAL J., PECH P., ZAHRADNÍČKOVÁ H., ŠIMEK P., 2013. Physiological and biochemical responses to cold and drought in the rock-dwelling pulmonate

snail, *Chondrina avenacea*. Journal of Comparative Physiology B-Biochemical Systemic and Environmental Physiology 183: 749-761.

KOŠŤÁL V., URBAN T., ŘIMNÁČOVÁ L., BERKOVÁ P., ŠIMEK P., 2013. Seasonal changes in minor membrane phospholipid classes, sterols and tocopherols in overwintering insect, *Pyrrhocoris apterus*. Journal of Insect Physiology 59: 934-941.

KOUBA A., SALES J., SERGEJEVOVÁ M., KOZÁK P., **MASOJÍDEK J.,** 2013. Colour intensity in angelfish (*Pterophyllum scalare*) as influenced by dietary microalgae addition. Journal of Applied Ichthyology 29: 193-199.

KOUDELÁKOVÁ T., CHALOUPKOVÁ R., BŘEZOVSKÝ J., PROKOP Z., ŠEBESTOVÁ E., HESSELER M., KHABIRI M., PLEVAKA M., KULIK N., **KUTÁ SMATANOVÁ I., ŘEZÁČOVÁ P., ETTRICH R., BORNSCHEUER U., DAMBORSKÝ J.,** 2013. Engineering Enzyme Stability and Resistance to an Organic Cosolvent by Modification of Residues in the Access Tunnel. Angewandte Chemie-International Edition 52: 1959-1963.

KOUTECKÁ E., **LEPŠ J.,** 2013. The growth and survival of three closely related *Myosotis* species in a 3-year transplant experiment. Botany-Botanique 91: 209-217.

KRÁL J., KOŘÍNKOVÁ T., KRKAVCOVÁ L., MUSILOVÁ J., FORMAN M., HERRERA I., HADDAD C., **VÍTKOVÁ M., HENRIQUES S., PALACIOS VARGAS J., HEDIN M.,** 2013. Evolution of karyotype, sex chromosomes, and meiosis in mygalomorph spiders (Araneae: Mygalomorphae). Biological Journal of the Linnean Society 109: 377-408.

KRÁLOVÁ-HROMADOVÁ I., **ŠTEFKA J., BAZSALOVICSOVÁ E., BOKOROVÁ S., OROS M.,** 2013. The tapeworm *Atractolytocestus tenuicollis* (Cestoda: Caryophyllidea)-a sister species or ancestor of an invasive *A. huronensis*? Parasitology Research 112: 3379-3388.

KROLOVÁ M., ČÍŽKOVÁ H., HEJZLAR J., POLÁKOVÁ S., 2013. Response of littoral macrophytes to water level fluctuations in a storage reservoir. Knowledge and Management of Aquatic Ecosystems 408: nestránkováno.

KRUPNIK T., **KOTABOVÁ E., VAN BEZOUWEN LS., MAZUR R., GARSTKA M., NIXON PJ., BARBER J., KAŇA R., BOEKEMA EJ., KARGUL J.,** 2013. A reaction center-dependent photoprotection mechanism in a highly robust photosystem II from an extremophilic red alga, *Cyanidioschyzon merolae*. Journal of Biological Chemistry 288: 23529-23542.

KŘIVAN V., 2013. Behavioral refuges and predator-prey coexistence. Journal of Theoretical Biology 339: 112-121.

KUBÁSEK J., URBAN O., ŠANTRŮČEK J., 2013. C-4 plants use fluctuating light less efficiently than do C-3 plants: a study of growth, photosynthesis and carbon isotope discrimination. Physiologia Plantarum 149: 528-539.

KUČERA J., KOŠNAR J., WERNER O., 2013. Partial generic revision of *Barbula* (Musci: Pottiaceae): Re-establishment of *Hydrogonium* and *Streblotrichum*, and the new genus *Gymnobarbula*. Taxon 62: 21-39.

KVÁČ M., **ONDRÁČKOVÁ Z., KVĚTOŇOVÁ D., MCEVOY J., VÍTOVEC J., ROST M.,**

SAK B., 2013. The Lesser Egyptian Gerbil (*Gerbillus gerbillus*) is a suitable host for the long-term propagation of *Cryptosporidium andersoni*. *Experimental Parasitology* 134: 438-442.

KVIČEROVÁ J., HYPŠA V., 2013. Host-Parasite Incongruences in Rodent *Eimeria* Suggest Significant Role of Adaptation Rather than Cophylogeny in Maintenance of Host Specificity. *PLoS One* 8(7): e63601.

KVÍDEROVÁ J., ELSTER J., 2013. Standardized algal growth potential and/or algal primary production rates of maritime Antarctic stream waters (King George Island, South Shetlands). *Polar Research* 32: nestránkováno.

LEPŠÍ M., LEPSÍ P., SÁDLO J., KOUTECKÝ P., VÍT P., PETŘÍK P., 2013. *Sorbus pauca* species nova, the first endemic species of the *Sorbus hybrida* group for the Czech Republic. *Preslia* 85: 63-80.

LEPŠÍ M., LEPSÍ P., VÍT P., 2013. *Sorbus querna*: taxonomic confusion caused by the naturalization of an alien species, *Sorbus mougeotii*. *Preslia* 85: 159-178.

LINHART P., JAŠKA P., PETRUSKOVÁ T., PETRUSEK A., FUCHS R., 2013. Being angry, singing fast? Signalling of aggressive motivation by syllable rate in a songbird with slow song. *Behavioural processes* 100: 139-145.

LÍŠAL M., PŘEDOTA M., BRENNAN J., 2013. Molecular-level simulations of chemical reaction equilibrium and diffusion in slit and cylindrical nanopores: model dimerisation reactions. *Molecular Simulation* 39: 1103-1120.

LÓPEZ C., SOVOVÁ Ž., VAN EERDEN F., DE VRIES A., MARRINK S., 2013. Martini Force Field Parameters for Glycolipids. *Journal of Chemical Theory and Computation* 9: 1694-1708.

LÓVY M., RIEGERT J., 2013. Home Range and Land Use of Urban Long-Eared Owls. *CONDOR* 115: 551-557.

LÓVY M., ŠKLÍBA J., ŠUMBERA R., 2013. Spatial and Temporal Activity Patterns of the Free-Living Giant Mole-Rat (*Fukomys mechowii*), the Largest Social Bathyergid. *PLoS One* 8(1): e55357.

MACKOVÁ J., VAŠKOVÁ M., MACEK P., HRONKOVÁ M., SCHREIBER L., ŠANTRŮČEK J., 2013. Plant response to drought stress simulated by ABA application: Changes in chemical composition of cuticular waxes. *Environmental and Experimental Botany* 86: 70-75.

MACH J., POLIAK P., MATUSKOVÁ A., ŽÁRSKÝ V., JANATA J., LUKEŠ J., TACHEZY J., 2013. An Advanced System of the Mitochondrial Processing Peptidase and Core Protein Family in *Trypanosoma brucei* and Multiple Origins of the Core I Subunit in Eukaryotes. *Genome Biology and Evolution* 5: 860-875.

MACHÁČEK J., VANÍČKOVÁ I., SEDA J., CORDELLIER M., SCHWENK K., 2013. Sexual reproduction of *Daphnia* in a deep temperate reservoir: the phenology and genetics of male formation. *Hydrobiologia* 715: 113-123.

MAREŠ J., KOMÁREK J., COMPÉRE P., OREN A., 2013. Proposal to conserve the name *Gloeobacter violaceus* against *Aphanothece caldariorum*, *Gloeothece coerulea*, and *Gloeothece linearis* (Cyanophyceae). *Taxon* 62: 1055.

MAREŠ J., HROUZEK P., KAŇA R., VENTURA S., STRUNECKÝ O., KOMÁREK J., 2013. The Primitive Thylakoid-Less Cyanobacterium *Gloeobacter* Is a Common Rock-Dwelling Organism. *PLoS One* 8(6): e66323.

MAREŠ J., HAUER T., KOMÁREK J., COMPÉRE P., 2013. Proposal to conserve the name *Gloeothece* (Cyanophyceae) with a conserved type. *Taxon* 62: 1056-1056.

MAREŠ J., KOMÁREK J., COMPERE P., OREN A., 2013. Validation of the generic name *Gloeobacter* Rippka et al. 1974, Cyanophyceae. *Cryptogamie, Algologie* 34: 255-262.

MASLOV D., VOTÝPKA J., YURCHENKO V., **LUKEŠ J.,** 2013. Diversity and phylogeny of insect trypanosomatids: all that is hidden shall be revealed. *Trends in Parasitology* 29: 43-52.

MILLER S., **HRČEK J., NOVOTNÝ V., WEIBLEN G., HEBERT P.,** 2013. DNA barcodes of caterpillars (Lepidoptera) from Papua New Guinea. *Proceedings of the Entomological Society of Washington* 115: 107-109.

MORETTI M., **DE BELLO F., IBANEZ S., FONTANA S., PEZZATTI G., DZIOCK F., RIXEN C., LAVOREL S.,** 2013. Linking traits between plants and invertebrate herbivores to track functional effects of land-use changes. *Journal of Vegetation Science* 24: 949-962.

MOSTAFA M., VLASÁK J., SEHNAL F., 2013. Activities of modified Cry3A-type toxins on the red flour beetle, *Tribolium castaneum* (Herbst). *Journal of Applied Entomology* 137: 684-692.

MUDRÁK O., **DOLEŽAL J., HÁJEK M., DANČÁK M., KLIMEŠ L., KLIMEŠOVÁ J.,** 2013. Plant seedlings in a species-rich meadow: effect of management, vegetation type and functional traits. *Applied Vegetation Science* 16: 286-295.

MUELLER C., **MATOS MARAVI P., BEHEREGARAY L.,** 2013. Delving into *Delias* Hubner (Lepidoptera: Pieridae): fine-scale biogeography, phylogenetics and systematics of the world's largest butterfly genus. *Journal of Biogeography* 40: 881-893.

MÜHLSTEINOVÁ R., HAUER T., 2013. Pilot survey of cyanobacterial diversity from the neighborhood of San Gerardo de Rivas, Costa Rica with a brief summary of current knowledge of terrestrial cyanobacteria in Central America. *Brazilian Journal of Botany* 36: 299-307.

MUŠKA M., TUŠER M., FROUZOVÁ J., DRAŠTÍK V., ČECH M., JŮZA T., KRATOCHVÍL M., MRKVIČKA T., PETERKA J., PRCHALOVÁ M., ŘÍHA M., VAŠEK M., KUBEČKA J., 2013. To migrate, or not to migrate: partial diel horizontal migration of fish in a temperate freshwater reservoir. *Hydrobiologia* 707: 17-28.

NAVRÁTIL J., PÍCHA K., MARTINÁT S., KNOTEK J., **KUČERA T., BALOUNOVÁ Z., WHITE BARAVALLE GILLIAM V., ŠVEC R., RAJCHARD J.,** 2013. A Model for the identification of areas favourable for the development of tourism: a case study of the Šumava

mts. and South Bohemia tourist regions (Czech republic). Moravian geographical reports 21: 25-40.

NEBESÁŘOVÁ J., LANGHANS J., ŠLOUF M., PAVLOVA E., VANCOVÁ M., 2013. Is it possible to measure diameters of metal nanoparticles using BSE imaging in FESEM? *Micron* 44: 159-166.

NEDVĚD O., FOIS X., UNGEROVÁ D., KALUSHKOV P., 2013. Alien vs. Predator - the native lacewing *Chrysoperla carnea* is the superior intraguild predator in trials against the invasive ladybird *Harmonia axyridis*. *Bulletin of Insectology* 66: 73-78.

NEJMAN L., DUNCAN W., LISÁ L., DOLÁKOVÁ N., HORÁČEK I., NOVÁK J., WOOD R., PACHER M., SÁZELOVÁ S., HOLUB M., PŘICHYSTAL A., NÝVLTOVÁ FIŠÁKOVÁ M., BAJER A., 2013. Hominids and palaeoenvironments in the Moravian Karst during Marine Isotope Stage 3: new excavations in Pod Hradem Cave, Czech Republic. *Antiquity* 087: nestránkováno.

NGUYEN P., SÝKOROVÁ M., ŠÍCHOVÁ J., KŮTA V., DALÍKOVÁ M., FRYDRYCHOVÁ R., NEVEN L., SAHARA K., MAREC F., 2013. Neo-sex chromosomes and adaptive potential in tortricid pests. *Proceedings of The National Academy of Sciences of The United States of America* 110: 6931-6936.

NOVÁKOVÁ E., HYPŠA V., KLEIN J., FOOTTIT R., VON DOHLEN C., MORAN N., 2013. Reconstructing the phylogeny of aphids (Hemiptera: Aphididae) using DNA of the obligate symbiont *Buchnera aphidicola*. *Molecular Phylogenetics and Evolution* 68: 42-54.

OBORNÍK M., LUKEŠ J., 2013. Cell Biology of Chromerids: Autotrophic Relatives to Apicomplexan Parasites. *International Review of Cell and Molecular Biology*, VOL 306 306: 333-369.

OZEN A., ŠORF M., TROCHINE C., LIBORIUSSEN L., BEKLIUGLU M., SONDERGAARD M., LAURIDSEN T., JOHANSSON L., JEPPESEN E., 2013. Long-term effects of warming and nutrients on microbes and other plankton in mesocosms. *Freshwater Biology* 58: 483-493.

PADYŠÁKOVÁ E., BARTOŠ M., TROPEK R., JANEČEK S., 2013. Generalization versus Specialization in Pollination Systems: Visitors, Thieves, and Pollinators of *Hypoestes aristata* (Acanthaceae). *PLoS One* 8(4): e5929.

PALUS M., VOJTÍŠKOVÁ J., SALÁT J., KOPECKÝ J., GRUBHOFFER L., LIPOLDOVÁ M., DEMANT P., RŮŽEK D., 2013. Mice with different susceptibility to tick-borne encephalitis virus infection show selective neutralizing antibody response and inflammatory reaction in the central nervous system. *Journal of Neuroinflammation* 10: nestránkováno.

PARIS Z., HORÁKOVÁ E., RUBIO M., SAMPLE P., FLEMING I., ARMOCIDA S., LUKEŠ J., ALFONZO J., 2013. The *T. brucei* TRM5 methyltransferase plays an essential role in mitochondrial protein synthesis and function. *RNA-A Publication of the RNA Society* 19: 649-658.

PATZENHAUEROVÁ H., ŠKLÍBA J., BRYJA J., ŠUMBERA R., 2013. Parentage analysis of Ansell's mole-rat family groups indicates a high reproductive skew despite relatively relaxed ecological constraints on dispersal. *Molecular Ecology* 22: 4988-5000.

PÉREZ GÓMEZ R., SLOVÁKOVÁ J., RIVES-QUINTO N., KREJČÍ (BRUCE) A., CARMENA A., 2013. A Serrate-Notch-Canoe complex mediates essential interactions between glia and neuroepithelial cells during *Drosophila* optic lobe development. *Journal of Cell Science* 126: 4873-4884.

PIETRASIAK N., REGUS J., JOHANSEN J., LAM D., SACHS J., SANTIAGO L., 2013. Biological soil crust community types differ in key ecological functions. *Soil Biology & Biochemistry* 65: 168-171.

POHL A., CABEZAS CRUZ A., BARBOSA RIBEIRO M., GONCALVES DA SILVEIRA J., SILAGHI C., PFISTER K., FRICHE PASSOS L., 2013. Detection of genetic diversity of *Anaplasma marginale* isolates in Minas Gerais, Brazil. *Revista Brasileira de Parasitologia Veterinaria* 22: 129-135.

POLÍVKA T., CHÁBERA P., KERFELD C., 2013. Carotenoid-protein interaction alters the S-1 energy of hydroxyechinenone in the Orange Carotenoid Protein. *Biochimica et Biophysica Acta - Bioenergetics* 1827: 248-254.

POMAJBÍKOVÁ K., OBORNÍK M., HORÁK A., PETRŽELKOVÁ K., GRIM J., LEVECKE B., TODD A., MULAMA M., KIYANG J., MODRÝ D., 2013. Novel Insights into the Genetic Diversity of *Balantidium* and *Balantidium*-like Cyst-forming Ciliates. *PLoS Neglected Tropical Diseases* 7(3): e2140.

PONERT J., FIGURA T., VOSOLSOBĚ S., LIPAVSKÁ H., VOHNÍK M., JERSÁKOVÁ J., 2013. Asymbiotic germination of mature seeds and protocorm development of *Pseudorchis albida* (Orchidaceae) are inhibited by nitrates even at extremely low concentrations. *Botany-Botanique* 91: 662-670.

POUSKA V., SVOBODA M., LEPŠ J., 2013. CO-OCCURRENCE PATTERNS OF WOOD-DECAYING FUNGI ON *PICEA ABIES* LOGS: DOES *FOMITOPSIS PINICOLA* INFLUENCE THE OTHER SPECIES? *Polish Journal of Ecology* 61: 119-133.

PRACH K., JONGEPIEROVÁ I., ŘEHOUNKOVÁ K., 2013. Large-Scale Restoration of Dry Grasslands on Ex-Arable Land Using a Regional Seed Mixture: Establishment of Target Species. *Restoration Ecology* 21: 33-39.

PRACH K., LENCOVÁ K., ŘEHOUNKOVÁ K., DVOŘÁKOVÁ H., JÍROVÁ A., KONVALINKOVÁ P., MUDRÁK O., NOVÁK J., TRNKOVÁ R., 2013. Spontaneous vegetation succession at different central European mining sites: a comparison across seres. *Environmental Science and Pollution Research* 20: 7680-7685.

PRESTON S., MAJTÁN J., KOUREMENOU C., RYSNIK O., BURGER L., CABEZAS CRUZ A., GUZMAN M., NUNN M., PAESEN G., NUTTALL P., AUSTYN J., 2013. Novel Immunomodulators from Hard Ticks Selectively Reprogramme Human Dendritic Cell Responses. *PLoS Pathogens* 9(6):e1003450.

PRŮŠOVÁ M., LEPŠ J., ŠTECH M., TĚŠITEL J., 2013. Growth, survival and generative reproduction in a population of a widespread annual hemiparasite *Melampyrum pratense*. *Biologia* 68: 65-73.

PŘEDOTA M., MACHESKY M., WESOŁOWSKI D., CUMMINGS P., 2013. Electric Double Layer at the Rutile (110) Surface. 4. Effect of Temperature and pH on the Adsorption and Dynamics of Ions. *Journal of Physical Chemistry C* 117: 22852-22866.

QABLAN M., OBORNÍK M., PETRŽELKOVÁ K., SLOBODA M., SHUDIEFAT M., HOŘÍN P., LUKEŠ J., MODRÝ D., 2013. Infections by *Babesia caballi* and *Theileria equi* in Jordanian equids: epidemiology and genetic diversity. *Parasitology* 140: 1096-1103.

QUICKE D., SMITH M., HRČEK J., BUTCHER B. 2013. *Cystomastacoides* van Achterberg (Braconidae, Rogadinae): first host record and descriptions of three new species from Thailand and Papua New Guinea. *Journal of Hymenoptera Research* 31: 65-78.

RAJPUROHIT S., NEDVĚD O., GIBBS A., 2013. Meta-analysis of geographical clines in desiccation tolerance of Indian drosophilids. *Comparative Biochemistry and Physiology A-Molecular & Integrative Physiology* 164: 391-398.

RAJPUROHIT S., NEDVĚD O., 2013. Clinal variation in fitness related traits in tropical drosophilids of the Indian subcontinent. *Journal of Thermal Biology* 38: 345-354.

RENGSTL B., KNOPPOVÁ J., KOMENDA J., NICKELSEN J., 2013. Characterization of a *Synechocystis* double mutant lacking the photosystem II assembly factors YCF48 and Sll0933. *Planta* 237: 471-480.

RIDLON L., ŠKODOVÁ I., PAN S., LUKEŠ J., MASLOV D., 2013. The Importance of the 45 S Ribosomal Small Subunit-related Complex for Mitochondrial Translation in *Trypanosoma brucei*. *Journal of Biological Chemistry* 288: 32963-32978.

ROZBESKÝ D., SOVOVÁ Ž., MARCOUX J., MAN P., ETRICH R., ROBINSON CV., NOVÁK P., 2013. Structural model of lymphocyte receptor NKR-P1C revealed by mass spectrometry and molecular modelling. *Analytical chemistry* 85: 1597-1604.

ROZSYPAL J., KOŠTÁL V., ZAHRADNÍČKOVÁ H., ŠIMEK P., 2013. Overwintering Strategy and Mechanisms of Cold Tolerance in the Codling Moth (*Cydia pomonella*). *PLoS One* 8(4): e61745.

RUDENKO N., GOLOVCHENKO M., GRUBHOFFER L., OLIVER J., 2013. The Rare ospC Allele L of *Borrelia burgdorferi* Sensu Stricto, Commonly Found among Samples Collected in a Coastal Plain Area of the Southeastern United States, Is Associated with *Ixodes affinis* Ticks and Local Rodent Hosts *Peromyscus gossypinus* and *Sigmodon hispidus*. *Applied and Environmental Microbiology* 79: 1403-1406.

RUTKAYOVÁ J., BISKUP R., HARANT R., ŠLECHTA V., KOŠČO J., 2013. *Ameiurus melas* (black bullhead): morphological characteristics of new introduced species and its comparison with *Ameiurus nebulosus* (brown bullhead). *Reviews In Fish Biology And Fisheries* 23: 51-68.

RŮŽIČKA V., ŠMILAUER P., MLEJNEK R., 2013. Colonization of subterranean habitats by spiders in Central Europe. *International Journal of Speleology* 42: 133-140.

ŘEPKA R., KOUTECKÝ P., 2013. *Gymnocalycium mostii* aggregate: Taxonomy in the northern part of its distribution area including newly described taxa. *Bradleya* 31: 96-113.

ŘÍČAN O., PIÁLEK L., ZARDOYA R., DOADRIO I., ZRZAVÝ J., 2013. Biogeography of the Mesoamerican Cichlidae (Teleostei: Heroini): colonization through the GAARlandia land bridge and early diversification. *Journal of Biogeography* 40: 579-593.

ŘÍČANOVÁ Š., KOSHEV Y., ŘÍČAN O., ČOSIĆ N., ČIROVIĆ D., SEDLÁČEK F., BRYJA J., 2013. Multilocus phylogeography of the European ground squirrel: cryptic interglacial refugia of continental climate in Europe. *Molecular Ecology* 22: 4256-4269.

ŘÍHA M., HLADÍK M., MRKVIČKA T., PRCHALOVÁ M., ČECH M., DRAŠTÍK V., FROUZOVÁ J., JŮZA T., KRATOCHVÍL M., PETERKA J., VAŠEK M., KUBEČKA J., 2013. Post-spawning dispersal of tributary spawning fish species to a reservoir system. *Folia Zoologica* 62: 1-13.

SAHU J., ŠIMEK M., 2013. Effect of UV-C on thylakoid arrangement, pigment content and nitrogenase activity in the cyanobacterium *Microchaete* sp. *Indian Journal of Experimental Biology* 51: 388-392.

SAJWAN S., TAKASU Y., TAMURA T., UCHINO K., SEZUTSU H., ŽUROVEC M., 2013. Efficient disruption of endogenous *Bombyx* gene by TAL effector nucleases. *Insect Biochemistry and Molecular Biology* 43: 17-23.

SAK B., PETRŽELKOVÁ K., KVĚTOŇOVÁ D., MYNÁŘOVÁ A., SHUTT K., POMAJBÍKOVÁ K., KALOUSOVÁ B., MODRÝ D., BENAVIDES J., TODD A., KVÁČ M., 2013. Long-Term Monitoring of Microsporidia, *Cryptosporidium* and *Giardia* Infections in Western Lowland Gorillas (*Gorilla gorilla gorilla*) at Different Stages of Habituation in Dzanga Sangha Protected Areas, Central African Republic. *PLoS One* 8(8): e71840.

ŠÁLEK M., CHRENKOVÁ M., KIPSON M., 2013. HIGH POPULATION DENSITY OF LITTLE OWL (*ATHENE NOCTUA*) IN HORTOBAGY NATIONAL PARK, HUNGARY, CENTRAL EUROPE. *Polish Journal of Ecology* 61: 165-169.

SANT'ANNA C., KAŠTOVSKÝ J., HENTSCHKE G., KOMÁREK J., 2013. Phenotypic studies on terrestrial stigonematacean Cyanobacteria from the Atlantic Rainforest, Sao Paulo State, Brazil. *Phytotaxa* 89: 1-23.

SEGAR S., PEREIRA R., COMPTON S., COOK J., 2013. Convergent structure of multitrophic communities over three continents. *Ecology Letters* 16: 1436-1445.

SEKERKA L., WINDSOR D., STAINES C., 2013. A new species of *Cephaloleia* from Panama with description of larva and first record of orchid-feeding in Cephaloleiini (Coleoptera: Chrysomelidae: Cassidinae). *Acta Entomologica Musei Nationalis Pragae* 53: 303-314.

SENIOR M., HAMER K., BOTTRELL S., EDWARDS D., FAYLE T., LUCEY J.,

MAYHEW P., NEWTON R., PEH K., SHELDON F., STEWART C., STYRING A., THOM M., WOODCOCK P., HILL J., 2013. Trait-dependent declines of species following conversion of rain forest to oil palm plantations. *Biodiversity and Conservation* 22: 253-268.

SENTIS A., HEMPTINNE J., BRODEUR J., 2013. Parsing handling time into its components: implications for responses to a temperature gradient. *Ecology* 94: 1675-1680.

SILVA BENAVIDES A., TORZILLO G., KOPECKÝ J., MASOJÍDEK J., 2013. Productivity and biochemical composition of *Phaeodactylum tricornutum* (Bacillariophyceae) cultures grown outdoors in tubular photobioreactors and open ponds. *Biomass & Bioenergy* 54: 115-122.

SINGH P., SINGH S., ELSTER J., MISHRA A., 2013. Molecular phylogeny, population genetics, and evolution of heterocystous cyanobacteria using *nifH* gene sequences. *Protoplasma* 250: 751-764.

SIROVÁ D., REJMÁNKOVÁ E., CARLSON E., VRBA J., 2013. Current standard assays using artificial substrates overestimate phosphodiesterase activity. *Soil Biology & Biochemistry* 56: 75-79.

ŠKALOUD P., NEDBALOVÁ L., ELSTER J., KOMÁREK J., 2013. A curious occurrence of *Hazenian broadyi* spec. nova in Antarctica and the review of the genus *Hazenian* (Ulotrichales, Chlorophyceae). *Polar Biology* 36: 1281-1291.

ŠKODOVÁ I., VERNER Z., BRINGAUD F., FABIAN P., LUKEŠ J., HORVÁTH A., 2013. Characterization of Two Mitochondrial Flavin Adenine Dinucleotide-Dependent Glycerol-3-Phosphate Dehydrogenases in *Trypanosoma brucei*. *Eukaryotic Cell* 12: 1664-1673.

SLÁDEČEK F., HRČEK J., KLIMEŠ P., KONVIČKA M., 2013. Interplay of succession and seasonality reflects resource utilization in an ephemeral habitat. *Acta Oecologica* 46: 17-24.

SLÁMOVÁ I., KLEČKA J., KONVIČKA M., 2013. Woodland and grassland mosaic from a butterfly perspective: habitat use by *Erebia aethiops* (Lepidoptera: Satyridae). *Insect Conservation and Diversity* 6: 243-254.

SMITH M., FERNANDEZ-TRIANA J., EVELEIGH E., GÓMEZ J., GUCLU C., HALLWACHS W., HEBERT P., HRČEK J., HUBER J., JANZEN D., MASON P., MILLER S., QUICKE D., RODRIGUEZ J., ROUGERIE R., SHAW M., VÁRKONYI G., WARD D., WHITFIELD J., ZALDÍVAR-RIVERÓN A., 2013. DNA barcoding and the taxonomy of Microgastrinae wasps (Hymenoptera, Braconidae): impacts after 8years and nearly 20000 sequences. *Molecular Ecology Resources* 13: 168-176.

STACHOVÁ T., FIBICH P., LEPŠ J., 2013. Plant density affects measures of biodiversity effects. *Journal of Plant Ecology* 6: 1-11.

ŠTĚPÁNKOVÁ V., KHABIRI M., BREZOVSKY J., PAVELKA A., SÝKORA J., AMARO M., MINOFAR B., PROKOP Z., HOF M., ETTRICH R., CHALOUPKOVÁ R., DAMBORSKÝ J., 2013. Expansion of Access Tunnels and Active-Site Cavities Influence Activity of Haloalkane Dehalogenases in Organic Cosolvents. *ChemBioChem* 14: 890-897.

STRUNECKÝ O., KOMÁREK J., JOHANSEN J., LUKEŠOVÁ A., ELSTER J., 2013. Molecular and morphological criteria for revision of the genus *Microcoleus* (Oscillatoriales, Cyanobacteria). *Journal of Phycology* 49: 1167-1180.

SVOBODOVÁ Z., HABUŠTOVÁ O., SEHNAL F., HOLEC M., HUSSEIN H., 2013. Epigeic spiders are not affected by the genetically modified maize MON 88017. *Journal of Applied Entomology* 137: 56-67.

ŠEBEK P., ALTMAN J., PLÁTEK M., ČÍŽEK L., 2013. Is Active Management the Key to the Conservation of Saprophytic Biodiversity? Pollarding Promotes the Formation of Tree Hollows. *PLoS One* 8(3): e60456.

ŠETLÍKOVÁ I., SKÁCELOVÁ O., ŠINKO J., RAJCHARD J., BALOUNOVÁ Z., 2013. Ecology of *Pectinatella magnifica* and associated algae and cyanobacteria. *Biologia* 68: 1136-1141.

ŠÍCHOVÁ J., NGUYEN P., DALÍKOVÁ M., MAREC F., 2013. Chromosomal Evolution in Tortricid Moths: Conserved Karyotypes with Diverged Features. *PLoS One* 8(5): e64520.

ŠÍMA J., HAVELKA M., DIÁKOVÁ K., 2013. The Long-Term Study of the Surfactant Degradation in a Constructed Wetland. *Tenside Surfactants Detergents* 50: 340-345.

ŠÍMA J., PAZDERNÍK M., TRÍSKA J., SVOBODA L., 2013. Degradation of surface-active compounds in a constructed wetland determined using high performance liquid chromatography and extraction spectrophotometry. *Journal of Environmental Science and Health Part A-Toxic/Hazardous Substances & Environmental Engineering* 48: 559-567.

ŠIMEK K., KASALICKÝ V., JEZBERA J., HORŇÁK K., NEDOMA J., HAHN M., BASS D., JOST S., BOENIGK J., 2013. Differential freshwater flagellate community response to bacterial food quality with a focus on *Limnohabitans* bacteria. *ISME Journal* 7: 1519-1530.

ŠLOUF V., FUCIMAN M., JOHANNING S., HOFMANN E., FRANK H., POLÍVKA T., 2013. Low-temperature time-resolved spectroscopic study of the major light-harvesting complex of *Amphidinium carterae*. *Photosynthesis Research* 117: 257-265.

ŠLOUF V., FUCIMAN M., DULEBO A., KAFTAN D., KOBLÍŽEK M., FRANK HA., POLÍVKA T., 2013. Carotenoid charge transfer states and their role in energy transfer processes in LH1-RC complexes from aerobic anoxygenic phototrophs. *Journal of Physical Chemistry B* 117: 10987-10999.

ŠMILAUER P., ŠMILAUEROVÁ M., 2013. Asymmetric relationship between grasses and forbs: results from a field experiment under nutrient limitation. *Grass and Forage Science* 68: 186-198.

ŠORF M., BRANDL Z., ZNACHOR P., VAŠEK M., 2013. Floating large-volume mesocosms as a simple, lowcost experimental design suitable for the variety of lakes and reservoirs. *Fundamental and Applied Limnology* 183: 41-48.

ŠVINGER V., POLICAR T., STEINBACH C., POLÁKOVÁ S., JANKOVÝCH A., KOUŘIL J., 2013. Synchronization of ovulation in brook char (*Salvelinus fontinalis*, Mitchill 1814) using emulsified d-Arg(6)Pro(9)NEt sGnRH α . *Aquaculture International* 21: 783-799.

TAHOVSKÁ K., KAŇA J., BÁRTA J., OULEHLE F., RICHTER A., ŠANTRŮČKOVÁ H., 2013. Microbial N immobilization is of great importance in acidified mountain spruce forest soils. *Soil Biology & Biochemistry* 59: 58-71.

TAKASU Y., SAJWAN S., DAIMON T., OSANAI-FUTAHASHI M., UCHINO K., SEZUTSU H., TAMURA T., ŽUROVEC M., 2013. Efficient TALEN Construction for *Bombyx mori* Gene Targeting. *PLoS One* 8(9): e73458.

TASHYREVA D., ELSTER J., BILLI D., 2013. A Novel Staining Protocol for Multiparameter Assessment of Cell Heterogeneity in *Phormidium* Populations (Cyanobacteria) Employing Fluorescent Dyes. *PLoS One* 8(2): e55283.

TERRIENTE-FELIX A., LI J., COLLINS S., MULLIGAN A., REEKIE I., BERNARD F., KREJČÍ (BRUCE) A., BRAY S., 2013. Notch cooperates with Lozenge/Runx to lock haemocytes into a differentiation programme. *Development* 140: 926-937.

TESAŘOVÁ M., FALTÝNEK FRIC Z., VESELÝ P., KONVIČKA M., FUCHS R., 2013. European checkerspots (Melitaeini: Lepidoptera, Nymphalidae) are not aposematic - the point of view of great tits (*Parus major*). *Ecological Entomology* 38: 155-163.

TĚŠITEL J., TESAŘOVÁ M., 2013. Ultrastructure of hydathode trichomes of hemiparasitic *Rhinanthus alectorolophus* and *Odontites vernus*: how important is their role in physiology and evolution of parasitism in Orobanchaceae? *Plant Biology* 15: 119-125.

TĚŠITEL J., HEJCMAN M., LEPŠ J., CAMERON D., 2013. How does elevated grassland productivity influence populations of root hemiparasites? Commentary on Borowicz and Armstrong (Oecologia 2012). *Oecologia* 172: 933-936.

TĚŠITELOVÁ T., JERSÁKOVÁ J., ROY M., KUBÁTOVÁ B., TĚŠITEL J., URFUS T., TRÁVNÍČEK P., SUDA J., 2013. Ploidy-specific symbiotic interactions: divergence of mycorrhizal fungi between cytotypes of the *Gymnadenia conopsea* group (Orchidaceae). *New Phytologist* 199: 1022-1033.

TICHÝ J., GARDIAN Z., BÍNA D., KONÍK P., LITVÍN R., HERBSTOVÁ M., PAIN A., VÁCHA F., 2013. Light harvesting complexes of *Chromera velia*, photosynthetic relative of apicomplexan parasites. *Biochimica et Biophysica Acta - Bioenergetics* 1827: 723-729.

TRATSIK K., DEGTJARIK O., DRIENOVSKA I., CHRÁST L., ŘEZÁČOVÁ P., KUTÝ M., CHALOUPKOVÁ R., DAMBORSKÝ J., KUTÁ SMATANOVÁ I., 2013. Crystallographic analysis of new psychrophilic haloalkane dehalogenases: DpcA from *Psychrobacter cryohalolentis* K5 and DmxA from *Marinobacter* sp ELB17. *Acta Crystallographica Section F-Structural Biology and Crystallization Communications* 69: 683-688.

TROPEK R., ČERNÁ I., STRAKA J., ČÍŽEK O., KONVIČKA M., 2013. Is coal combustion the last chance for vanishing insects of inland drift sand dunes in Europe? *Biological Conservation* 162: 60-64.

TROPEK R., BARTOŠ M., PADYŠÁKOVÁ E., JANEČEK Š., 2013. Interference

competition between sunbirds and carpenter bees for the nectar of *Hypoestes aristata*. African Zoology 48: 392-394.

TROPEK R., HEJDA M., KADLEC T., **SPITZER L.**, 2013. Local and landscape factors affecting communities of plants and diurnal Lepidoptera in black coal spoil heaps: Implications for restoration management. Ecological Engineering 57: 252-260.

TROPEK R., JANSTA P., **LEŠTINA D.**, 2013. *Acraea wigginsii occidentalis* (Bethune-Baker, 1926), a new butterfly for Nigeria, with remarks on its habitat and known distribution (Lepidoptera: Nymphalidae). SHILAP-Revista de Lepidopterologia 41: 163-165.

TUR SUN M., **KESAN G.**, PARLAK C., SENYEL M., 2013. Vibrational spectroscopic investigation and conformational analysis of 1-heptylamine: A comparative density functional study. Spectrochimica Acta Part A-Molecular and Biomolecular Spectroscopy 114: 668-680.

TUŠER M., PRCHALOVÁ M., MRKVIČKA T., FROUZOVÁ J., ČECH M., PETERKA J., JŮZA T., VAŠEK M., KRATOCHVÍL M., DRAŠTÍK V., KUBEČKA J., 2013. A simple method to correct the results of acoustic surveys for fish hidden in the dead zone. Journal of Applied Ichthyology 29: 358-363.

TÝČ J., VOTÝPKA J., KLEPETKOVÁ H., SULÁKOVÁ H., **JIRKŮ M.**, **LUKEŠ J.**, 2013. Growing diversity of trypanosomatid parasites of flies (Diptera: Brachycera): Frequent cosmopolitanism and moderate host specificity. Molecular Phylogenetics and Evolution 69: 255-264.

URBAN J., ŠTYS D., SERGEJEVOVÁ M., **MASOJÍDEK J.**, 2013. Expertomica Fishgui: comparison of fish skin colour. Journal of Applied Ichthyology 29: 172-180.

URBAN J., **HROUZEK P.**, ŠTYS D., MARTENS H., 2013. Estimation of Ion Competition via Correlated Responsivity Offset in Linear Ion Trap Mass Spectrometry Analysis: Theory and Practical Use in the Analysis of Cyanobacterial Hepatotoxin Microcystin-LR in Extracts of Food Additives. Biomed Research International 2013: nestránkováno.

URBANOVÁ Z., **BÁRTA J.**, **PICEK T.**, 2013. Methane Emissions and Methanogenic Archaea on Pristine, Drained and Restored Mountain Peatlands, Central Europe. Ecosystems 16: 664-677.

VALIGUROVÁ A., MICHALKOVÁ V., **KONÍK P.**, DINDO M., GELNAR M., VAŇHARA J., 2013. Penetration and encapsulation of the larval endoparasitoid *Exorista larvarum* (Diptera: Tachinidae) in the factitious host *Galleria mellonella* (Lepidoptera: Pyralidae). Bulletin of Entomological Research 6: 1-10.

VAN'T HOF A., **NGUYEN P.**, **DALÍKOVÁ M.**, EDMONDS N., **MAREC F.**, SACCHERI I., 2013. Linkage map of the peppered moth, *Biston betularia* (Lepidoptera, Geometridae): a model of industrial melanism. Heredity 110: 283-295.

VAŠEK M., PRCHALOVÁ M., PETERKA J., KETELAARS H., WAGENVOORT A., ČECH M., DRAŠTÍK V., ŘÍHA M., JŮZA T., KRATOCHVÍL M., MRKVIČKA T., **BLABOLIL P.**, **BOUKAL D.**, DURAS J., KUBEČKA J., 2013. The utility of predatory fish in biomanipulation of deep reservoirs. Ecological Engineering 52: 104-111.

VÁVRA J., LUKEŠ J., 2013. Microsporidia and 'The Art of Living Together'. *Advances in Parasitology*, VOL 82 82: 253-319.

VERNER Z., ŠKODOVÁ I., POLÁKOVÁ S., DURIŠOVÁ-BENKOVIČOVÁ V., HORVÁTH A., LUKEŠ J., 2013. Alternative NADH dehydrogenase (NDH2): intermembrane-space-facing counterpart of mitochondrial complex I in the procyclic *Trypanosoma brucei*. *Parasitology* 140: 328-337.

VESELÁ J., JOHANSEN J., POTAPOVA MG., 2013. *Surirella terryi* and *S. Crucitata*: Two rare diatoms from North America. *Diatom Research* 28: 503-516.

VESELÝ P., VESELÁ S., FUCHS R., 2013. The responses of Central European avian predators to an allopatric aposematic true bug. *Ethology Ecology & Evolution* 25: 275-288.

VESELÝ P., LUHANOVÁ D., PRÁŠKOVÁ M., FUCHS R., 2013. Generalization of Mimics Imperfect in Colour Patterns: The Point of View of Wild Avian Predators. *Ethology* 119: 138-145.

VLAŠÁNEK P., SAM L., NOVOTNÝ V., 2013. Dispersal of butterflies in a New Guinea rainforest: using mark-recapture methods in a large, homogeneous habitat. *Ecological Entomology* 38: 560-569.

VODKA Š., ČÍŽEK L., 2013. The effects of edge-interior and understorey-canopy gradients on the distribution of saproxylic beetles in a temperate lowland forest. *Forest Ecology and Management* 304: 33-41.

VONDRÁK J., KUBÁSEK J., 2013. Algal stacks and fungal stacks as adaptations to high light in lichens. *Lichenologist* 45: 115-124.

VONDRÁK J., PALICE Z., MAREŠ J., KOCOURKOVÁ J., 2013. Two superficially similar lichen crusts, *Gregorella humida* and *Moelleropsis nebulosa*, and a description of the new lichenicolous fungus *Llimoniella gregorellae*. *Herzogia* 26: 31-48.

VONDRÁK J., LIŠKA J., 2013. Lichens and lichenicolous fungi from the Retezat Mts and overlooked records for the checklist of Romanian lichens. *Herzogia* 26: 293-305.

VONDRÁK J., MAYRHOFER H., 2013. *Caloplaca anularis* and *Caloplaca scrobiculata* are distinct. *Herzogia* 26: 21-29.

VONDRÁK J., FROLOV I., ŘÍHA P., HROUZEK P., PALICE Z., NADYEINA O., HALICI G., KHODOSOVTSSEV A., ROUX C., 2013. New crustose Teloschistaceae in Central Europe. *Lichenologist* 45: 701-722.

VOTÝPKA J., SUKOVÁ E., KRAEVA N., ISHEMGULOVA A., DUŽÍ I., LUKEŠ J., YURCHENKO V., 2013. Diversity of Trypanosomatids (Kinetoplastea: Trypanosomatidae) Parasitizing Fleas (Insecta: Siphonaptera) and Description of a New Genus *Blechomonas* gen. n. *Protist* 164: 763-781.

WERNER O., RAMS S., KUČERA J., LARRAIN J., AFONINA O., PISA S., MARIA ROS

R., 2013. New data on the moss genus *Hymenoloma* (Bryophyta), with special reference to *H. mulahaceni*. *Cryptogamie, Bryologie* 34: 13-30.

WILD B., SCHNECKER J., **BÁRTA J.**, ČAPEK P., GUGGENBERGER G., HOFHANSL F., KAISER C., LASHCHINSKY N., MIKUTTA R., MOOSHAMMER M., ŠANTRŮČKOVÁ H., SHIBISTOVA O., URICH T., ZIMOV SA., RICHTER A., 2013. Nitrogen dynamics in Turbic Cryosols from Siberia and Greenland. *Soil Biology & Biochemistry* 67: 85-93.

YOSHIDO A., ŠÍCHOVÁ J., KUBÍČKOVÁ S., MAREC F., SAHARA K., 2013. Rapid turnover of the W chromosome in geographical populations of wild silkmoths, *Samia cynthia* ssp. *Chromosome Research* 21: 149-164.

ZÁRYBNICKÁ M., RIEGERT J., ST'ASTNÝ K., 2013. The role of *Apodemus* mice and *Microtus* voles in the diet of the Tengmalm's owl in Central Europe. *Population Ecology* 55: 353-361.

ZAYATS V., SAMAD A., MINOFAR B., ROELOFS KE., STOCKNER T., ETTRICH R., 2013. Regulation of the transient receptor potential channel TRPA1 by its N-terminal ankyrin repeat domain. *Journal of Molecular Modeling* 19: 4689-4700.

ZIMA J., LEŠTINA D., KONVIČKA M., 2013. Characterization of ten polymorphic microsatellite markers for an endangered butterfly *Argynnis niobe* and their cross-species utility in the closely related species *A. adippe* (Lepidoptera: Nymphalidae). *European Journal of Entomology* 110: 383-387.

ZNACHOR P., VIŠOCKÁ V., NEDOMA J., RYCHTECKÝ P., 2013. Spatial heterogeneity of diatom silicification and growth in a eutrophic reservoir. *Freshwater Biology* 58: 1889-1902.

ZWEYGARTH E., SCHOEL H., LIS K., CABEZAS CRUZ A., THIEL C., SILAGHI C., RIBEIRO M., PASSOS L., 2013. In vitro Culture of a Novel Genotype of *Ehrlichia* sp from Brazil. *Transboundary and Emerging Diseases* 60: 86-92.

2. JINÉ PUBLIKACE (CELKEM 65 PRACÍ)

BOUKAL D., KUBEČKA J., 2013. Populační dynamika ryb. In Randák, *Rybářství ve volných vodách*. Vodňany: Jihočeská univerzita v Českých Budějovicích, Fakulta rybářství a ochrany vod, s. 84-101.

BŘICHÁČEK P., CHVOJKA O., KOVAČIKOVÁ L., NOVÁK J., 2013. Objekty z mladší a pozdní doby bronzové v Bernarticích (okr. Písek). *Archeologické výzkumy v jižních Čechách* 26: 113-136.

DOSTÁL J., MANČAL T., VÁCHA F., AUGULIS R., PŠENČÍK J., ZIGMANTAS D., 2013. Fast exciton dynamics and coherent oscillations revealed by coherent 2D spectroscopy in chlorosomes. In *EPJ Web of Conferences*. Les Ulis Cedex: EDP Sciences - Web of Conferences, s. Article number 08015.

EKRT L., LINHARTOVÁ R., ŠTECH M., 2013. Rozlišování a revize rozšíření kapradě podobné (*Dryopteris expansa*) a jejího křížence *D. xambroseae* v České republice. *Zprávy České botanické společnosti* 48: 263-291.

EKRT L., EKRTOVÁ E., 2013. Floristický a vegetační průzkum unikátní šumavské lokality Zhůří-střelnice u Nové Hůrky. *Silva Gabreta: sborník vědeckých prací* 19: 25-50.

EKRTOVÁ E., 2013. Co se můžeme dozvědět o historii výskytu *Gentiana pannonica* v centrální oblasti Šumavy z jeho současného rozšíření, stanovištních vazeb a historického využívání krajiny. *Zprávy České botanické společnosti* 48: 293-324.

ELSTER J., KOMÁREK J., NEDBALOVÁ L., 2013. Život v moři - Mořské řasy. In Prošek, *Antarktida*. Praha: Academia, s. 133-135.

ELSTER J., KOMÁREK J., NEDBALOVÁ L., 2013. Biologické výzkumy ostrova Jamese Rosse - Biodiverzita sinic a řas. In Prošek, *Antarktida*. Praha: Academia, s. 303-311.

ELSTER J., KOMÁREK J., NEDBALOVÁ L., 2013. Život na pevnině. - Sinice a řasy. In Prošek, *Antarktida*. Praha: Academia, s. 89-101.

FAJFR M., RŮŽEK D., 2013. Laboratory diagnosis of viral hemorrhagic fever. In Singh, Růžek, *Viral Hemorrhagic Fevers*. Boca Raton: CRC Press, s. 183-206.

FŮSSY Z., MATOUŠEK J., PATZAK J., STEGER J., UHLÍŘOVÁ K., 2013. Hop stunt viroid pathogenesis involves a disbalance of hop regulatory genes. In Patzak, Koutoulis, *Acta Horticulturae*. Leuven: International Society for Horticultural Science, s. 113-120.

GRUBHOFFER L., RUDENKO N., VANCOVÁ M., GOLOVCHENKO M., ŠTĚRBA J., 2013. Circulatory system and hemolymph. In Sonenshine, Roe, *Biology of Ticks*. Oxford: Oxford University Press, s. 258-286.

HOUFKOVÁ P., JIŘÍK J., KOVAČIKOVÁ L., PTÁK M.FFI/UAR, ŠÁLKOVÁ T., 2013. Medieval and Modern Water Management. An example from the excavation in Písek – Bakaláře-square (Southern Bohemia). In Chytráček, Gruber, Michálek, Sandner, Schmotz, *Fines Transire*. Rahden: Verlag Marie Leidorf GmbH, s. 163-172.

IGNATOVA EA., KUČERA J., KUZNETSOVA OI., IGNATOV MS., 2013. First record of *Hydrogonium gregarium* (Pottiaceae, Bryophyta) in Russia: an interesting extension of the species? distribution to the heart of the permafrost zone. Polish Botanical Journal 58: 565-572.

JELÍNEK J., 2013. Simulation of University Education Process. In *ICAART 2013 - Proceedings of the 5th International Conference on Agents and Artificial Intelligence*. Barcelona: Institute for Systems and Technologies of Information, Control and Communication, s. 403-406.

KALOVÁ J., 2013. Samostatné studentské práce jako prostředek pro zvýšení zájmu o technické a přírodovědné obory. Journal of Technology and Information Education (print) 2013: 16-19.

KILIAN P., DANIELOVÁ V., RŮŽEK D., 2013. Bunyaviruses. In Singh, Růžek, *Neuroviral Infections: RNA Viruses and Retroviruses*. Florida: CRC Press, s. 67-91.

KLOUBCOVÁ P., GRILL S., KUČERA T., 2013. Prostorový model revitalizace dutinových stromů v krajinné kompozici zámku Jemčina. Acta Průhoniciana 103: 41-50.

KNÍŽEK J., BERÁNEK L., BOUCHAL P., VOJTĚŠEK B., NENUTIL R., TOMŠÍK P., 2013. Identification of Markers from a Set of Spectral Courses. WSEAS Transactions on Biology and Biomedicine 10: 35-40.

KOBLÍŽEK M., ZENG Y., HORÁK A., OBORNÍK M., 2013. Regressive Evolution of Photosynthesis in the Roseobacter Clade. In *10.1016/B978-0-12-397923-0.00013-8*. LONDON: ACADEMIC PRESS LTD-ELSEVIER SCIENCE LTD, s. 385-405.

KODÝDKOVÁ K., BENEŠ J., KOMÁRKOVÁ V., PACLÍKOVÁ K., 2013. Pilot archaeobotanical analysis of the sediment the well 112 in Pyrgi, Santa Severa. Archaeologia Maritima Mediterranea 10: 181-188.

KOMÁREK J., 2013. Cyanoprokaryota 3: Heterocytous Genera. In Berlin: Springer Spektrum, 1130 s.

KOPÁČEK J., FLUKSOVÁ H., KAŇA J., PORCAL P., TUREK J., ŽALOUĐÍK J., 2013. Chemical composition of atmospheric deposition in the catchments of Plešné and Čertovo lakes in 1998-2012. Silva Gabreta: sborník vědeckých prací 19: 1-23.

KOVAČIKOVÁ L., 2013. Vlíněves - pískovna: rozbor osteologického materiálu. Archeologické rozhledy neveden: 193-197.

KRATOŠOVÁ G., VÁVRA I., HORSKÁ K., ŽIVOTSKÝ O., NĚMCOVÁ Y., BOHUNICKÁ M., SLABOTINSKÝ J., ROSENBERGOVÁ K., KADILAK A., SCHRÖFEL A., 2013. Synthesis of metallic nanoparticles by diatoms and chrysophytes - prospects and applications. In Rai, Posten, *Green Biosynthesis of Nanoparticles - Mechanisms and Application*. Wallingford, Oxfordshire, UK: CABI Publishing, s. 61-78.

KREJSOVÁ J., STRNADOVÁ G., 2013. Zeleň v Prachaticích a systém propojení biokoridorů – intravilán s extravilánem. In Holubec, *Člověk, stavba a územní plánování 7*. Praha: Tiskárna nakladatelství ČVUT, s. 162-168.

KROLOVÁ M., HEJZLAR J., 2013. Protection and support of littoral macrophyte stands by breakwaters on differently exposed shores of the Lipno reservoir. *Silva Gabreta: sborník vědeckých prací* 19: 57-71.

KUBEČKA J., BOUKAL D., HLADÍK M., 2013. Rybářské hospodaření na mimopstruhových revírech. In Randák, *Rybářství ve volných vodách*. Vodňany: Jihočeská univerzita v Českých Budějovicích, Fakulta rybářství a ochrany vod, s. 172-179.

KUBEŠOVÁ S., KUČERA J., LABURDOVÁ J., MIKULÁŠKOVÁ E., PROCHÁZKOVÁ J., TKÁČIKOVÁ J., 2013. Mechorosty zaznamenané v průběhu 25. podzimních Bryologicko-lichenologických dnů v Novohradských horách, 2012. *Bryonora* 52: 22-30.

KUČERA J., BRADÁČOVÁ J., HOLÁ E., KUBEŠOVÁ S., MANUKJANOVÁ A., MIKULÁŠKOVÁ E., ŠTECHOVÁ T., TKÁČIKOVÁ J., VICHEROVÁ E., 2013. Results of the bryofloristic courses of the Department of Botany, University of South Bohemia, in 2012 and 2013. *Časopis Slezského zemského muzea, série A - vědy přírodní* 62: 173-184.

KUČERA J., KUBEŠOVÁ S., MARKOVÁ I., VICHEROVÁ E., 2013. Příspěvek k poznání bryoflóry západních Krkonoš. *Opera Corcontica* 50: 207-214.

KUČERA T., NAVRÁTIL J., HAVLÍKOVÁ G., 2013. Zámecké zahrady a parky: Motivace k návštěvě a atraktivnost. *Acta Průhoniciana* 103: 5-15.

KUNA M., HAJNALOVÁ M., KOVAČIKOVÁ L., LISÁ L., NOVÁK J., BUREŠ M., CÍLEK V., HOŠEK J., KOČAR P., MAJER A., MAKOWIECKI D., CUMMINGS L., SŮVOVÁ Z., SVĚTLÍK I., VANDENBERGHE D., VAN NIEULAND J., YOST C., ZABILSKA-KUNEK M., 2013. Raně středověký areál v Roztokách z pohledu ekofaktů. *Památky archeologické* 104: 59-147.

LEPŠ J., 2013. Diversity and ecosystem functioning. In van der Maarel, Franklin, *Vegetation Ecology, 2nd Edition*. Hoboken: Wiley-Blackwell, s. 308-346.

LEPŠÍ P., LEPŠÍ M., BOUBLÍK K., ŠTECH M., HANS V., 2013. Červená kniha květeny jižní části Čech. In České Budějovice: Jihočeské muzeum v Českých Budějovicích, 503 s.

MARTEINSSON V., VAISHAMPAYAN P., KVÍDEROVÁ J., MAPELLI F., MEDORI M., CALFAPIETRA C., AGUILERA A., HAMISH D., REYNISSON E., MAGNÚSSON S., MARASCO R., BORIN S., CALZADA A., SOUZA-EGIPSY V., GONZALES-TORIL E., AMILS R., ELSTER J., HANSCH R., 2013. A Laboratory of Extremophiles: Iceland Coordination Action for Research Activities on Life in Extreme Environments (CAREX) Field Campaign. *Life* 3: 211-233.

MEDUNA P., VESELÁ A., BERNARDOVÁ A., NOVÁK J., 2013. Záchrané archeologické výzkumy v areálu měst Mělníka a Mšena. *Středočeský vlastivědný sborník (Muzeum a současnost, řada společenskovední)* 31: 160-169.

NAVRÁTIL J., PÍCHA K., KNOTEK J., KUČERA T., NAVRÁTILOVÁ J., RAJCHARD J., 2013. Comparison of attractiveness of tourist sites for ecotourism and mass tourism: The case

of waters in mountainous protected areas. *TOURISMOS: An International Multidisciplinary Refereed Journal of Tourism* 8: 35-51.

NEDBALOVÁ L., NÝVLT D., KOPÁČEK J., SOBR M., **ELSTER J.**, 2013. Freshwater lakes of Ulu Peninsula, James Ross Island, north-east Antarctic Peninsula: origin, geomorphology and physical and chemical limnology. *Antarctic Science* 25: 358-372.

NEDVĚD O., JIHOČESKÁ UNIVERZITA V ČESKÝCH BUDĚJOVICÍCH, ČESKÉ BUDĚJOVICE, CZ. *Štěrbínový lapač pro odchyt létajícího hmyzu. Úřad průmyslového vlastnictví v ČR*, 25484. 06.06.2013.

NEDVĚD O., PEKÁR S., BEZDĚČKA P., DOLANSKÝ J., HAVLOVÁ V., HULA V., LÍZNAROVÁ E., ŘEZÁČ M., SCHMITT M., SENTENSKÁ L., 2013. Ecology of Arachnida alien to and spreading in Europe. In Sloggett, Brown, Roy, *IOBC-WPRS Bulletin*. Maastricht: IOBC, s. 67-70.

NEDVĚDOVÁ T., AWAD M., UNGEROVÁ D., **NEDVĚD O.**, 2013. Characteristics of the ladybird *Harmonia axyridis* during autumn migration. In Sloggett, Brown, Roy, *IOBC-WPRS Bulletin*. Maastricht: IOBC, s. 117-122.

NOVÁK J., 2013. Antracological analysis. In Neruda, Kaminská, *NEANDERTHALS AT BOJNICE IN THE CONTEXT OF CENTRAL EUROPE*. Brno: Moravské zemské muzeum, s. 191-192.

NOVÁK M., 2013. Možnosti interaktivní komunikace ve webcastingovém prostředí. *Journal of Technology and Information Education (print)* 5: 15-19.

NOVÁK M., 2013. Multikanálová komunikace ve webcastingových systémech. In *Sborník příspěvků mezinárodní vědecké konference Evropské pedagogické fórum 2013*. Hradec Králové: Magnanimitas, s. nestránkováno.

PRACH K., 2013. Vegetation development in central European coal mining sites. In Frouz, *Soil Biota and Ecosystem Development in Post Mining Sites*. Boca Raton: CRC Press, s. 38-52.

PROKÝŠEK M., 2013. Spatial visualization means in instruction. In *Proceedings of the International Scientific Conference on MMK 2013*. Hradec Králové: Magnanimitas, s. 2541-2545.

PROSTŘEDNÍK J., **NOVÁK J.**, 2013. Záchraný archeologický výzkum v Turnově-Nudvojovicích v roce 2012. *Archeologie ve středních Čechách* 17: 105-114.

PUSHKAREVA E., **ELSTER J.**, 2013. Biodiversity and ecological classification of cryptogamic soil crusts in the vicinity of Petunia Bay, Svalbard. *Czech Polar Reports (print)* 3: 7-18.

RŮŽEK D., BILSKI B., GÜNTHER G., 2013. Tick-Borne Encephalitis. In Singh, Růžek, *Neuroviral Infections: RNA Viruses and Retroviruses*. Boca Raton: CRC Press, s. 211-237.

RŮŽEK D., YAKIMENKO V., KARAN S., TKACHEV S. 2013. Omsk Omsk hemorrhagic fever. In Singh, Růžek, *Viral Hemorrhagic Fevers*. Boca Raton: CRC Press, s. 553-562.

ŘÍDKÝ J., KOVAČIKOVÁ L., PŮLPÁN M., 2013. Chronologie mladoneolitických objektů a soubor kosterních zvířecích pozůstatků ze sídelního areálu s rondelem ve Vchynicích (okr. Litoměřice). *Archeologické rozhledy* 65: 227-284.

ŘÍHOVÁ Z., 2013. Systems thinking in project management from the point of view of a practitioner. In *System approaches 2013 - Systems thinking and global problems of the world*. Praha: Vysoká škola ekonomická v Praze, Katedra systémové analýzy, s. 104-108.

ŘÍHOVÁ Z., 2013. Kontrola poskytování IT služeb zákaznickým auditem ISAE3402. *Systémová integrace* 2013: 60-69.

ŘÍHOVÁ Z., 2013. Outsourcing Project and its Influence on Management Personnel Relations. In *Advances in Education Research*. Korea: IERI, s. 1-4.

ŠVEC P., HONIG V., SZTURCOVÁ D., IVAN I., VAHALÍK P., MRKVIČKA T., GRUBHOFFER L., 2013. Use of GIS in spatial epidemiology - Tick borne-diseases as a model example. In *International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM*. Sofia: STEF92 Technology Ltd., s. 1033-1040.

SVOBODA J., NOVÁK J., NOVÁK M., SÁZELOVÁ S., DEMEK J., HLADILOVÁ Š., PEŠA V., 2013. Paleolithic / Mesolithic stratigraphic sequences at Údolí samoty and Janova zátoka rockshelters, North Bohemia: Preliminary Report. *Archäologisches Korrespondenzblatt* 43: 469-488.

ŠEBEK P., BARTOŠ M., BENEŠ J., CHLUMSKÁ Z., DOLEŽAL J., KOVÁŘ J., MIKATOVÁ B., PLÁTEK M., POLÁKOVÁ S., ŠKORPÍK M., STEJSKAL R., TRNKA F., VLAŠÍN M., ZAPLETAL M., ČÍŽEK L., 2013. Effect of active conservation management on biodiversity: Multi-taxa survey in oak woodlands of Podyji National Park, Czech Republic. In *Bauch, 5th Symposium for Protected Areas*. Austria: Salzburger Nationalparkfonds, s. 717-720.

ŠENKEŘÍKOVÁ P., NEDVĚD O., 2013. Preference among three aphid species by the predatory ladybird beetle *Harmonia axyridis* in the laboratory. In Sloggett, Brown, Roy, *IOBC-WPRS Bulletin*. Maastricht: IOBC, s. 123-130.

ŠÍDA P., PROSTŘEDNÍK J., POKORNÝ P., NOVÁK J., 2013. VELKÉ HAMRY II. NEOLITICKÝ TĚŽEBNÍ A ZPRACOVATELSKÝ AREÁL. In Turnov: Muzeum Českého ráje v Turnově, 150 s.

ŠTECHOVÁ T., MANUKJANOVÁ A., ONDRÁČEK Č. 2013. Bryoflóra vybraných rašelinišť a pramenišť v okolí Božího Daru v Krušných horách. *Severočeskou přírodou* 44: 103-114.

ŠTĚRBA, J. Biochemie. *MEDICÍNSKÉ MINIMUM pro každého. Kastnerová a kol.* 2013.

URBANOVÁ Z., PICEK T., TUUTTILA E., 2013. Sensitivity of carbon gas fluxes to weather variability on pristine, drained and rewetted temperate bogs. *Mires and Peat* 11: 1-14.

VOHNOUT R., VOHNOUTOVÁ M., 2013. Zajištění integrity archivu – část II. Provázané haše a jejich využití v digitálních archivech. DSM – data security management 2013: 38-42.

ZENG Y., FENG F., LIU Y., LI Y., **KOBLÍŽEK M.**, 2013. Genome sequences and photosynthesis gene cluster composition of a freshwater aerobic anoxygenic phototroph, *Sandarakinorhabdus* sp. strain AAP62, isolated from the Shahu Lake in Ningxia, China. Genome Announcements 1: e00034-13.

ZÍMOVÁ K., POSPÍŠIL L., JANKOVSKÁ V., KARLÍK P., **HOUFKOVÁ P.**, **BUMERL J.**, MOLNÁROVÁ K., **BENEŠ J.**, **BERNARDOVÁ A.**, 2013. Analýzy vývoje plůžiny zaniklé obce Malonín na Prachaticku. Acta Průhoniciana 104: 27-37.