

Publikace pracovníků a studentů Přírodovědecké fakulty JU (do 31.7. 2007 Biologické fakulty JU) v roce 2007

Jsou uvedeny pouze články ve vědeckých časopisech s IF (celkem 168 prací),
a dále (*kurzívou*) vybrané knihy a kapitoly v knihách včetně editorství knih a publikací na CD
a www (celkem 13 prací).

Pracovníci a studenti PřF zaměstnaní či studující na PřF v roce 2007 jsou uvedeni tučně.

AVIRON S., **KINDLMANN P.**, BUREL F., 2007. Conservation of butterfly populations in dynamic landscapes: The role of farming practices and landscape mosaic. *Ecological Modelling* 205: 135-145.

BOHLEN J., **ŠLECHTOVÁ V.**, DOADRIO I., RÁB P., 2007. Low mitochondrial divergence indicates a rapid expansion across Europe in the weather loach, *Misgurnus fossilis* (L.). *Journal of Fish Biology* 71 (Suppl. B): 186-194.

BOMBAROVÁ M., **MAREC F.**, NGUYEN P., ŠPAKULOVÁ M., 2007. Divergent location of ribosomal genes in chromosomes of fish thorny-headed worms, *Pomphorhynchus laevis* and *P. tereticollis* (Acanthocephala). *Genetica* 131: 141-149.

BURDA H., ŠUMBERA R., BEGALL S., 2007. Microclimate in burrows of subterranean rodents – revisited. In: Begall S., Burda H., Schleich C.E. (eds): Subterranean rodents: News from underground, pp. 21-33. Springer, Berlin, Heidelberg, New York.

BYSS M., TRÍSKA J., ELHOTTOVÁ D., 2007. GC–MS–MS analysis of bacterial fatty acids in heavily creosote-contaminated soil samples. *Analytical & Bioanalytical Chemistry* 387: 1573-1577.

CODD V., **DOLEŽEL D.**, STEHLÍK J., PICCIN A., GARNER K.J., RACEY S.N., STRAATMAN K.R., LOUIS E.J., COSTA R., ŠAUMAN I., KYRIACOU C.P., ROSATO E., 2007. Circadian rhythm gene regulation in the housefly *Musca domestica*. *Genetics* 177: 1539-1551.

COMTE K., **ŠABACKÁ M.**, CARRE-MLOUKA A., **ELSTER J., KOMÁREK J.**, 2007. Relationships between the Arctic and the Antarctic cyanobacteria; three Phormidium-like strains evaluated by a polyphasic approach. *FEMS Microbiology Ecology* 59: 366-376.

ČECH M., KUBEČKA J., FROUZOVÁ J., DRAŠTÍK V., KRATOCHVÍL M., JAROŠÍK J., 2007. Impact of flood on distribution of bathypelagic perch fry layer along the longitudinal profile of large canyon-shaped reservoir. *Journal of Fish Biology* 70: 1109-1119.

ČECH M., KUBEČKA J., FROUZOVÁ J., DRAŠTÍK V., KRATOCHVÍL M., MATĚNA J., HEJZLAR J., 2007. Distribution of the bathypelagic perch fry layer along the longitudinal profile of two large canyon-shaped reservoirs. *Journal of Fish Biology* 70: 141-154.

ČERMÁKOVÁ P., **VERNER Z.**, MAN P., **LUKEŠ J.**, HORVÁTH A., 2007. Characterization of the NADH: ubiquinone oxidoreductase (complex I) in the trypanosomatid *Phytomonas serpens* (Kinetoplastida). *FEBS Journal* 274: 3150-3158.

ČERVENÝ V., RYCHLOVSKÝ P., NETOLICKÁ J., **ŠÍMA J.**, 2007. Electrochemical generation of mercury cold vapor and its in-situ trapping in gold-covered graphite tube atomizers. *Spectrochimica Acta Part B – Atomic Spectroscopy* 62: 317-323.

DE BELLO F., **LEPŠ J.**, LAVOREL S., MORETTI M., 2007. Importance of species abundance for assessment of trait composition: an example based on pollinators communities. *Community Ecology* 8: 163-170.

DE BELLO F., **LEPŠ J.**, SEBASTIA M.-T., 2007. Grazing effect on the species-area relationship: Variation along a climatic gradient in NE Spain. *Journal of Vegetation Science* 18: 25-34.

- DOLEŽAL P., SEHNAL F.**, 2007. A simple method for the detection of imaginal diapause in beetles. *Journal of Applied Entomology* 131: 221-223.
- DOLEŽAL P., SEHNAL F.**, 2007. Effects of photoperiod and temperature on the development and diapause of the bark beetle *Ips typographus*. *Journal of Applied Entomology* 131: 165-173.
- DOLEŽAL P., HABUŠTOVÁ O., SEHNAL F.**, 2007. Effects of photoperiod and temperature on the rate of larval development, food conversion efficiency, and imaginal diapause in *Leptinotarsa decemlineata*. *Journal of Insect Physiology* 53: 849-857.
- DOLEŽEL D., ŠAUMAN I., KOŠTÁL V., HODKOVÁ M.**, 2007. Photoperiodic and food signals control expression pattern of the clock gene *period* in the linden bug, *Pyrrhocoris apterus*. *Journal of Biological Rhythms* 22: 335-342.
- DOLEŽELOVÁ E., DOLEŽEL D., HALL J.C.**, 2007. Rhythm defects caused by newly engineered null mutations in *Drosophila*'s cryptochrome gene. *Genetics* 177(1): 329-345.
- DOLEŽELOVÁ E., NOTHACKER H.P., CIVELLI O., BRYANT P.J., ŽUROVEC M.**, 2007. A *Drosophila* adenosine receptor activates cAMP and calcium signaling. *Insect Biochemistry & Molecular Biology* 37: 318-329.
- DOSTÁLKOVÁ I., ŠPINKA M.**, 2007. Synchronization of behaviour in pairs: the role of communication and consequences in timing. *Animal Behaviour* 74: 1735-1742.
- DYKOVÁ I., LOM J., DVOŘÁKOVÁ H., PECKOVÁ H., FIALA I.**, 2007. Didymium-like myxogastrids (class Mycetozoa) as endocommensals of sea urchins (*Sphaerechinus granularis*). *Folia Parasitologica* 54: 1-12.
- DYKOVÁ I., TYML T., FIALA I., LOM J.**, 2007. New data on *Soricimyxum fegati* (Myxozoa) including analysis of its phylogenetic position inferred from the SSU rRNA gene sequence. *Folia Parasitologica* 54: 272-276.
- DYKOVÁ I., NOWAK B., PECKOVÁ H., FIALA I., DVOŘÁKOVÁ H.**, 2007. Phylogeny of *Neoparamoeba* strains isolated from marine fish and invertebrates as inferred from SSU rDNA sequences. *Diseases of Aquatic Organisms* 74: 57-65.
- EKRT L., LEPSÍ M., BOUBLÍK K., LEPSÍ P.**, 2007. *Dryopteris remota* rediscovered for the flora of the Czech Republic. *Preslia* 79: 69-82.
- EXNEROVÁ A., ŠTYS P., FUČÍKOVÁ E., VESELÁ S., SVÁDOVÁ K., PROKOPOVÁ M., JAROŠÍK V., FUCHS R., LANDOVÁ E.**, 2007. Avoidance of aposematic prey in European tits (Paridae): learned or innate? *Behavioral Ecology* 18: 148-156.
- FALTÝNKOVÁ A., NAŠINCOVÁ V., KABLÁSKOVÁ L.**, 2007. Larval trematodes (Digenea) of the great pond snail, *Lymnaea stagnalis* (L.), (Gastropoda, Pulmonata) in Central Europe: A survey of species and key to their identification. *Parasite – Journal de la Société Française de Parasitologie* 14: 39-51.
- FIORE M.F., SANT'ANNA C.L., AZEVEDO M.T.P., KOMÁREK J., KAŠTOVSKÝ J., SULEK J., LORENZI A.S.**, 2007. The cyanobacterial genus *Brasilonema* – molecular and phenotype evaluation. *Journal of Phycology* 43: 789-798.
- FRIC Z., WAHLBERG N., PECH P., ZRZAVÝ J.**, 2007. Phylogeny and classification of the *Phengaris–Maculinea* clade (Lepidoptera: Lycaenidae): total evidence and phylogenetic species concepts. *Systematic Entomology* 32: 558-567.
- FRIC Z., KONVIČKA M.**, 2007. Dispersal kernels of butterflies: Power-law functions are invariant to marking frequency. *Basic & Applied Ecology* 8: 377-386.
- FROUZ J., ELHOTTOVÁ D., PIŽL V., TAJOVSKÝ K., ŠOURKOVÁ M., PICEK T., MALÝ M.**, 2007. The effect of litter quality and soil faunal composition on organic matter dynamics in post-mining soil: A laboratory study. *Applied Soil Ecology* 37: 72-80.

FUKOVÁ I., TRAUT W., VÍTKOVÁ M., NGUYEN P., KUBÍČKOVÁ S., MAREC F., 2007. Probing the W chromosome of the codling moth, *Cydia pomonella*, with sequences from microdissected sex chromatin. *Chromosoma* 116: 135-145.

GARDIAN Z., BUMBA L., SCHROFEL A., **HERBSTOVÁ M., NEBESÁŘOVÁ J., VÁCHA F., 2007.** Organisation of Photosystem I and Photosystem II in red alga *Cyanidium caldarium*: Encounter of cyanobacterial and higher plant concepts. *Biochimica et Biophysica Acta – Bioenergetics* 1767: 725-731.

GARNIER E., LAVOREL S., ANSQUER P., CASTRO H., CRUZ P., **DOLEŽAL J., ERIKSSON O., FORTUNEL C., FREITAS H., GOLODETS C., GRIGULIS K., JOUANY C., KAZAKOU E., KIGEL J., KLEYER M., LEHSTEN V., LEPŠ J., MEIER T., PAKEMAN R., PAPADIMITRIOU M., PAPANASTASIS V.P., QUESTED H., QUETIER F., ROBSON M., ROUMET C., RUSCH G., SKARPE C., STERNBERG M., THEAU J.-P., THENAULT A., VILE D., ZAROVALI M.P., 2007.** Assessing the effects of land-use change on plant traits, communities and ecosystem functioning in grasslands: a standardized methodology and lessons from an application to 11 European sites. *Annals of Botany* 99: 967-985.

HAUER T., 2007. Rock-inhabiting cyanoprokaryota from South Bohemia (Czech Republic). *Nova Hedwigia* 85(3-4): 379-392.

HAUER T., JIRKA L., 2007. Image analysis – a simple method of algal culture growth assessment. *Journal of Applied Phycology* 9: 599-601.

HERDER S., VOTÝPKA J., **JIRKŮ M., RÁDROVÁ J., JANZEN C.J., LUKEŠ J., 2007.** *Trypanosoma brucei* 29-13 strain is inducible in but not permissive for the tsetse fly vector. *Experimental Parasitology* 117: 111-114.

HIGHAM T.E., HULSEY C.D., **ŘÍČAN O., CARROLL A.M., 2007.** Feeding in speed: prey capture evolution in cichlids. *Journal of Evolutionary Biology* 20: 70-78.

HULCR J., MOGIA M., ISUA B., NOVOTNÝ V., 2007. Host specificity of ambrosia and bark beetles (Col., Curculionidae: Scolytidae and Platypodinae) in a New Guinea rainforest. *Ecological Entomology* 32: 762-772.

HYLIŠ M., **OBORNÍK M., NEBESÁŘOVÁ J., VÁVRA J., 2007.** Aquatic tetrasporoblastic microsporidia from caddis flies (Insecta, Trichoptera): Characterization, phylogeny and taxonomic reevaluation of the genera *Episetum* Larsson, 1986, *Pyrotheca* Hesse, 1935 and *Cougourdella* Hesse, 1935. *European Journal of Protistology* 43: 205-224.

HYNŠT J., ŠIMEK M., BRŮČEK P., PETERSEN S.O., 2007. High fluxes but different patterns of nitrous oxide and carbon dioxide emissions from soil in a cattle overwintering area. *Agriculture Ecosystems & Environment* 120: 269-279.

HYNŠT J., BRŮČEK P., ŠIMEK M., 2007. Nitrous oxide emissions from cattle-impacted pasture soil amended with nitrate and glucose. *Biology & Fertility of Soils* 43: 853-859.

HYPŠA V., KRÍŽEK J., 2007. Molecular evidence for polyphyletic origin of the primary symbionts of sucking lice (Phthiraptera, Anoplura). *Microbial Ecology* 54: 242-251.

CHANEVA G., FURNADZHIEVA S., MINKOVA K., **LUKAVSKÝ J., 2007.** Effect of light and temperature on the cyanobacterium *Arthonema africanum* - a prospective phycobiliproteins-producing strain. *Journal of Applied Phycology* 19: 537-544.

JANEČEK Š., HRÁZSKÝ Z., BARTOŠ M., BROM J., REIF J., HOŘÁK D., BYSTRICKÁ D., RIEGERT J., SEDLÁČEK O., PEŠATA M., 2007. Importance of big pollinators for the reproduction of two *Hypericum* species in Cameroon, West Africa. *African Journal of Ecology* 45: 607-613.

JANEČEK Š., JANEČKOVÁ P., LEPŠ J., 2007. Effect of competition and soil quality on root topography of the perennial grass *Molinia caerulea*. *Preslia* 79: 23-32.

JELÍNEK J., SALÁT J., KOPECKÝ J., SAK B., 2007. Effects of interferon gamma and specific polyclonal antibody on the infection of murine peritoneal macrophages and murine macrophage cell line PMJ2-R with *Encephalitozoon cuniculi*. *Folia Parasitologica* 54: 172-176.

JERSÁKOVÁ J., JOHNSON S.D., 2007. Protandry promotes male pollination success in a moth-pollinated orchid. *Functional Ecology* 21: 496-504.

JERSÁKOVÁ J., MALINOVÁ T., 2007. Spatial aspects of seed dispersal and seedling recruitment in orchids. *New Phytologist* 176: 237-241.

JEZBEROVÁ J., KOMÁRKOVÁ J., 2007. Morphological transformation in a freshwater *Cyanobium* sp. induced by grazers. *Environmental Microbiology* 9: 1858-1862.

JEZBEROVÁ J., KOMÁRKOVÁ J., 2007. Morphometry and growth of three *Synechococcus*-like picoplanktic cyanobacteria at different culture conditions. *Hydrobiologia* 578: 17-27.

JIRKŮ M., FIALA I., MODRÝ D., 2007. Tracing the genus *Sphaerospora*: rediscovery, redescription and phylogeny of the *Sphaerospora ranae* (Morelle, 1929) n. comb. (*Myxosporea*, *Sphaerosporidae*), with emendation of the genus *Sphaerospora*. *Parasitology* 134: 1727-1739.

JIROUTOVÁ K., HORÁK A., BOWLER C., OBORNÍK M., 2007. Tryptophan biosynthesis in stramenopiles: Eukaryotic winners in the diatom complex chloroplast. *Journal of Molecular Evolution* 65: 496-511.

JONÁŠOVÁ M., MATĚJKOVÁ I., 2007. Natural regeneration and vegetation changes in wet spruce forests after natural and artificial disturbances. *Canadian Journal of Forest Research – Revue Canadienne de Recherche Forestiere* 37: 1907-1914.

JŮZA T., KUBEČKA J., 2007. The efficiency of three fry trawls for sampling the freshwater pelagic fry community. *Fisheries Research* 85: 285-290.

KALINOVÁ J., VRCHOTOVÁ N., TRÍSKA J., 2007. Exudation of allelopathic substances in buckwheat (*Fagopyrum esculentum* Moench). *Journal of Agricultural & Food Chemistry* 55: 6453-6459.

KALOUS L., ŠLECHTOVÁ V., BOHLEN J., PETRTÝL M., ŠVÁTORA M., 2007. First European record of *Carassius langsdorfii* from the Elbe basin. *Journal of Fish Biology* 70: 132-138.

KAŠIČKOVÁ D., SAK B., KVÁČ M., DITRICH O., 2007. Detection of *Encephalitozoon cuniculi* in a new host - cockateel (*Nymphicus hollandicus*) using molecular methods. *Parasitology Research* 101: 1685-1688.

KAŠTOVSKÁ E., ŠANTRŮČKOVÁ H., 2007. Fate and dynamics of recently fixed C in pasture plant-soil system under field conditions. *Plant & Soil* 300: 61-69.

KAŠTOVSKÁ K., STIBAL M., ŠABACKÁ M., ČERNÁ B., ŠANTRŮČKOVÁ H., ELSTER J., 2007. Microbial community structure and ecology of subglacial sediments in two polythermal Svalbard glaciers characterized by epifluorescence microscopy and PLFA. *Polar Biology* 30: 277-287.

KINDLMANN P., HULLÉ M., STADLER B., 2007. Timing of dispersal: effect of ants on aphids. *Oecologia* 152: 625-631.

KINDLMANN P., JAROŠÍK V., DIXON A.F.G., 2007. *Population Dynamics*. In: van Emden H., Harrington R. (eds): *Aphids as crop pests*, pp. 311-329. CABI, Oxford.

KINDLMANN P., SCHÖDELBAUEROVÁ I., DIXON A.F.G., 2007. *Inverse latitudinal gradients in species diversity*. In: Storch D. (ed.): *Scaling Biodiversity*, pp. 246-257. Cambridge University Press, Cambridge.

KLIMEŠOVÁ J., SOSNOVÁ M., MARTÍNKOVÁ J., 2007. Life-history variation in the short-lived herb *Rorippa palustris*: effect of germination date and injury timing. *Plant Ecology* 189: 237-246.

- KÖCKINGER H., KUČERA J., 2007. *Barbula amplexifolia* (Mitt.) A. Jaeger in Europe. *Journal of Bryology* 29: 33-40.
- KODRÍK D., KRISHNAN N., HABUŠTOVÁ O., 2007. Is the titer of adipokinetic peptides in *Leptinotarsa decemlineata* fed on genetically modified potatoes increased by oxidative stress? *Peptides* 28: 974-980.
- KOMÁREK J., KOMÁRKOVÁ-LEGNEROVÁ J., 2007. Taxonomic evaluation of cyanobacterial microflora from alkaline marshes of northern Belize. 1. Phenotypic diversity of coccoid morphotypes. *Nova Hedwigia* 84: 65-111.
- KOMÁREK J., NEDBALOVÁ L., 2007. *Green cryosestic algae*. In: Seckbach J. (ed.): *Algae and Cyanobacteria in Extreme Environments*, pp. 321-342. Springer, Berlin, Heidelberg, New York.
- KONOPOVÁ B., JINDRA M., 2007. Juvenile hormone resistance gene Methoprene-tolerant controls entry into metamorphosis in the beetle *Tribolium castaneum*. *Proceedings of The National Academy of Sciences of The United States of America* 104: 10488-10493.
- KOPÁČEK J., MAREŠOVÁ M., HEJZLAR J., NORTON S.A., 2007. Natural inactivation of phosphorus by aluminum in preindustrial lake sediments. *Limnology & Oceanography* 52: 1147-1155.
- KOPÁČEK J., TUREK J., HEJZLAR J., KAŇA J., PORCAL P., 2007. Element fluxes in watershed-lake ecosystems recovering from acidification: Čertovo Lake, the Bohemian Forest, 2001-2005. *Biologia* 61: 413-426.
- KOPÁČEK J., TUREK J., HEJZLAR J., KAŇA J., PORCAL P., 2007. Element fluxes in watershed-lake ecosystems recovering from acidification: Plešné Lake, the Bohemian Forest, 2001-2005 *Biologia* 61: 427-440.
- KORTAN D., ADÁMEK Z., POLÁKOVÁ S., 2007. Winter predation by otter, *Lutra lutra* on carp pond systems in South Bohemia (Czech Republic). *Folia Zoologica* 56(4): 416-428.
- KOŠTÁL V., RENAULT D., MEHRABIANOVÁ A., BASTL J., 2007. Insect cold tolerance and repair of chill-injury at fluctuating thermal regimes: Role of ion homeostasis. *Comparative Biochemistry & Physiology A – Molecular & Integrative Physiology* 147: 231-238.
- KOUT J., VLASÁK J., 2007. *Trametes gibbosa* (Basidiomycetes, Polyporales) in the USA and Canada. *Canadian Journal of Botany – Revue Canadienne de Botanique* 85: 342-346.
- KOUTECKÝ P., 2007. Morphological and ploidy level variation of *Centaurea phrygia* AGG. (Asteraceae) in the Czech Republic, Slovakia and Ukraine. *Folia Geobotanica* 42: 77-102.
- KRISHNAN N., KODRÍK D., TURANLI F., SEHNAL F., 2007. Stage-specific distribution of oxidative radicals and antioxidant enzymes in the midgut of *Leptinotarsa decemlineata*. *Journal of Insect Physiology* 53: 67-74.
- KRISHNAN N., VEČERA J., KODRÍK D., SEHNAL F., 2007. 20-hydroxyecdysone prevents oxidative stress damage in adult *Pyrrhocoris aiterus*. *Archives of Insect Biochemistry & Physiology* 65: 114-124.
- KUBÁSEK J., ŠETLÍK J., DWYER S., ŠANTRŮČEK J., 2007. Light and growth temperature alter carbon isotope discrimination and estimated bundle sheath leakiness in C4 grasses and dicots. *Photosynthesis Research* 91: 47-58.
- KUCHTA R., VLČKOVÁ R., PODDUBNAYA L., GUSTINELLI A., DZIKA E., SCHOLZ T., 2007. Invalidity of three Palaearctic species of *Triaenophorus* tapeworms (Cestoda: Pseudophyllidea): evidence from morphometric analysis of scolex hooks. *Folia Parasitologica* 54: 34-42.
- KÜPPER H., PARAMESWARAN A., LEITENMAIER B., TRTÍLEK M., ŠETLÍK I., 2007. Cadmium-induced inhibition of photosynthesis and long-term acclimation to cadmium stress in the hyperaccumulator *Thlaspi caerulescens*. *New Phytologist* 175: 655-674.

KVÁČ M., ONDRÁČKOVÁ Z., KVĚTOŇOVÁ D., SAK B., VÍTOVEC J., 2007. Infectivity and pathogenicity of *Cryptosporidium andersoni* to a novel host, southern multimammate mouse (*Mastomys coucha*). *Veterinary Parasitology* 143: 229-233.

KVÁČ M., KVĚTOŇOVÁ D., SALÁT J., DITRICH O., 2007. Viability staining and animal infectivity of *Cryptosporidium andersoni* oocysts after long-term storage. *Parasitology Research* 100: 213-217.

KVIČEROVÁ J., PTÁČKOVÁ P., MODRÝ D., 2007. Endogenous development, pathogenicity and host specificity of *Eimeria cahirinensis* Couch, Blaustein, Duszynski, Shenbrot and Nevo, 1997 (Apicomplexa: Eimeriidae) from *Acomys dimidiatus* (Cretzschmar 1826) (Rodentia: Muridae) from the Near East. *Parasitology Research* 100: 219-226.

LANTA V., LEPŠ J., 2007. Effect of species and functional group richness on production in two fertility environments: an experiment with communities of perennial plants. *Acta Oecologica – International Journal of Ecology* 32: 93-103.

LEPŠ J., DOLEŽAL J., BEZEMER T.M., BROWN V.K., HEDLUND K., IGUAL A.M., JORGENSEN H.B., LAWSON C.S., MORTIMER S.R., PEIX G.A., RODRÍGUEZ B.C., SANTA R.I., ŠMILAUER P., VAN DER PUTTEN W.H., 2007. Long-term effectiveness of sowing high and low diversity seed mixtures to enhance plant community development on ex-arable fields in five European countries. *Applied Vegetation Science* 10: 97-110.

LEPŠ J., ŠMILAUER P., 2007. Subjectively sampled vegetation data: Don't throw out the baby with the bath water. *Folia Geobotanica* 42: 169-178.

LEVRON C., PODDUBNAYA L.G., KUČHTA R., FREEMAN M., SCHOLZ T., 2007. Vitellogenesis and vitelline system in the pseudophyllidean tapeworm *Paraechinophallus japonicus*: ultrastructural and cytochemical studies. *Folia Parasitologica* 54: 43-50.

LUKEŠ J., MAURICIO I.L., SCHONIAN G., DUJARDIN J.-C., SOTERIADOU K., DEDET J.-P., KUHL S.K., QUISPE TINTAYA K.W., JIRKŮ M., CHOCHOLOVÁ E., HARALAMBOUS C., PRATLONG F., OBORNÍK M., HORÁK A., AYALA F.J., MILES M.A., 2007. Evolutionary and geographical history of the *Leishmania donovani* complex with a revision of current taxonomy. *Proceedings of The National Academy of Sciences of The United States of America* 104: 9375-9380.

MACEK P., REJMÁNKOVÁ E., 2007. Response of emergent macrophytes to experimental nutrient and salinity additions. *Functional Ecology* 21: 478-488.

MACEL M., LAWSON C.S., MORTIMER S.R., ŠMILAUEROVÁ M., BISHOFF A., CREMIEUX L., DOLEŽAL J., EDWARDS A.R., LANTA V., BEZEMER M., VAN DER PUTTEN W., IGUAL J.M., RODRIGUEZ-BARRUECO C., MÜLLER-SCHARER H., STEINGER T., 2007. Climate vs. soil factors in local adaptation of two common plant species. *Ecology* 88: 424-433.

MACHÁČEK J., SEĎA J., 2007. Life history response of *Daphnia galeata* to heterogeneous conditions within a reservoir as determined in a cross-designed laboratory experiment. *Aquatic Ecology* 41: 55-66.

MACHOLÁN M., MUNCLINGER P., ŠUGERKOVÁ M., DUFKOVÁ P., BÍMOVÁ B., BOŽÍKOVÁ E., ZIMA J., PIÁLEK J., 2007. Genetic analysis of autosomal and X-linked markers across a mouse hybrid zone. *Evolution* 61: 746-771.

MAREC F., NEVEN L.G., FUKOVÁ I., 2007. *Developing transgenic sexing strains for the release of non-transgenic sterile male codling moths *Cydia pomonella**. In: Vreysen M.J.B., Robinson A.S., Hendrichs J. (eds): *Area-Wide Control of Insect Pests. From Research to Field Implementation*, pp. 103-111. Springer, Dordrecht.

MATOUŠEK J., KOCÁBEK T., PATZAK J., ŠKOPEK J., MALOUKH L., HEYERICK A., FUSSY Z., ROLDAN-RUIZ I., DE KEUKELEIRE D., 2007. HIMy3, a putative regulatory factor in hop (*Humulus lupulus* L.), shows diverse biological effects in heterologous transgenotes. *Journal of Agricultural & Food Chemistry* 55: 7767-7776.

MATOUŠEK J., KOZLOVÁ P., ORCTOVÁ L., SCHMITZ A., PEŠINA K., BANNACH O., DIERMANN N., STEGER G., RIESNER D., 2007. Accumulation of viroid-specific small RNAs and increase in nucleolytic activities linked to viroid-caused pathogenesis. *Biological Chemistry* 388: 1-13.

MATOUŠEK J., ORCTOVÁ L., PTÁČEK J., PATZAK J., DĚDIČ P., STEGER G., RIESNER D., 2007. Experimental transmission of pospiviroid populations to weed species characteristic of potato and hop fields. *Journal of Virology* 81: 11891-11899.

MORAVEC F., MODRÝ D., JIRKŮ M., 2007. A new species of *Paracapillaria* (Nematoda: Capillariidae) from the intestine of the toad *Duttaphrynus melanostictus* (Anura) from the Malayan Peninsula. *Journal of Parasitology* 93: 907-909.

MOSINIEWICZ-SZABLEWSKA E., ŠAFAŘÍKOVÁ M., ŠAFAŘÍK I., 2007. Magnetic studies of ferrofluid-modified spruce sawdust. *Journal of Physics D – Applied Physics* 40: 6490-6496.

NEDOMA J., VAN WAMBEKE F., ŠTROJSOVÁ A., ŠTROJSOVÁ M., DUHAMEL S., 2007. Affinity of extracellular phosphatases for ELF97 phosphate in aquatic environments. *Marine & Freshwater Research* 58: 454-460.

NOVÁKOVÁ E., HYPŠA V., 2007. A new *Sodalis* lineage from bloodsucking fly *Craterina melbae* (Diptera, Hippoboscoidea) originated independently of the tsetse flies symbiont *Sodalis glossinidius*. *FEMS Microbiology Letters* 269: 131-135.

NOVOBILSKÝ A., HORÁČKOVÁ E., HIRTOVÁ L., MODRÝ D., KOUDELA B., 2007. The giant liver fluke *Fascioloides magna* (Bassi 1875) in cervids in the Czech Republic and potential of its spreading to Germany. *Parasitology Research* 100: 549-553.

NOVOTNÝ V., MILLER S.E., HULCR J., DREW R.A.I., BASSET Y., JANDA M., SETLIFF G.P., DARROW K., STEWART A.J.A., AUGA J., ISUA B., MOLEM K., MANUMBOR M., TAMTIAI E., MOGIA M., WEIBLEN G.D., 2007. Low beta diversity of herbivorous insects in tropical forests. *Nature* 448: 692-695.

PECH P., FRIC Z., KONVIČKA M., 2007. Species-specificity of the *Phengaris* (Maculinea) - *Myrmica* host system: Fact or Myth? (Lepidoptera: Lycaenidae; Hymenoptera: Formicidae). *Sociobiology* 50: 983-1004.

PÉREZ G.O.C., ŘÍČAN O., ORTÍ G., BERMINGHAM E., DOADRIO I., ZARDOYA R., 2007. Phylogeny and biogeography of 91 species of heroine cichlids (Teleostei:Cichlidae) based on consequences of the cytochrome *b* gene. *Molecular Phylogenetics & Evolution* 43: 91-110.

PETRUSKOVÁ T., PETRUSEK A., PAVEL V., FUCHS R., 2007. Territorial meadow pipit males (*Anthus pratensis*; Passeriformes) become more aggressive in female presence. *Naturwissenschaften* 94: 643-650.

PICEK T., ČÍŽKOVÁ H., DUŠEK J., 2007. Greenhouse gas emissions from a constructed wetland - Plants as important sources of carbon. *Ecological Engineering* 31: 98-106.

PODDUBNAYA L.G., SCHOLZ T., KUČHTA R., LEVRON C., BRUŇANSKÁ M., 2007. Ultrastructure of the proglottid tegument (neodermis) of the cestode *Echinophallus wagneri* (Pseudophyllidea: Echinophallidae), a parasite of the bathypelagic fish *Centrolophus niger*. *Parasitology Research* 101: 373-383.

PODDUBNAYA L.G., SCHOLZ T., LEVRON C., KUČHTA R., GIBSON D.I., 2007. Frontal glands in the pseudoscolex of *Paraechinophallus japonicus* (Yamaguti, 1934) (Cestoda, Bothriocephalidea, Echinophallidae). *Acta Parasitologica* 52: 325-334.

POLLET M.A.A., HULCR J., 2007. The updated check list of Dolichopodidae (Diptera) of the Czech Republic and Slovakia: Background information, data and considerations. *Biologia* 62: 470-476.

POSCH T., MINDL B., HORŇÁK K., JEZBERA J., SALCHER M.M., SATTLER B., SONNTAG B., VRBA J., ŠIMEK K., 2007. Biomass reallocation within freshwater bacterioplankton induced by manipulating phosphorus availability and grazing. *Aquatic Microbial Ecology* 49: 223-232.

PRACH K., LEPŠ J., REJMÁNEK M., 2007. *Old field succession in central Europe: local and regional patterns.* In: Cramer V.A., Hobbs R.J. (eds): *Old fields: Dynamics and restoration of abandoned farmland*, pp. 180-201. Island Press, Washington.

PRACH K., MARS R., PYŠEK P., VAN DIGGELEN R., 2007. *Manipulation of succession.* In: Walker L.R., Walker J., Hobbs R.J. (eds): *Linking restoration and ecological succession*, pp. 121-149. Springer, Berlin, Heidelberg, New York.

PRACH K., PYŠEK P., JAROŠÍK V., 2007. Climate and pH as determinants of vegetation succession in Central-European human-made habitats. *Journal of Vegetation Science* 18: 701-710.

PŘEDOTA M., VLČEK L., 2007. Comment on parts 1 and 2 of the series "Electric double layer at the rutile (110) surface". *Journal of Physical Chemistry B* 111: 1245-1247.

PŮŽA V., MRÁČEK Z., 2007. Natural population dynamics of entomopathogenic nematode *Steinernema affine* (Steinernematidae) under dry conditions: Possible nematode persistence within host cadavers? *Journal of Invertebrate Pathology* 96: 89-92.

RADL V., GATTINGER A., CHROŇÁKOVÁ A., NĚMCOVÁ A., ČUHEL J., ŠIMEK M., SCHLOTTER M., ELHOTTOVÁ D., 2007. Effects of cattle husbandry on abundance and activity of methanogenic archaea in upland soils. *ISME Journal* 1: 443-452.

REIF J., SEDLÁČEK O., HOŘÁK D., RIEGERT J., PEŠATA M., HRÁZSKÝ Z., JANEČEK Š., 2007. Habitat preferences of birds in a montane forest mosaic in the Bamenda Highlands, Cameroon. *Ostrich* 78: 31-36.

REJMÁNKOVÁ E., SIROVÁ D., 2007. Wetland macrophyte decomposition under different nutrient conditions: Relationships between decomposition rate, enzyme activities and microbial biomass. *Soil Biology & Biochemistry* 39: 526-538.

RICO A., KINDLMANN P., SEDLÁČEK F., 2007. Barrier effects of roads on movements of small mammals. *Folia Zoologica* 56: 1-12.

RICO A., KINDLMANN P., SEDLÁČEK F., 2007. Road crossing in bank voles and yellow-necked mice. *Acta Theriologica* 52: 85-94.

RIEGERT J., FAISOVÁ D., MIKEŠ V., FUCHS R., 2007. How urban kestrels *Falco tinnunculus* divide their hunting grounds: Partitioning or cohabitation? *Acta Ornithologica* 42: 69-76.

RIEGERT J., DUFEK A., FAISOVÁ D., MIKEŠ V., FUCHS R., 2007. Increased hunting effort buffers vole scarcity in an urban kestrel *Falco tinnunculus* population. *Bird Study* 54: 353-361.

ROY J., FAKTOROVÁ D., BENADA O., LUKEŠ J., BURGER G., 2007. Description of *Rhynchopus euleeides* n. sp. (Diplonemea), a free-living, marine euglenozoan. *Journal of Eukaryotic Microbiology* 54: 137-145.

ROY J., FAKTOROVÁ D., LUKEŠ J., BURGER G., 2007. Unusual mitochondrial genome structures throughout the Euglenozoa. *Protist* 158: 385-396.

RUDENKO N., GOLOVCHENKO M., GRUBHOFFER L., 2007. Gene organization of a novel defensin of *Ixodes ricinus*: first annotation of an intron/exon structure in a hard tick defensin gene and first evidence of the occurrence of two isoforms of one member of the arthropod defensin family. *Insect Molecular Biology* 16: 501-507.

RŮŽEK D., PISKUNOVÁ D., ŽAMPACHOVÁ E., 2007. High variability in viral load in cerebrospinal fluid from patients with herpes simplex and varicella-zoster infections of the central nervous system. *Clinical Microbiology and Infection* 13: 1217-1219.

RŮŽEK D., ŠTASTNÁ H., KOPECKÝ J., GOLOVJOVA I., GRUBHOFFER L., 2007. Rapid subtyping of tick-borne encephalitis virus isolates using multiplex RT-PCR. *Journal of Virological Methods* 144: 133-137.

- ŘIČÁNKOVÁ V., ŠUMBERA R., SEDLÁČEK F.**, 2007. Familiarity and partner preferences in female common voles, *Microtus arvalis*. *Journal of Ethology* 25: 95-98.
- SAHARA K., YOSHIDO A., **MAREC F., FUKOVÁ I., ZHANG B.H., WU C.C., GOLDSMITH M.R., YASUKOCHI Y.**, 2007. Conserved synteny of genes between chromosome 15 of *Bombyx mori* and a chromosome of *Manduca sexta* shown by five-color BAC-FISH. *Genome* 50: 1061-1065.
- SALCHER M.M., HOFER J., HORŇÁK K., JEZBERA J., SONNTAG B., **VRBA J., ŠIMEK K., POSCH T.**, 2007. Modulation of microbial predator-prey dynamics by phosphorus availability: Growth patterns and survival strategies of bacterial phylogenetic clades. *FEMS Microbiology Ecology* 60: 40-50.
- SEĎA J., KOLÁŘOVÁ K., PETRUSEK A., MACHÁČEK J.**, 2007. *Daphnia galeata* in the deep hypolimnion: spatial differentiation of a typical epilimnetic species. *Hydrobiologia* 594: 47-57.
- SEĎA J., PETRUSEK A., MACHÁČEK J., ŠMILAUER P.**, 2007. Spatial distribution of the *Daphnia longispina* species complex and other planktonic crustaceans in the heterogeneous environment of canyon-shaped reservoirs. *Journal of Plankton Research* 29: 619-628.
- SEDLÁČEK F.**, 2007. *Adaptive physiological mechanisms in the underground dwellers*. In: Begall S., Burda H., Schleich C.E. (eds): *Subterranean Rodents: News from underground*, pp. 13-19. Springer, Berlin, Heidelberg, New York.
- SEDLÁČEK F.**, 2007. *New data on metabolic parameters in subterranean rodents*. In: Begall S., Burda H., Schleich C.E. (eds): *Subterranean Rodents: News from underground*, pp. 35-47. Springer, Berlin, Heidelberg, New York.
- SEDLÁČEK O., **FUCHS R., EXNEROVÁ A.**, 2007. Differences in the nestling diets of sympatric Redstarts *Phoenicurus phoenicurus* and Black Redstarts *P. ochruros*: Species-specific preferences or responses to food supply? *Acta Ornithologica* 42: 99-106.
- SEHADOVÁ H., SHAO Q.M., **SEHNAL F., TAKEDA M.**, 2007. Neurohormones as putative circadian clock output signals in the central nervous system of two cricket species. *Cell & Tissue Research*: 328: 239-255.
- SCHOLZ T., HANZELOVÁ V., ŠKEŘÍKOVÁ A., SHIMAZU T., ROLBIECKI L.**, 2007. An annotated list of species of the *Proteocephalus* Weinland, 1858 aggregate sensu de Chambrier et al. (2004) (Cestoda: Proteocephalidea), parasites of fishes in the Palaearctic Region, their phylogenetic relationships and a key to their identification. *Systematic Parasitology* 67: 139-156.
- SINGH S.M., ELSTER J.**, 2007. *Cyanobacteria in antarctic lake environment: An mini-review*. In: Seckbach J. (ed.): *Algae and cyanobacteria in extreme environments*, pp. 302-320. Kluwer Academic Publishers, the Netherlands.
- SCHLEICH C.E., VEITL S., KNOTKOVÁ E., BEGALL S.**, 2007. *Acoustic communication in subterranean rodents*. In: Begall S., Burda H., Schleich C.E. (eds): *Subterranean rodents: News from underground*, pp. 221-236. Springer, Berlin, Heidelberg, New York.
- SOCHA R., **KODRÍK D., ZEMEK R.**, 2007. Crustacean red pigment-concentrating hormone Panbo-RPCH affects lipid mobilization and walking activity in a flightless bug *Pyrrhocoris apterus* (L.) (Heteroptera) similarly to its own AKH-peptides. *European Journal of Entomology* 104: 685-691
- SOJKA D., HAJDUŠEK O., DVOŘÁK J., SAJID M., FRANTA Z., SCHNEIDER E.L., CRAIK C.S., VANCOVÁ M., BUREŠOVÁ V., BOGYO M., SEXTON K.B., MCKERROW J.H., CAFFREY C.R., KOPÁČEK P.**, 2007. IrAE – An asparaginyl endopeptidase (legumain) in the gut of the hard tick *Ixodes ricinus*. *International Journal for Parasitology* 37: 713-724.
- STIBAL M., ELSTER J., ŠABACKÁ M., KAŠTOVSKÁ K.**, 2007. Seasonal and diel changes in photosynthetic activity of the snow alga *Chlamydomonas nivalis* (Chlorophyceae) from Svalbard determined by pulse amplitude modulation fluorometry. *FEMS Microbiology Ecology* 59: 265-273.

SVOBODOVÁ M., ZÍDKOVÁ L., ČEPIČKA I., **OBORNÍK M.**, **LUKEŠ J.**, VOTÝPKA J., 2007. *Sergeia podlipaevi* gen. nov., sp. nov. (Trypanosomatidae, Kinetoplastida), a parasite of biting midges (Ceratopogonidae, Diptera). *International Journal of Systematic & Evolutionary Microbiology* 57: 423-432.

ŠAFAŘÍK I., LUNACKOVÁ P., MOSINIEWICZ-SZABLEWSKA E., **WEYDA F.**, ŠAFAŘÍKOVÁ M., 2007. Adsorption of water-soluble organic dyes on ferrofluid-modified sawdust. *Holzforchung* 61: 247-253.

ŠAFAŘÍK I., REGO L., BOROVSÁ M., MOSINIEWICZ-SZABLEWSKA E., **WEYDA F.**, ŠAFAŘÍKOVÁ M., 2007. New magnetically responsive yeast-based biosorbent for the efficient removal of water-soluble dyes. *Enzyme & Microbial Technology* 40: 1551-1556.

ŠAFAŘÍK I., SABATKOVÁ Z., TOKAR O., ŠAFAŘÍKOVÁ M., 2007. Magnetic cation exchange isolation of lysozyme from native hen egg white. *Food Technology & Biotechnology* 45: 355-359.

ŠANTRŮČEK J., KVĚTOŇ J., ŠETLÍK J., **BULÍČKOVÁ L.**, 2007. Spatial variation of deuterium enrichment in bulk water of snowgum leaves. *Plant Physiology* 143: 88-97.

ŠANTRŮČKOVÁ H., KRIŠTŮFKOVÁ M., **VANĚK D.**, 2007. Decomposition rate and nutrient release from plant litter of Norway spruce forest in the Bohemian Forest. *Biologia* 61: 499-508.

ŠANTRŮČKOVÁ H., **ŠANTRŮČEK J.**, ŠETLÍK J., SVOBODA M., **KOPÁČEK J.**, 2007. Carbon isotope in tree rings of Norway spruce exposed to atmospheric pollution. *Environmental Science & Technology* 41: 5778-5782.

ŠIKUTOVÁ S., RUDOLF I., **GOLOVCHENKO M.**, **RUDENKO N.**, **GRUBHOFFER L.**, HUBÁLEK Z., 2007. Detection of *Anaplasma* DNA in *Ixodes ricinus* ticks: pitfalls. *Folia Parasitologica* 54: 310-312.

ŠÍMA J., **DIÁKOVÁ K.**, **HOLCOVÁ V.**, 2007. Redox processes of sulfur and manganese in a constructed wetland. *Chemistry & Biodiversity* 4: 2901-2912.

ŠIMEK K., WIENBAUER M.G., HORŇÁK K., JEZBERA J., NEDOMA J., DOLAN J.R., 2007. Grazer and virus-induced mortality of bacterioplankton accelerates development of *Flectobacillus* populations in a freshwater community. *Environmental Microbiology* 9: 789-800.

ŠKALOUDOVÁ B., ZEMEK R., **KŘIVAN V.**, 2007. The effect of predation risk on an acarine system. *Animal Behaviour* 74: 813-821.

ŠKLÍBA J., **ŠUMBERA R.**, CHITAUKALI W., BURDA H., 2007. Determinants of daily activity pattern in a free-living afro-tropical solitary subterranean rodent. *Journal of Mammalogy* 88: 1009-1016.

ŠLECHTOVÁ V., BOHLEN J., TAN H.H., 2007. Families of Cobitoidea (Teleostei; Cypriniformes) as revealed from nuclear genetic data and the position of the mysterious genera *Barbucca*, *Psilorhynchus*, *Serpenticobitis* and *Vaillantella*. *Molecular Phylogenetics & Evolution* 44: 1358-1365.

ŠMILAUEROVÁ M., **ŠMILAUER P.**, 2007. What youngsters say about adults: seedling roots reflect clonal traits of adult plants. *Journal of Ecology* 95: 406-413.

ŠTEFKA J., GILLEARD J.S., GRILLO V., **HYPŠA V.**, 2007. Isolation and characterization of microsatellite loci in the tapeworm *Ligula intestinalis* (Cestoda: Pseudophyllidea). *Molecular Ecology Notes* 7: 794-796.

ŠTECHOVÁ T., **KUČERA J.**, 2007. The requirements of the rare moss, *Hamatocaulis vernicosus* (Calliergonaceae, Musci), in the Czech Republic in relation to vegetation, water chemistry and management. *Biological Conservation* 135: 443-449.

ŠTROJSOVÁ M., **VRBA J.**, 2007. Rotifer digestive enzymes: direct detection using the ELF technique. *Hydrobiologia* 593: 159-165.

ŠUMBERA R., CHITAUKALI W., BURDA H., 2007. *Biology of silvery mole-rat (Heliophobius argenteocinereus). Why study a neglected subterranean rodent species? In: Begall S., Burda H., Schleich C.E. (eds): Subterranean rodents: News from underground, pp. 221-236. Springer, Berlin, Heidelberg, New York.*

- ŠUMBERA R., ZELOVÁ J., KUNC P., KNÍŽKOVÁ I., BURDA H., 2007.** Pattern of surface temperatures in two mole-rats (Bathyergidae) with different social systems as revealed by IR-thermography. *Physiology & Behaviour* 92: 526-532.
- TĚŠITEL J., ŠTECH M., 2007.** Morphological variation in *Melampyrum sylvaticum* group within the transitional zone between *Melampyrum sylvaticum* L. s. str. and *Melampyrum herbichii* Woł. *Preslia* 79: 83-99.
- TRANTÍREK L., CAHA E., KADERÁVEK P., FIALA R., 2007.** NMR (13)C-relaxation study of base and sugar dynamics in GCAA RNA hairpin tetraloop. *Journal of Biomolecular Structure & Dynamics* 25: 243-252.
- TRAUT W., SZCZEPANOWSKI M., VÍTKOVÁ M., OPITZ C., MAREC F., ZRZAVÝ J., 2007.** The telomere repeat motif of basal Metazoa. *Chromosome Research* 15: 371-382.
- TRYJANOWSKI P., ANTCZAK M., HROMADA M., 2007.** More secluded places for extra-pair copulations in the great grey shrike *Lanius excubitor*. *Behaviour* 144: 23-31.
- UHLÍŘOVÁ E., ŠANTRŮČKOVÁ H., DAVIDOV S.P., 2007.** Quality and potential biodegradability of soil organic matter preserved in permafrost of Siberian tussock tundra. *Soil Biology & Biochemistry* 39: 1978-1989.
- VAN ELSAS J.D., HILL P., CHROŇÁKOVÁ A., GREKOVA M., TOPALOVA Y., ELHOTTOVÁ D., KRIŠTŮFEK V., 2007.** Survival of genetically marked *Escherichia coli* O157:H7 in soil as affected by soil microbial community shifts. *ISME Journal* 1: 204-214.
- VÁVRA J., BECNEL J.J., 2007.** *Vavraia culicis* (Weiser, 1947) Weiser, 1977 revisited: cytological characterisation of a *Vavraia culicis*-like microsporidium isolated from mosquitoes in Florida and the establishment of *Vavraia culicis floridensis* subsp. n. *Folia Parasitologica* 54: 259-271.
- VEČERA J., KRISHNAN N., ALQUICER G., KODRÍK D., SOCHA R., 2007.** Adipokinetic hormone-induced enhancement of antioxidant capacity of *Pyrrhocoris apterus* hemolymph in response to oxidative stress. *Comparative Biochemistry & Physiology C – Toxicology & Pharmacology* 146: 336-342.
- VÍTKOVÁ M., FUKOVÁ I., KUBÍČKOVÁ S., MAREC F., 2007.** Molecular divergence of the W chromosomes in pyralid moths (Lepidoptera). *Chromosome Research* 15: 917-930.
- VONDRÁK J., KOCOURKOVÁ J., PALICE Z., LIŠKA J., 2007.** New and noteworthy lichens in the Czech Republic - genus *Caloplaca*. *Preslia* 79: 163-184.
- VONDRÁK J., ŠOUN J., 2007.** *Lichenostigma svandae*, a new lichenicolous fungus on *Acarospora cervina*. *Lichenologist* 39: 211-216.
- VREDENBERG W., DURCHAN M., PRÁŠIL O., 2007.** On the chlorophyll a fluorescence yield in chloroplasts upon excitation with twin turnover flashes (TTF) and high frequency flash trains. *Photosynthesis Research* 93: 183-192.
- WEINBAUER M.G., HORŇÁK K., JEZBERA J., NEDOMA J., DOLAN J.R., ŠIMEK K., 2007.** Synergistic and antagonistic effects of viral lysis and protistan grazing on bacterial biomass, production and diversity. *Environmental Microbiology* 9: 777-788.
- WOTAVOVÁ-NOVOTNÁ K., VEJSADOVÁ H., KINDLMANN P., 2007.** Effects of sugars and growth regulators on in vitro growth of *Dactylorhiza* species. *Biologia Plantarum* 51: 198-200.
- ZAHRÁDKOVÁ S., SOLDÁN T., 2007.** *Ecological indicators: Saprobic system*. In: Harfield S. (ed.): *Encyclopedia of Ecology*, pp. 482-486. Elsevier B.V., Oxford.
- ZAMUDIO J.R., MITTRA B., FOLDYNOVÁ-TRANTÍRKOVÁ S., ZEINER G.M., LUKEŠ J., BUJNICKI J.M., STURM N.R., CAMPBELL D.A., 2007.** The 2'-O-ribose methyltransferase for cap 1 of spliced leader RNA and U1 small nuclear RNA in *Trypanosoma brucei*. *Molecular & Cellular Biology* 27: 6084-6092.

ZAPOMĚLOVÁ E., ŘEHÁKOVÁ K., ZNACHOR P., KOMÁRKOVÁ J., 2007. Morphological diversity of coiled planktonic types of the genus *Anabaena* (cyanobacteria) in natural populations – taxonomic consequences. *Cryptogamie Algologie* 28 (4): 353-371.

ZELENÝ D., CHYTRÝ M., 2007. Environmental control of the vegetation pattern in deep river valleys of the Bohemian Massif. *Preslia* 79: 205-222.

ZELOVÁ J., ŠUMBERA R., SEDLÁČEK F., BURDA H., 2007. Energetics in a solitary subterranean rodent, the silvery mole-rat, *Heliophobius argenteocinereus*, and allometry of RMR in African mole-rats (Bathyergidae). *Comparative Biochemistry & Physiology A – Molecular and Integrative Physiology* 147: 412-419.

ZEMANOVÁ E., JIRKŮ M., MAURICIO I.L., HORÁK A., MILES M.A., LUKEŠ J., 2007. The *Leishmania donovani* complex: Genotypes of five metabolic enzymes (ICD, ME, MPI, G6PDH and FH), new targets for multilocus sequence typing. *International Journal for Parasitology* 37: 149-160.