

# Publikace zaměstnanců a studentů PřF JU v roce 2009

Jsou uvedeny pouze články ve vědeckých časopisech s IF (celkem 181 prací), a dále (*kurzívou*) knihy a kapitoly v knihách zahraničních nakladatelů včetně editorství knih a publikací na CD a www (celkem 6 prací).

**Pracovníci a studenti PřF zaměstnaní či studující na PřF v roce 2009 jsou uvedeni tučně.**

(\* Vědecké časopisy čekající na přidělení IF)

1. ADDICO G.N.D., HARDEGE J.D., **KOMÁREK J.**, DEGRAFT-JOHNSON K.A.A., 2009. Cyanobacterial diversity and biomass in relation to nutrient regime of four freshwater reservoirs sourced for the production of drinking water in Ghana. *Archiv für Hydrobiologie / Algological Studies* 130: 81-108.
2. AHANTARIG A., **RŮŽEK D.**, VANCOVÁ M., JANOWITZ A., **ŠTASTNÁ H.**, **TESAŘOVÁ M.**, **GRUBHOFFER L.**, 2009. Tick-borne encephalitis virus infection of cultured mouse macrophages. *Intervirology* 52: 283-290.
3. **ALQUICER G.**, **KODRÍK D.**, KRISHNAN N., **VEČEŘA J.**, SOCHA R., 2009. Activation of insect anti-oxidative mechanisms by mammalian glucagon. *Comparative Biochemistry and Physiology B* 152: 226-233.
4. BARČIOVÁ L., **ŠUMBERA R.**, BURDA H., 2009. Variation in the digging apparatus of the subterranean silvery mole-rat, *Heliophobius argenteocinereus* (Rodentia, Bathyergidae): the role of ecology and geography. *Biological Journal of the Linnean Society* 97: 822-831.
5. **BARTOŠOVÁ P.**, **FIALA I.**, **HYPŠA V.**, 2009. Concatenated SSU and LSU rDNA data confirm the main evolutionary trends within myxosporeans (Myxozoa: Myxosporea) and provide effective tool for their molecular phylogenetics. *Molecular Phylogenetics and Evolution* 53: 81-93.
6. BAŞNOU C., PINO J., **ŠMILAUER P.**, 2009. Effect of grazing on grasslands in the Western Romanian Carpathians. *Preslia* 81: 91-104.
7. **BASTL M.**, **ŠTECHOVÁ T.**, **PRACH K.**, 2009. Effect of disturbance on the vegetation of peat bogs with *Pinus rotundata* in the Třeboň Basin, Czech Republic. *Preslia* 81: 105-117.
8. BELL-SAKYI L., **RŮŽEK D.**, GOULD E., 2009. Cell lines from the soft tick *Ornithodoros moubata*. *Experimental and Applied Acarology* 49: 209-219.
9. **BEŠTA T.**, ŠAFRÁNKOVÁ J., POUZAR M., NOVÁK J., NOVÁKOVÁ K., 2009. Late Pleistocene–early Holocene transition recorded in the sediments of a former shallow lake in the Czech Republic. *Hydrobiologia* 631: 107-120.
10. **BÍNA D.**, LITVÍN R., **VÁCHA F.**, 2009. Kinetics of in vivo bacteriochlorophyll fluorescence yield and the state of photosynthetic apparatus of purple bacteria. *Photosynthesis Research* 99: 115-125.
11. BOMBAROVÁ M., **VÍTKOVÁ M.**, ŠPAKULOVÁ M., KOUBKOVÁ B., 2009. Telomere analysis of platyhelminths and acanthocephalans by FISH and Southern hybridization. *Genome* 525: 897-903.

12. BOMFLEUR B., KRINGS M., **KAŠTOVSKÝ J.**, KERP H., 2009. An enigmatic non-marine thalloid organism from the Triassic of East Antarctica. Review of Palaeobotany and Palynology 157: 317-325.
13. BRESSA M.J., PAPESCHI A.G., **VÍTKOVÁ M.**, KUBÍČKOVÁ S., FUKOVÁ I., PIGOZZI M.I., **MAREC F.**, 2009. Sex chromosome evolution in cotton stainers of the genus *Dysdercus* (Heteroptera: Pyrrhocoridae). Cytogenetic and Genome Research 125: 292-305.
14. BRŮČEK P., **ŠIMEK M.**, HYNŠT J., 2009. Long-term animal impact modifies potential production of N<sub>2</sub>O from pasture soil. Biology and Fertility of Soils 46: 27-36.
15. CAO X., SONG C., ZHOU Y., **ŠTROJSOVÁ A.**, **ZNACHOR P.**, ZAPOMĚLOVÁ E., **VRBA J.**, 2009. Extracellular phosphatases produced by phytoplankton and other sources in shallow eutrophic lakes (Wuhan, China): taxon-specific versus bulk activity. Limnology 10: 95-104.
16. **ČEJKOVÁ A.**, **KOLÁŘ T.**, 2009. Extreme radial growth reaction of Norway Spruce along an altitudinal gradient in the Šumava Mountains. Geochronometria 33: 41-47.
17. **ČERNÁ B.**, REJMÁNKOVÁ E., SNYDER J.S., **ŠANTRŮČKOVÁ H.**, 2009. Heterotrophic nitrogen fixation in oligotrophic tropical marshes: changes after phosphorus addition. Hydrobiologia 627: 55-65.
18. ČERVENÝ V., RYCHLOVSKÝ P., HRANÍČEK J., **ŠÍMA J.**, 2009. Elektrochemické generování těkavých sloučenin pro potřeby spektrálních analytických metod. Chemické listy 103: 652-660.
19. ČTVRTLÍKOVÁ M., **VRBA J.**, **ZNACHOR P.**, HEKERA P., 2009. Effects of aluminium toxicity and low pH on the early development of *Isoëtes echinospora*. Preslia 81: 135-149.
20. DAHL C., **NOVOTNÝ V.**, MORAVEC J., RICHARDS S., 2009. Beta diversity of frogs in the forests of New Guinea, Amazonia and Europe: contrasting tropical and temperate communities. Journal of Biogeography 36: 896-904.
21. DAMMER J., FRALLICCIARDI P., JAKŮBEK J., JAKŮBEK M., POSPÍŠIL S., PERNEROVÁ E., VAVŘÍK D., VOLTER L., **WEYDA F.**, ZEMEK R., 2009. Real-time in-vivo mu-imaging with Medipix2. Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment 607: 205-207.
22. DE BELLO F., BUCHMANN N., CASALS P., **LEPŠ J.**, SEBASTIA M.T., 2009. Relating plant species and functional diversity to community δ<sup>13</sup>C in NE Spain pastures. Agriculture, Ecosystems and Environment 131: 303-307.
23. DE BELLO F., THUILLER W., **LEPŠ J.**, CHOLER P., CLÉMENT J.C., MACEK P., SEBASTIA M.T., LAVOREL S., 2009. Partitioning of functional diversity reveals the scale and extent of trait convergence and divergence. Journal of Vegetation Science 20: 475-486.
24. **DITRICH T.**, PAPÁČEK M., 2009. Correlated traits for dispersal pattern: Terrestrial movement of the water cricket *Velia caprai* (Heteroptera: Gerromorpha: Veliidae). European Journal of Entomology 106: 551-555.
25. DOLENSKÁ M., **NEDVĚD O.**, **VESELÝ P.**, **TESAŘOVÁ M.**, **FUCHS R.**, 2009. What constitutes optical warning signals of ladybirds (Coleoptera: Coccinellidae)

- towards bird predators: colour, pattern or general look? *Biological Journal of the Linnean Society* 98: 234-242.
26. DOLEŽAL J., SONG J.S., **ALTMAN J.**, JANEČEK Š., ČERNÝ T., **ŠRŮTEK M.**, KOLBEK J., 2009. Tree growth and competition in a post-logging *Quercus mongolica* forest on Mt. Sobaek, South Korea. *Ecological Research* 24: 281-290.
  27. DOUDA J., **ČEJKOVÁ A.**, DOUDA K., KOCHÁNKOVÁ J., 2009. Development of alder carr after the abandonment of wet grasslands during the last 70 years. *Annals of Forest Science* 66: 712 (p1-p13).
  28. DRAŠTÍK V., **KUBEČKA J.**, ČECH M., FROUZOVÁ J., **ŘÍHA M.**, **JŮZA T.**, **TUŠER M.**, **JAROLÍM O.**, PRCHALOVÁ M., **PETERKA J.**, VAŠEK M., **KRATOCHVÍL M.**, **MATĚNA J.**, **MRKVIČKA T.**, 2009. Hydroacoustic estimates of fish stocks in temperate reservoirs: day or night surveys? *Aquatic Living Resources* 22: 69-77.
  29. DUNN R., AGOSTI D., ANDERSEN A., ARNAN X., BRUHL C., CERDÁ X., ELLISON A., FISHER L., FITZPATRICK M., GIBB H., GOTELLI N., GOVE A., GUENARD B., **JANDA M.**, KASPARI M., LAURENT E., LESSARD J., LONGINO J., MAJER J., MENKE S., MCGLYNN T., PARR C., PHILPOTT S., PFEIFFER M., RETANA J., SUAREZ A., VASCONCELOS H., WEISER M., SANDERS N., 2009. Climatic drivers of hemispheric asymmetry in global patterns of ant species richness. *Ecology Letters* 12: 324-333.
  30. **EKRT L.**, TRÁVNÍČEK P., JAROLÍMOVÁ V., VÍT P., URFUS T., 2009. Genome size and morphology of the *Dryopteris affinis* group in Central Europe. *Preslia* 81: 261-280.
  31. **FESSL T.**, BEN-YAISH S., **VÁCHA F.**, **ADAMEC F.**, ZALEVSKY Z., 2009. Depth of focus extended microscope configuration for imaging of incorporated groups of molecules, DNA constructs and clusters inside bacterial cells. *Optics Communications* 282: 2495-2501.
  32. FISHER D., **PAVLUVČÍK P.**, **SEDLÁČEK F.**, **ŠÁLEK M.**, 2009. Predation of the alien American mink, *Mustela vison* on native crayfish in middle-sized streams in central and western Bohemia. *Folia Zoologica* 58: 45-56.
  33. **FOLDYNOVÁ-TRANTÍRKOVÁ S.**, **MATULOVÁ J.**, DOTSCH V., LOHR F., CIRSTEIA I., ALEXANDOV K., BREITLING R., **LUKEŠ J.**, **TRANTÍREK L.**, 2009. A cost-effective amino-acid-type selective isotope labeling of proteins expressed in *Leishmania tarentolae*. *Journal of Biomolecular Structure & Dynamics* 6: 755-761.
  34. **FOLTAN P.**, **PŮŽA V.**, 2009. To complete their life cycle, pathogenic nematode-bacteria complexes deter scavengers from feeding on their host cadaver. *Behavioural Processes* 80: 76-79.
  35. FORTUNEL C., GARNIER E., JOFFRE R., KAZAKOU E., QUESTED H., GRIGULIS K., LAVOREL S., ANSQUER P., CASTRO H., CRUZ P., DOLEŽAL J., ERIKSSON O., FREITAS H., GOLODETS C., JOUANY C., KIGEL J., KLEYER M., LEHSTEN V., **LEPŠ J.**, MEIER T., PAKEMAN R., PAPADIMITRIOU M., PAPANASTASIS V.P., QUETIER F., ROBSON M., STERNBERG M., THEAU J.P., THEBAULT A., ZAROVALI M., 2009. Leaf traits capture the effects of land use changes and climate on litter decomposability of grasslands across Europe. *Ecology* 90: 598-611.

36. **FROUZ J., ŠIMEK M.**, 2009. Short term and long term effects of bibionid (Diptera: Bibionidae) larvae feeding on microbial respiration and alder litter decomposition. *European Journal of Soil Biology* 45: 192-197.
37. **FRYNTA D., NOVÁKOVÁ M., KUTALOVÁ H., PALME R., SEDLÁČEK F.**, 2009. Apparatus for collection of fecal samples from undisturbed Spiny Mice (*Acomys cahirinus*) living in a complex social group. *Journal of the American Association for Laboratory Animal Science* 48: 196-201.
38. **FUČÍKOVÁ K., KAŠTOVSKÝ J.**, 2009. *Vincularia roraimae* (Zygnematophyceae, Desmidiaceae), gen. et sp. nov. from the top of Mt. Roraima, Venezuela. *Nova Hedwigia* 88: 49-56.
39. **FUKOVÁ I., NEVEN L.G., BÁRCENAS N.M., GUND N.A., DALÍKOVÁ M., MAREC F.**, 2009. Rapid assessment of the sex of codling moth *Cydia pomonella* (Linnaeus) (Lepidoptera: Tortricidae) eggs and larvae. *Journal of Applied Entomology* 133: 249-261.
40. **GALVÁNEK D., LEPŠ J.**, 2009. How do management and restoration needs of mountain grasslands depend on moisture regime? Experimental study from north-western Slovakia (Western Carpathians). *Applied Vegetation Science* 12: 273-282.
41. **GIBALOVA A., REŇÁK D., MATCZUK K., DUPL'AKOVA N., CHAB D., TWELL D., HONYS D.**, 2009. AtbZIP34 is required for Arabidopsis pollen wall patterning and the control of several metabolic pathways in developing pollen. *Plant Molecular Biology* 70: 581-601.
42. **GONZÁLES-TORIL E., AMILS R., DELMAS R.J., PETIT J.R., KOMÁREK J., ELSTER J.**, 2009. Bacterial diversity of autotrophic enriched cultures from remote, glacial Antarctic, Alpine and Andean aerosol, snow and soil samples. *Biogeosciences* 6: 33-44.
43. **H AIS M., JONÁŠOVÁ M., LANGHAMMER J., KUČERA T.**, 2009. Comparison of two types of forest disturbance using multitemporal Landsat TM/ETM+ imagery and field vegetation data. *Remote Sensing of Environment* 113: 835-845.
44. **H AIS M., KUČERA T.**, 2009. The influence of topography on the forest surface temperature retrieved from Landsat TM, ETM plus and ASTER thermal channels. *ISPRS Journal of Photogrammetry and Remote Sensing* 64: 585-591.
45. **HAJDUŠEK O., SOJKA D., KOPÁČEK P., BUREŠOVÁ V., FRANTA Z., ŠAUMAN I., WINZERLING J., GRUBHOFFER L.**, 2009. Knockdown of proteins involved in iron metabolism limits tick reproduction and development. *PNAS* 106: 1033-1038.
46. **HAJDUŠKOVÁ M., JINDRA M., HERMAN M.A., ASAHINA M.**, 2009. The nuclear receptor NHR-25 cooperates with the Wnt/beta-catenin asymmetry pathway to control differentiation of the T seam cell in *C-elegans*. *Journal of Cell Science* 122: 3051-3060.
47. **HÁJEK T.**, 2009. Habitat and species controls on Sphagnum production and decomposition in a mountain raised bog. *Boreal Environment Research* 14: 947-958.
48. **HÁJEK T., ADAMEC L.**, 2009. Mineral nutrient economy in competing species of Sphagnum mosses. *Ecological Research* 24: 291-302.
49. **HÁJEK T., TUUTTILA E., ILOMETS M., LAIHO R.**, 2009. Light responses of mire mosses - a key to survival after water-level? *Oikos* 118: 240-250.

50. HANSEL R., FOLDYNOVÁ-TRANTÍRKOVÁ S., LOHR F., BUCK J., BONGARTZ E., BAMBERG E., SCHWALBE H., DOTSCHE V., TRANTÍREK L., 2009. Evaluation of parameters critical for observing nucleic acids inside living *Xenopus laevis* oocytes by in-cell NMR spectroscopy. *Journal of the American Chemical Society* 43: 15761-15768.
51. HLAVÁČ P., JANDA M., 2009. *Leptogenopapus mirabilis*, a new genus and species of Lomechusini (Coleoptera: Staphylinidae, Aleocharinae) from Papua New Guinea associated with ants of the genus *Leptogenys* Roger. *Zootaxa* 2062: 57-64.
52. HOLCOVÁ V., ŠÍMA J., EDWARDS K., SEMANČÍKOVÁ E., DUŠEK J., ŠANTRŮČKOVÁ H., 2009. The effect of macrophytes on retention times in a constructed wetland for wastewater treatment. *International Journal of Sustainable Development & World Ecology* 16: 319-324.
53. HONYS D., REŇÁK D., FECIKOVÁ J., JEDELSKY P.L., NEBESÁŘOVÁ J., DOBREV P., CAPKOVA V., 2009. Cytoskeleton-associated large RNP complexes in tobacco male gametophyte (EPPs) are associated with ribosomes and are involved in protein synthesis, processing, and localization. *Journal of Proteome Research* 8: 2015-2031.
54. HONZA M., PIÁLKOVÁ R., ALBRECHT T., NEUŽILOVÁ Š., 2009. Nest defence against conspecific intruders in the Common Pochard *Aythya ferina*: natural observations and an experimental test. *Acta Ornithologica* 44: 151-158.
55. HORKÁ H., KÝČKOVÁ-ČERNÁ K., SKALLOVÁ A., KOPECKÝ J., 2009. Tick saliva affects both proliferation and distribution of *Borrelia burgdorferi* spirochetes in mouse organs and increases transmission of spirochetes to ticks. *International Journal of Medical Microbiology* 299: 373-380.
56. HYNŠT J., ŠIMEK M., 2009. N<sub>2</sub>O emissions from low and moderately disturbed pasture soils - field tests of minimal and maximal N supply. *Plant and Soil* 320: 195-207.
57. CHROŇÁKOVÁ A., RADL V., ČUHEL J., ŠIMEK M., ELHOTTOVÁ D., ENGEL M., SCHLOTTER M., 2009. Overwintering management on upland pasture causes shifts in an abundance of denitrifying microbial communities, their activity and N<sub>2</sub>O-reducing ability. *Soil Biology & Biochemistry* 41: 1132-1138.
58. JELÍNEK P., KARLICKY M., 2009. Computational study of impulsively generated standing slow acoustic waves in a solar coronal loop. *European Physical Journal D* 54: 305-311.
59. JERSÁKOVÁ J., JOHNSON S.D., JÜRGENS A., 2009. *Deceptive behaviour in plants II. Food deception by plants: from generalized systems to specialized floral mimicry. In: Baluška F. (ed.): Plant-environment interactions, signaling and communication in plants, from sensory plant biology to active plant behavior, pp. 223-246. Springer-Verlag Berlin Heidelberg.*
60. JIRKŮ M., JIRKŮ M., OBORNÍK M., LUKEŠ J., MODRÝ D., 2009. A model for taxonomic work on homoxenous Coccidia: redescription, host specificity, and molecular phylogeny of *Eimeria ranae* Dobell, 1909, with a review of anuran-host *Eimeria* (Apicomplexa: Eimeriorina). *Journal of Eukaryotic Microbiology* 56: 39-51.

61. JIRKŮ M., **JIRKŮ M.**, **OBORNÍK M.**, **LUKEŠ J.**, MODRÝ D., 2009. *Goussia Labbé, 1896 (Apicomplexa, Eimeriorina) in Amphibia: diversity, biology, molecular phylogeny and comments on the status of the genus.* Protist 160: 123-136.
62. JOZÍFKOVÁ E., **KONVIČKA M.**, 2009. Sexual arousal by higher- and lower-ranking partner: manifestation of a mating strategy? *Journal of Sexual Medicine* 6: 3327-3334.
63. **JŮZA T.**, VAŠEK M., **KUBEČKA J.**, **SEĎA J.**, **MATĚNA J.**, PRCHALOVÁ M., **PETERKA J.**, **ŘÍHA M.**, **JAROLÍM O.**, **TUŠER M.**, **KRATOCHVÍL M.**, ČECH M., DRAŠTÍK V., FROUZOVÁ J., HOHAUSOVÁ E., ŽALOUĐÍK J., 2009. Pelagic underyearling communities in a canyon-shaped reservoir in late summer. *Journal of Limnology* 68: 304-314.
64. KADLEC T., KOTELA M., NOVÁK I., **KONVIČKA M.**, JAROŠÍK V., 2009. Effect of land use and climate on the diversity of moth guilds with different habitat specialization. *Community Ecology* 10: 152-158.
65. KALUSHKOV P., GUEORGUIEV B., **SPITZER L.**, **NEDVĚD O.**, 2009. Biodiversity of ground beetles (Coleoptera: Carabidae) in genetically modified (BT) and conventional (non-BT) potato fields in Bulgaria. *Biotechnology & Biotechnological Equipment* 23: 1346-1350.\*
66. KAŠIČKOVÁ D., SAK B., KVÁČ M., **DITRICH O.**, 2009. Sources of potentially infectious human microsporidia: molecular characterization of microsporidia isolates from exotic birds in the Czech Republic, prevalence study and importance of birds in epidemiology of the human microsporidial infections. *Veterinary Parasitology* 165: 125-130.
67. **KLEMENTOVÁ Š.**, **KŘÍŽ D.**, **KOPÁČEK J.**, NOVÁK F., PORCAL P., 2009. UV photoinitiated changes of humic fluorophores, influence of metal ions. *Photochemical & Photobiological Sciences* 8: 582-586.
68. KLUDKIEWICZ B., TAKASU Y., FEDIČ R., TAMURA T., **SEHNAL F.**, **ŽUROVEC M.**, 2009. Structure and expression of the silk adhesive protein Ser2 in *Bombyx mori*. *Insect Biochemistry and Molecular Biology* 39: 938-946.
69. **KNOTKOVÁ E.**, VEITL S., **ŠUMBERA R.**, **SEDLÁČEK F.**, BURDA H., 2009. Vocalization of the silvery mole-rat: comparison of vocal repertoires in subterranean rodents with different social systems. *Bioacoustics - The International Journal of Animal Sound and its Recording* 18: 241-257.
70. **KOLÁŘ F.**, **ŠTECH M.**, TRÁVNÍČEK P., RAUCHOVÁ J., URFUS J., VÍT P., KUBEŠOVÁ M., SUDA J., 2009. Towards resolving the *Knautia arvensis* agg. (Dipsacaceae) puzzle: primary and secondary contact zones and ploidy segregation at landscape and microgeographic scales. *Annals of Botany* 103: 963-974.
71. **KOMÁREK J.**, **KAŠTOVSKÝ J.**, VENTURA S., TURICCHIA S., ŠMARDA J., 2009. The cyanobacterial genus *Phormidesmis*. *Archiv für Hydrobiologie / Algological Studies* 129: 41-59.
72. KOMÁREK K., ŠAFAŘÍKOVÁ M., HUBKA T., **ŠAFAŘÍK I.**, KANDELOVA M., KUJALOVA H., 2009. Extraction of alkylphenols and nonylphenol mono- and diethoxylates from water using magnetically modified adsorbents. *Chromatographia* 69: 133-137.

73. **KOPÁČEK J., TUREK J., HEJZLAR J., ŠANTRŮČKOVÁ H.,** 2009. Canopy leaching of nutrients and metals in a mountain spruce forest. *Atmospheric Environment* 43: 5443-5453.
74. **KOPALOVÁ K., ELSTER J., NEDBALOVÁ L., VAN DE VIJVER B.,** 2009. Three new terrestrial diatom species from seepage areas on James Ross Island (Antarctic Peninsula Region). *Diatom Research* 24: 113-122.
75. **KORELUSOVÁ J., KAŠTOVSKÝ J., KOMÁREK J.,** 2009. Heterogeneity of the cyanobacterial genus *Synechocystis* and description of a new genus *Geminocystis*. *Journal of Phycology* 45: 928-937.
76. **KOŠNAR J., KOLÁŘ F.,** 2009. A taxonomic study of selected European taxa of the *Tortula muralis* (Pottiaceae, Musci) complex: variation in morphology and ploidy level. *Preslia* 81: 399-421.
77. **KOŠŤÁL V., ŠIMŮNKOVÁ P., KOBELKOVÁ A., SHIMADA K.,** 2009. Cell cycle arrest as a hallmark of insect diapause: Changes in gene transcription during diapause induction in the drosophilid fly, *Chymomyza costata*. *Insect Biochemistry and Molecular Biology* 39: 875-883.
78. **KOŠŤÁL V., TOLLAROVÁ-BOROVANSKÁ M.,** 2009. The 70 kDa heat shock protein assists during the repair of chilling injury in the insect, *Pyrrhocoris apterus*. *PLoS ONE* 4: 45-46.\*
79. **KOŠŤÁL V., ZÁVODSKÁ R., DENLINGER D.,** 2009. Clock genes period and timeless are rhythmically expressed in brains of newly hatched, photosensitive larvae of the fly, *Sarcophaga crassipalpis*. *Journal of Insect Physiology* 55: 408-414.
80. **KOUT J., VLASÁK J.,** 2009. *Antrodia serialiformis* from the eastern USA, a new and abundant polypore similar to *Antrodia serialis*. *Mycotaxon* 108: 329-335.
81. **KOUTECKÁ E., LEPŠ J.,** 2009. Effect of light and moisture conditions and seed age on germination of three closely related *Myosotis* species. *Folia Geobotanica* 44: 109-130.
82. **KRÁLOVEC J., POCO VÁ L., JONÁŠOVÁ M., MACEK P., PRACH K.,** 2009. Spontaneous recovery of an intensively used grassland after cessation of fertilizing. *Applied Vegetation Science* 12: 391-397.
83. **KRISHNAN N., KODRÍK D., KLUDKIEWICZ B., SEHNAL F.,** 2009. Glutathione-ascorbic acid redox cycle and thioredoxin reductase activity in the digestive tract of *Leptinotarsa decemlineata* (Say). *Insect Biochemistry and Molecular Biology* 39: 180-188.
84. **KŘIVAN V., CRESSMAN R.,** 2009. On evolutionary stability in predator-prey models with fast behavioural dynamics. *Evolutionary Ecology Research* 11: 227-251.
85. **KUCHTA R., SCHOLZ T., JUSTINE J.,** 2009. Two new species of *Bothriocephalus Rudolphi*, 1808 (Cestoda: Bothriocephalidea) from marine fish off Australia and New Caledonia. *Systematic Parasitology* 73: 229-238.
86. **KUCHTA R., SCHOLZ T., VLČKOVÁ R., ŘÍHA M., WALTER T., YUNIAR A., PALM H.,** 2009. Revision of tapeworms (Cestoda: Bothriocephalidea) from lizardfish (Saurida: Synodontidae) from the Indo-Pacific region. *Zootaxa* 1977: 55-67.
87. **KÜPPER H., ANDERSEN E., WIEGERT S., ŠIMEK M., LEITENMAIER B., ŠETLÍK I.,** 2009. Reversible coupling of individual phycobiliprotein isoforms during

- state transitions in the cyanobacterium *Trichodesmium* analysed by single-cell fluorescence kinetic measurements. *Biochimica et Biophysica Acta-Bioenergetics* 1787: 155-167.
88. LANTA V., DOLEŽAL J., LANTOVÁ P., KELÍŠEK J., MUDRÁK O., 2009. Effects of pasture management and fertilizer regimes on botanical changes in species-rich mountain calcareous grassland in Central Europe. *Grass and Forage Science* 64: 443-453.
  89. LANTA V., LEPŠ J., 2009. How does surrounding vegetation affect the course of succession: A five-year container experiment. *Journal of Vegetation Science* 20: 686-694.
  90. LANTOVÁ P., LANTA V., 2009. Food selection in *Microtus arvalis*: the role of plant functional traits. *Ecological Research* 24: 831-838.
  91. LAUSCHMANN H., MRKVIČKA T., 2009. Perimeter in material images: Comparison of continuous representation and global stereological estimation methods. *Materials Characterization* 60: 1133-1138.
  92. LEPŠÍ M., VÍT P., LEPŠÍ P., BOUBLÍK K., KOLÁŘ F., 2009. *Sorbus portae-bohemicae* and *Sorbus albensis*, two new endemic apomictic species recognized based on a revision of *Sorbus bohemica*. *Preslia* 81: 63-89.
  93. LEVRON C., SUCHANOVÁ E., PODDUBNAYA L., OROS M., SCHOLZ T., 2009. Spermatological characters of the aspidogastrea *Aspidogaster limacoides* Diesing, 1835. *Parasitology Research* 105: 77-85.
  94. LHOTA S., JUNEK T., BARTOŠ L., 2009. Patterns and laterality of hand use in free-ranging aye-ayes (*Daubentonia madagascariensis*) and a comparison with captive studies. *Journal of Ethology* 27: 419-428.
  95. LUČAN R., ANDREAS M., BENDA P., BARTONIČKA T., BŘEZINOVÁ T., HOFFMANNOVÁ A., HULOVÁ Š., HULVA P., NECKÁŘOVÁ J., REITER A., SVAČINA T., ŠÁLEK M., HORÁČEK I., 2009. Alcathe bat (*Myotis alcathe*) in the Czech Republic: distributional status, roosting and feeding ecology. *Acta Chiropterologica* 11: 61-69.
  96. LUČAN R., HANÁK V., HORÁČEK I., 2009. Long-term re-use of tree roosts by European forest bats. *Forest Ecology and Management* 258: 1301-1306.
  97. MACEK P., MACKOVÁ J., DE BELLO F., 2009. Morphological and ecophysiological traits shaping altitudinal distribution of three *Polylepis* treeline species in the dry tropical Andes. *Acta Oecologica* 35: 778-785.
  98. MACEK P., REJMÁNKOVÁ E., FUCHS R., 2009. Biological activities as patchiness driving forces in wetlands of northern Belize. *Oikos* 118: 1687-1694.
  99. MACH J., LANTA V., BASTL M., 2009. The effect of mining and vegetation scarification on the survival and establishment of *Pinus rotundata* Link. and *Pinus sylvestris* L. in contrasting peat bogs habitats. *Polish Journal of Ecology* 57: 239-250.
  100. MALOUKH L., MATOUŠEK J., VAN BOCKSTAELE E., ROLDÁN-RUIZ I., 2009. Housekeeping gene selection for real time-PCR normalization in female hop (*Humulus lupulus* L) tissues. *Journal of Plant Biochemistry and Biotechnology* 18: 53-58.



101. MARCAIS B., **KAVKOVÁ M.**, DESPREZ-LOUSTAU M.L., 2009. Phenotypic variation in the phenology of ascospore production between European populations of oak powdery mildew. *Annals of Forest Science* 66: 814 (p1-p8).
102. MAŠKOVÁ Z., **DOLEŽAL J.**, **KVĚT J.**, ZEMEK F., 2009. Long-term functioning of a species-rich mountain meadow under different management regimes. *Agriculture, Ecosystems and Environment* 132: 192-202.
103. **MRKVIČKA T.**, 2009. On testing of general random closed set model hypothesis. *Kybernetika* 45: 293-308.
104. **MRKVIČKA T.**, RATAJ J., 2009. On estimation of intrinsic volume densities of stationary random closed sets via parallel sets in the plane. *Kybernetika* 45: 931-945.
105. MUSILOVÁ Z., **ŘÍČAN O.**, NOVÁK J., 2009. Phylogeny of the Neotropical cichlid fish tribe Cichlasomatini (Teleostei: Cichlidae) based on morphological and molecular data, with the description of a new genus. *Journal of Zoological Systematics and Evolutionary Research* 47: 234-247.
106. **NEDVĚD O.**, 2009. *Temperature, effects on development and growth. In: Encyclopedia of Insect, pp. 990-993. Academic Press, San Diego.*
107. NEVE G., PAVLÍČKO A., **KONVIČKA M.**, 2009. Loss of genetic diversity through spontaneous colonization in the bog fritillary butterfly, *Procllossiana eunomia* (Lepidoptera: Nymphalidae) in the Czech Republic. *European Journal of Entomology* 106: 11-19.
108. **NOVÁKOVÁ E.**, **HYPŠA V.**, MORAN N., 2009. Arsenophonus, an emerging clade of intracellular symbionts with a broad host distribution. *BMC Microbiology* 9: 1-14.
109. **NOVOTNÝ V.**, 2009. Beta diversity of plant-insect food webs in tropical forests: a conceptual framework. *Insect Conservation and Diversity* 2: 5-9.\*
110. **NOVOTNÝ V.**, 2009. *Notebooks from New Guinea. Field Notes of a Tropical Biologist, p. 272. Oxford University Press, Oxford.*
111. **OBORNÍK M.**, JANOUŠKOVEC J., **CHRUDIMSKÝ T.**, **LUKEŠ J.**, 2009. Evolution of the apicoplast and its hosts: From heterotrophy to autotrophy and back again. *International Journal for Parasitology* 39: 1-12.
112. OGDEN T., GATTOLLIAT J., SARTORI M., STANICZEK A., **SOLDÁN T.**, WHITING M., 2009. Towards a new paradigm in mayfly phylogeny (Ephemeroptera): combined analysis of morphological and molecular data. *Systematic Entomology* 34:616-634.
113. OREN H., **KOMÁREK J.**, HOFFMAN L., 2009. Nomenclature of the Cyanophyta/ Cyanobacteria/ Cyanoprokaryotes – What has happened since IAC Luxembourg? *Archiv für Hydrobiologie/ Algological Studies* 130: 17-26.
114. PADYŠÁKOVÁ E., ŠÁLEK M., POLEDNÍK L., **SEDLÁČEK F.**, ALBRECHT T., 2009. Removal of American mink increases the access of simulated nests in linear habitat. *Wildlife Research* 36: 225-230.
115. PAKEMAN R.J., **LEPŠ J.**, KLEYER M., LAVOREL S., GARNIER E., VISTA consortium, 2009. Relative climatic, edaphic and management controls of plant functional trait signatures. *Journal of Vegetation Science* 20: 148-159.

116. PAPÁČEK M., DITRICH T., 2009. Effective strategy of the overwintering of semiaquatic bugs: overwintering of *Velia caprai* (Heteroptera: Gerromorpha: Veliidae). *Journal of Natural History* 43: 529-543.
117. PETERKA J., MATĚNA J., 2009. Differences in feeding selectivity and efficiency between young-of-the-year European perch (*Perca fluviatilis*) and roach (*Rutilus rutilus*) - field observations and laboratory experiments on the importance of prey movement apparency vs. evasiveness. *Biologia* 64: 786-794.
118. PHILIPPOT L., BRU D., SABY N., ČUHEL J., ARROUAYS D., ŠIMEK M., HALLIN S., 2009. Spatial patterns of bacterial taxa in nature reflect ecological traits of deep branches of the 16S rRNA bacterial tree. *Environmental Microbiology* 11: 3096-3104.
119. PHILIPPOT L., ČUHEL J., SABY N., CHÉNEBY D., CHROŇÁKOVÁ A., BRU D., ARROUAYS D., MARTIN-LAURENT F., ŠIMEK M., 2009. Mapping field-scale spatial patterns of size and activity of the denitrifier community. *Environmental Microbiology* 11: 1518-1526.
120. PÍPALOVÁ I., KVĚT J., ADÁMEK Z., 2009. Limnological changes in a pond ecosystem caused by grass carp (*Ctenopharyngodon idella* Val.) low stocking density. *Czech Journal of Animal Science* 54: 31-45.
121. PODDUBNAYA L., KUČHTA R., LEVRON C., GIBSON D., SCHOLZ T., 2009. The unique ultrastructure of the uterus of the Gyrocotylidea (Cestoda) and its phylogenetic implications. *Systematic Parasitology* 74: 81-93.
122. PRCHALOVÁ M., KUBEČKA J., ČECH M., FROUZOVÁ J., DRAŠTÍK V., HOHAUSOVÁ E., JŮZA T., KRATOCHVÍL M., MATĚNA J., PETERKA J., ŘÍHA M., TUŠER M., VAŠEK M., 2009. The effect of depth, distance from dam and habitat on spatial distribution of fish in an artificial reservoir. *Ecology of Freshwater Fish* 18: 247-260.
123. PRCHALOVÁ M., KUBEČKA J., ŘÍHA M., MRKVIČKA T., VAŠEK M., JŮZA T., KRATOCHVÍL M., PETERKA J., DRAŠTÍK V., KŘÍŽEK J., 2009. Size selectivity of standardized multimesh gillnets in sampling coarse European species. *Fisheries Research* 96: 51-57.
124. PŘIKRYL T., AERTS P., HAVELKOVÁ P., HERREL A., ROČEK Z., 2009. Pelvic and thigh musculature in frogs (Anura) and origin of anuran jumping locomotion. *Journal of Anatomy* 214: 100-139.
125. PŠENIČKA M., VANCOVÁ M., KOUBEK P., TĚŠITEL J., LINHART O., 2009. Fine structure and morphology of sterlet (*Acipenser ruthenus* L. 1758) spermatozoa and acrosin localization. *Animal Reproduction Science* 11: 3-16.
126. PŮŽA V., 2009. Mixed infection of *Galleria mellonella* with two entomopathogenic nematode (Nematoda: Rhabditida) species: *Steinernema* affine benefits from the presence of *Steinernema kraussei*. *Journal of Invertebrate Pathology* 102: 40-43.
127. RICO A., KINDLMANN P., SEDLÁČEK F., 2009. Can the barrier effect of highways cause genetic subdivision in small mammals? *Acta Theriologica* 54: 297-310.
128. RIEGERT J., LÓVY M., FAINOVÁ D., 2009. Diet composition of common kestrels *Falco tinnunculus* and long-eared owls *Asio otus* coexisting in an urban environment. *Ornis Fennica* 86: 123-130.

129. ROUBÍČKOVÁ A., MUDRÁK O., FROUZ J., 2009. Effect of earthworm on growth of late succession plant species in postmining sites under laboratory and field conditions. *Biology and Fertility of Soils* 45: 769-774.
130. RUDENKO N., GOLOVCENKO M., RŮŽEK D., PISKUNOVA N., MALLATOVÁ N., GRUBHOFFER L., 2009. Molecular detection of *Borrelia bissettii* DNA in serum samples from patients in the Czech Republic with suspected borreliosis. *FEMS Microbiology Letters* 292: 274-281.
131. RUDENKO N., GOLOVCHENKO M., GRUBHOFFER L., OLIVER J., 2009. *Borrelia carolinensis* sp. nov.? a new (14th) member of *Borrelia burgdorferi* sensu lato complex from the southeastern United States. *Journal of Clinical Microbiology* 47: 134-141.
132. RUDENKO N., GOLOVCHENKO M., LIN T., GAO L., GRUBHOFFER L., OLIVER J., 2009. Delineation of a new species of the *Borrelia burgdorferi* sensu lato complex, *Borrelia americana* sp. nov. *Journal of Clinical Microbiology* 47: 3875-3880.
133. RŮŽEK D., SALÁT J., PALUS M., GRITSUN T., GOULD E., DYKOVÁ I., SKALLOVA A., JELÍNEK J., KOPECKÝ J., GRUBHOFFER L., 2009. CD8+ T-cells mediate immunopathology in tick-borne encephalitis. *Virology* 384: 1-6.
134. RŮŽEK D., VANCOVÁ M., TESAŘOVÁ M., AHANTARIG A., KOPECKÝ J., GRUBHOFFER L., 2009. Morphological changes in human neural cells following tick-borne encephalitis virus infection. *Journal of General Virology* 90: 1649-1658.
135. ŘEZANKA T., NEDBALOVÁ L., ELSTER J., CAJTHAML T., SIGLER K., 2009. Very-long-chain iso and anteiso branched fatty acids in N-acylphosphatidylethanolamines from a natural cyanobacterial mat of *Calothrix* sp. *Phytochemistry* 70: 655-663.
136. ŘÍHA M., KUBEČKA J., VAŠEK M., SEĎA J., MRKVIČKA T., PRCHALOVÁ M., MATĚNA J., HLADÍK M., ČECH M., DRAŠTÍK V., FROUZOVÁ J., HOHAUSOVÁ E., JAROLÍM O., JŮZA M., KRATOCHVÍL M., PETERKA J., TUŠER M., 2009. Long-term development of fish populations in the Římov Reservoir. *Fisheries Management and Ecology* 16: 121-129.
137. SATO S., SHINYA K., YASUDA H., KINDLMANN P., DIXON A.F.G., 2009. Effects of intra and interspecific interactions on the survival of two predatory ladybirds (Coleoptera: Coccinellidae) in relation to prey abundance. *Applied Entomology and Zoology* 44: 215-221.
138. SEKERKA L., 2009. *Notosacantha dammaropsi*, a new species from New Guinea (Coleoptera: Chrysomelidae: Cassidinae: Notosacanthini). *Annales Zoologici* 59: 197-200.
139. SENEY M., KELLY D., GOLDMAN B., ŠUMBERA R., FORGER N., 2009. Social structure predicts genital morphology in African Mole-Rats. *PLoS ONE* 4: e7477.\*
140. SETTELE J., SHREEVE T., KONVIČKA M., VAN DYCK H. [eds], 2009. *Ecology of butterflies in Europe*, p. 526. Cambridge University Press, Cambridge.
141. SHAIK H., SEHNAL F., 2009. Hemolin expression in the silk glands of *Galleria mellonella* in response to bacterial challenge and prior to cell disintegration. *Journal of Insect Physiology* 55: 781-787.

142. SHATTUCK S., JANDA M., 2009. A new species of the *Camponotus aureopilus* VIEHMEYER, 1914 species group (Hymenoptera: Formicidae) from Papua New Guinea. *Myrmecological News* 12: 251-253.\*
143. SCHÖDELBAUEROVÁ I., ROBERTS D.L., KINDLMANN P., 2009. Size of the protected areas is the main determinant of species diversity in orchids. *Biological Conservation* 142: 2329-2334.
144. SCHOLZ T., GARCÍA H., KUČHTA R., WICHT B., 2009. Update on the human broad tapeworm (genus *Diphyllobothrium*), including clinical relevance. *Clinical Microbiology Reviews* 22: 146-160.
145. SIROVÁ D., BOROVEC J., ČERNÁ D., REJMÁNKOVÁ E., ADAMEC L., VRBA J., 2009. Microbial community development in the traps of aquatic *Utricularia* species. *Aquatic Botany* 90: 129-136.
146. SKORACKI M., ANTCZAK M., RIEGERT J., FAINOVÁ D., MIKEŠ V., 2009. New species and new records of quill mites (Acari: Syringophilidae) inhabiting African passerines (Aves: Passeriformes). *Acta zoologica Academiae Scientiarum Hungaricae* 55: 123-137.
147. SOLDÁN T., ENKTAIVAN S., GODUNKO R., 2009. Commented checklist of mayflies (Ephemeroptera) of Mongolia. *Aquatic Insects* 31: 653-670.
148. SOLDÁN T., GODUNKO R., 2009. *Baetis zdenkae* sp. nov., a new representative of the *Baetis buceratus* species-group (Ephemeroptera: Baetidae) from Rhodos (Greece) with notes to species-grouping of the subgenus *Baetis* Leach, 1815 s. str. *Zootaxa* 1972: 1-19.
149. SOSNOVÁ M., KLIMEŠOVÁ J., 2009. Life-history variation in the short-lived herb *Rorippa palustris*: The role of carbon storage. *Acta Oecologica* 35: 691-697.
150. SPITZER L., BENEŠ J., DANDOVÁ J., JAŠKOVÁ V., KONVIČKA M., 2009. The Large Blue butterfly, *Phengaris [Maculinea] arion*, as a conservation umbrella on a landscape scale: The case of the Czech Carpathians. *Ecological Indicators* 9: 1056-1063.
151. SROKA P., 2009. Morphology and ultrastructure of the molar area of mandibles in mayfly (Ephemeroptera) larvae. *Aquatic Insects* 31: 471-484.
152. STRAŇÁK V., ČADA M., QUAAS M., BLOCK S., BOGDANOWICZ R., KMENT Š., WULFF H., HUBIČKA Z., HELM C., TICHÝ M., HIPPLER R., 2009. Physical properties of homogeneous TiO<sub>2</sub> films prepared by high power impulse magnetron sputtering as a function of crystallographic phase and nanostructure. *Journal of Physics D - Applied Physics* 42: 105204.
153. SYCHROVSKÝ V., FOLDÝNOVÁ-TRANTÍRKOVÁ S., ŠPAČKOVÁ N., ROBEYNS K., VAN MEERVELT L., BLANKENFELDT W., VOKÁČOVÁ Z., SPOONER J., TRANTÍREK L., 2009. Revisiting the planarity of nucleic acid bases: Pyramidilization at glycosidic nitrogen in purine bases is modulated by orientation of glycosidic torsion. *Nucleic Acids Research* 37: 7321-7331.
154. SZABO R., PRACH K., 2009. Old-field succession related to soil nitrogen and moisture, and the importance of plant species traits. *Community Ecology* 10: 65-73.
155. ŠAFAŘÍK I., SABATKOVA Z., ŠAFAŘÍKOVÁ M., 2009. Invert sugar formation with *Saccharomyces cerevisiae* cells encapsulated in magnetically responsive alginate microparticles. *Journal of Magnetism and Magnetic Materials* 321: 1478-1481.

156. ŠAFAŘÍK I., ŠAFAŘÍKOVÁ M., 2009. Magnetic nano- and microparticles in biotechnology. *Chemical Papers* 63: 497-505.
157. ŠAFAŘÍKOVÁ M., MADEROVA Z., ŠAFAŘÍK I., 2009. Ferrofluid modified *Saccharomyces cerevisiae* cells for biocatalysis. *Food Research International* 42: 521-524.
158. ŠÁLEK M., KREISINGER J., SEDLÁČEK F., ALBRECHT T., 2009. Corridor vs. hayfield matrix use by mammalian predators in an agricultural landscape. *Agriculture, Ecosystems and Environment* 134: 8-13.
159. ŠANTRŮČKOVÁ H., TAHOVSKÁ K., KOPÁČEK J., 2009. Nitrogen transformations and pools in N-saturated mountain spruce forest soils. *Biology and Fertility of Soils* 45: 395-404.
160. ŠÍMA J., DIÁKOVÁ K., PAVELCOVÁ L., HAVELKA M., 2009. Redox properties of a constructed wetland: theoretical and practical aspects. *Chemistry & Biodiversity* 6: 341-355.
161. ŠÍMA J., HAVELKA M., HOLCOVÁ V., 2009. Removal of anionic surfactants from wastewater using a constructed wetland. *Chemistry & Biodiversity* 6: 1350-1363.
162. ŠIMEK M., ČUHEL J., HYNŠT J., 2009. *Nitrous oxide formation in and emissions from grazed upland grasslands in Central Europe. In: Sheldon A.I. and Barnhart E.P. (eds): Nitrous oxide emissions research progress, pp. 67-83. Nova Science Publishers, New York.*
163. ŠKLÍBA J., ŠUMBERA R., CHITAUKALI W., BURDA H., 2009. Home-range dynamics in a solitary subterranean rodent. *Ethology* 115: 217-226.
164. ŠTAJEROVÁ K., ŠMILAUEROVÁ M., ŠMILAUER P., 2009. Arbuscular mycorrhizal symbiosis of herbaceous invasive neophytes. *Preslia* 81: 341-355.
165. ŠTEFKA J., HYPŠA V., SCHOLZ T., 2009. Interplay of host specificity and biogeography in the population structure of a cosmopolitan endoparasite: microsatellite study of *Ligula intestinalis* (Cestoda). *Molecular Ecology* 18: 1187-1206.
166. ŠTROJSOVÁ M., AHLRICHS W. H., 2009. Differentiation between activity of digestive enzymes of *Brachionus calyciflorus* and extracellular enzymes of its epizootic bacteria. *Journal of Limnology* 68: 409-412.
167. ŠTROJSOVÁ A., VRBA J., 2009. Short-term variation in extracellular phosphatase activity: Possible limitations for diagnosis of nutrient status in particular algal populations. *Aquatic Ecology* 43: 19-25.
168. ŠTROJSOVÁ M., SUGA K., HAGIVARA A., VRBA J., 2009. Effect of food quantity and quality on population growth rate and digestive activity in the euryhaline rotifer *Brachionus plicatilis* Müller. *International Review of Hydrobiology* 94: 706-719.
169. ŠUSTR V., ŠIMEK M., 2009. Methane release from millipedes and other soil invertebrates in Central Europe. *Soil Biology & Biochemistry* 41: 1684-1688.
170. TARANUSHENKO Y., VINOKUROV K., KLUDKIEWICZ B., KODRÍK D., SEHNAL F., 2009. Peptidase inhibitors from the salivary glands of the cockroach *Nauphoeta cinerea*. *Insect Biochemistry and Molecular Biology* 39: 920-930.

171. **TĚŠITEL J., MALINOVÁ T., ŠTECH M., HERBSTOVÁ M.**, 2009. Variation in the *Melampyrum sylvaticum* group in the Carpathian and Hercynian region: two lineages with different evolutionary histories. *Preslia* 81: 1-22.
172. **TOLLAROVA-BOROVANSKA M., LALOUETTE L., KOŠŤÁL V.**, 2009. Insect cold tolerance and repair of chill-injury at fluctuating thermal regimes: Role of 70 kDa heat shock protein expression. *Cryoletters* 30: 312-319.
173. **TURICCHIA S., VENTURA S., KOMÁRKOVÁ J., KOMÁREK J.**, 2009. Taxonomic evaluation of cyanobacterial microflora from alkaline marshes of Northern Belize. 2. Diversity of oscillatorialean genera. *Nova Hedwigia* 89: 165-200.
174. **TUŠER M., KUBEČKA J., FROUZOVÁ J., JAROLÍM O.**, 2009. Fish orientation along the longitudinal profile of the Římov reservoir during daytime: Consequences for horizontal acoustic surveys. *Fisheries Research* 96: 23-29.
175. **VAŠEK M., KUBEČKA J., ČECH M., DRAŠTÍK V., MATĚNA J., MRKVIČKA T., PETERKA J., PRCHALOVÁ M.**, 2009. Diel variation in gillnet catches and vertical distribution of pelagic fishes in a stratified European reservoir. *Fisheries Research* 96: 64-69.
176. **VESELÝ P., FUCHS R.**, 2009. Newly emerged Batesian mimicry protects only unfamiliar prey. *Evolutionary Ecology* 23: 919-929.
177. **VLAŠÁNEK P.**, 2009. A record of the Blue (Scarce) Chaser (*Libellula fulva*) in South Moravia, Czech Republic (Odonata). *Acta Musei Moraviae. Scientiae biologicae* 94: 13-14.
178. **VLAŠÁNEK P., KONVIČKA M.**, 2009. Sphragis in *Parnassius mnemosyne* (Lepidoptera: Papilionidae): male-derived insemination plugs loose efficiency with progress of female flight. *Biologia* 64: 1206-1211.
179. **VODKA Š., KONVIČKA M., ČÍŽEK L.**, 2009. Habitat preferences of oak-feeding xylophagous beetles in a temperate woodland: implications for forest history and management. *Journal of Insect Conservation* 13: 553-562.
180. **VRÁBL D., VAŠKOVÁ M., HRONKOVÁ M., ŠANTRŮČEK J., FLEXAS J.**, 2009. Mesophyll conductance to CO<sub>2</sub> transport estimated by two independent methods: effect of variable CO<sub>2</sub> concentration and abscisic acid. *Journal of Experimental Botany* 60: 2315-2323.
181. **ZAHRÁDKOVÁ S., SOLDÁN T., BOJKOVÁ J., HELEŠIC J., JANOVSÁ H., SROKA P.**, 2009. Distribution and biology of mayflies (Ephemeroptera) of the Czech Republic: present status and perspectives. *Aquatic Insects* 31:629-652.
182. **ZAPOMĚLOVÁ E., JEZBEROVÁ J., HROUZEK P., HISEM D., ŘEHÁKOVÁ K., KOMÁRKOVÁ J.**, 2009. Polyphasic characterization of three strains of *Anabaena reniformis* and *Aphanizomenon aphanizomenoides* (cyanobacteria) and their re-classification to *Sphaerospermum* gen. nov. (incl. *Anabaena kisseleviana*). *Journal of Phycology* 45: 1363-1373.
183. **ZÁVODSKÁ R., VON WOWERN G., LOFSTEDT C., ROSÉN W., ŠAUMAN I.**, 2009. The release of a pheromonotropic neuropeptide, PBAN, in the turnip moth *Agrotis segetum*, exhibits a circadian rhythm. *Journal of Insect Physiology* 55: 435-440.

184. ZÁVODSKÁ R., WEN C. J., SEHNAL F., HRDÝ I., LEE H.J., ŠAUMAN I., 2009. Corazonin- and PDF-immunoreactivities in the cephalic ganglia of termites. *Journal of Insect Physiology* 55: 441-449.
185. ZIMMERMANN K., KONVIČKA M., FRIC Z., ČIKALOVÁ V., 2009. Demography of a common butterfly on humid grasslands: *Argynnis aglaja* (Lepidoptera: Nymphalidae) studied by mark-recapture. *Polish Journal of Ecology* 57: 715-727.
186. ZRZAVÝ J., ŘÍHA P., PIÁLEK L., JANOUŠKOVEC J., 2009. Phylogeny of Annelida (Lophotrochozoa): total-evidence analysis of morphology and six genes. *BMC Evolutionary Biology* 9: e189.
187. ZRZAVÝ J., STORCH D., MIHULKA S., BURDA H., BEGALL S., 2009. *Evolution: Ein Lese-Lehrbuch*, p. 493. Spektrum Akademischer Verlag, Heidelberg.