

**Publications and conferences of the PhD students project GACR
206/03/H034:**

**Plants, insects and vertebrates: an integrated study
of ecological and evolutionary interactions on
population and ecosystem levels**
(PhD students are in bold)

Journal publications

(* WOS registered journal)

- *Allard DJ, **Petru M**, Mill RR (2005) An ecological study of *Pedicularis dendrothauma*, an arboreal hemiparasitic epiphyte from Nepal. *Folia Geobotanica* 40, 135-149.
- * Benes J, **Cízek O**, Dovala J, Konvicka M (2006) Intensive game keeping, coppicing and butterflies: The story of Milovický Wood, Czech Republic. *Forest Ecology and Management* 237, 353–365.
- * Cízek L, **Fric Z**, Konvicka M (2006) Host plant defences and voltinism in European butterflies. *Ecological Entomology* 31, 337–344.
- ***Cízek O**, Konvicka M (2005): What is a patch in a dynamic metapopulation? Mobility of an endangered woodland butterfly, *Euphydryas maturna*. *Ecography* 28, 791-800.
- Dolek M, Freese-Hager A, **Cízek O**, Gros P (2006) Mortality of early instars in the highly endangered butterfly *Euphydryas maturna* (Linnaeus, 1758) (Nymphalidae). *Nota lepidopterologica* 29, 221-224.
- *Exnerová A, Svádová K, Štys P, **Barcalová S**, Landová E, **Prokopová M**, Fuchs R, Socha R (2006) Importance of colour in the reaction of passerine predators to aposematic prey: An experiment with mutants of *Pyrrhocoris apterus* (Heteroptera). *Biological Journal of the Linnean Society* 88, 143-153.
- *Freese A, Benes J, Bolz R, **Cízek O**, Dolek M., Geyer A, Gfos P, Konvicka M, Liegl A, Stettmer C (2006). Habitat use of the endangered butterfly *Euphydryas maturna* and forestry in Central Europe. *Animal Conservation* 9, 388–397.
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- ***Fric Z**, Konvicka M (2007) Dispersal kernels of butterflies: power-law functions are invariant to marking frequency. *Basic and Applied Ecology*, in press.
- ***Houdková K**, Kindlmann P (2006): Scaling up population dynamic processes in a ladybird-aphid system. *Population Ecology* 48, 323-332.
- *Hula V, Konvicka M, Pavlíčko M, **Fric Z** (2004) Marsh Fritillary (*Euphydryas aurinia*) in the Czech Republic: monitoring, metapopulation structure, and conservation of an endangered butterfly, *Entomologica Fennica*, 15, 231-241.
- ***Hulcr J**, Beaver R, Dole S, Cognato A (2007) Cladistic review of xyleborine generic taxonomic characters (Coleoptera: Curculionidae: Scolytinae). *Systematic Entomology*, v tisku.
- ***Hulcr J**, Ubik K, Vrkoc J (2006) The role of semiochemicals in tritrophic interactions between the spruce bark beetle *Ips typographus*, its predators and infested spruce; *Journal of Applied Entomology*, 130, 275–283
- ***Hulcr J**, Pollet M, Ubik K, Vrkoc J (2005). Exploitation of kairomones and synomones by *Medetera* spp., predators of the spruce bark beetles. *European Journal of Entomology*, 102, 655–662.
- ***Hulcr J**, Ubik K, Vrkoc J (2005). Tritrophic interactions between the spruce bark beetle *Ips typographus*, its predators and the infested spruce, mediated by semiochemicals. *Journal of Applied Entomology*, 130, 275-283.
- ***Chaloupecká E**, Lepš J (2004) Equivalence of competitor effects and tradeoff between vegetative multiplication and generative reproduction: case study with *Lychnis flos-cuculi* and *Myosotis nemorosa*. *Flora* 199, 157-167.
- ***Janda M**, Folková D, Zrzavý J (2004) Phylogeny of *Lasius* ants based on mitochondrial DNA and morphology, and the evolution of social parasitism in the *Lasiini* (Hymenoptera: Formicidae). *Molecular Phylogenetics and Evolution* 33: 595-614.
- ***Janecek S**, **Janecková P**, Lepš J (2004) Influence of heterogeneity and competition on growth features of three meadow species. *Flora* 199, 3-11.

- ***Janecek Š, Janecková P, Lepš J** (2007) Effect of competition and soil quality on root topological plasticity of the perennial grass *Molinia caerulea*. *Preslia* 79, 23-32.
- ***Janecek S, Lepš J** (2005) Effect of litter, leaf cover and cover of basal internodes of the dominant species *Molinia caerulea* on seedling recruitment and established vegetation. *Acta Oecologica* 28, 141-147.
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- *Kindlmann P, **Houdková K** (2006) Intraguild predation: fiction or reality? *Population Ecology* 48, 317-322.
- ***Klimešová J, Martínková J, Kocvarová M** (2004) Biological flora of Central Europe: *Rorippa palustris* (L.) Besser. *Flora* 199, 453-463.
- * **Klimešová J, Sosnová M, Martínková J** (2007) Life-history variation in the short-lived herb *Rorippa palustris*: effects of germination date and injury timing. *Plant Ecology* (in press).
- ***Klimešová J, Martínková J** (2004) Intermediate growth forms as a model for the study of plant clonality functioning: an example with root sprouters. *Evolutionary Ecology* 18, 669-681.
- ***Konvicka M, Cížek O, Filipová L, Fric Z, Beneš J, Krupka M, Zámecník J, Dockalová Z** (2005) For whom the bells toll: Demography of the last population of the butterfly *Euphydryas maturna* in the Czech Republic. *Biologia* 60, 551-557.
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- ***Konvicka M, Hula V, Fric Z** (2005) *Picromerus bidens* (Heteroptera: Pentatomidae) as predator of the Checkerspot *Euphydryas aurinia* (Lepidoptera: Nymphalidae). *Entomologica Fennica*, 16, 233-236.
- Lanta V, Doležal J. & Šamata J.** (2004). Vegetation patterns in a cut-away peatland in relation to abiotic and abiotic factors: a case study from the Šumava Mts., Czech Republic. *SUO* 55: 33-43.
- ***Lanta V, Hazuková I** (2005) Growth response of downy birch (*Betula pubescens*) to moisture treatment at a cut-over peat bog in the Sumava Mts., Czech Republic. *Annales Botanici Fennici* 42, 247-256.
- ***Lanta V, Lepš J** (2006). Effect of functional group richness and species richness in manipulated productivity-diversity studies: a glasshouse pot experiment. *Acta Oecologica* 29, 85-96.
- ***Lanta V, Lepš J.** (2007) Effects of species and functional group richness on production in two fertility environments: an experiment with communities of perennial plants. *Acta Oecologica*, in press.
- ***Lanta V, Mach J, Holcová V** (2006). The effect of dam construction on the restoration of spruce mires in the Giant Mountains (Czech Republic). *Annales Botanici Fennici* 43, 260-268.
- ***Macek P, Rejmánková E, Houdková K** (2006) The effect of long term submergence on functional properties of *Eleocharis cellulosa* Torr. *Aquatic Botany*, 8, 251-258.
- ***Macek P, Rejmánková E** (2007) Response of emergent macrophytes to experimental nutrient and salinity additions. *Functional Ecology*, in press.
- ***Martínková J, Klimešová J, Mihulka S** (2006) Vegetative regeneration of biennial *Oenothera* species after a disturbance: field observations and an experimental study. *Flora* 201, 287-297.
- ***Martínková J, Klimešová J & Mihulka S** (2007) Compensation of seed production after severe disturbance in the short-lived herb *Barbarea vulgaris*. *Basic and Applied Ecology*, in press.
- Martínková J, Sosnová M, Kociánová A, Klimešová J** (2005) Jak poranění ovlivňuje produkci semen u krátkověkých druhů schopných odnožovat z kořenu. *Zpravodaj České Botanické Společnosti*, 40 Mater. 20: 87-101.
- ***Martínková J, Kocvarová M, Klimešová J** (2004) Resprouting after disturbance in the short-lived herb *Rorippa palustris* (Brassicaceae): an experiment with juveniles. *Acta Oecologica* 25, 143-150.
- ***Martínková J, Klimešová J, Mihulka S** (2004) Resprouting after disturbance: an experimental study with short-lived monocarpic herbs. *Folia Geobotanica* 39, 1-12
- ***Novotny V, Drozd P, Miller SE, Kulfan M, Janda M, Basset Y, Weiblen GD** (2006) Why are there so many species of herbivorous insects in tropical rainforests? *Science* 313, 1115-1118.
- ***Novotny V, Miller SE, Lepš J, Bito D, Janda M, Hulcr J, Basset Y, Damas K, Weiblen, GD** (2004) No tree an Island: the plant-caterpillar food web of secondary rainforest in New Guinea. *Ecology Letters* 7, 1090-1100.
- ***Pech P, Fric Z, Konvicka M, Zrzavý J** (2004) Phylogeny of *Maculinea* blues (Lepidoptera: Lycaenidae) based on morphological and ecological characters, and the evolution of parasitic myrmecophily. *Cladistics* 20: 362-375.
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- ***Pollet M, Hulcr J** (2007) The updated check list of Dolichopodidae (Diptera) of the Czech Republic and Slovakia: background information, data and considerations. *Biologia*, in press.

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- *Rejmánková E, **Houdková K** (2006) Wetland plant decomposition under different nutrient conditions: what is more important, litter quality or site quality? *Biogeochemistry* 80, 275-292.
- * Ricankova V, **Fric Z**, Chlachula J, **Stastna P**, Faltynkova A, Zemek F (2006): Habitat requirements of Long-Tailed Ground Squirrel: what affects their distribution in the Southern Altai? *Journal of Zoology* 270, 1-8
- ***Rico A**, Kindlmann P, Sedláček F (2006). Barrier effects of roads on movements of small mammals. *Folia Zoologica* (in press).
- * **Rico A**, Kindlmann P, Sedláček F (2007). Road crossing in bank voles and yellow-necked mice. *Acta Theriologica* 52, 85-94.
- ***Riegert J**, Fuchs R (2004) Insect in the diet of urban kestrels from central Europe: An alternative prey or constant component of the diet? *Ornis Fennica* 81, 23-32
- ***Riegert J**, Fuchs R, (2007) Roosting and the diet composition of male urban kestrels (*Falco tinnunculus*) during the winter. *Journal of Raptor Research*, in press.
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- Sedláček O, Horák D, Reif J, **Riegert J** (2004) A new record of Grey-necked Picathartes *Picathartes oreas* in Cameroon. *Malimbus* 26, 31-32.
- *Sedláček O, Horák D, **Riegert J**, Reif J, Horáček I (2005) Comments on Welwitsch's mouse-eared bat (*Myotis welwitschii*) with the first record from Cameroon. *Mammalian biology* 71, 120-123.
- Štastná P** (2005) Herbochronologie druhu *Rumex alpinus*. *Zpravodaj České Botanické Společnosti* 20, 127-132.
- ***Veselý P**, **Veselá S**, Fuchs R, Zrzavý J (2006) Are gregarious red-black shieldbugs *Graphosoma lineatum* (Hemiptera, Pentatomidae) really aposematic? An experimental approach. *Evolutionary Ecology Research*. 8, 881-890
- ***Zimmermann K**, **Fric Z**, Filipová L, Konvicka M (2005) Adult demography, dispersal and behaviour of *Brenthis ino* (Lepidoptera: Nymphalidae): How to be a successful wetland butterfly. *European Journal of Entomology* 102, 699-706.

Kapitoly v knihách

- Kindlmann P, **Schödelbauerová I**, Dixon AFG (2006) Inverse latitudinal gradients in species diversity. In: *Scaling Biodiversity* [Storch D & Marquet PA, eds.]. Cambridge University Press, Cambridge, UK, in press.
- Houdková K**, Kindlmann P (2005) Optimal foraging in insect predators: consequences for population dynamics. *Proceedings of International Symposium on Biological Control of Aphids and Coccids, Tsuruoka, Japan, September 25-29, 2005* [H. Yasuda, ed.], Faculty of Agriculture, Yamagata University, pp. 197-204.
- Kindlmann P, **Houdková K** (2005) Intraguild predation models: how relevant are they for aphidophagous insects? *Proceedings of International Symposium on Biological Control of Aphids and Coccids, Tsuruoka, Japan, September 25-29, 2005* [H. Yasuda, ed.], Faculty of Agriculture, Yamagata University, pp. 172-176.

Conferences – oral presentations

- Cížek O**, Zámečník J (2005) Maculinea teleius and river Elbe navigation: population ecology assessment of a proposed population transfer. *Butterfly Conservation 5th International Symposium 2005, Southampton University, Velká Británie, 8. –10. IV. 2005*
- Chaloupecká E** (2006) Comparative ecology of three closely related forget-me-not species (*Myosotis palustris* group). *Studenstská švédsko-ceská konference v Tovetorpu (Švédsko)*.
- Fric Z**, Hula V, Konvicka M (2005) Behaviour and habitat use of *Euphydryas aurinia* - a lesson of landscape level ethology. *XIV European Congress of Lepidopterology, Řím, Itálie, 12. - 17. IX. 2005*.
- Fric Z**, Hula V, Klímová M, Zimmerman K, Konvicka M (2005) Four fritillaries in the same network - Effects of conspecifics, habitat quality and matrix. *Butterfly Conservation 5th International Symposium, Southampton University, Velká Británie, 8. –10. IV. 2005*.
- Houdková K**, Kindlmann P (2006) Aphid suction trap data show that the within-taxon species-abundance relationship is weather-independent. *VIIIth European Congress of Entomology, Izmir, Turkey, September 17 -22, 2006*.
- Janda M** (2006) Ecology of New Guinea ants – exploring the unknown fauna. *The IUSSI (International Union for the Study of Social Insects)*, Srpen 2006, Washington, DC, USA

- Kindlmann P, **Houdková K** (2006) Using predators in biological control: evaluation of their impact on prey suppression. Invited lecture, *VIII th European Congress of Entomology, Izmir, Turkey, September 17 -22, 2006*.
- Kindlmann P, **Houdková K** (2006) Using predators in biological control: evaluation of their impact on prey suppression. *Behavioural Ecology of Insect Parasitoids, Juan-Les-Pins, France, September 25 -28, 2006*.
- Kociánová A** (2006) Reiteration in short-lived monocarpic herb *Rorippa palustris*. *Studenstská mezinárodní konference v Innsbrucku (Rakousko)*.
- Konvicka M, Benes J, **Cížek O** (2005) Too many deer in an abandoned coppice - the story Milovický wood, once the richest site in the Czech Republic. *V. Británie, Southampton, Butterfly Conservation 5th International Symposium, 2005*
- Konvicka M, Beneš J, **Fric Z** (2005) Declines and extinctions of butterflies in Europe - geographic patterns. *Butterfly Conservation 5th International Symposium, Southampton University, Velká Británie, 8. -10. IV. 2005*.
- Konvicka M, **Fric Z**, Beneš J, **Cížek O**, Zámecník J (2005) Descend towards unimodality: butterfly loss in Czechia changes a major macroecological pattern. *Ecology and Conservation of Butterflies in Europe, Lipsko, Německo, 5. - 9. XII. 2005*
- Koutecká (Chaloupecká) E** (2006) Regeneration strategy of three closely related forget-me-not species (*Myosotis palustris* group). *Studenstská mezinárodní konference v Innsbrucku (Rakousko)*.
- Lanta V** (2005) Effect of fertilization, slug grazing, plant functional diversity and plant species richness in field and greenhouse experiments on biomass production in grasslands. *Studenstská švédsko-ceská konference v Tovetorpu (Švédsko)*.
- Latzel V** (2006) Ramet versus seedling performance in two closely related *Plantago* species: effect of nutrient availability. *Studenstská mezinárodní konference v Innsbrucku (Rakousko)*.
- Macek P** (2006) Foraging behavior of snail eating bird *Aramus guarauna* is responsible for small-scale patchiness of vegetation in wetlands of northern Belize. *Studenstská mezinárodní konference v Innsbrucku (Rakousko)*.
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- Malíková L** (2005) Vegetative regeneration of short-lived plants in natural populations. *Studenstská švédsko-ceská konference v Tovetorpu (Švédsko)*.
- Martínková J** (2004) Resprouting after disturbance in the short-lived herb *Barbarea vulgaris* (Brassicaceae): effect of nutrient level, timing and severity of injury. *17th Annual Conference of the Ecological Society of Germany, Switzerland and Austria, 2004, Regensburg, Germany*
- Houdková K**, Kindlmann P (2005) Optimal foraging in insect predators: consequences for population dynamics. *International Symposium on Biological Control of Aphids and Coccids, Tsuruoka, Japan, September 25-29, 2005*
- Houdková K**, Kindlmann P (2005) Intraguild predation models: how relevant are they for aphidophagous insects? *International Symposium on Biological Control of Aphids and Coccids, Tsuruoka, Japan, September 25-29, 2005*.
- Hulcr J** (2005) Community of Ambrosia Beetles. *Annual Meeting of Entomological Society of America, Fort Lauderdale, Florida, 15.-18. prosince 2006*
- Hulcr J** (2005) Host specificity of tropical ambrosia beetles in Papua New Guinea. *8th Annual Graduate Student Forum, Department of Entomology, Texas A&M University, 23. srpen 2005*.
- Hulcr J** (2005) Scolytidae - the playground of evolution, pozvaný recník na setkání studentu entomologie na University of Texas, Austin, duben 2005.
- Janda M** (2005) Zvaná přednáška na téma: Evolution of social parasitism in ants, insights from phylogeny. *Universität Regensburg, Německo; 1. 12. 2005*.
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- Rico A**, Bohdal T, Kindlmann P, Sedláček F (2004) Indirect effects of roads on three species of small mammals *The 9th International Conference „Rodens et Spatium“ on Rodent Biology, Lublin, Poland, 12 - 16 July 2004*
- Rico A**, Kindlmann P, Sedláček F (2006) Can the barrier effect of highways cause genetic subdivision in small mammals? *10th International Conference on Rodent Biology: "Rodens & Spatium", Parma - Italy, July 24 - 28, 2006*

- Riegert J**, Pešata M, **Janecek Š**, Sedláček O Reif J, Horák D, Hrázský Z, Brom J, Bartoš M, Bystrická D (2004) Ecological interactions between plants and sunbird species in Bamenda Highlands, NW Cameroon. *11th Pan African Ornithological Congress, 20-25. November 2004, Island of Djerba - Tunisia*
- Sedláček O, Reif J, **Riegert J**, Horák D, Pešata M, Hrázský Z (2004) Bird community composition in Mt. Oku area, Bamenda Highlands, NW Cameroon. *11th Pan African Ornithological Congress, 20-25. November 2004, Island of Djerba - Tunisia*
- Štastná P** (2004) Herbochronology of *Rumex alpinus* along an altitudinal gradient. *17th Annual Conference of the Ecological Society of Germany, Switzerland and Austria, Regensburg, Germany.*

Conferences – posters

- Barcalová S**, Fucíková E, Veselý P, Landová E, **Prokopová M**, Exnerová A, Fuchs R (2004) Pattern of reaction to aposematic and artificially non-aposematic *Pyrrhocoris apterus* (Heteroptera: Pyrrhocoridae) within two genera of insectivorous birds (*Parus, Sylvia*). *10th Jubilee Congress of the International Society for Behavioral Ecology, ISBE 2004 v Jyväskylä, Finsko, 10 – 15 July 2004.*
- Cihakova V, **Fric Z**, Hula V, Konvicka M (2005) Size and shape variation in a population of *E. aurinia* - no biomechanical correlates disclosed. *Butterfly Conservation 5th International Symposium, Southampton University, Velká Británie, 8. –10. IV. 2005*
- Cížek L, **Fric Z**, Konvicka M (2004) Does voltinism in temperate insect herbivores depend on defences of their host plants? Comparative analysis using European butterflies. *XXII International Congress of Entomology - Strength in Diversity, Brisbane, Australia, 15 - 21 August 2004*
- Cížek O**, Konvicka M (2005) For whom the bells toll: Pending extinction of *Euphydryas maturna* (L., 1758) in the Czech Republic. *Butterfly Conservation 5th International Symposium, 2005, Southampton.*
- Fric Z**, Konvicka M (2004) Dispersal kernels, matrix, and marsh fritillary. *XXII International Congress of Entomology - Strength in Diversity, Brisbane, Australia, 15 - 21 August 2004*
- Fric Z**, Zahlavova L, Filipova L, Konvicka M (2005) Marsh Fritillary as indicator: congruency in butterfly, plant, and heteropteran diversity. *Butterfly Conservation 5th International Symposium, Southampton University, Velká Británie, 8. –10. IV. 2005*
- Hrcek J, **Janda M** (2005) Spatial and temporal distribution of nests of *Myrmica* ants hosting *Maculinea alcon*. *3rd European Congress on Social Insects, St. Petersburg, Russia, August 2005.*
- Janda M**, Hrcek J (2005) Ants in New Guinea rainforest canopy. *4th International Canopy Conference, Leipzig, Nemecko. Cervenec 2005.*
- Latzel V** (2005) Growth of tree co-occurring *Ranunculus* species in a wet oligotrophic meadow: Effect of competition and nutrient addition - 18. Výroční konference Ecological Society of Germany, Switzerland and Austria - Section of Plant Population Biology: "Progress in Population Biology" 4. - 8. 5. 2005, Potsdam, Germany
- Macek P**, Rejmánková E, **Houdková K** (2004) The effect of long term submergence on functional properties of *Eleocharis cellulosa*. *The 7th INTECOL international wetlands conference 2004, Utrecht, The Netherlands. 25.7 - 30.7 2004.*
- Riegert J**, Pešata M, Reif J, Horák D, Sedláček O, Hrázský Z, **Janecek Š**, Brom J, Bartoš M, Bystrická D (2004) Distribution and abundance of nectar resources in the territories of two sunbird species in Bamenda Highlands, NW Cameroon *11th Pan African Ornithological Congress, 20-25. November 2004, Island of Djerba - Tunisia*
- Sedláček O, **Riegert J**, **Janecek Š** (2004) Bird community composition of Bambili Lake Calderas, Bamenda Highlands, NW Cameroon. *11th Pan African Ornithological Congress, 20-25. November 2004, Island of Djerba – Tunisia.*
- Janecek Š** (2004) Foraging behaviour of three nectarivorous sunbird species. *11th Pan African Ornithological Congress, 20-25. November 2004, Island of Djerba– Tunisia*
- Janecek Š** (2004) Effect of litter, leaf cover and cover of basal internodes of dominant species *M. caerulea* on seedling recruitment. *Jöulumä (Estonia), 3. Nordic course on plant population 21-26 October 2004.*
- Macek P**, Rejmánková E., **Houdková K** (2004) The effect of long term submergence on functional properties of *Eleocharis cellulosa* *The 7th International wetland conference in Utrecht, The Netherlands, 25-30 July 2004.*
- ***Pech P**, **Fric Z**, Konvicka M (2004) Phylogeny of *Maculinea* butterflies based on morphological and ecological characters, and the evolution of parasitic myrmecophily. *Maculinea Management Midterm Meeting, Budapest, January 2004*
- Prokopová M**, Fuchs R, Zrzavý J (2004) The role of black pattern elements in the anti-predator warning signal in pyrrhocoroid bugs. *10th Jubilee Congress of the International Society for Behavioral Ecology, ISBE 2004 v Jyväskylä, Finsko, 10 – 15 July 2004.*

- Rico A**, Bohdal T, Kindlmann P, Sedláček F (2004) Effect of roads on small mammal populations. GFÖ, 34th Annual conference, Eco-complexity and dynamics of the cultural landscape, Giessen, Germany, 13 - 17 September 2004
- Rico A**, Kindlmann P, Sedláček F (2004) Effect of roads on small mammals populations. *34. Annual Conference of the Ecological Society, Giessen, Nemecko. 13. - 17.9. 2004*
- Rico A**, Kindlmann P, Sedláček F (2005). Do roads act as real barriers to the movement of small mammals. 9. *International Mammalogical Congress, Sapporo, Hokkaido, Japonsko. 31.7.-5.8. 2005.*
- Rico A**, Sedláček F, Kindlmann P (2005) Barrier effect of roads on two species of forest small mammals. *Landscape-scale Effects of roads on Biodiversity, Giessen, Nemecko. 2.-3.11.2005.*
- Tesarová M, **Prokopová M**, Fuchs R, Konvicka M, **Fric Z** (2004) Unpalatability of European checkerspot (Nymphalidae, Melitaeinae). *XXII International Congress of Entomology - Strength in Diversity, Brisbane, Australia, 15 - 21 August 2004*
- Veselý P, **Barcalová S**, Fuchs R. (2004) Reaction of blue tit (*Parus caeruleus*) and great tit (*Parus major*) to shield bug (*Graphosoma lineatum*). *10th Jubilee Congress of the International Society for Behavioral Ecology, ISBE 2004 v Jyväskylä, Finsko, 10 – 15 July 2004.*