

CURRICULUM VITAE

Mgr. Petra Hájková, PhD

Date and place of birth: 1.9.1975, Tábor, Czech Republic

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EDUCATION

- 1999 M.Sc. Palacký University, Olomouc, Faculty of Science, Systematic biology and ecology; MSc. thesis: Wetland vegetation and bryophytes in the Hostýnské vrchy Mts.
- 2005 PhD Masaryk University, Brno, Faculty of Science, Department of Botany, PhD. thesis: Ecology and development of Western Carpathian spring fens.

EMPLOYMENT

- 2003-present: research scientist, Masaryk University, Faculty of Sciences, Department of Botany and Zoology (half-time)
- 2004-present: scientist, Czech Academy of Science, Institute of Botany, Department of Vegetation Ecology (half-time)

RESEARCH INTEREST

Vegetation - environment relationships; ecology and biogeography of mires and springs; diversity patterns across scales and taxonomic groups; palaeoecology (development of mire vegetation, macrofossil analysis, quantitative reconstruction, transfer functions); linking recent ecology and palaeoecology; human influence on vegetation (management experiments, palaeoecological reconstructions).

TEACHING

- Supervisor of 2 postgraduate students in universities in Prag and Brno. 2 undergraduate students already finished at Masaryk University.
- Palaeoecological methodology (2013-present, Masaryk University)

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

- Czech Botanical Society
- Czech Society for Ecology
- Actaea NGO

COMMUNITY SERVICES

Organization of conferences (member of organizing committee):

- Conference of Czech Botanical Society (History of flora and vegetation in the late glacial and Holocene in the light of recent knowledge, Praha, 23.-24.11.2013);
- Conference of Czech Botanical Society (Ecology and evolution of Carpathian flora, Praha, 26-27.11.2016);

ACADEMIC AWARDS

- Rector's award for PhD theses (Masaryk university)

- Awards for co-authored monographs: 2007, Award of Presl brothers, Academy of Sciences of the Czech Republic (Vegetation of the Czech Republic); 2015, International Prize of Slovak Academy of Science (Vegetation of Slovakia)

RESEARCH PROJECTS

During last years participated in 12 scientific grant projects.

Selected projects:

- 2005: Diversity of wetland vegetation in the Bulgarian mountains; co-worker, funding by - Grant Agency of academy of Science ČR
- 2004-2007: Vegetation of the Czech Republic: formalized typology, monograph and expert system; co-worker, funded by the Grant Agency of the Czech Republic.
- 2003-2007: Vegetation diversity along the gradient of continentality in the Southern Siberia: key to understanding of early-Holocene history of Central Europe, co-worker, funded by - Grant Agency of Academy of Science ČR
- 2008-2009: Vegetation diversity of mesophilous and wet grasslands, co-worker, funded by Academy of Science of the Czech Republic and Bulgarian Academy of Science
- 2008-2012: Recent and historical changes of the Sudetian mountain peatbogs; co-worker, funded by the Grant Agency of the Czech Republic.
- 2009-2011: Vegetation of the Czech Republic: completion of the national survey of plant communities; co-worker, funded by the Grant Agency of the Czech Republic
- 2011-2015: Environmental gradients, vegetation dynamics and landscape changes in the West Carpathians from the Late Glacial up to present times; principal investigator, funded by the Grant Agency of the Czech Republic.
- 2017-2019: Holocene development of temperate European biota: effects of climate, refugia and local factors tested by complex datasets of independent proxies; co-worker, funded by the Grant Agency of the Czech Republic.

PUBLICATION ACTIVITY

Total number of accepted publications in ISI journals (16.3.2015): 75

Total number of book chapters: 12

Total number of other papers: ca 20

Total citations (Web of Science): 1137

h-index: 19

Selected publications

- Hájková P.**, Pařil P., Petr L., Chattová B., Matys Grygar T. and Heiri O. (2016): A first chironomid-based summer temperature reconstruction (13-5 ka BP) around 49°N in inland Europe compared with local lake development. *Quaternary Science Reviews* 141:94-111.
- Hájek M., Dudová L., **Hájková P.**, Roleček J., Moutelíková J., Jamrichová E. & Horsák M. (2016): Contrasting Holocene environmental histories may explain patterns of species richness and rarity in a Central European landscape. *Quaternary Science Reviews* 133: 48-61.
- Gálová A., **Hájková P.**, Čierníková M., Petr L., Hájek M., Novák J., Rohovec J. & Jamrichová E.

- (2016): Origin of a boreal birch bog woodland and landscape development on a warm low mountain summit at the Carpathian-Pannonian interface. *The Holocene* 26(7): 112-1125.
- Hájková P.**, Horsák M., Hájek M., Jankovská V., Jamrichová E. & Moutelíková J. (2015): Using multi-proxy palaeoecology to test a relict status of refugial populations of calcareous-fen species in the Western Carpathians. *The Holocene* 25(4): 702–715.
- Hájková P.**, Petr L., Horsák M., Rohovec J. & Hájek M. (2014). Interstadial inland dune slacks in south-west Slovakia: a multi-proxy vegetation and landscape reconstruction. *Quaternary International* 357: 314-328.
- Dudová L., **Hájková P.**, Opravilová V. & Hájek M. (2014). Holocene history and environmental reconstruction of a Hercynian mire and surrounding mountain landscape based on multiple proxies. *Quaternary Research* 82: 107-120.
- Jamrichová E., **Hájková P.**, Horsák M., Rybníčková E., Lacina A. & Hájek M. (2014). Landscape history, calcareous fen development and historical events in the Slovak Eastern Carpathians. *Vegetation History and Archaeobotany* 23: 497-513.
- Hájková P.**, Jamrichová E., Horsák M. & Hájek M. (2013): Holocene history of a *Cladium mariscus*-dominated calcareous fen in Slovakia: vegetation stability and landscape development. *Preslia* 85: 289–315.
- Hájková P.**, Grootjans A., Lamentowicz M., Rybníčková E., Madaras M., Opravilová V., Michaelis D., Hájek M. & Wolejko L. (2012): How a *Sphagnum fuscum*-dominated bog changed into a calcareous fen: unique Holocene history of a Slovak spring-fed mire. *Journal of Quaternary Science* 27: 233-243.
- Hájková P.**, Horsák M., Hájek M., Lacina A., Buchtová H. & Pelánková B. (2012): Origin and contrasting succession pathways of the Western Carpathian calcareous fens revealed by plant and mollusc macrofossils. *Boreas* 41: 690-706.
- Horsák M., Hájek M., Spitale D., **Hájková P.**, Dítě D. & Nekola J. C. (2012): The age of island-like habitats impacts habitat specialist species richness. *Ecology* 93: 1106-1114.
- Hájková P.**, Roleček J., Hájek M., Horsák M., Fajmon K., Polák M. & Jamrichová E. (2011): Prehistoric origin of extremely species-rich semi-dry grasslands in the Bílé Karpaty Mts. *Preslia* 83: 185-204.
- Hájková P.**, Hájek M. & Kintrová K. (2009): How can we effectively restore species richness and natural composition of a *Molinia*-invaded fen? *Journal of Applied Ecology* 46: 417-425.
- Hájková P.**, Hájek M., Apostolova I., Zelený D. & Dítě D. (2008): Shifts in the ecological behaviour of plant species between two distant regions: evidence from the base richness gradient in mires. *Journal of Biogeography* 35: 282-294