

Publications

2019

Hundsdoerfer, A. K., Lee, K. M., Kitching, I. J., & Mutanen, M. (2019) Genome-wide SNP data reveal an overestimation of species diversity in a group of hawkmoths. *Genome biology and evolution.*, 2136-2150. [PDF](#)

Hundsdoerfer, A. K., Buchwalder, K., O'Neill, M. A., & Dobler, S. (2019) Chemical ecology traits in an adaptive radiation: TPA-sensitivity and detoxification in *Hyles* and *Hippotion* (Sphingidae, Lepidoptera) larvae. *Chemoecology*, 1-13. [PDF](#)

Schniebs, K., Glöer, P., Vinarski, M.V., Beran, L., & **Hundsdoerfer, A. K.** (2019) Intraspecific morphological and genetic variability in the Palaeartic freshwater snail *Radix ampla* (Hartmann, 1821) (Gastropoda: Basommatophora: Lymnaeidae). *Journal of Conchology*, 43(3), 245-267.

2018

Barth, M. B., **Buchwalder, K.**, Kawahara, A. Y., Zhou, X., Liu, S., Krezdorn, N., Rotter, B., Horres, R. & **Hundsdoerfer, A. K.** (2018) Functional characterization of the *Hyles euphorbiae* hawkmoth transcriptome reveals strong expression of phorbol ester detoxification and seasonal cold hardiness genes. *Frontiers in Zoology*, 15(1), 20. [PDF](#)

Schniebs, K., Glöer, P., Quiñonero-Salgado, S., Lopez-Soriano, J., & **Hundsdoerfer, A. K.** (2018) The first record of *Galba cubensis* (L. Pfeiffer, 1839)(Mollusca: Gastropoda: Lymnaeidae) from open fields of Europe. *Folia Malacologica*, 26(1), 3-15. [PDF](#)

2017

Hundsdoerfer, A. K., Päckert, M., Kehlmaier, C., Strutzenberger, P., & Kitching, I. J. (2017) Museum archives revisited: Central Asiatic hawkmoths reveal exceptionally high late Pliocene species diversification (Lepidoptera, Sphingidae). *Zoologica Scripta* 46(5), 552-570. [Early View](#)

Hundsdoerfer, A. K., & Kitching, I. J. (2017) Historic DNA for taxonomy and conservation: A case-study of a century-old Hawaiian hawkmoth type (Lepidoptera: Sphingidae). *PLoS ONE* 12(3), e0173255 [PDF](#)

2016

Mende, M. B., Bartel, M., & **Hundsdoerfer, A. K.** (2016) A comprehensive phylogeography of the *Hyles euphorbiae* complex (Lepidoptera: Sphingidae) indicates a 'glacial refuge belt'. *Scientific Reports*, 6. [PDF](#)

Schniebs, K., Glöer, P., Vinarski, M. V. & **Hundsdoerfer, A.K.** (2016) A barcode pitfall in Palaeartic *Stagnicola* specimens (Mollusca: Lymnaeidae): Incongruence of mitochondrial genes, a nuclear marker and morphology. *North-Western Journal of Zoology* 12(2), 239-254.

2015

Schniebs, K., Georgiev, D., Glöer, P., & **Hundsdoerfer, A. K.** (2015) A molecular genetic evidence of the occurrence of the freshwater snail *Radix lagotis* (Schrank, 1803)(Gastropoda: Lymnaeidae) in Bulgaria. *Ecologica Montenegrina*, 3, 29-39. [PDF](#)

2014

Mende M.B. & **Hundsdoerfer A.K.** (2014) More evidence for an admixture of the *Hyles euphorbiae* complex's main lineages in Mediterranean Europe (Lepidoptera: Sphingidae). *European Journal of Entomology* 111(4), 584–587. [PDF](#)

Stuckas, H., Mende, M. & **Hundsdoerfer, A.K.** (2014) Response to cold acclimation in diapause pupae of *Hyles euphorbiae* (Lepidoptera, Sphingidae): candidate biomarker identification using proteomics. *Insect Molecular Biology* 23(4), 444-456. [PDF](#)

2013

Korn, M., Rabet, N., Ghatge, H.V. & **Hundsdoerfer, A.K.** (2013) Molecular phylogeny of the Notostraca. *Molecular Phylogenetics and Evolution* 69(3), 1159-1171. [PREVIEW](#)

Marrone, F., Lo Brutto, S., **Hundsdoerfer, A.K.** & Arculeo, M. (2013) Overlooked cryptic endemism in copepods: Systematics and natural history of the calanoid subgenus *Occidodiaptomus* Borutzky 1991 (Copepoda, Calanoida, Diaptomidae). *Molecular Phylogenetics and Evolution* 66(1), 190-202. [PDF](#)

Mende, M.B. & **Hundsdoerfer, A.K.** (2013) Mitochondrial lineage sorting in action -- historical biogeography of the *Hyles euphorbiae* complex (Sphingidae, Lepidoptera) in Italy. *BMC Evolutionary Biology* 13, 83. [PDF](#)

Schniebs, K., Glöer, P., Vinarski, M. V. & **Hundsdoerfer, A.K.** (2013) Intraspecific morphological and genetic variability in the European freshwater snail *Radix labiata* (Rossmäessler, 1835) (Gastropoda: Basommatophora: Lymnaeidae). *Contributions to Zoology* 82(1), 55-68. [PDF](#)

2012

Fritz, U., Stuckas, H., Vargas-Ramirez, M., **Hundsdoerfer, A.K.**, Maran, J., Paeckert, M. (2012) Molecular phylogeny of Central and South American slider turtles: implications for biogeography and systematics (Testudines: Emydidae: *Trachemys*). *Journal of Zoological Systematics and Evolutionary Research* 50(2), 125-136.

Schniebs, K., Gloer, P., Georgiev, D. & **Hundsdoerfer, A.K.** (2012) First record of *Stagnicola montenegrinus* Gloer & Pesic, 2009 (Mollusca: Gastropoda: Lymnaeidae) in Bulgaria and its taxonomic relationship to other European lymnaeids based on molecular analysis. *North-Western Journal of Zoology* 8(1), 164-171.

Vinarski, M.V., Schniebs, K., Gloer, P., Son, M.O. & **Hundsdoerfer, A.K.** (2012) The steppe relics: taxonomic study on two lymnaeid species endemic to the former USSR (Gastropoda: Pulmonata: Lymnaeidae). *Archiv für Molluskenkunde* 141(1), 67-85.

2011

Fritz, U., Branch, W.R., Hofmeyr, M.D., Maran, J., Prokop, H., Schleicher, A., Široký, P., Stuckas, H., Vargas-Ramírez, M., Vences, M. & **Hundsdoerfer, A.K.** (2011) Molecular phylogeny of African hinged and helmeted terrapins (Testudines: Pelomedusidae: *Pelusios* and *Pelomedusa*). *Zoologica Scripta* 40(2), 115-125.

Gong, S., Hitschfeld, E., **Hundsdoerfer, A.K.**, Auer, M., Wang, F., Zhou, L. & Fritz, U. (2011) Is the horned pitviper *Ceratrimeresurus shenlii* Liang and Liu, 2003 from China a valid *Protobothrops*? *Amphibia-Reptilia* 32, 132-135. [PDF](#)

Hundsdoerfer, A.K., Mende, M.B., Kitching, I.J. & Cordellier, M. (2011) Taxonomy, phylogeography and climate relations of the Western Palearctic spurge hawkmoth (Lepidoptera, Sphingidae, Macroglossinae). *Zoologica Scripta* 40(4), 403-417.

Hundsdoerfer, A.K., Mende, M.B., Harbich, H., Pittaway, A.R., & Kitching, I.J. (2011) Larval pattern morphotypes in the Western Palearctic *Hyles euphorbiae* complex (Lepidoptera: Sphingidae, Macroglossinae). *Insect Systematics & Evolution* 42, 41-86.

Mende, M.B., Stuckas, H. & **Hundsdoerfer, A.K.** (2011) Eight new microsatellite loci of the Western Palearctic *Hyles euphorbiae* complex (Lepidoptera, Sphingidae). *Annales Zoologici Fennici* 48, 142-146. [PDF](#)

Schniebs, K., Glöer, P., Vinarski, M.V. & **Hundsdoerfer, A.K.** (2011) Intraspecific and genetic variability in *Radix balthica* (Linnaeus 1758) (Gastropoda: Basommatophora: Lymnaeidae) with morphological comparison to other European *Radix* species. *Journal of Conchology* 40(6), 657-678. [PDF](#)

Vinarski, M.V., Schniebs, K., Glöer, P. & **Hundsdoerfer, A.K.** (2011) The taxonomic status and phylogenetic relationships of the genus *Aenigmomphiscola* Kruglov and Starobogatov, 1981 (Gastropoda: Pulmonata: Lymnaeidae). *Journal of Natural History* 45(33-34), 2049–2068.

2010

Fritz, U., Daniels, S.R., Hofmeyr, M.D., González, J., Barrio-Amorós, C.L., Široký, P., **Hundsdoerfer, A.K.** & Stuckas, H. (2010) Mitochondrial phylogeography and

subspecies of the wide-ranging sub-Saharan leopard tortoise *Stigmochelys pardalis* (Testudines: Testudinidae) – a case study for the pitfalls of pseudogenes and GenBank sequences. *Journal of Zoological Systematics and Evolutionary Research*, 48, 348-359.

Fritz, U., Gong, S., Auer, M., Kuchling, G., Schneeweiss, N. & **Hundsdoerfer, A.K.** (2010) The world's economically most important chelonians represent a diverse species complex (Testudines: Trionychidae: *Pelodiscus*). *Organisms, Diversity & Evolution*, 10, 227-242. [PDF](#)

Hundsdoerfer, A.K. & Kitching, I.J. (2010) A method for improving DNA yield from century-plus old specimens of large Lepidoptera while minimizing damage to external and internal abdominal characters. *Arthropod Systematics & Phylogeny* 68(1), 151-155. [PDF](#)

Hundsdoerfer, A.K., Sanetra, M., Corbeil, D. & Stuckas, H. (2010) Eleven hawkmoth microsatellite loci of Canary Island *Hyles tithymali* (Lepidoptera). *Conservation Genetics Resources* 2, 241–244.

Korn, M. Green, A.J., Machado, M., García-de-Lomas, J., Cristo, M., Cancela da Fonseca, L., Frisch, D., Pérez-Bote, J.L. & **Hundsdoerfer, A.K.** (2010) Phylogeny, molecular ecology and taxonomy of southern Iberian lineages of *Triops mauritanicus* (Crustacea: Notostraca). *Organisms, Diversity & Evolution* 10(5), 409-440. [PDF](#)

2009

Fritz, U., Ayaz, D., **Hundsdoerfer, A.K.**, Kotenko, T., Guicking, D., Wink, M., Tok, C. V., Çiçek, K. & Buschbom, J. (2009) Mitochondrial diversity of European pond turtles (*Emys orbicularis*) in Anatolia and the Ponto-Caspian Region: Multiple old refuges, hotspot of extant diversification and critically endangered endemics. *Organisms, Diversity and Evolution* 9, 100-114. [PDF](#) [eSuppl](#)

Fritz, U., Harris, J., Fahd, S., Rouag, R., Graciá Martínez, E., Giménez Casalduero, A., Kalboussi, M., Jdeidi, T., **Hundsdoerfer, A.K.** (2009) Mitochondrial phylogeography of *Testudo graeca* in the Western Mediterranean: Old complex divergence in North Africa and recent arrival in Europe. *Amphibia-Reptilia* 30, 63-80. [PDF](#)

Fritz; U., Auer; M., Chirikova, M. A., Duysebayeva, T.N., Eremchenko, V.K., Kami, H.G., Kashkarov, R.D., Masroor, R., Pindrani, A.; Široký, P. & **Hundsdoerfer, A.K.** (2009) Mitochondrial phylogeography of the wide-ranging Central Asian steppe tortoise (*Testudo horsfieldii* Gray, 1844). *Amphibia-Reptilia* 30, 245-257. [PDF](#)

Gong, S., Shi, H., Mo, Y., Auer, M., Vargas-Ramírez, M., **Hundsdoerfer, A.K.** & Fritz, U. (2009) Phylogeography of the endangered black-breasted leaf turtle (*Geoemyda spengleri*) and conservation implications for other chelonians. *Amphibia-Reptilia* 30, 57-62. [PDF](#)

Hundsdoerfer, A.K. & Wink, M. (2009) Experimental population genetics in insects: inheritance of ISSR-PCR bands in an artificial population. *Zootaxa* 2231, 40-46. [FIRST PAGE PDF](#)

Hundsdoerfer, A.K., Rheinheimer, J. & Wink, M. (2009) A molecular phylogeny of the Curculionoidea (Coleoptera): Reconstructions from mitochondrial and nuclear ribosomal DNA sequences. *Zoologischer Anzeiger* 248, 9-31. [PREVIEW](#)

Hundsdoerfer, A.K., Rubinoff, D., Attié, M., Wink, M. & Kitching, I.J. (2009) A revised molecular phylogeny of the globally distributed hawkmoth genus *Hyles* (Lepidoptera: Sphingidae), based on mitochondrial and nuclear DNA sequences. *Molecular Phylogenetics and Evolution* 52, 852-865.

Praschag, P., Holloway, R., Georges, A., Päckert, M., **Hundsdörfer, A.K.** & Fritz, U. (2009) A new subspecies of *Batagur affinis* (Cantor, 1847), one of the world's most critically endangered chelonians (Testudines: Geoemydidae). *Zootaxa* 2232, 57-68. [PDF](#)

Praschag, P., **Hundsdörfer, A.K.** & Fritz, U. (2009) Further specimens and phylogenetic position of the recently described leaf turtle species *Cyclemys gemeli* (Testudines: Geoemydidae). *Zootaxa* 2008, 29-37. [PDF](#)

2008

Buder, G., Grossmann, C., **Hundsdoerfer, A.K.** & Klass, K.-D. (2008) A contribution to the phylogeny of the Ciidae and its relationships with other cucujoid and tenebrionoid beetles (Coleoptera: Cucujiformia). *Arthropod Systematics & Phylogeny* 66, 165-190. [PDF](#) [eSuppl](#)

Dimaki, M., **Hundsdörfer, A.K.** & Fritz, U. (2008) Eastern Mediterranean chameleons (*Chamaeleo chamaeleon*, *Ch. africanus*) are distinct. *Amphibia-Reptilia* 29, 535-540. [PDF](#)

Fritz, U., Ayaz, D., Buschbom, J., Kami, H., Mazanaeva, L. F., Aloufi, A. A., Auer, M., Rifai, L., Šilić, T. & **Hundsdörfer, A.K.** (2008) Go east: Phylogeographies of *Mauremys caspica* and *M. rivulata* – discordance of morphology, mitochondrial and nuclear genomic markers and rare hybridization (Reptilia, Testudines, Geoemydidae). *Journal of Evolutionary Biology* 21, 527–540. [PDF](#) [eSuppl](#)

Fritz, U., Guicking, D., Auer, M., Sommer, R.S., Wink, M. & **Hundsdörfer, A.K.** (2008) Diversity of the Southeast Asian leaf turtle genus *Cyclemys*: how many leaves on its tree of life? *Zoologica Scripta* 37: 367-390.

2007

Fritz, U., **Hundsdörfer, A.K.**, Siroký, P., Auer, M., Kami, H., Lehmann, J., Mazanaeva, L. F., Türkozan, O. & Wink, M. (2007) Phenotypic plasticity leads to

incongruence between morphology-based taxonomy and genetic differentiation in western Palaearctic tortoises (*Testudo graeca* complex; Testudines, Testudinidae). *Amphibia-Reptilia* 28, 97-121. [PDF](#)

Praschag, P., **Hundsdoerfer, A.K.** & Fritz, U. (2007) Phylogeny and taxonomy of endangered South and Southeast Asian freshwater turtles elucidated by mtDNA sequences variation (Reptilia: Testudines: *Batagur*, *Callagur*, *Hardella*, *Kachuga*, *Pangshura*). *Zoologica Scripta* 36, 429-442.

Praschag, P., **Hundsdoerfer, A.K.**, Reza, A.H.M. & Fritz, U. (2007) Genetic evidence for wild-living *Aspideretes nigricans* and a molecular phylogeny of South Asian softshell turtles (Reptilia: Trionychidae: *Aspideretes*, *Nilssonina*) *Zoologica Scripta* 36, 301-310.

2006

Fritz, U., Auer, M., Bertolero, A., Cheylan, M., Fattizzo, T., **Hundsdoerfer, A.K.**, Martín Sampayo, M., Pretus, J., Sirokó, P. & Wink, M. (2006) A rangewide phylogeography of Hermann's tortoise, *Testudo hermanni* (Reptilia: Testudines: Testudinidae): implications for taxonomy. *Zoologica Scripta* 5, 531–543.

Harbich, H. & **Hundsdoerfer, A.K.** (2006) Untersuchungen an einem *Hyles* Freilandhybriden aus Nord Tunesien (Lepidoptera: Sphingidae). *Entomologische Zeitschrift* 116, 99-106.

Hundsdoerfer, A.K. & Wink, M. (2006) Incongruence of morphology and genetic markers in *Hyles tithymali* (Lepidoptera: Sphingidae) from the Canary Islands. *Journal of Zoological Systematics and Evolutionary Research* 44, 316–322.

Korn, M. & **Hundsdoerfer, A.K.** (2006) Cryptic species in the tadpole shrimp *Triops granarius* (Crustacea: Notostraca). *Zootaxa* 1257, 57–68. [FIRST PAGE PDF](#)

Korn, M., Marrone, F., Pérez-Bote, J.L., Machado, M., Cristo, M., Cancela da Fonseca, L. & **Hundsdoerfer, A.K.** (2006) Sister species within the *Triops cancriformis* lineage (Crustacea, Notostraca). *Zoologica Scripta* 35(4), 301-322.

2005

Hundsdoerfer, A.K. (2005) First record of *Hyles dahlia* (Geyer, 1827) (Lepidoptera: Sphingidae) on the African mainland. *Bonner Zoologische Beiträge* 53, 109-110. [PDF-link](#)

Hundsdoerfer, A.K., Kitching, I. J. & Wink, M. (2005) A molecular phylogeny of the hawkmoth genus *Hyles* (Lepidoptera: Sphingidae, Macroglossinae). *Molecular Phylogenetics and Evolution* 35, 442-458. [PREVIEW](#)

Hundsdoerfer, A.K., Kitching, I. J. & Wink, M. (2005) The morphological variability of *Hyles t. tithymali* (Boisduval) (Sphingidae: Lepidoptera) caterpillars on the Canary Islands . Entomologische Zeitschrift 115, 29-33.

Hundsdoerfer, A.K., Kitching, I. J. & Wink, M. (2005) The phylogeny of the *Hyles-euphorbiae*-complex (Lepidoptera: Sphingidae): molecular evidence from sequence data and ISSR-PCR fingerprints. Organisms, Diversity & Evolution 5, 173-198. [PDF](#)

Hundsdoerfer, A.K. & Wink, M. (2005) New source of genetic polymorphisms in Lepidoptera? Zeitschrift für Naturforschung 60c, 618-624. [PDF](#)

Hundsdoerfer, A.K. & Wink, M. (2005) Sequestration of phorbol esters by aposematic larvae of *Hyles euphorbiae*? Chemoecology 15, 261-267.