

SCIENTIFIC PUBLICATIONS – MICHAEL TRAUGOTT

Peer-reviewed book chapters

1. Heijboer A., Ruess L., **Traugott M.**, Jousset A. & de Ruiter P.C. (2017): Empirical methods of identifying and quantifying trophic interactions for constructing soil food web models. In: Moore, J., de Ruiter P.C., McCann K.S. & Wolters V.: Adaptive Food Webs: Stability and Transitions of Real and Model Ecosystems. Cambridge University Press, pp. 257-286.

Peer-reviewed papers in journals indexed by ISI (Web of Knowledge)

Accepted & published papers

1. Thalinge B., Oehm J. & **Traugott M.** (2021): Molecular methods to study cormorant feeding ecology. *ARDEA*, in press
2. Thalinge B., Rieder A., Teuffenbach A., Pütz Y., Schwerte T., Wanzenböck J. & **Traugott M.** (2021): The effect of activity, energy use, and species identity on environmental DNA shedding of freshwater fish. *Frontiers in Ecology and Evolution*, doi: 10.3389/fevo.2021.623718
3. Thalinge B., Deiner K., Harper L.R., Rees H.C., Blackman R.C., Sint D., **Traugott M.**, Goldberg C.S. & Bruce K. (2021): A validation scale to determine the readiness of environmental DNA assays for routine species monitoring. *Environmental DNA*, in press
4. **Traugott M.**, Thalinge B., Wallinger C. & Sint D. (2021): Fish as predators and prey: DNA-based assessment of their role in food webs. *Journal of Fish Biology* 98, 367–382.
5. Carbonne B., Petit S., Neidel V., Foffova H., Daouti E., Frei B., Skuhrovec J., Řezáč M., Saska P., Wallinger C., **Traugott M.** & Bohan D.A. (2020): The resilience of weed seedbank regulation by carabid beetles, at continental scales, to alternative prey. *Scientific Reports* 10: 19315, <https://doi.org/10.1038/s41598-020-76305-w>
6. Thalinge B., Kirschner D., Pütz Y., Moritz C., Schwarzenberger R., Wanzenböck J. & **Traugott M.** (2020): Lateral and longitudinal fish environmental DNA distribution in dynamic riverine habitats. *Environmental DNA*, 3:305–318. DOI: 10.1002/edn3.171
7. Günay Y., Trager H., Glarcher I., **Traugott M.** & Wallinger C. (2020): Limited detection of secondarily consumed plant food by DNA-based diet analysis of omnivorous carabid beetles. *Environmental DNA*, DOI: 10.1002/edn3.128
8. Straub C.S., Faselt J.A., Keyser E.S. & **Traugott M.** (2020): Host plant resistance promotes a secondary pest population. *Ecosphere* 11:e03073. 10.1002/ecs2.3073
9. Thalinge B., Wolf E., **Traugott M.** & Wanzenböck J. (2019): Monitoring spawning migrations of potamodromous fish species via eDNA. *Scientific Reports* 9:15388
10. Feit B., Blüthgen N., **Traugott M.** & Jonsson M. (2019): Resilience of ecosystem processes: a new approach shows that functional redundancy of biological control services is reduced by landscape simplification. *Ecology Letters* 22, 1568–1577.
11. Ortiz-Martinez, S., Staudacher K., Baumgartner V., **Traugott M.** & Lavandero B. (2019) Intraguild predation is independent of landscape context and does not affect the temporal dynamics of aphids in cereal fields. *Journal of Pest Science* doi.org/10.1007/s10340-019-01142-4

12. Ckrkic J, Petrovic A., Kocic K., Ye Z., Vollhardt I.M.G., Hebert P.D.N., **Traugott M.** & Tomanovic Z. (2019): Hidden in plain sight: phylogeography of an overlooked parasitoid species *Trioxys sunnysidensis* Fulbright & Pike (Hymenoptera: Braconidae: Aphidiinae). ***Agricultural and Forest Entomology***, 21, 299–308.
13. Vollhardt I.M.G, Ye Z., Parth N., Rubbmark O., Fründ J. & **Traugott M.** (2019): Influence of plant fertilisation on cereal aphid-primary parasitoid-secondary parasitoid networks in simple and complex landscapes. ***Agriculture, Ecosystems and Environment*** 281, 47-55.
14. Frei B., Guenay Y., Bohan DA., **Traugott M.** & Wallinger C. (2019): Molecular analysis indicates high levels of carabid weed seed consumption in cereal fields across Central Europe. ***Journal of Pest Science*** 92, 935–942.
15. Rennstam Rubbmark O., Sint D., Cupic S. & **Traugott M.** (2019): When to use NGS or diagnostic PCR in diet analyses. ***Molecular Ecology Resources*** 19, 388–399.
16. Sint D., Kaufmann R., Mayer R. & **Traugott M.** (2019): Resolving the predator first paradox: arthropod predator food webs in pioneer sites of glacier forelands. ***Molecular Ecology*** 28, 336–347.
17. Curtsdotter A., Banks H.T., Banks J.E., Jonsson M., Jonsson T., Laubmeier A.N., **Traugott M.** & Bommarco R. (2019): Ecosystem functioning in predator-prey food webs - confronting dynamic models with empirical data, ***Journal of Animal Ecology*** 88, 196–210.
18. Sint D., Guenay Y., Mayer R., **Traugott M.** & Wallinger C. (2018): The effect of plant identity and mixed feeding on the detection of seed DNA in regurgitates of carabid beetles. ***Ecology and Evolution*** 8, 10834–10846.
19. Rennstam Rubbmark O., Sint D., Horngacher N. & **Traugott M.** (2018): A broadly-applicable COI primer pair and an efficient single tube amplicon library preparation protocol for metabarcoding. ***Ecology and Evolution*** 8, 12335–12350.
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21. Ye Z., Vollhardt I.M.G, Parth N., Rubbmark O. & Traugott M. (2018): Facultative bacterial endosymbionts shape parasitoid food webs in natural host populations: a correlative analysis. ***Journal of Animal Ecology***, 87, 1440–1451.
22. Roubinet E., Tomas T., Malsher G., Staudacher K., **Traugott M.**, Ekbom B. & Jonsson M. (2018) High Redundancy as well as Complementary Prey Choice Characterize Generalist Predator Food Webs in Agroecosystems. ***Scientific Reports*** 8, 8054. DOI:10.1038/s41598-018-26191-0
23. Steinwandter M., Rief A., Scheu S., **Traugott M.** & Seeber J. (2018): Structural and functional characteristics of high alpine soil macro-invertebrate communities Journal: ***European Journal of Soil Biology*** 86, 72–80.
24. Briem F., Zeisler C., Güney Y., Staudacher K., Vogt H. & **Traugott M.** (2018): Identifying plant DNA in the sponging–feeding insect pest *Drosophila suzukii*. ***Journal of Pest Science*** 91, 985–994.
25. Kamenova S., Mayer R., Rubbmark O., Coissac E., Plantegenest M. & **Traugott M.** (2018): Comparing three types of dietary samples for prey DNA decay in an insect generalist predator. ***Molecular Ecology Resources*** 18, 966–973.

26. Wolf S., Zeisler C., Sint D., Romeis J., **Traugott M.** & Collatz J. (2018): A simple and cost-effective molecular way to track predation on *Drosophila suzukii* in the field. **Journal of Pest Science** 91, 927–935.
27. Eitzinger B., Rall B., **Traugott M.** & Scheu S. (2018): Testing the validity of functional response models using molecular gut content analysis for prey choice in soil predators. **Oikos** 127, 915–926.
28. Staudacher K., Rennstam Rubbmark O., Birkhofer K., Malsher G., Sint D., Jonsson M. & **Traugott M.** (2018): Habitat heterogeneity induces rapid changes in the feeding behaviour of generalist arthropod predators. **Functional Ecology** 32, 809–819.
29. Thalinger B., Sint D., Zeisler C., Kirschner D., Schwarzenberger R., Moritz C. & **Traugott M.** (2018): Quantification of fish populations using eDNA in alpine streams. **Wasserwirtschaft** 2-3, 30-34.
30. Yang F., Xu L., Wu Y.-K., Wang Q., Yao Z.-W., Žikić V., Tomanović Z., Ferrer-Suay M., Selfa J., Pujade-Villar J., **Traugott M.**, Desneux N., Lu Y.-H. & Guo Y.-Y. (2017): Species composition and seasonal dynamics of aphid parasitoids and hyperparasitoids in wheat fields in northern China. **Scientific Reports** 7 13989, Doi 10.1038/s41598-017-14441-6
31. Thalinger B., Oehm J., Obwexer A. & **Traugott M.** (2017): The influence of meal size on prey DNA detectability in piscivorous birds. **Molecular Ecology Resources** 17, e174 – e186. doi 10.1111/1755-0998.12706
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35. Roubinet E., Birkhofer K., Malsher G., Staudacher K., Ekbohm B., **Traugott M.**, Jonsson M. (2017): Diet of generalist predators reflects effects of cropping period and farming system on extra- and intraguild prey. **Ecological Applications** 27, 1167–1177.
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47. **Traugott M.**, Benefer C.M., Blackshaw R.P., van Herk W.G. & Vernon R.S. (2015): Biology, Ecology and Control of Elaterid Beetles in Agricultural Land. *Annual Review of Entomology* 60, 313-334.
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51. Wallinger C., Staudacher K., Schallhart N., Mitterrutzner E., Steiner E.-M., Juen A. & **Traugott M.** (2014): How generalist herbivores exploit belowground plant diversity in temperate grasslands. *Molecular Ecology* 23, 3826-3837.
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57. Waldner T., Sint D., Juen A. & **Traugott M.** (2013): The effect of predator identity on post-feeding prey DNA detection success in soil-dwelling macro-invertebrates. ***Soil Biology & Biochemistry*** 63, 116-123.
58. Staudacher K., Schallhart N., Pitterl P., Wallinger C., Brunner N., Kromp B., Landl M., Glauning J. & **Traugott M.** (2013): Occurrence of *Agriotes* wireworms in Austrian agricultural land. ***Journal of Pest Science*** 86, 33-39.
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81. Bell J.R., **Traugott M.**, Sunderland K.D., Skirvin D.J., Mead A., Kravar-Garde L., Reynolds K., Fenlon J. & W.O.C. Symondson (2008): Beneficial links for the control of aphids: the effects of compost applications on predators and prey. *Journal of Applied Ecology* 45, 1266–1273.
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