

7.2 List of publications

Musche, M., Settele, W., and Durka, W. (in press) Genetic population structure and reproductive fitness in the plant *Sanguisorba officinalis* in populations supporting colonies of an endangered *Maculinea* butterfly. *International Journal of Plant Sciences*.

Anton, C., **Musche, M.**, Hula, V., and Settele, J. (in press) *Myrmica* host-ants limit the density of the ant-predatory large blue *Maculinea nausithous*. *Journal of Insect Conservation*.

Anton, C., Zeisset, I., **Musche, M.**, Durka, W., Boomsma, J. J., and Settele, J. (2007) Population structure of a large blue butterfly and its specialist parasitoid in a fragmented landscape. *Molecular Ecology* 16, 3828-3838.

Schweiger, O., **Musche, M.**, Bailey, D., Billeter, R., Diekötter, T., Hendrickx, F., Herzog, F., Liira, J., Maelfait, J. P., Speelmans, M., and Dziock, F. (2007) Functional richness of local hoverfly communities (Diptera, Syrphidae) in response to land use across temperate Europe. *Oikos* 116, 461-472.

Anton, C., **Musche, M.**, and Settele, J. (2007) Spatial patterns of host exploitation in a larval parasitoid of the predatory dusky large blue *Maculinea nausithous*. *Basic and Applied Ecology* 8, 66-74.

Musche, M., Anton, C., Worgan, A., and Settele, J. (2006) No experimental evidence for host ant related oviposition in a parasitic butterfly. *Journal of Insect Behavior* 19, 631-643.

Dziock, F., Jentzsch, M., Stolle, E., **Musche, M.**, and Pellmann, H. (2004) Rote Liste der Schwebfliegen (Diptera: Syrphidae) des Landes Sachsen-Anhalt. *Berichte des Landesamtes für Umweltschutz Sachsen-Anhalt* 39, 403-409.

Thomas, C. D., Bodsworth, E. J., Wilson, R. J., Simmons, A. D., Davies, Z. G., **Musche, M.**, and Conradt, L. (2001) Ecological and evolutionary processes at expanding range margins. *Nature* 411, 577-581.

7.3 Declaration of own contributions to the original articles

Because several co-authors contributed to the original articles in the following the percentage of own work is displayed.

Chapter 2: Musche, M., Anton, C., Worgan, A., and Settele, J. (2006) No experimental evidence for host ant related oviposition in a parasitic butterfly. Journal of Insect Behavior 19, 631-643.

- Data collection in the field: 80%
- Data collection in the lab: 100%
- Statistical analysis: 95%
- Manuscript: 90%

Chapter 3: Musche, M., Settele, W., and Durka, W. (in press) Genetic population structure and reproductive fitness in the plant *Sanguisorba officinalis* in populations supporting colonies of an endangered *Maculinea* butterfly. International Journal of Plant Sciences.

- Collection of plant materials and field data: 100%
- Data gathering fitness traits: 100%
- AFLP analysis: 100%
- Statistical analysis: 100%
- Manuscript: 90%

Chapter 4: Musche, M., Settele, J., and Durka, W. (submitted to Annals of Botany) Performance and response to defoliation of *Sanguisorba officinalis* (Rosaceae) seedlings from mown and successional habitats

- Experimental setup in the green house: 100%
- Plant harvest and data collection in the lab: 100%
- Statistical analysis: 100%
- Manuscript: 95%