

PUBLICATIONS

(Heinz Müller-Schärer, May 2012)

By May 2012, HMS authored or co-authored 101 publications listed in the ISI Web of Science; h-index = 29 (see <http://www.unifr.ch/biol/ecology/muellerschaerer/group/mueller/webpage/>)

Original research articles

Hahn MA, Buckley YM and Müller-Schärer, H. 2012. Increased population growth rate in invasive polyploid *Centaurea stoebe* in a common garden. *Ecology Letters*, in press.

Mráz P, Španiel S, Keller A, Bowmann G, Farkas A, Šingliarová B, Rohr RP, Broennimann O and Müller-Schärer H. 2012. Anthropogenic disturbance as a driver of microspatial and microhabitat segregation of cytotypes of *Centaurea stoebe* and cytotype interactions in secondary contact zones. *Annals of Botany*, in press.

Mráz P, Garcia-Jacas N, Gex-Farbry E, Susanna A, Barres L and Müller-Schärer H. 2012. Allopolyploid origin of highly invasive *Centaurea stoebe* s.l. (Asteraceae). *Molecular Phylogenetics and Evolution*, 62, 612-623.

Collins AR and Müller-Schärer H. 2011. Influence of plant phenostage and ploidy level on oviposition and feeding of two specialist herbivores of spotted knapweed, *Centaurea stoebe*. *Biological Control*, 10.1016/j.biocontrol.2011.10.010.

Collins AR, Naderi R and Müller-Schärer H. Competition between cytotypes changes across a longitudinal gradient in *Centaurea stoebe* L. (Asteraceae). *American Journal of Botany*, 98: 1935–1942.

Callaway RM, Waller LP, Diaconu A, Pal, R, Collins AR, Mueller-Schaerer H, Maron JL. 2011. Escape from competition: neighbors reduce *C. stoebe* performance at home but not away. *Ecology*, in press, doi:10.1890/11-0518.1

Treier UA and Müller-Schärer, H. 2011. Differential effects of historical migration, glaciations, and human impact on the genetic structure and diversity of the mountain pasture weed *Veratrum album* L. *Journal of Biogeography*, 38, 1776–1791.

Schaffner U, Ridenour WM, Wolf VC, Bassett T, Caroline Müller C, Müller-Schärer H, Sutherland S, Lortie CJ, and Callaway RM. 2011. Plant invasions, generalist herbivores, and novel defense weapons. *Ecology* 92 (4), 829-835.

Mráz P, Bouchier R, Treier U, Schaffner U, Müller-Schärer H. 2011. Polyploidy in phenotypic space and invasion context: a morphometric study of *Centaurea stoebe*. *International Journal of Plant Sciences* 172 (3), 386-402.

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Henery ML, Bowman G, Mráz P, Treier, UA, Gex-Fabry E, Schaffner, U and Müller-Schärer H. 2010. Evidence for a combination of pre-adapted traits and rapid adaptive change in the invasive plant *Centaurea stoebe*. *Journal of Ecology* 98, 800-813.

Rapo C, Müller-Schärer H, Vrieling K and Schaffner U. 2010. Is there rapid evolutionary response in introduced populations of tansy ragwort, *Jacobaea vulgaris*, when exposed to biological control?" *Journal of Evolutionary Ecology*, 24, 1081-1099.

Bischoff, A., Steinger, T. and Müller-Schärer, H. 2010. The importance of plant provenance and genotypic diversity of seed material used for ecological restoration. *Restoration Ecology*, 18, 338-348.

Crémieux L, Bischoff A, Müller-Schärer H and Steinger T. 2010. Gene flow from foreign provenances into local plant populations: fitness consequences and implications for biodiversity restoration. *American Journal of Botany* 97, 94-100.

Bischoff A and Müller-Schärer H. 2010. Testing population differentiation in plant species: how important are environmental maternal effects. *Oikos* 119, 445-454.

Spiegelberger T, Müller-Schärer, H., Matthies, D. and Schaffner, U. 2009. Sawdust addition reduces the productivity of nitrogen-enriched mountain grasslands. *Restoration Ecology* 17 (6), 865-872.

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Hesse, E., Rees, M. and Müller-Schärer, H. 2008. Life history variation in contrasting habitats: flowering decisions in a clonal perennial herb (*Veratrum album*). *The American Naturalist* 172, E196-E213 (selected for Faculty of 1000 Biology: <http://www.f1000biology.com/article/id/1158050/evaluation>)

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Review articles

Gerber, E., Schaffner U, Gassmann A, Hinz, HL, Seier M and **Müller-Schärer H.** 2011. Prospects for biological control of *Ambrosia artemisiifolia* in Europe: learning from the past. *Weed Research*, 51, 559-573.

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Book chapters or books

Müller-Schärer H and Collins AR. 2012. Principles of Integrated Pest Management with Emphasis on Weeds. *Encyclopedia of Environmental Management* (ed. Jorgensen, S.E.) Taylor and Francis, New York

Müller-Schärer, H., Steinger, T. 2004. Predicting evolutionary change in invasive, exotic plants and its consequences for plant-herbivore interactions, In: *Genetics, Evolution and Biological Control* (edited by L. E. Ehler, R. Sforza and T. Mateille). CABI Publishing, Wallingford, UK, 137-162.

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Reports

Kikodze, D., Memiadze, N., Kharazishvili, D., Manvelidze, Z. and H. Müller-Schärer. 2010. The alien flora of Georgia, by the Federal Office of Environment; Swiss National Science Foundations (SCOPES), Georgian Ministry of the Environment; 40pp.

Comments

Simberloff D. et al. 2011. Non-natives: 141 scientists object. *Nature (Correspondence)* 475, 36.