

PUBLICATIONS

(Heinz Müller-Schärer, June 2022)

By early June 2022, Heinz Müller-Schärer authored or co-authored 239 publications in internationally refereed journals with 9125 citations, h-index =49 (30 since 2017; i10-index 135) (google scholar).

Bieker VC, Battlay P, Petersen B, Sun X, Wilson J, Brealey JC, Bretagnolle F, Nurkowski K, Lee V, Owens GL, Lee JY, Kellner FL, Boheeman L, Gopalakrishnan S, Gaudeul M, Mueller-Schaerer H, Karrer G, Chauvel B, Sun Y, Dalen L, Poczaï P, Rieseberg LH, Gilbert MTP, Hodgins KA, Martin MD. 2022. Uncovering the hologenomic basis of an extraordinary plant invasion. *bioRxiv*; <https://doi.org/10.1101/2022.02.03.478494>

Sun Y, Müller-Schärer H, Schaffner U. 2022. Fighting neobiota with neobiota: consider it more often and do it more rigorously. *Biological Conservation*, 268 109506; <https://doi.org/10.1016/j.biocon.2022.109506>.

Sun Y, Züst T, Silvestro D, Erb M, Bossdorf O, Mateo P, Robert C, Mueller-Schaerer H. 2022. Climate warming can reduce biocontrol efficacy and promote plant invasion due to both genetic and transient metabolomic changes. *Ecology Letters*, 25, 1387-1400.

Schaffner U, Müller-Schärer H, Lüscher A. 2022. Integrated weed management in grasslands. In: *Advances in integrated weed management*; Kudsk, P. (ed.), *Advances in integrated weed management*, Burleigh Dodds Science Publishing, Cambridge, UK, <http://dx.doi.org/10.19103/AS.2021.0098.15>.

Augustinus BA, Blum M, Citterio S, Gentili R, Helman D, Nestel D, Schaffner U, Müller-Schärer H, Lensky IM. 2022. Ground-truthing predictions of a demographic model driven by land surface temperatures with a weed biocontrol cage experiment. *Ecological Modelling* 466 1098.

Gentili R, Ambrosini R, Augustinus B, Caronni S, Cardarelli E, Montagnani C, Müller-Schärer H, Schaffner U, Citterio S. 2021. High phenotypic plasticity in a prominent plant invader along altitudinal and temperature gradients. *Plants*, 10, 2144, <https://doi.org/10.3390/plants10102144>

Litto M, Bouchemousse S, Schaffner U, and Müller-Schärer H. 2021. Population differentiation in response to temperature in *Ophraella communa*: implication for the biological control of *Ambrosia artemisiifolia*. *Biological Control*, 104777. DOI: [10.1016/j.biocontrol](https://doi.org/10.1016/j.biocontrol).

Kaleibar BP, Oveisi, M, Alizadeh H, Mueller-Schaerer H. 2021. A thermal time model for deciding herbicide dose in maize. *Weed Research*, 61:465–474, DOI: [10.1111/wre.12503](https://doi.org/10.1111/wre.12503).

Benchaâ S, Bouchemousse S, Abdelkrim H and Müller-Schärer H. 2021. Absence of genetic differentiation in performance traits of *Sinapis arvensis* populations from crop and non-crop habitats across Northern Algeria: implications for management. *Weed Research*, 61, 243–252. DOI: [10.1111/wre.12481](https://doi.org/10.1111/wre.12481).

Savić A, Oveisi M, Božić D, Pavlović D, Saulić M, Müller Schärer H, Sava Vrbničanin S. 2021. Competition between *Ambrosia artemisiifolia* and *Ambrosia trifida*: is there a threat of a stronger competitor? *Weed Research*, 61, 298–306. DOI: [10.1111/wre.12479](https://doi.org/10.1111/wre.12479).

Sun Y, Kaleibar BP, Oveisi M and Müller-Schärer H. 2021. Addressing climate change: what can plant invasion science and weed science learn from each other? *Frontiers in Agronomy*. 2:626005. [Doi.org/10.3389/fagro.2020.626005](https://doi.org/10.3389/fagro.2020.626005).

Oveisi M, Ojaghi A, Mashhadi HR, Müller Schärer H, Yazdi KR, Kaleibar BP, Soltani E. 2021. Potential for endozoochorous seed dispersal by sheep and goats: Risk of weed seed transport via animal faeces. *Weed Research*, 61:1–12 (EDITOR'S CHOICE).

Sun Y, Beuchat C and Müller-Schärer H. 2020. Is biocontrol efficacy rather driven by the plant or the antagonist genotypes?: a conceptual bioassay approach. *Neobiota*, 63:81-100.

Oveisi M, Kaleibar BP, Mashhadi HR, Mueller Schaerer H, Bagheri A, Amani M, Elahinejad M, Masoumi D. 2021. Bean cultivar mixture allows reduced herbicide dose while maintaining

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- Sun Y, Bossdorf O, Diaz Grados R, Liao ZY and Müller-Schärer H. 2020. Rapid genomic and phenotypic change in response to climate warming in a widespread plant invader. *Global Change Biology* 26, 6511–6522; DOI: 10.1111/gcb.15291.
- Augustinus BA, Gentili R, Horváth D, Naderi R, Sun Y, Tournet AM, Schaffner U, Müller-Schärer H. 2020 Assessing the risks of non-target feeding by the accidentally introduced ragweed leaf beetle, *Ophraella communa*, to native European plant species. *Biological Control*, in press. doi.org/10.1016/j.biocontrol.2020.104356
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