

Publications

Publications dans des revues scientifiques avec Facteur Impact (IF)

Since 2020

Montana J., Heger T., Kelz R., Bischoff A., Buitenwerf R., Eser U., Kung K., Sattler J., Schweiger A.H., Searle A., Teixeira L.H., Travassos-Britto B., Higgs E. (in press). From novel ecosystems to novel natures. GAIA - Ecological Perspectives for Science and Society.

Melloul E., Rocher L., Gros R., Bischoff A., Blight O., (2024). Irrigation decreases flower cover and beneficial arthropod abundances in Mediterranean vineyards. Basic and Applied Ecology.

Medina van Berkum P., Schmoeckel E., Bischoff A., Carrasco-Farias N., Catford J., Feldmann R., Groten K., Henry H., Bucherova A., Haenniger S., Luong J., Meis J., Oetama V., Pärtel M., Power S., Vilellas J., Welk E., Wingler A., Rothe B., Gershenzon Jo., Reichelt M., Roscher C., Unsicker S. (2024). Plant geographic distribution influences chemical defenses in native and introduced *Plantago lanceolata* populations. Functional Ecology.

Laffon L., Bischoff A., Blaya R., Lescourret F., Franck P. (2024) Spontaneous flowering vegetation favours hoverflies and parasitoid wasps in apple orchards but has low cascading effects on biological pest control. Agriculture, Ecosystems and Environment 359, 108766.

Rocher L., Melloul E., Blight O., Bischoff A. (2024) Effect of spontaneous vegetation on beneficial arthropods in Mediterranean vineyards. Agriculture, Ecosystems and Environment 359, 108740.

Durbecq A., Bischoff A., Buisson E., Corcket E., Jaunatre R. (2023) Using priority effects for grassland restoration : sequential sowing can promote subordinate species. Applied Vegetation Science 26, e12748.

Durbecq A., Jaunatre R., Buisson E., Favale C., Maudieu N., Bischoff A. (2023) Persisting effects of seed bed preparation and early grazing on plant communities in grassland restoration. Frontiers in Ecology and Evolution 11, 1152549.

Lambert Q., Bischoff A., Gros R. (2023) Photovoltaic power stations : an opportunity to promote European semi-natural grasslands ? Frontiers in Environmental Science 11, 1137845.

Rocher L., Blaya R., Blaise C., Bischoff A., Blight O. (2022) Species and functional responses of ants to inter-row tillage and vegetation in organic Mediterranean vineyards. Basic and Applied Ecology 65, 126-135. Basic and Applied Ecology 62, 33-44.

Laffon L., Bischoff A., Gautier H., Gilles F., Gomez L., Lescourret F., Franck P. (2022). Conservation biological control of codling moth (*Cydia pomonella*) : Effects of two aromatic plants, basil (*Ocimum basilicum*) and French marigolds (*Tagetes patula*). Insects 13, 908, 1-11.

Lambert Q., Gros R., Bischoff A. (2022) Restoration of solar park plant communities and the effect of solar panels. Ecological Engineering 182, 106722.

Bischoff A., Pollier A., Tricault Y., Plantegenest M., Chauvel B., Franck P., Gardarin A. (2022) A multi-site experiment to test biocontrol effects of wildflower strips in different French climate zones. *Basic and Applied Ecology* 62, 33-44.

Blaise C., Mazzia C., Bischoff A., Millon A., Ponel P., Blight O. (2022) Vegetation increases abundances of ground and canopy arthropods in Mediterranean vineyards. *Scientific Reports* 12, 3680, 1-10.

Durbecq A., Rocher L., Jaunatre R., Dupré La Tour, A., Buisson E., Bischoff A. (2022) Mountain grassland restoration using hay and brush material transfer combined with temporary wheat cover. *Ecological Engineering* 174, 106447.

Lambert Q., Bischoff A., Cueff S., Cluchier A., Gros R. (2021) Effects of solar park construction and solar panels on soil quality, microclimate, CO₂ effluxes and vegetation under Mediterranean climate. *Land Degradation & Development* 32, 5190–5202.

Blaise C., Mazzia C., Bischoff A., Millon A., Ponel P., Blight O. (2021) The key role of inter-row vegetation and ants on predation in Mediterranean organic vineyards. *Agriculture, Ecosystems and Environment* 311, 107327, 1-8.

Durbecq A., d'Ambly M., Jaunatre R., Buisson E., Cluchier A., Bischoff A. (2021) Seedling recruitment in mountain grassland restoration : effects of soil preparation and grazing. *Applied Vegetation Science* 24:e12564, 1-11.

Buisson E., De Almeida T., Durbecq A., Arruda A.J., Vidaller C., Alignan J.F., Shizen T.P.T., Hess M.C.M., Pavon D., Isselin-Nondedeu F., Jaunatre R., Moinardeau C., Young T.P., Mesléard F., Dutoit T., Blight O., Bischoff A. (2021). Key issues in North-Western Mediterranean dry grassland restoration. *Restoration Ecology* 29, No. S1, e13258, 1-10.

Durbecq A., Jaunatre R., Buisson E., Cluchier A., Bischoff A. (2020). Identifying reference communities in ecological restoration : the use of environmental conditions driving vegetation composition. *Restoration Ecology* 28, 1445-1453.

Vidaller C., Baumel A., Juin M., Dutoit T., Bischoff, A. (2020) Comparison of neutral and adaptive differentiation in the Mediterranean grass *Brachypodium retusum*. *Botanical Journal of the Linnean Society* 192, 536-549.

2015-2019

Hanslin H.M., Bischoff A., Hovstad K.A. (2019) Root growth plasticity to drought in perennial grass seedlings. *Plant and Soil* 440, 551-568.

Pollier A., Tricault Y., Plantegenest M., Bischoff, A. (2019) Sowing of margin strips rich in floral resources improves herbivore control in adjacent crop fields. *Agricultural and Forest Entomology* 21, 119-129.

Vidaller C., Dutoit T., Ramone H., Bischoff A. (2019) Factors limiting early establishment of the Mediterranean grassland species *Brachypodium retusum* at disturbed sites. *Basic and Applied Ecology* 37, 10-19..

Vidaller, C., Dutoit, T., Ramone, H., Bischoff, A. (2019) Fire increases the reproduction of the dominant grass *Brachypodium retusum* and Mediterranean steppe diversity in a combined burning and grazing experiment. *Applied Vegetation Science* 22, 127-137.

Bischoff, A., Hoboy, S., Winter, N., Warthemann, G. (2018) Hay and seed transfer to re-establish rare grassland species and communities : how important are date and soil preparation ? *Biological Conservation* 221, 182-189.

Breed, M.F., Harrison, P.A., Bischoff, A., Durruty, P., Gellie, N.G.C., Gonzales, E.J., Havens, K., Karmann, M., Kilkenny, F.F., Lowe, A.J., Marques, P., Nevill, P.G., Vitt, P.L., Bucharova, A. (2018) Priority actions to improve provenance decision making. *Bioscience* 68, 510-516.

Santos L.A.O., Costa M.B., Lavigne, C., Fernandes O.A., Bischoff A., Franck P. (2018) Influence of the margin vegetation on the conservation of aphid biological control in apple orchards. *Journal of Insect Conservation* 22, 465-474.

Santos L.A.O., Bischoff A., Fernandes O.A. (2018) he effect of forest fragments on abundance, diversity and species composition of predatory ants in sugarcane fields. *Basic and Applied Ecology* 33, 58-65.

Vidaller C., Dutoit T., Ibrahim Y., Hanslin H.M., Bischoff A. (2018) Adaptive differentiation among populations of the Mediterranean dry grassland species *Brachypodium retusum* - the role of humidity, grazing and soil conditions. *American Journal of Botany* 105, 1123-1132.

Gardarin, A., Plantegenest, M., Bischoff, A., Valantin-Morison, M. (2018) Understanding plant-arthropod interactions in multitrophic communities to improve conservation biological control : useful traits and metrics. *Journal of Pest Science* 91, 943-955.

Pollier, A., Guillomo, L., Tricault, Y., Plantegenest, M., Bischoff, A. (2018) Effects of spontaneous field margin vegetation on the regulation of herbivores in two winter crops. *Basic and Applied Ecology* 27, 71-82.

Bischoff, A., Pollier, A., Lamarre, E., Salvadori, O., Cortesero, A., Le Ralec, A., Tricault, Y., Jaloux, B. (2016) Effects of spontaneous field margin vegetation and surrounding landscape on Brassica oleracea crop herbivory. *Agriculture, Ecosystems and Environment* 223, 135–143 (IF 3,564, rang 39/224 environmental sciences).

Pollier, A., Dosdat, S., Tricault, Y., Bischoff, A., Plantegenest, M., Jaloux, B. (2016) Using the stable isotope marker ¹³C to study extrafloral nectar uptake by parasitoids under controlled conditions and in the field. *Entomologia Experimentalis et Applicata* 161, 131-140 (IF 1,442, rang 32/94).

2010-2014

Bischoff, A. & Hurault, B. (2013) Scales and drivers of local adaptation in *Brassica nigra* (Brassicaceae) populations. *American Journal of Botany* 100, 1162-1170 (IF 2,811, rang 43/209 plant sciences).

Bischoff, A. & Trémulot, S. (2011) Genetic differentiation and adaptation of plant populations : how important are related herbivores. *Oecologia* 165, 971–981.

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

Bischoff, A., Steinger, T. & Müller-Schärer, H. (2010) The effect of plant provenance and intraspecific diversity on the fitness of four plant species used in ecological restoration. *Restoration Ecology* 18, 338-348.

Crémieux, L., Bischoff, A., Steinger, T. & Müller-Schärer, H. (2010) Consequences of genetic introgression from foreign provenances into local plant populations. *American Journal of Botany* 97, 94-100.

Van der Mijnsbrugge, K., Bischoff, A. & Smith, B. (2010) A question of origin : where and how to collect seed for ecological restoration ? *Basic and Applied Ecology*, *Basic and Applied Ecology* 11, 300-311.

2005-2009

Bischoff, A. & Warthemann, G. & Klotz, S. (2009) Re-colonisation of floodplain grasslands – the importance of abiotic conditions and source populations. *Journal of Applied Ecology* 46, 241-249.

Crémieux, L., Bischoff, A., Smilauerova, M., Lawson, C., Mortimer, S., Dolezal, J., Lanta, V., Edwards, A., Brooks, A., Tscheulin, T., Macel, M., Leps, J., Steinger, T. & Müller-Schärer, H. (2008). Potential contribution of natural enemies to patterns of local adaptation in plants. *New Phytologist* 180, 524-533.

Macel, M., L., Lawson, C., Mortimer, S., Smilauerova, M., Bischoff, A., Crémieux, Dolezal, J., Lanta, V., Edwards, A., van der Putten, W.H., Rodriguez-Barrueco, C., Leps, J., Steinger, T. & Müller-Schärer, H. (2007) Aboveground versus below-ground factors in local adaptation of two common plant species. *Ecology* 88, 424-433.

Bischoff, A., Crémieux, L., Smilauerova, M., Lawson, C., Mortimer, S., Dolezal, J., Lanta, V., Edwards, A., Brooks, A., Macel, M., Leps, J., Steinger, T. & Müller-Schärer, H. (2006) Detecting local adaptation in widespread grassland species – the importance of scale and local plant community. *Journal of Ecology* 94, 1130-1142.

Bischoff, A., Vonlanthen, B., Steinger, T. & Müller-Schärer, H. (2006) Seed provenance matters – effects on germination of four plant species used for ecological restoration on arable land. *Basic and Applied Ecology* 7, 347-359.

Bischoff, A., Auge, H. & Mahn, E.-G. 2005 : Changes of the relationship between species richness and productivity in early succession. *Basic and Applied Ecology* 6, 385-394.

Bischoff, A. (2005) The importance of seed dispersal in restoring weed communities. *Agriculture, Ecosystems and Environment* 106, 377-387.

Avant 2005

Bischoff, A. (2002) Dispersal and establishment of floodplain grassland species as limiting factors of restoration. *Biological Conservation* 104, 25-33.

Bischoff, A. (2000) Dispersal and re-establishment of *Silaum silaus* in floodplain grasslands. *Basic and Applied Ecology* 1, 129-131.

Bischoff, A. & Mahn, E.-G. (2000) The effects of nitrogen and diaspore availability on the regeneration of weed communities following extensification. *Agriculture, Ecosystems and Environment* 77, 237-246.

Bischoff, A. (1999) Temporal and spatial dynamics of *Lithospermum arvense* L. populations on arable fields and the effect of different crop management. *Flora* 194, 127-136.

Bischoff, A. & Mahn, E.-G. (1995) The regeneration of highly N-polluted fields under extensified agricultural practice – Studies on the population biology of weeds. *Proceedings of the Society of Ecology (GfÖ)* 24, 99-104.

Bischoff, A. & Mahn, E.-G. (1994) Structural changes of weed communities on highly-N-polluted fields under extensified agricultural practice. *Journal of Plant Diseases and Protection, Special Issue XIV*, 65-74.

• **Publications dans des ouvrages scientifiques et techniques**

Vellot, O., Cluchier, A., Volte, P., Bigotte, J., Devoucoux, P., Kaldonski, N., Bischoff, A., Gros, R., Neve, G., Illac, P. (2020). PIESO-BOOST : Boîte à Outils pour l'Optimisation des Suivis écologiques et des Techniques d'intégration de l'énergie solaire, 1-130. <https://ecommed.fr/2020/11/09/pieso-processus-dintegration-ecologique-de-lenergie-solaire/>

Durbecq A., Jaunatre R., Buisson E., Cluchier A., Duhatois, S., Dupré La Tour, A., Bischoff A. (2019) Restauration et succession écologiques des prairies montagnardes de Haute-Durance après perturbation du sol. In : Khater, C., Yessef, M., & Dutoit, T. (eds) : Réhabilitation des carrières en région méditerranéenne : défis ou besoins incontournables? CNRS-L / AUF, 31-34.

Odorizzi dos Santos, L.A., Lavigne, C., Franck, P., Bischoff, A., Fernandes O.A. 2016. O potencial de flores entomófilas no controle biológico conservativo em agroecossistemas. In Camos Castilho R., Busoli, A., de Andrade D., Duarte Rossi, G., Marconnato di Bello, M., Moreira Brenha, J.A. (eds): *Temas em Entomologia Agrícola IX*, 61-72 (en portugais).

Bischoff, A. (2014) The limits of local adaptation in plants and consequences for ecological restoration. In Kiehl et al. *Guidelines for native seed production and grassland restoration*. Cambridge Scholars Publishing, 37-56.

Bischoff, A. (2001) The importance of dispersal in restoring plant communities of agro-ecosystems following reduction of land use intensity. In H. Mühle & al. : *Impact*

of land use on landscape household and biodiversity in landscapes dominated by agriculture. *UFZ-Berichte* 16/2001, 57-71 (in German with English abstract).

Bischoff, A. (1996) Population and vegetation dynamics in agro-ecosystems with high N-load after change to extensive management. *Dissertationes Botanicae* 268, 1-184 (Ph.D. thesis, in German with English abstract).

Mahn, E.-G. & Bischoff, A. (1995) Community structure and population dynamics of weed species. In M. Körschens & E.-G. Mahn : *Regeneration of agro-ecosystems in the central German chernozem region*. B.G. Teubner, Stuttgart-Leipzig, 313-348 (in German).

- **Publications dans des actes de colloque (avec ISBN)**

Franck P., Laffon L., Olivares J., Lescourret F., Bischoff A. (2024) A metabarcoding exploration of ecological interactions among hoverflies, spontaneous vegetation and aphids in apple orchards. *IOBC-WPRS Bulletin* 170.

Malaval S., Bischoff A., Provendier D., Boutaud M., Dao J., Bardin P., Millet J., Dixon L. (2018) : *Végétal local : Un label français pour la conservation de la flore indigène*. EurogardVII Congress Proceedings, 234-242.

Franck, P, Odorizzi, L.A., Botelho Costa, M., Lavigne, C., Fernandes, O.A., Bischoff, A. (2017), Impact of agro-ecological infrastructures on the control of insect pests in apple orchards. *IOBC-WPRS Bulletin* 122, 21-25.

Bischoff, A., Jaloux, B., Lamarre, E., Pollier, A., Salvadori, O. & Tricault, Y. (2013) Ecosystem services of non-crop vegetation in agricultural landscapes - the control of crop herbivory, *Proceedings of the Society of Ecology (GfÖ)* 44, 56.

Bischoff, A., Warthemann, G. (2011) Dispersal and microsite limitation in floodplain grassland restoration. 54th Symposium of the International Association for Vegetation Science. *Book of Abstracts*, 139.

Bischoff, A. & Trémulot, S. (2009) Genetic differentiation and adaptation of plant populations : how important are related herbivores. 39th Annual Conference of the Society of Ecology (GfÖ), *Book of Abstracts*. Bayreuther Forum Ökologie 115, 44.

Bischoff, A., Warthemann, G. & Winter, N. (2008) Restoring plant biodiversity in riverine grasslands of Central Germany. *Proceedings of the Society of Ecology (GfÖ)* 38, 312.

Bischoff, A., Vonlanthen, B. & Müller-Schärer, H. (2007) The contribution of environmental maternal effects to population differentiation of plant species used in ecological restoration *Proceedings of the Society of Ecology (GfÖ)* 37, 148.

Bischoff, A., Müller-Schärer, H. (2006) The importance of provenance and genetic diversity of seed material used in ecological restoration. *Proceedings of the Society of Ecology (GfÖ)* 36, 363.

Bischoff A., Crémieux, L., Smilauerova, M., Lawson, C., Mortimer, S., Steinger, T., Leps, J. & Müller-Schärer, H. (2005) Local adaptation in plant populations and interactions with herbivores and pathogens. *Proceedings of the Society of Ecology (GfÖ)* 35, 108.

Bischoff, A. & Warthemann, G. (2004) The analysis of factors determining the success of grassland restoration - problems and solutions. Proceedings of the Society of Ecology (GfÖ) 34, 154.

Bischoff A., Müller-Schärer H. (2003) Local adaptation of plant populations and consequences for restoration by sowing. Proceedings of the Society of Ecology (GfÖ) 33, 190.

Bischoff A. (2003) Can dispersal determine local distribution of plant species in cultural landscapes ? - Proceedings of the Society of Ecology (GfÖ) 33, 222.

Bischoff, A. & G. Warthemann, G. (2002) Requirements of floodplain grassland restoration. - Proceedings of the Society of Ecology (GfÖ) 32, 315.

Warthemann, G. & Bischoff, A. (2002) Regeneration of typical plant species in floodplain grasslands. Proceedings of the Society of Ecology (GfÖ) 32, 326.

Bischoff, A. (2001) Dispersal and establishment of floodplain grassland species as limiting factors of restoration. - Proceedings of the Society of Ecology (GfÖ) 31, 213.

Bischoff, A. (2000) Ausbreitung und Reetablierung von *Silva silaus* (L.) auf Auengrünland-flächen. Proceedings of the Society of Ecology (GfÖ) 30, 125.

Bischoff, A. (1999) The effect of nitrogen fertilisation on weed growth at different light intensity levels. Proceedings of the 11th EWRS Symposium, 74.

- **Publications dans des revues techniques et de conservation (avec ISBN)**

Vidaller C., Dutoit T., Bischoff A. (2021) Quels facteurs limitent l'installation d'une graminée pérenne dominante (*Brachypodium retusum* (Pers.) P. Beauv) pour la restauration écologique des pelouses sèches méditerranéennes ? *Naturae* 24, 333-343.

Pollier A., Bischoff A., Plantegenest M., Tricault Y. (2019) La végétation des bordures de parcelles agricoles, des espaces importants pour le contrôle biologique. *Revue AE&S* 9.

Corcket, E., Benot, M.-L., Bischoff, A., Poncin, G., Henriot, L. (2015). Restauration écologique d'une ancienne maïsiculture en zone alluviale : l'île de Raymond en bord de Garonne. *Penn Ar Bed* 220, 3-9.

Warthemann, G., Winter, N., Bischoff, A. (2009) Renaturierung von Brenndolden-Auenwiesen durch Mahdgutübertragung in der Elbeaue bei Dessau. *Naturschutz im Land Sachsen-Anhalt* 46, Sonderheft 1 (Forschung und Management im Biosphärenreservat Mittelbe), 49-56.

Bischoff, A., Müller-Schärer, H. (2005) Creation of ecological compensation areas – the importance of seed provenance. *Hotspot* 11, 17 (in German and French).

Bischoff, A. (2001) The dispersal of plant species in agricultural landscapes and the importance for restoration. *Aktuelle Reihe der BTU Cottbus* 7, 66-78 (in German).

Bischoff, A. (2000) Re-colonization processes in agro-ecosystems following extensification : floodplain grassland. *Schriftenreihe Agrarspectrum* 31, 108-120 (in German with English Abstract).

Bischoff, A. (1999) The effect of long-term and rotational set-aside on the vegetation dynamics of N-loaded fields. *Mitteilungen der Biologischen Bundesanstalt für Land- und Forst-wirtschaft Berlin-Dahlem* 368, 103-116 (in German with English abstract).

Bischoff, A. (1998) Which factors determine the re-colonisation of rare weed species in arable fields following reduction in land use intensity. *Schriftenreihe der Landesanstalt für Pflanzenbau und Pflanzenschutz Mainz* 6, 171-185 (in German).

Bischoff, A. (1996) The regeneration of plant and animal communities in arable fields with high fertiliser residues – results from the STRAS project. *NNA-Berichte* 9(2), 12-23 (in German).