

## Professional CV of Markus Fischer, 31 March 2015

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### Research interests

My main research foci are drivers and functional consequences of biodiversity change, the ecology and evolution of rare and invasive plants, conservation biology and work at the science-society and science-policy interfaces.

### Education

1982–1989 Studies in Physics, Technical University Munich, Germany  
1991–1992 Studies in Biology, University of Basel, Switzerland  
1993–1996 PhD, Institute of Botany, University of Basel, Switzerland; thesis title: Experimental population biology of the rare *Gentianella germanica*  
2001 Habilitation in Environmental sciences, especially Population Ecology, University of Zurich; Switzerland; thesis title: Population biology of herbaceous plants: ecology and genetics of life histories.

### Academic positions

1990 Research Associate, Department of Mechanical Engineering, University of Maryland, College Park  
1993–1996 Research Associate, Botanical Institute, University of Basel  
1996–2003 Assistant, Main Assistant, Institute of Environmental Sciences, Univ. of Zurich  
2003–2007 Full Professor of Botany and Community Ecology, Institute of Biochemistry and Biology, and Director of the Botanical Garden, University of Potsdam  
2007–2012 Guest Professor at the University of Potsdam  
2012– Guest researcher at the Senckenberg Biodiversity and Climate Institute BiK-F, Frankfurt, Germany  
2007– Full Professor of Plant Ecology, Institute of Plant Sciences, University of Bern  
2010– and Director of the Botanical Garden of the University of Bern  
  
In addition:  
2008–2011 Head, Biology Department, University of Bern  
2012– Director, Institute of Plant Sciences, University of Bern

### Lecturing

1993– > 170 lectures at conferences and universities  
1997– About 40 supervised diploma/masters (<20) and PhD students (>20)  
1999– Courses taught: plant ecology, population biology, community ecology, conservation biology, experimental design and statistical analysis for ecologists, scientific writing practice, conservation and population genetics, general botany, systematic botany, including practicals, tutorials, and field courses.

### Reviewing and editorial activities

1996– > 200 reviews for many journals (articles)  
2002– Editorial board of Basic and Applied Ecology  
2009– Editorial board of Journal of Plant Ecology  
2009–2011 Editor (Plants, Europe and Africa), Biological Conservation  
2011– Editorial board of Biological Conservation  
2011– Editorial board of Alpine Botany

### Scientific and academic committees and societies

1996– Member, several international scientific societies  
1998– Organisation and co-organisation of >40 conferences and conference symposia  
1999– Head (Speaker), Plant Population Biology Section of the Society of Ecology GfÖ  
1999– Reviews of grant proposals submitted to British (NERC), Austrian (FWF), Swiss (SNF), German (DFG), Swedish (FORMAS), Belgian (FWO), and US American (NSF) Science Foundations  
2001– Opponent or Rapporteur in six Swedish, Finnish and French PhD exams  
2006– Speaker, DFG Priority Program 1374 (Biodiversity Exploratories)  
2007–2009 Member, Steering Committee of the Society of Ecology GfÖ  
2007– Member, professorial selection committees (Leipzig, Salzburg, Bern, Aarhus)  
2007– Member, Foundation Councils (Haller-Stiftung, Bern; Bretscher-Stiftung, Bern; Infoflora/ZDSF, Geneva)

2008-	Member, Advisory Board of Vision Landwirtschaft, Switzerland
2008-	Member, since 2012 vice-chair, of Senate Committee for Biodiversity Research of the DFG (German Science Foundation)
2008–2011	Member, Steering committee of DFG Research Unit: The role of biodiversity for element cycling and trophic interactions
2008-	Vice-President (2008, 2012) and President (2009-2011) Swiss Botanical Society
2009-	Member, Fachkommission Naturschutz, Canton of Bern
2009–2016	Member, Steering committee of DFG Research Unit: Kilimanjaro ecosystems
2010-	Scientific Head, Alpine Botanical Garden Schynige Platte
2010-2011	Member, Council of Parkforschung Schweiz (A+, Swiss Academies)
2010-	Member, Council of DIVERSITAS Germany
2010-	Member, Marie-Heim Vögtlin Committee, Swiss National Science Foundation (President since 2013)
2011-2013	President, Forum Biodiversity, Swiss Academy of Sciences (Member since 2009)
2012-	Member, Steering Committee of the Global Mountain Biodiversity assessment (a cross-cutting project of DIVERSITAS)
2012-	Member, National Research Council, Swiss National Science Foundation
2014	Member of IPBES expert groups toward a guide to the production and integration of assessments from and across all levels and for scoping regional assessments

#### **Awards**

1998	John L. Harper Young Investigator's Prize, British Ecological Society
2002	Offer of an Associate (C3) Professorship in Population Biology, University of Regensburg
2010	Offer of a Full (W3) Professorship in Organismic Botany, University of Tübingen

#### **Larger ongoing projects** (total grant sum raised to date ~10 Mio € (= ~11 Mio CHF))

2006–	Large-scale and long-term exploratories for functional biodiversity research (German Science Foundation DFG, project coordination and several subprojects, <a href="http://www.biodiversity-exploratories.de">www.biodiversity-exploratories.de</a> )
2008–2016	DFG Research Unit: The role of tree and shrub diversity for production, erosion control, element cycling, and species conservation in Chinese subtropical forest ecosystems (Subproject on genetic diversity)
2008–2016	DFG Research Unit: The role of biodiversity for element cycling and trophic interactions: an experimental approach in a grassland community (Subproject on plant diversity; with C. Roscher)
2009–2016	DFG Research Unit: Kilimanjaro ecosystems under global change: Linking biodiversity, biotic interactions and biogeochemical ecosystem processes (Subprojects on plant diversity and on coordination)
2010–2015	Functional significance of biodiversity in European forests (FunDivEUROPE); EU FP7 project (Subproject).
2012-2015	Ex-situ conservation and reintroduction of endangered plants (Bundesamt für Umwelt)

## List of publications by Markus Fischer, 31 March 2015

By 31 March 2015 the 167 of these publications listed in the ISI Web of Science were correctly cited 4945 times (average 30.3) and the h-index is 37 (See <http://www.researcherid.com/rid/C-6411-2008>). According to Google Citations my publications were correctly cited 7238 times with an h-index of 45 (See [http://scholar.google.com/citations?sortby=pubdate&hl=en&user=IXhKkcAAAAAJ&view\\_op=list\\_works](http://scholar.google.com/citations?sortby=pubdate&hl=en&user=IXhKkcAAAAAJ&view_op=list_works))

### 1. Peer-reviewed articles (original contributions)

Boch S, **Fischer M**, Prati D. To eat or not to eat – Relationship of lichen herbivory by snails with secondary compounds and field frequency of lichens. *Journal of Plant Ecology*, in press

Boch S, **Fischer M**, Knop E, Allan E. Endozoochory by slugs can increase bryophyte establishment and species richness. *Oikos*, in press.

Müller J, Boch S, Blaser S, **Fischer M**, Prati D. Effects of forest management on bryophyte communities on deadwood. *Nova Hedwigia*, in press.

Diaz S and 83 further authors, including **Fischer M**. 2015. The IPBES Conceptual Framework — connecting nature and people. *Current Opinion in Environmental Sustainability*: 1–16

Razanajatovo M, Föhr C, **Fischer M**, Prati D, van Kleunen M. 2015. Non-naturalized alien plants receive fewer flower visits than naturalized and native plants in a Swiss botanical garden. *Biological Conservation* 182: 109-116

Rutten G, Ensslin A, Hemp A, **Fischer M**. 2015. Forest structure and composition of previously selectively logged and non-logged montane forests at Mt. Kilimanjaro. *Forest Ecology and Management* 337, 61-66.

Manning P, Gossner MM, Bossdorf O, Allan E, Zhang YY, Prati D, Blüthgen N, Boch S, Böhm S, Börschig C, Hölzel N, Jung K, Klaus VH, Klein AM, Kleinebecker T, Krauss J, Lange M, Müller J, Pašalić E, Socher SA, Tschapka M, Türke M, Weiner CN, Werner M, Gockel S, Hemp A, Renner SC, Wells K, Buscot F, Kalko EKV, Linsenmair KE, Weisser WW, **Fischer M**, in press. Grassland management intensification weakens the associations among the diversities of multiple plant and animal taxa. *Ecology*

Renner SC, Gossner MM, Kahl T, Kalko EKV, Weisser WW, **Fischer M**, Allan E. 2014. Temporal Changes in Randomness of Bird Communities across Central Europe. *PloS one* 9 (11), e112347

Allan E., Bossdorf O., Dormann C.F., Prati D., Gossner M.M., Tscharnkte T., Blüthgen N., Bellach M., Birkhofer K., Boch S., Bohm S., Borschig C., Chatzinotas A., Christ, S., Daniel R., Diekötter T., Fischer C., Friedl T., Glaser K., Hallmann C., Hodac L., Holzel N., Jung K., Klein A.M., Klaus V.H., Kleinebecker T., Krauss J., Lange M., Morris E.K., Muller, J., Nacke H., Pasalic E., Rillig M.C., Rothenwohrer C., Schally P., Scherber C., Schulze W., Socher S.A., Steckel J., Steffan-Dewenter L., Turke, M., Weiner C.N., Werner M., Westphal C., Wolters V., Wubet T., Gockel S., Gorke M., Hemp A., Renner S.C., Schoning I., Pfeiffer S., König-Ries B., Buscot F., Linsenmair K.E., Schulze E.D., Weisser W.W., **Fischer M**. 2014. Interannual variation in land-use intensity enhances grassland multidiversity. *Proceedings of the National Academy of Sciences of the United States of America* 111 (1): 308-313.

Bornand C.N., Kéry M., Bueche L., **Fischer M**. 2014. Hide-and-seek in vegetation: time-to-detection is an efficient design for estimating detectability and occurrence. *Methods in Ecology and Evolution* 5: 433-442

Bruehlheide H., Nadrowski K., Assmann T., Bauhus J., Both S., Buscot f., Chen XY., Ding B., Durka W., Erfmeier A., Gutknecht J.L.M., Guo D., Guo LD, Härdtle W, He JS., Klein AM., Kühn P., Liang Y., Liu X., Michalski S., Niklaus P.A., Pei K., Scherer-Lorenzen M., Scholten T., Schuldt A., Seidler G., Trogisch S., Oheimb g., Welk E., Wirth C., Wubet T., Yang X., Yu M., Zhang S., Zhou H., **Fischer M**, Ma K., Schmid B. 2014. Designing forest biodiversity experiments: general considerations illustrated by a new large experiment in subtropical China. *Methods in Ecology and Evolution* 5: 74-89.

Gossner MM, Pašalić E, Lange M, Lange P, Boch S, Hessenmöller D, Müller J, Socher SA, **Fischer M**, Schulze E-D, Weisser WW. Differential Responses of Herbivores and Herbivory to Management in Temperate European Beech. *PloS one* 9 (8), e104876

Lange M., Türke M., Pašalić E., Boch S., Hessenmöller D., Müller J., Prati D., Socher S.A., **Fischer M**, Weisser W.W., Gossner M. 2014. Effects of forest management on ground-dwelling beetles (Coleoptera; Carabidae; Staphylinidae) in Central Europe are mainly mediated by changes in forest structure. *Forest Ecology and Management* 329, 166-176

Egorov E., Prati D., Durka W., Michalski S., **Fischer M**, Schmitt B., Blaser S., Brändle M. 2014. Does Land-Use Intensification Decrease Plant Phylogenetic Diversity in Local Grasslands? *PloS one* 9 (7), e103252

Dawson W, Bottini A, **Fischer M**, van Kleunen M, Knop E. 2014. Little evidence for release from herbivores as a driver of plant invasiveness from a multi-species herbivore-removal experiment. *Oikos* 123 (12), 1509-1518

Foesel B.U., Nägele V., Naether A., Wüst P.K., Weinert J., Bonkowski M., Lohaus G., Polle A., Alt F., Oelmann Y., **Fischer M**, Friedrich M.W., Overmann J. 2014. Determinants of Acidobacteria activity inferred from the relative abundances of 16S rRNA transcripts in German grassland and forest soils. *Environmental Microbiology* 16: 658-675

Keser L.H., Dawson W., Song Y.B., Yu F.H., **Fischer M**, Dong M., van Kleunen M.. 2014. Invasive clonal plant species have a greater root-foraging plasticity than non-invasive ones. *Oecologia* 174: 1055-1064

Kleinebecker T., Hölzel N., Prati D., Schmitt B., **Fischer M**, Klaus V.H. 2014. Evidence from the real world: 15N natural abundances reveal enhanced nitrogen use at high plant diversity in Central European grasslands. *Journal of Ecology* 102: 456-465

- Morris E.K., Caruso T., Buscot F., **Fischer M.**, Hancock C., Maier T.S., Meiners T., Müller C., Obermaier E., Prati D., Socher S.A., Sonnemann I., Wäschke N., Wubet T., Wurst S., Rillig M.C. 2014. Choosing and using diversity indices: insights for ecological applications from the German Biodiversity Exploratories. *Ecology and Evolution* 4: 3514-3524
- Müller J, Heinze J, Joshi J, Boch S, Klaus VH, **Fischer M**, Prati D. 2014. Influence of experimental soil disturbances on the diversity of plants in agricultural grasslands. *Journal of Plant Ecology* 7 (6), 509-517
- Parepa M., **Fischer M.**, Krebs C., Bossdorf O. 2014. Hybridization increases invasive knotweed success. *Evolutionary Applications* 7: 413-420
- Preukschas J., Zeiter M., **Fischer M.**, Stampfli A. 2014. Biotic resistance to plant invasion in grassland: Does seed predation increase with resident plant diversity? *Basic and Applied Ecology* 15: 133-141
- Rottstock T., Joshi J., Kummer V., **Fischer M.** 2014. Higher plant diversity promotes higher diversity of fungal pathogens, while it decreases pathogen infection per plant. *Ecology* 95: 1907-1917.
- Schwarz M.T., Bischoff S., Blaser S., Boch S., Schmitt B., Thieme L., **Fischer M.**, Michalzik B., Schulze E.D., Siemens J., Wilcke W. 2014. More efficient aboveground nitrogen use in more diverse Central European forest canopies. *Forest Ecology and Management* 313: 274-282.
- Simons NK, Gossner MM, Lewinsohn TM, Boch S, Lange M, Müller J, Pašalić E, Socher SA, Türke M, **Fischer M**, Weisser WW. 2014. Resource-Mediated Indirect Effects of Grassland Management on Arthropod Diversity. *PloS one* 9 (9), e107033
- van Kleunen M., Dawson W., Bossdorf O., **Fischer M.** 2014. The more the merrier: Multi-species experiments in ecology. *Basic and Applied Ecology* 15: 1-9
- Weiss L., Pfestorf H., May F., Körner K., Boch S., **Fischer M.**, Müller J., Prati D., Socher S.A., Jeltsch F. 2014. Grazing response patterns indicate isolation of semi-natural European grasslands. *Oikos* 123: 599-612
- Allan E., Jenkins T., Fergus A.J F, Roscher C., **Fischer M.**, Petermann J.S, Weisser WW, Schmid B. 2013. Experimental plant communities develop phylogenetically overdispersed abundance distributions during assembly. *Ecology* 94 (2): 465-477.
- Allan E., Weisser W.W., **Fischer M.**, Schulze E.D., Weigelt A., Roscher C., Baade J., Barnard R.L., Beßler H., Buchmann N., Buscot F., Ebeling A., Eisenhauer N., Engels C., Fergus A.J.F., Gleixner G., Gubsch M., Habekost M., Halle S., Klein A.M., König S., Kowalski E., Kreuziger Y., Kertscher I., Kummer V., Kuu A., Lange M., Lauterbach D., Le Roux X., Marquard E., Migunova V.D., Milcu A., Müller R., Mwangi P., Niklaus P.A., Oelmann Y., Petermann J.S., Poly F., Rottstock T., Rosenkranz S., Sabais A., Scherber C., Scherer-Lorenzen M., Scheu S., Schmitz M., Schumacher J., Soussana J.F., Steinbeiss S., Schwichtenberg G., Temperton V., Tschardt T., Voigt W., Wilcke W., Wirth C. and Schmid, B. 2013. A comparison of the strength of biodiversity effects across multiple functions. *Oecologia* 173: 232-237.
- Baeten L., Verheyen K., Wirth C., Bruelheide H., Bussotti F., Finer L., Jaroszewicz B., Selvi F., Valladares F., Allan E., Ampoorter E., Auge H., Avacariei D., Barbaro L., Barnoaiea I., Bastias C.C., Bauhus J., Beinhoff C., Benavides R., Benneter A., Berger S., Berthold F., Boberg J., Bonal D., Braggernann W., Carnol M., Castagneyrol B., Charbonnier Y., Checko E., Coomes D., Coppi A., Dalmaris E., Danila G., Dawud S.M., de Vries W., De Wandeler H., Deconchat M., Domisch T., Duduman G., **Fischer M.**, Fotelli M., Gessler A., Gimeno T.E., Granier A., Grossiord C., Guyot V., Hantsch L., Hattenschwiler S., Hector A., Hermy M., Holland V., Jactel H., Joly F.X., Jucker T., Kolb S., Koricheva J., Lexer M.J., Liebergesell M., Milligan H., Müller S., Muys B., Nguyen D., Nichiforel L., Pollastrini M., Proulx R., Rabasa S., Radoglou K., Ratcliffe S., Raulund-Rasmussen K., Seiferling I., Stenlid J., Vesterdal L., von Wilpert K., Zavala M.A., Zielinski D., Scherer-Lorenzen M. 2013. A novel comparative research platform designed to determine the functional significance of tree species diversity in European forests. *Perspectives in Plant Ecology Evolution and Systematics* 15 (5): 281-291.
- Blaser S., Prati D., Senn-Irlet B., **Fischer M.** 2013. Effects of forest management on the diversity of deadwood-inhabiting fungi in Central European forests. *Forest Ecology and Management* 304: 42-48.
- Boch S., Berlinger M., **Fischer M.**, Knop E., Nentwig W., Türke M., Prati D. 2013. Fern and bryophyte endozoochory by slugs. *Oecologia* 172 (3): 817-22.
- Boch S., Müller, J., Prati, D., Blaser, S., **Fischer M.** 2013. Up in the Tree - The Overlooked Richness of Bryophytes and Lichens in Tree Crowns. *Plos One* 8 (12): e84913.
- Boch S., Prati D., Hessenmöller D., Schulze E.D., **Fischer M.** 2013. Richness of Lichen Species, Especially of Threatened Ones, Is Promoted by Management Methods Furthering Stand Continuity. *PloS one* 8(1): e55461.
- Boch S., Prati D., Müller J., Socher S., Baumbach H., Buscot F., Gockel S., Hemp A., Hessenmoller D., Kalko E.K.V., Linsenmair K.E., Pfeiffer S., Pommer U., Schoening I., Schulze E.D., Seilwinder C., Weisser W.W., Wells K., **Fischer M.** 2013. Less High plant species richness indicates management-related disturbances rather than the conservation status of forests. *Basic and Applied Ecology* 14 (6): 496-505.
- Dostál P., Allan E., Dawson W., Kleunen M., Bartish I., **Fischer M.** 2013. Enemy damage of exotic plant species is similar to that of natives and increases with productivity. *Journal of Ecology* 101 (2): 388-399.
- Foesel B.U., Nägele V., Naether A., Wüst P.K., Weinert J., Bonkowski M., Lohaus G., Polle A., Alt F., Oelmann Y., **Fischer M.**, Friedrich M.W., Overmann J. 2013. Determinants of Acidobacteria activity inferred from the relative abundances of 16S rRNA transcripts in German grassland and forest soils. *Environmental Microbiology*: in press.

- Chrobok T., Weiner C.N., Werner M., Bluethgen N., **Fischer M.**, van Kleunen M. 2013. Effects of native pollinator specialization, self-compatibility and flowering duration of European plant species on their invasiveness elsewhere. *Journal of Ecology* 101 (4): 916-923.
- Chrobok T., Winiger P., **Fischer M.**, van Kleunen M. 2013. Title: The cobblers stick to their lasts: pollinators prefer native over alien plant species in a multi-species experiment. *Biological Invasions* 15 (11): 2577-2588.
- Kempel A., Chrobok T., **Fischer M.**, Rohr R.P., van Kleunen M. 2013. Determinants of plant establishment success in a multispecies introduction experiment with native and alien species *Proceedings of the National Academy of Sciences of the United States of America* 110 (31): 12727-12732.
- Kempel A., Nater P., **Fischer M.**, Kleunen M. 2013. Plant-microbe-herbivore interactions in invasive and non-invasive alien plant species. *Functional Ecology* 27(2): 498-508.
- Keser L.H., Dawson W., Song Y.B., Yu F.H., **Fischer M.**, Dong M., van Kleunen M. 2013. Invasive clonal plant species have a greater root-foraging plasticity than non-invasive ones. *Oecologia*: in press.
- Klaus V.H., Hoelzel N., Boch S., Müller J., Socher S.A., Prati D., **Fischer M.**, Kleinebecker T. 2013. Direct and indirect associations between plant species richness and productivity in grasslands: regional differences preclude simple generalization of productivity-biodiversity relationships. *Preslia* 85 (2): 97-112.
- Klaus V.H., Hoelzel N., Prati D., Schmitt B., Schoning I., Schrupf M., **Fischer M.**, Kleinebecker T. Organic vs. Conventional Grassland Management: Do N-15 and C-13 Isotopic Signatures of Hay and Soil Samples Differ? *Plos One* 8 (10): e78134.
- Klaus V.H., Kleinebecker T., Prati D., Gossner M.M., Alt F., Boch S., Gockel S., Hemp A., Lange M., Müller J., Oelmann Y., Pasalic E., Renner S.C. Socher S.A., Tuerke M., Weisser W.W., **Fischer M.**, Hoelzel N. 2013. Does organic grassland farming benefit plant and arthropod diversity at the expense of yield and soil fertility? *Agriculture Ecosystems & Environment* 177: 1-9.
- Latzel V., Allan E., Bortolini Silveira A., Colot V., **Fischer M.**, Bossdorf O. 2013. Epigenetic diversity increases the productivity and stability of plant populations. *Nature communications* 4: 2875.
- Luedtke B., Moser I., Santiago-Alarcon D., **Fischer M.**, Kalko E.K.V., Schaefer H.M., Suarez-Rubio M., Tschapka M., Renner S.C. 2013. Associations of Forest Type, Parasitism and Body Condition of Two European Passerines, *Fringilla coelebs* and *Sylvia atricapilla*. *Plos One* 8 (12): e81395.
- Müller J., Heinze J., Joshi J., Boch S., Klaus V.H., **Fischer M.**, Prati D. 2013. Influence of experimental soil disturbances on the diversity of plants in agricultural grasslands. *Journal of Plant Ecology*: in press.
- Parepa M., **Fischer M.**, Bossdorf O. 2013. Environmental variability promotes plant invasion. *Nature Communications* 4: 1604.
- Parepa M., **Fischer M.**, Krebs C., Bossdorf O. 2013. Hybridization increases invasive knotweed success. *Evolutionary Applications*: in press.
- Socher S.A., Prati D., Boch S., Müller J., Baumbach H., Gockel S., Hemp A., Schoning I., Well, K., Buscot F., Kalko E.K.V., Linsenmair K.E., Schulze E.D., Weisser W.W., **Fischer M.** 2013. Interacting effects of fertilization, mowing and grazing on plant species diversity of 1500 grasslands in Germany differ between regions. *Basic and Applied Ecology* 14 (2): 126-136.
- Song Y.B., Yu F.H., Li J.M., Keser L.H., **Fischer M.**, Dong M., van Kleunen M. 2013. Plant invasiveness is not linked to the capacity of regeneration from small fragments: an experimental test with 39 stoloniferous species. *Biological Invasions* 15 (6): 1367-1376.
- Stein K., Templin M., Hensen I., **Fischer M.**, Matthies D., Schleuning M. 2013. Negative Effects of Conspecific Floral Density on Fruit Set of Two Neotropical Understory Plants. *Biotropica* 45(3): 325-332.
- van Kleunen M., Dawson W., Bossdorf O., **Fischer M.** 2013. The more the merrier: Multi-species experiments in ecology. *Basic and Applied Ecology*: in press.
- Zhang Y.Y., **Fischer M.**, Colot V., Bossdorf O. 2013. Epigenetic variation creates potential for evolution of plant phenotypic plasticity. *New Phytologist* 197(1): 314-322.
- Socher S.A., Prati D., Boch S., Müller J., Klaus V.H., Hölzel N., **Fischer M.** 2012. Direct and productivity-mediated indirect effects of fertilization, mowing and grazing on grassland species richness. *Journal of Ecology*: 100(6): 1391-1399.
- Müller J., Klaus V.H., Kleinebecker T., Prati D., Hölzel N., **Fischer M.** 2012. Impact of Land-Use Intensity and Productivity on Bryophyte Diversity in Agricultural Grasslands. *PloS one* 7(12): e51520.
- Pfistorf H., Weiß L., Müller J., Boch S., Socher S.A., Prati D., Schöning I., Weisser W., **Fischer M.**, Jeltsch F. 2012. Community mean traits as additional indicators to monitor effects of land-use intensity on grassland plant diversity. *Perspectives in Plant Ecology, Evolution and Systematics* 15(1): 1-11.
- Song Y.B., Yu F.H., Keser L.H., Dawson W., **Fischer M.**, Dong M., van Kleunen M. 2012. United we stand, divided we fall: a meta-analysis of experiments on clonal integration and its relationship to invasiveness. *Oecologia* 171 (2): 317-327.
- Völler E., Auge H., Prati D., **Fischer M.**, Hemp A., Bossdorf O. 2012. Geographical and land-use effects on seed-mass variation in common grassland plants. *Basic and Applied Ecology* 13(5): 395-404.

- Zeng X., Michalski S.G., **Fischer M.**, Durka W. 2012. Species diversity and population density affect genetic structure and gene dispersal in a subtropical understory shrub. *Journal of Plant Ecology* 5(3): 270-278.\*Naether A., Foesel B.U., Naegele V., Wüst P.K., Weinert J., Bonkowski M., Alt F., Oelmann Y., Polle A., Lohaus G., Gockel S., Hemp A., Kalko E.K., Linsenmair K.E., Pfeiffer S., Renner S., Schöning I., Weisser W.W., Wells K., **Fischer M.**, Overmann J., Friedrich M.W. 2012. Environmental factors affect acidobacterial communities below the subgroup level in grassland and forest soils. *Applied and Environmental Microbiology* 78(20): 7398-7406.
- \*Blüthgen N., Dormann C.F., Prati D., Klaus V.H., Kleinebecker T., Hölzel N., Alt F., Boch S., Gockel S., Hemp A., Müller J., Nieschulze J., Renner S.C., Schöning I., Schumacher U., Socher S.A., Wells K., Birkhofer K., Buscot F., Oelmann Y., Rothenwöhrer C., Scherber C., Tscharnatke T., Weiner C.N., **Fischer M.**, Kalko E.K.V., Linsenmair K.E., Schulze E.D., Weisser W.W. 2012. A quantitative index of land-use intensity in grasslands: Integrating mowing, grazing and fertilization. *Basic and Applied Ecology*. 13:207-220.
- Fischer M.**, Weyand A., Rudmann-Maurer K., Stöcklin J. 2012. Omnipresence of leaf herbivory by invertebrates and leaf infection by fungal pathogens in agriculturally used grasslands of the Swiss Alps, but low plant damage. *Alpine Botany*: 1-13.
- Wubet T., Christ S., Schöning I., Boch S., Gawlich M., Schnabel B., **Fischer M.**, Buscot F. 2012. Differences in Soil Fungal Communities between European Beech (*Fagus sylvatica* L.) Dominated Forests Are Related to Soil and Understory Vegetation. *PLoS one* 7(10): e47500.
- Dawson W., **Fischer M.**, van Kleunen M. 2012a. Common and rare plant species respond differently to fertilisation and competition, whether they are alien or native. *Ecology Letters* 15(8): 873-880.
- Dawson W., Rohr R.P., van Kleunen M., **Fischer M.** 2012b. Alien plant species with a wider global distribution are better able to capitalize on increased resource availability. *New Phytologist* 194(3): 859-867.
- Dostal P., Dawson W., van Kleunen M., Keser L.H., **Fischer M.** 2013. Central European plant species from more productive habitats are more invasive at a global scale. *Global Ecology and Biogeography* 22(1): 64-72.
- \*Weißshuhn K., Prati D., **Fischer M.**, Auge H. 2012. Regional adaptation improves the performance of grassland plant communities. *Basic and Applied Ecology*.
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