



Astrid Adank 1. Juni 2015

Liste der Agroscope-Publikationen 2014

Peer-reviewed

Abdelhalim, T. S., Finckh, M. R., Babiker, A. G., & Oehl, F. (2014). Species composition and diversity of arbuscular mycorrhizal fungi in White Nile state, Central Sudan. *Archives of Agronomy and Soil Science*, 60 (3), 377-391.

Aguilera, P., Cornejo, P., Borie, F., Barea, J. M., von Baer, E., & Oehl, F. (2014). Diversity of arbuscular mycorrhizal fungi associated with *Triticum aestivum* L. plants growing in an Andosol with high aluminum level. *Agriculture, Ecosystems & Environment*, 186, 178-184.

Aluja, M., Birke, A., Ceymann, M., Guillén, L., Arrigoni, E., Baumgartner, D. G., Pascacio-Villafan, C., & Samietz, J. (2014). Agroecosystem resilience to an invasive insect species that could expand its geographical range in response to global climate change. *Agriculture Ecosystems and Environment*, 186, 54-63.

Bacon, S. J., Aebi, A., Calanca, P., & Bacher, S. (2014). Quarantine arthropod invasions in Europe: the role of climate, hosts and propagule pressure. *Diversity and Distributions*, 20 (1), 84-94.

Bailly, A., Groenhagen, U., Schulz, S., Geisler, M., Eberl, L., & Weisskopf, L. (2014). The inter-kingdom volatile signal indole promotes root development by interfering with auxin signalling. *The Plant Journal*, 80 (5), 758-771.

Bender, S. F., Plantenga, F., Neftel, A., Jocher, M., Oberholzer, H.-R., Köhl, L., Giles, M., Daniell, T. J., & van der Heijden, M. G. A. (2014). Symbiotic relationships between soil fungi and plants reduce N₂O emissions from soil. *ISME Journal*, 8 (6), 1336-1345.

Bender, S. F., Valadares, R. B. d. S., & Taudiere, A. (2014). Mycorrhizas: dynamic and complex networks of power and influence. *New Phytologist*, 204 (1), 15-18.

Bertrand, S., Azzollini, A., Schumpp, O., Bohni, N., Schrenzel, J., Monod, M., Gindro, K., & Wolfender, J.-L. (2014). Multi-well fungal co-culture for de novo metabolite-induction in time-series studies based on untargeted metabolomics. *Molecular BioSystems*, online.

Bertrand, S., Petit, C., Marcourt, L., Ho, R., Gindro, K., Monod, M., & Wolfender, J.-L. (2014). HPLC profiling with At-line microdilution assay for the early identification of anti-fungal compounds in plants from French Polynesia. *Phytochemical Analysis*, 25 (2), 106-112.

Bertrand S., Bohni N., Schnee S., Schumpp O., Gindro K., & J.-L., W. (2014). Metabolite induction via microorganism co-culture: A potential way to enhance chemical diversity for drug discovery. *Biotechnology Advances*, 1-25.

Bink, M. C., Jansen, J., Madduri, M., Voorrips, R. E., Durel, C.-E., Kouassi, A. B., Laurens, F., Mathis, F., Gessler, C., Gobbin, D., Rezzonico, F., Patocchi, A., Kellerhals, M., Boudishevskaya, A., Dunemann, F., Peil, A., Nowicka, A., Lata, B., Stankiewicz-Kosyl, M., Jeziorek, K., Pitera, E., Soska, A., Tomala, K., Evans, K. M., Fernandez-Fernandez, F., Guerra, W., Korbin, M., Keller, S., Lewandowski, M., Plochanski, W., Rutkowski, K., Zurawicz, E., Costa, F., Sansavini, S., Tartarini, S., Komjanc, M., Mott, D., Antofie, A., Lateur, M., Rondia, A., Gianfranceschi, L., & Van de Weg, W. E. (2014). Bayesian QTL analyses using pedigreed families of an outcrossing species, with application to fruit firmness in apple. *Theoretical and Applied Genetics*, 127 (5), 1073-1090.

Birrer, M., Kölliker, R., Manzanares, C., Asp, T., & Studer, B. (2014). A DNA marker assay based on high-resolution melting curve analysis for distinguishing species of the *Festuca-Lolium* complex. *Molecular Breeding*, 34 (2), 421-429.

Bleyer, G., Kassemeyer, H.-H., Breuer, M., Krause, R., Augenstein, B., Viret, O., Dubuis, P.-H., Bloesch, B., Kehrli, P., Siegfried, W., Naef, A., Hill, G., Mattedi, L., & Varner, M. (2014). Integrated grape production in Switzerland and its ecological impact in reducing pesticide use. *IOBC wprs Bulletin*, 105, 113-123.

Bohren, C. (2014). Control strategy against *Cyperus esculentus* in Switzerland. *EPPO Bulletin*, 5, 23.

Bohren, C. (2014). Science first, say experts on the EU proposal on invasive alien species (IAS) : Newsletter. *Weed Research*, 125, 13-14.

Bouhaouel, I., Gfeller, A., Fauconnier, M.-L., Rezgui, S., Slim Amara, H., & du Jardin, P. (2014). Allelopathic and autotoxicity effects of barley (*Hordeum vulgare* L. ssp. *vulgare*) root exudates. *BioControl*, online (14 novembre), 1-12.

Brönnimann, S., Appenzeller, C., Croci-Maspoli, M., Fuhrer, J., Grosjean, M., Hohmann, R., Ingold, K., Knutti, R., Liniger, M. A., Raible, C. C., Röthlisberger, R., Schär, C., Scherrer, S. C., Strassmann, K., & Thalmann, P. (2014). Climate change in Switzerland: a review of physical, institutional, and political aspects. *Wiley Interdisciplinary Reviews: Climate Change*, 5 (4), 461-481.

Bucheli, T. D. (2014). Phytotoxins: Environmental micropollutants of concern? *Environmental Science & Technology*, 48 (22), 13027-13033.

Bucheli, T. D., Bachmann, H. J., Blum, F., Bürge, D., Giger, R., Hilber, I., Keita, J., Leifeld, J., & Schmidt, H.-P. (2014). On the heterogeneity of biochar and consequences for its representative sampling. *Journal of Analytical and Applied Pyrolysis*, 107, 25-30.

Buyck, B., Kauff, F., Eyssartier, G., Couloux, A., & Hofstetter, V. (2014). A multilocus phylogeny for worldwide *Cantharellus* (Cantharellales, Agaricomycetidae). *Fungal Diversity*, 64 (1), 101-121.

Buyck, B., Kauff, F., Randrianjohany, E., & Hofstetter, V. (2014). Sequence data reveal a high diversity of *Cantharellus* associated with endemic vegetation in Madagascar. *Fungal Diversity*, online (25 novembre), 1-2.

Camps Arbestain, M., Sagggar, S., & Leifeld, J. (2014). Environmental benefits and risks of biochar application to soil. *Agriculture, Ecosystems & Environment*, 191, 1-4.

- Camps, C., Gérard, M., Quennoz, M., Brabant, C., Oberson, C., & Simonnet, X. (2014). Prediction of essential oil content of oregano by hand-held and Fourier transform NIR spectroscopy. *Journal of the Science of Food and Agriculture*, 94 (7), 1397-1402.
- Chollet, M., Gille, D., Piccinali, P., Bütikofer, U., Schmid, A., Stoffers, H., Altintzoglou, T., & Walther, B. (2014). Short communication: Dairy consumption among middle-aged and elderly adults in Switzerland. *Journal of Dairy Science*, 97 (9), 1-6.
- Clarvis, M. H., Fatichi, S., Allan, A., Fuhrer, J., Stoffel, M., Romerio, F., Gaudard, L., Burlando, P., Beniston, M., Xoplaki, E., & Toreti, A. (2014). Governing and managing water resources under changing hydro-climatic contexts: The case of the upper Rhone basin. *Environmental Science & Policy*, 43, 56-67.
- Conen, F., & Leifeld, J. (2014). A new facet of soil organic matter. *Agriculture, Ecosystems & Environment*, 185, 186-187.
- Coudrain, V., Schüepp, C., Herzog, F., Albrecht, M., & Entling, M. (2014). Habitat amount modulates the effect of patch isolation on host-parasitoid interactions. *Frontiers in Environmental Science*, 2, 1-8.
- da Silva, D. K. A., Goto, B. T., Oehl, F., da Silva, G. A., Nobre, C. P., Pereira, C. M. R., de Mello, C. M. A., de Assis, D. M. A., Marinho, F., da Silva, I. R., de Pontes, J. S., Jobim, K., Vieira, L. C., de Sousa, N. M. F., de Lima, R. A. A., & Maia, L. C. (2014). Arbuscular mycorrhizal fungi: new species and records in Northeast of Brazil. *Boletim do Museo de Biologia Mello Leitão Nova Série*, 36 (Outubro), 35-50.
- Dabbert, S., Lippert, C., & Zorn, A. (2014). Introduction to the special section on organic certification systems: Policy issues and research topics. *Food Policy*, 49 (Part 2), 425-428.
- Défossez, P., Richard, G., Keller, T., Adamiade, V., Govind, A., & Mary, B. (2014). Modelling the impact of declining soil organic carbon on soil compaction: Application to a cultivated Eutric Cambisol with massive straw exportation for energy production in Northern France. *Soil and Tillage Research*, 141, 44-54.
- Della Peruta, R., Keller, A., & Schulin, R. (2014). Sensitivity analysis, calibration and validation of EPIC for modelling soil phosphorus dynamics in Swiss agro-ecosystems. *Environmental Modelling & Software*, 62, 97-111.
- Devos, Y., Sanvido, O., Tait, J., & Raybould, A. (2014). Towards a more open debate about values in decision-making on agricultural biotechnology. *Transgenic Research*, 23 (6), 933-943.
- Dohme-Meier, F., Kaufmann, L. D., Görs, S., Junghans, P., Metges, C. C., van Dorland, H. A., & Mürger, A. (2014). Comparison of energy expenditure, eating pattern and physical activity of grazing and zero-grazing dairy cows at different time points during lactation. *Livestock Science*, 162, 86-96.
- Dorn, B., Jossi, W., Humphrys, C., & Hiltbrunner, J. (2014). Screening of natural products in the laboratory and the field for control of pollen beetles. *Journal of Applied Entomology*, 138 (1-2), 109-119.
- Drögemüller, M., Jagannathan, V., Welle, M. M., Graubner, C., Straub, R., Gerber, V., Burger, D., Signer-Hasler, H., Poncet, P.-A., Klopfenstein, S., von Niederhäusern, R., Tetens, J., Thaller, G., Rieder, S., Drögemüller, C., & Leeb, T. (2014). Congenital Hepatic

Fibrosis in the Franches-Montagnes Horse Is Associated with the Polycystic Kidney and Hepatic Disease 1 (*PKHD1*) Gene. *PLoS ONE*, 9 (10), 1-8.

Dubois-Gill, E., Schaerer, S., & Dupuis, B. (2014). Factors impacting blackleg development caused by *Dickeya* spp. in the field. *European Journal of Plant Pathology*, 140 (2), 317-327.

Duelli, P., Johnson, J. B., Waldburger, M., & Henry, C. S. (2014). A new look at adaptive body coloration and color change in "Common Green Lacewings" of the Genus *Chrysoperla* (Neuroptera: Chrysopidae). *Annals of the Entomological Society of America*, 107 (2), 382-388.

Dumont, B., Andueza, D., Niderkorn, V., Lüscher, A., Porqueddu, C., & Picon-Cochard, C. (2014). A meta-analysis of climate change effects on forage quality in grasslands: perspectives for mountain and Mediterranean areas. *Options Méditerranéennes A*, 109, 49-65.

Duncan, A. J., Gunn, G. J., Umstätter, C., & Humphry, R. W. (2014). Replicating disease spread in empirical cattle networks by adjusting the probability of infection in random networks. *Theoretical Population Biology*, 98, 11-18.

Dupuis, B., Schwaerzel, R., & Derron, J. (2014). Efficacy of three strategies based on insecticide, oil and elicitor treatments in controlling Aphid populations and potato virus Y epidemics in potato fields. *Journal of Phytopathology*, 162 (1), 14-18.

Eckard, S., Ansari, M. A., Bacher, S., Butt, T. M., Enkerli, J., & Grabenweger, G. (2014). Virulence of in vivo and in vitro produced conidia of *Metarhizium brunneum* strains for control of wireworms. *Crop Protection*, 64, 137-142.

Fabian, Y., Sandau, N., Bruggisser, O., Aebi, A., Kehrli, P., Rohr, R., Naisbit, R., & Bersier, L.-F. (2014). Plant diversity in a nutshell: testing for small-scale effects. *Ecosphere*, 5, 2-18.

Falquet, B., Roux, D., Henriët, L., Tschuy, F., & Wirth, J. (2014). Simple method to separate resource competition from allelopathic root interactions. *Allelopathy Journal*, 34 (2), 227-240.

Faticchi, S., Zeeman, M. J., Fuhrer, J., & Burlando, P. (2014). Ecohydrological effects of management on subalpine grasslands: From local to catchment scale. *Water Resources Research*, 50 (1), 148-164.

Favre-Godal, Q., Dorsaz, S., Ferreira Queiroz, E., Conana, C., Marcourt, L., Wardojo, B. P. E., Voinesco, F., Buchwalder, A., Gindro, K., Sanglard, D., & Wolfender, J.-L. (2014). Comprehensive approach for the detection of antifungal compounds using a susceptible strain of *Candida albicans* and confirmation of in vivo activity with the *Galleria mellonella* model. *Phytochemistry*, 105 (September), 68-78.

Felber, R., Leifeld, J., Horák, J., & Neftel, A. (2014). Nitrous oxide emission reduction with greenwaste biochar: comparison of laboratory and field experiments. *European Journal of Soil Science*, 65 (1), 128-138.

Forrer, H.-R., Musa, T., Schwab, F., Jenny, E., Bucheli, T. D., Wettstein, F. E., & Vogelgsang, S. (2014). Fusarium head blight control and prevention of mycotoxin contamination in wheat with botanicals and tannic acid. *Toxins*, 6 (3), 830-849.

Frischknecht, M., Neuditschko, M., Jagannathan, V., Drögemüller, C., Tetens, J., Thaller, G., Leeb, T., & Rieder, S. (2014). Imputation of sequence level genotypes in the Franches-Montagnes horse breed. *Genetics Selection Evolution*, 46 (63), 1-8.

Fuhrer, J., Smith, P., & Gobiet, A. (2014). Implications of climate change scenarios for agriculture in alpine regions — A case study in the Swiss Rhone catchment. *Science of The Total Environment*, 493, 1232-1241.

Garcia-Alonso, M., Hendley, P., Bigler, F., Mayeregger, E., Parker, R., Rubinstein, C., Satorre, E., Solari, F., & McLean, M. (2014). Transportability of confined field trial data for environmental risk assessment of genetically engineered plants: a conceptual framework. *Transgenic Research*, 23 (6), 1025-1041.

Gilli, C., Camps, C., & Fischer, S. (2014). Biocontrol of *Tetranychus urticae* in greenhouse tomato crops. *Acta Horticulturae*, 1041, 171-176.

Goldberg, E., Scheringer, M., Bucheli, T. D., & Hungerbühler, K. (2014). Critical assessment of models for transport of engineered nanoparticles in saturated porous media. *Environmental Science & Technology*, 48 (21), 12732-12741.

Gulkowska, A., Bürge, I., & Poiger, T. (2014). Online solid phase extraction LC-MS/MS method for the analysis of succinate dehydrogenase inhibitor fungicides and its applicability to surface water samples. *Analytical and Bioanalytical Chemistry*, 406 (25), 6419-6427.

Gutzwiller, A., Schlegel, P., Guggisberg, D., & Stoll, P. (2014). Effects of benzoic acid and dietary calcium: phosphorus ratio on performance and mineral metabolism of weanling pigs. *Asian-Australasian Journal of Animal Sciences*, 27 (4), 530-536.

Gygax, L. (2014). The A to Z of statistics for testing cognitive judgement bias. *Animal Behaviour*, 95, 59-69.

György, Z., Vouillamoz, J., Ladányi, M., & Pedryc, A. (2014). Genetic survey of *Rhodiola rosea* L. populations from the Swiss Alps based on SSR markers. *Biochemical Systematics and Ecology*, 54, 137-143.

Hagenbucher, S., Wäckers, F. L., & Romeis, J. (2014). Aphid honeydew quality as a food source for parasitoids is maintained in Bt cotton. *PLoS ONE*, 9 (9), e107806.

Hagenbucher, S., Wäckers, F. L., & Romeis, J. (2014). Indirect multi-trophic interactions mediated by induced plant resistance: impact of caterpillar feeding on aphid parasitoids. *Biology Letters*, 10 (2), 1-5.

Hahn, C., Prasuhn, V., Stamm, C., Milledge, D. G., & Schulin, R. (2014). A comparison of three simple approaches to identify critical areas for runoff and dissolved reactive phosphorus losses. *Hydrology and Earth System Sciences*, 18, 2975-2991.

Halabalaki, M., Bertrand, S., Stefanou, A., Gindro, K., Kostidis, S., Mikros, E., Skaltsounis, L. A., & Wolfender, J.-L. (2014). Sample preparation issues in NMR-based plant metabolomics: Optimisation for *Vitis* wood samples. *Phytochemical Analysis*, 1-7.

Hartmann, M., Niklaus, P. A., Zimmermann, S., Schmutz, S., Kremer, J., Abarenkov, K., Lüscher, P., Widmer, F., & Frey, B. (2014). Resistance and resilience of the forest soil microbiome to logging-associated compaction. *ISME Journal*, 8 (1), 226-244.

Havaee, S., Ayoubi, S., Mosaddeghi, M. R., & Keller, T. (2014). Impacts of land use on soil organic matter and degree of compactness in calcareous soils of central Iran. *Soil Use and Management*, 30 (1), 2-9.

Helmreich, S., Hauser, R., Jungbluth, T., Wechsler, B., & Gygax, L. (2014). Time-budget constraints for cow with high milking frequency on farms with automatic milking systems. *Livestock Science*, 167, 315-322.

Hentz, F., Umstätter, C., Gilaverte, S., Prado, O. R., Silva, C. J. A., & Monteiro, A. L. G. (2014). Electronic bolus design impacts on administration. *Journal of Animal Science*, 92 (6), 2686-2692.

Hiller, R. V., Neininger, B., Brunner, D., Gerbig, C., Bretscher, D., Künzle, T., Buchmann, N., & Eugster, W. (2014). Aircraft-based CH₄ flux estimates for validation of emissions from an agriculturally dominated area in Switzerland. *Journal of Geophysical Research: Atmospheres*, 119 (8), 4874-4887.

Hillmann, E., Hilfiker, S., & Keil, N. (2014). Effects of restraint with or without blinds at the feed barrier on feeding and agonistic behaviour in horned and hornless goats. *Applied Animal Behaviour Science*, 157, 72-80.

Hoekstra, N. J., Finn, J. A., Buchmann, N., Gockele, A., Landert, L., Prill, N., Scherer-Lorenzen, M., & Lüscher, A. (2014). Methodological tests of the use of trace elements as tracers to assess root activity. *Plant and Soil*, 380 (1), 265-283.

Hoekstra, N. J., Finn, J. A., Hofer, D., & Lüscher, A. (2014). The effect of drought and interspecific interactions on depth of water uptake in deep- and shallow-rooting grassland species as determined by $\delta^{18}\text{O}$ natural abundance. *Biogeosciences*, 11 (16), 4493-4506.

Hofer, D., Suter, M., Hoekstra, N. J., Haughey, E., Eickhoff, B., Finn, J. A., Buchmann, N., & Lüscher, A. (2014). Important differences in yield responses to simulated drought among four species and across three sites. *Grassland Science in Europe*, 19, 166-168.

Hofstetter, P., Frey, H.-J., Gazzarin, C., Wyss, U., & Kunz, P. (2014). Dairy farming: indoor v. pasture-based feeding. *The Journal of Agricultural Science*, online, 1-18.

Hofstetter, V., Redhead, S. A., Kauff, F., Moncalvo, J.-M., Matheny, P. B., & Vilgalys, R. (2014). Taxonomic revision and examination of ecological transitions of the Lyophyllaceae (Basidiomycota, Agaricales) based on a multigene phylogeny. *Cryptogamie Mycologie*, 35 (4), 399-425.

Homburger, H., Schneider, M. K., Hilfiker, S., & Lüscher, A. (2014). Inferring behavioral states of grazing livestock from high-frequency position data alone. *PLoS ONE*, 9 (12), e114522.

Homburger, H., Schneider, M. K., Scherer-Lorenzen, M., & Lüscher, A. (2014). Quantifying grazing intensity and ecosystem services in subalpine pastures. *Options Méditerranéennes A*, 109, 495-498.

Hötling, S., Haberlag, B., Tamm, M., Collatz, J., Mack, P., Steidle, J. L. M., Vences, M., & Schulz, S. (2014). Identification and synthesis of macrolide pheromones of the grain beetle *Oryzaephilus Surinamensis* and the frog *Spinomantis Aglavei*. *Chemistry - A European Journal*, 20 (11), 3183-3191.

Husse, S., Huguenin, O., Buchmann, N., & Lüscher, A. (2014). Nitrogen capture in mixed swards benefits from temporal complementarity among species. *Grassland Science in Europe*, 19, 722-724.

Jänsch, M., Paris, R., Amoako-Andoh, F., Keulemans, W., Davey, M. W., Pagliarini, G., Tartarini, S., & Patocchi, A. (2014). A phenotypic, molecular and biochemical characterization for the first cisgenic scab-resistant apple variety "Gala". *Plant Molecular Biology*, 1-12.

Jeanneret, P., Baumgartner, D. U., Freiermuth Knuchel, R., Koch, B., & Gaillard, G. (2014). An expert system for integrating biodiversity into agricultural life-cycle assessment. *Ecological Indicators*, 46, 224-231.

Karami, M., Amini, M., Afyuni, M., Khoshgoftarmanesh, A. H., Keller, A., Abdi, A., & Schulin, R. (2014). Agricultural zinc fluxes into soils and crops of central Iran at regional scale. *Archives of Agronomy and Soil Science*, 60 (3), 437-456.

Kast C., Dübecke A., Kilchenmann V., Bieri K., Böhlen M., Zoller O., Beckh G., & C., L. (2014). Analysis of Swiss honeys for pyrrolizidine alkaloids. *Journal of Apicultural Research*, 53 (1), 75-83.

Keck, M., Keller, M., Frei, M., & Schrade, S. (2014). Odour impact by field inspections: Method and results from an agricultural biogas facility. *Chemical Engineering Transactions*, 40, 61-66.

Kehrli, P., Richoz, P., Linder, C., & Baroffio, C. (2014). The importance of *Drosophila suzukii* for grapevine production. *IOBC wprs Bulletin*, 105, 211-218.

Keller, T., Berli, M., Ruiz, S., Lamandé, M., Arvidsson, J., Schjønning, P., & Selvadurai, A. P. S. (2014). Transmission of vertical soil stress under agricultural tyres: Comparing measurements with simulations. *Soil & Tillage Research*, 140, 106-117.

Kiewnick, S., Holterman, M., van den Elsen, S., van Megen, H., Frey, J. E., & Helder, J. (2014). Comparison of two short DNA barcoding loci (COI and COII) and two longer ribosomal DNA genes (SSU & LSU rRNA) for specimen identification among quarantine root-knot nematodes (*Meloidogyne* spp.) and their close relatives. *European Journal of Plant Pathology*, 1-14.

Klein, T., Holzkämper, A., Calanca, P., & Fuhrer, J. (2014). Adaptation options under climate change for multifunctional agriculture: a simulation study for western Switzerland. *Regional Environmental Change*, 14, 167-184.

Köhl, L., Oehl, F., & van der Heijden, M. G. A. (2014). Agricultural practices indirectly influence plant productivity and ecosystem services through effects on soil biota. *Ecological Applications*, 24 (7), 1842-1853.

Kolpin, D. W., Schenzel, J., Meyer, M. T., Phillips, P. J., Hubbard, L. E., Scott, T.-M., & Bucheli, T. D. (2014). Mycotoxins: Diffuse and point source contributions of natural contaminants of emerging concern to streams. *Science of The Total Environment* 470-471, 669-676.

Kopf-Bolanz, K., Schwander, F., Gijs, M., Vergères, G., Portmann, R., & Egger, C. (2014). Impact of milk processing on the generation of peptides during digestion. *International Dairy Journal*, 35, 130-138.

Kost, T., Stopnisek, N., Agnoli, K., Eberl, L., & Weisskopf, L. (2014). Oxalotrophy, a widespread trait of plant-associated *Burkholderia* species, is involved in successful root colonization of lupin and maize by *Burkholderia phytofirmans*. *Frontiers Microbiology*, 4, 421-420.

Krüger, J. P., Leifeld, J., & Alewell, C. (2014). Degradation changes stable carbon isotope depth profiles in palsa peatlands. *Biogeosciences*, 11, 3369-3380.

Last, L., Arndorfer, M., Balázs, K., Dennis, P., Dyman, T., Fjellstad, W., Friedel, J., Herzog, F., Jeanneret, P., Lüscher, G., Moreno, G., Kwikiriza, N., Gomiero, T., Paoletti, M., Pointereau, P., Sarthou, J.-P., Stoyanova, S., Wolfrum, S., & Kölliker, R. (2014). Indicators for the on-farm assessment of crop cultivar and livestock breed diversity: a survey-based participatory approach. *Biodiversity and Conservation*, 23 (12), 3051-3071.

Last, L., Lüscher, G., Widmer, F., Boller, B., & Kölliker, R. (2014). Indicators for genetic and phenotypic diversity of *Dactylis glomerata* in Swiss permanent grassland. *Ecological Indicators*, 38, 181-191.

Latsch, R., & Sauter, J. (2014). Optimisation of hot-water application technology for the control of broad-leaved dock (*Rumex obtusifolius*). *Journal of Agricultural Engineering*, 45 (4), 137-145.

Leifeld, J., & von Lützow, M. (2014). Chemical and microbial activation energies of soil organic matter decomposition. *Biology and Fertility of Soils*, 50 (1), 147-153.

Li, Y.-H., Romeis, J., Wu, K.-M., & Peng, Y.-F. (2014). Tier-1 assays for assessing the toxicity of insecticidal proteins produced by genetically engineered plants to non-target arthropods. *Insect Science*, 21 (2), 125-134.

Li, Y., Chen, X., Hu, L., Romeis, J., & Peng, Y. (2014). Bt rice producing Cry1C protein does not have direct detrimental effects on the green lacewing *Chrysoperla sinica* (Tjeder). *Environmental Toxicology and Chemistry*, 33 (6), 1391-1397.

Li, Y., Hu, L., Romeis, J., Wang, Y., Han, L., Chen, X., & Peng, Y. (2014). Use of an artificial diet system to study the toxicity of gut-active insecticidal compounds on larvae of the green lacewing *Chrysoperla sinica*. *Biological Control*, 69, 45-51.

Liebisch, F., Keller, F., Huguenin-Elie, O., Frossard, E., Oberson, A., & Bünemann, E. K. (2014). Seasonal dynamics and turnover of microbial phosphorus in a permanent grassland. *Biology and Fertility of Soils*, 50 (3), 465-475.

Lima, L. L., Kozovits, A. R., Magna, D. A. A., Silva, G. A., & Oehl, F. (2014). *Cetraspora auronigra*, a new glomeromycete species from Ouro Preto (Minas Gerais, Brazil). *Sydowia*, 66 (2), 299-308.

Linder, C., Martin, C., Laboisse, S., Chatelain, P. G., & Kehrli, P. (2014). Susceptibility of various grape cultivars to *Drosophila suzukii*. *IOBC wprs Bulletin*, 105, 119-224.

Lüscher, A., Mueller-Harvey, I., Soussana, J. F., Rees, R. M., & Peyraud, J. L. (2014). Potential of legume-based grassland-livestock systems in Europe: a review. *Grass and Forage Science*, 69 (2), 206-228.

Lüscher, G., Schneider, M. K., Turnbull, L. A., Arndorfer, M., Bailey, D., Herzog, F., Pointereau, P., Richner, N., & Jeanneret, P. (2014). Appropriate metrics to inform farmers about species diversity. *Environmental Science & Policy*, 41, 52-62.

Mann, S. (2014). Understanding parallel structures in public administration. *International Journal of Organization Theory and Behavior*, 17 (3), 275-292.

- Marinho, F., Silva, G. A., Ferreira, A. C. A., Veras, J. S. N., Sousa, N. M. F., Goto, B. T., Maia, L. C., & Oehl, F. (2014). *Bulbospora minima*, a new genus and a new species in the Glomeromycetes from semi-arid Northeast Brazil. *Sydowia*, 66 (2), 313–323.
- Markussen, M., Kulak, M., Smith, L., Nemecek, T., & Østergård, H. (2014). Evaluating the sustainability of a small-scale low-input organic vegetable supply system in the United Kingdom. *Sustainability*, 6 (4), 1913-1945.
- Marti, G., Schnee, S., Andrey, Y., Simoes-Pires, C., Carrupt, P.-A., Wolfender, J.-L., & Gindro, K. (2014). Study of leaf metabolome modifications induced by UV-C radiations in representative vitis, cissus and cannabis species by LC-MS. *Molecules*, 19, 14004-14021.
- Medina, J., Cornejo, P., Borie, F., Meier, S., Palenzuela, J., Vieira, H. E. E., Ferreira, A. C. A., Silva, G. A. d., Sánchez-Castro, I., & Oehl, F. (2014). *Corymbiglomus pacificum*, a new glomeromycete from a saline lakeshore in Chile. *Mycotaxon*, 127 (1), 173-183.
- Meier, E. S., Dullinger, S., Zimmermann, N. E., Baumgartner, D., Gattringer, A., & Hülber, K. (2014). Space matters when defining effective management for invasive plants. *Diversity and Distributions*, 20 (9), 1029-1043.
- Meisser, M., Deléglise, C., Freléchoux, F., Chassot, A., Jeangros, B., & Mosimann, E. (2014). Foraging behaviour and occupation pattern of beef cows on a heterogeneous pasture in the Swiss Alps. *Czech Journal of Animal Science*, 59 (2), 84-95.
- Meisser, M., Le Danvic, M., Deléglise, C., & Mosimann, E. (2014). Effects of drought and cutting frequency on agronomic value and functional traits of two pastures of the Jura mountains. *Options Méditerranéennes A*, 109, 511-515.
- Meissle, M., Naranjo, S., Kohl, C., Riedel, J., & Romeis, J. (2014). Does the growing of Bt maize change abundance or ecological function of non-target animals compared to the growing of non-GM maize? A systematic review protocol. *Environmental Evidence*, 3 (1), 1-13.
- Meissle, M., Zünd, J., Waldburger, M., & Romeis, J. (2014). Development of *Chrysoperla carnea* (Stephens) (Neuroptera: Chrysopidae) on pollen from Bt-transgenic and conventional maize. *Scientific Reports*, 4, 1-9.
- Miadilkowska, J., Kauff, F., Högnabba, F., Oliver, J., Molnár, K., Fraker, E., Gaya, E., Hafellner, J., Hofstetter, V., Gueidan, C., Kukwa, M., Lücking, R., Björk, C., Sipman, H., Burgaz, A., Thell, A., Passo, A., Myllys, L., Goward, T., Fernández-Brime, S., Hestmark, G., Lendemer, J., Lumbsch, H., Schmult, M., Schoch, C., Sérusiaux, E., Maddison, D., Arnold, A., Lutzoni, F., & Stenroos, S. (2014). A multigene phylogenetic synthesis for the class Lecanoromycetes (Ascomycota): 1307 fungi representing 1139 infrageneric taxa, 317 genera and 66 families. *Molecular Phylogenetics and Evolution*, 4.
- Michel, V. (2014). Ten years of biofumigation research in Switzerland. *Aspects of Applied Biology*, 126, 33-42.
- Michel, V., Ançay, A., Fleury, Y., & Camps, C. (2014). Green manures to control soilborne disease in greenhouse production. *Acta Horticulturae*, 1041, 187-196.
- Michel, V., Debrunner, N., & Simonnet, X. (2014). A rapid greenhouse screening method to identify St. John's wort (*Hypericum perforatum*) accessions resistant to *Colletotrichum gloeosporioides*. *HortScience*, 49 (1), 31-34.

- Mikó, P., Löschenberger, F., Hiltbrunner, J., Aebi, R., Megyeri, M., Kovács, G., & Molnár-Láng, M. (2014). Comparison of bread wheat varieties with different breeding origin under organic and low input management. *Euphytica*, 199, 69-80.
- Morel, I., Meisser, M., & Dufey, P.-A. (2014). Utilisation of whey by finishing beef cattle in alpine cheese production regions. *Options Méditerranéennes A*, 109, 367-370.
- Morel, I., Schmid, E., Soney, C., Aragon, A., & Dufey, P.-A. (2014). Influence of ryegrass alone or blended with clover and chicory on feed intake and growth performance of steers. *Grassland Science in Europe*, 19, 538-540.
- Mortimer, M., Gogos, A., Bartolomé, N., Kahru, A., Bucheli, T. D., & Slaveykova, V. I. (2014). Potential of hyperspectral imaging microscopy for semi-quantitative analysis of nanoparticle uptake by protozoa. *Environmental Science & Technology*, 48 (15), 8760-8767.
- Mosimann, E., Deléglise, C., Sinaj, S., & Charles, R. (2014). Does water availability influence the choice of a forage strategy in Swiss lowlands? *Options Méditerranéennes A*, 109, 581-584.
- Mueller, C. W., Gutsch, M., Kothieringer, K., Leifeld, J., Rethemeyer, J., Brueggemann, N., & Kögel-Knabner, I. (2014). Bioavailability and isotopic composition of CO₂ released from incubated soil organic matter fractions. *Soil Biology and Biochemistry*, 69, 168-178.
- Muellner, A. E., Mascher-Frutschi, F., Schneider, D., Ittu, G., Toncea, I., Rolland, B., & Löschenberger, F. (2014). Refining breeding methods for organic and low-input agriculture: analysis of an international winter wheat ring test. *Euphytica*, 199, 81-95.
- Naderi-Boldaji, M., Alimardani, R., Hemmat, A., Sharifi, A., Keyhani, A., Tekeste, M. Z., & Keller, T. (2014). 3D finite element simulation of a single-tip horizontal penetrometer–soil interaction. Part II: Soil bin verification of the model in a clay-loam soil. *Soil and Tillage Research*, 144, 211-219.
- Naderi-Boldaji, M., Sharifi, A., Hemmat, A., Alimardani, R., & Keller, T. (2014). Feasibility study on the potential of electrical conductivity sensor Veris® 3100 for field mapping of topsoil strength. *Biosystems Engineering*, 126, 1-11.
- Nemecek, T., Schnetzer, J., & Reinhard, J. (2014). Updated and harmonised greenhouse gas emissions for crop inventories. *The International Journal of Life Cycle Assessment*, online, 1-18.
- Nilsson, R. H., Hyde, K., Pawłowska, J., Ryberg, M., Tedersoo, L., Aas, A., Alias, S., Alves, A., Anderson, C., Antonelli, A., Arnold, A. E., Bahnmann, B., Bahram, M., Bengtsson-Palme, J., Berlin, A., Branco, S., Chomnunti, P., Dissanayake, A., Drenkhan, R., Friberg, H., Frøslev, T., Halwachs, B., Hartmann, M., Henricot, B., Jayawardena, R., Jumpponen, A., Kauserud, H., Koskela, S., Kulik, T., Liimatainen, K., Lindahl, B., Lindner, D., Liu, J.-K., Maharachchikumbura, S., Manamgoda, D., Martinsson, S., Neves, M., Niskanen, T., Nylinder, S., Pereira, O., Pinho, D., Porter, T., Queloz, V., Riit, T., Sánchez-García, M., de Sousa, F., Stefańczyk, E., Tadych, M., Takamatsu, S., Tian, Q., Udayanga, D., Unterseher, M., Wang, Z., Wikee, S., Yan, J., Larsson, E., Larsson, K.-H., Kõljalg, U., & Abarenkov, K. (2014). Improving ITS sequence data for identification of plant pathogenic fungi. *Fungal Diversity*, 67 (1), 11-19.
- Njeru, E., Avio, L., Bocci, G., Sbrana, C., Turrini, A., Bàrberi, P., Giovannetti, M., & Oehl, F. (2014). Contrasting effects of cover crops on 'hot spot' arbuscular mycorrhizal fungal communities in organic tomato. *Biology and Fertility of Soils*, 51, 1-16.

Nucera, E., Orlandi, S., D'Adda, G., Garzoli, D., Bertossa, M., & Mosimann, E. (2014). Supporting herders and improving forage production in the South side of Alps - A development project. *Options Méditerranéennes A*, 109, 603-607.

Oehl, F., & Körner, C. (2014). Multiple mycorrhization at the coldest place known for Angiosperm plant life. *Alpine Botany*, 124 (2), 193-198.

Oehl, F., Sánchez-Castro, I., Ferreira de Sousa, N. M., Silva, G., & Palenzuela, J. (2014). *Dominikia bernensis*, a new arbuscular mycorrhizal fungus from a Swiss no-till farming site, and *D. aurea*, *D. compressa* and *D. indica*, three new combinations in *Dominikia Nova Hedwigia*, 101, 101-112.

Oehl, F., Sánchez-Castro, I., Palenzuela, J., & Alves da Silva, G. (2014). *Palaeospora spainii*, a new arbuscular mycorrhizal fungus from Swiss agricultural soils. *Nova Hedwigia*, 100, 101-114.

Oehl, F., Sánchez-Castro, I., Palenzuela, J., da Silva, G. A., & Sieverding, E. (2014). *Glomus compressum*, a new arbuscular mycorrhizal fungus from different agro-ecosystems in Central Europe. *Nova Hedwigia*, 99 (3-4), 429-439.

Oehl, F., Tchabi, A., Silva, G. A., Sánchez-Castro, I., Palenzuela, J., do Monte Júnior, I. P., Lawouin, L. E., Coyne, D., & Hou Hountondji, F. C. C. (2014). *Acaulospora spinosissima*, a new arbuscular mycorrhizal fungus from the Southern Guinea Savanna in Benin. *Sydowia*, 66 (1), 29-42.

Orlandi, S., Nucera, E., Mosimann, E., Lonati, M., Lombardi, G., D'Adda, G., Garzoli, D., & Bertossa, M. (2014). *Setaria pumila* (Poir.) Roem. e Schult affects grassland botanical composition and forage nutritive value. *Options Méditerranéennes A*, 109, 213-217.

Pahl, C., Hartung, E., Grothmann, A., Mahlkow-Nerge, K., & Haeussermann, A. (2014). Rumination activity of dairy cows in the 24 hours before and after calving. *Journal of Dairy Science*, 97 (11), 6935-6941.

Palenzuela, J., Azcón-Aguilar, C., Barea, J.-M., da Silva, G. A., & Oehl, F. (2014). *Acaulospora viridis*, a new species in the Glomeromycetes from two mountain ranges in Andalucía (Spain). *Nova Hedwigia*, 99 (1-2), 71-82.

Paolocci, M., Muganu, M., Alonso-Villaverde, V., & Gindro, K. (2014). Leaf morphological characteristics and stilbene production differently affect downy mildew resistance of *Vitis vinifera* varieties grown in Italy. *Vitis*, 53 (3), 19-24.

Parker, A., Garcia de Cortazar-Atauri, I., Chuine, I., Barbeau, G., Bois, B., Boursiquot, J.-M., Cahurel, J.-Y., Claverie, M., Dufourcq, T., Gény, L., Guimberteau, G., Hofmann, R. W., Jacquet, O., Lacombe, T., Monamy, C., Ojeda, H., Panigai, L., Payan, J.-C., Rodriguez Lovelle, B., Rouchaud, E., Schneider, C., Spring, J.-L., Storchi, P., Tomasi, D., Trambouze, W., Trought, M., & Van Leeuwen, C. (2014). Classification of varieties for their timing of flowering and veraison using a modelling approach: A case study for the grapevine species *Vitis vinifera* L. *Agricultural and Forest Meteorology*, 180, 249-264.

Pavlova, V. N., Varcheva, S. E., Bokusheva, R., & Calanca, P. (2014). Modelling the effects of climate variability on spring wheat productivity in the steppe zone of Russia and Kazakhstan. *Ecological Modelling*, 277, 57-67.

Peeters, A., Beaufoy, G., Canals, R. M., De Vlieghe, A., Huyghe, C., Isselstein, J., Jones, G., Kessler, W., Kirilov, A., Mosquera-Losada, M. R., Nilsdotter-Linde, N., Parente, G., Peyraud, J.-L., Pickert, J., Plantureux, S., Porqueddu, C., Rataj, D., Stypinski, P., Tonn, B., van den Pol- van Dasselaar, A., Vintu, V., & Wilkins, R. J. (2014). Grassland term definitions and classifications adapted to the diversity of European grassland-based systems. *Grassland Science in Europe*, 19, 743-750.

Peyraud, J. L., van den Pol-van Dasselaar, A., Collins, R. P., Huguenin, O., Dillon, P., & Peeters, A. (2014). Multi-species swards and multi scale strategies for multifunctional grassland-base ruminant production systems: An overview of the FP7-MultiSward project. *Grassland Science in Europe*, 19, 695-715.

Pietsch, C., Noser, J., Wettstein, F. E., & Burkhardt-Holm, P. (2014). Unraveling the mechanisms involved in zearalenone-mediated toxicity in permanent fish cell cultures. *Toxicon*, 88, 44-61.

Plantureux, S., Dumont, B., Rossignol, N., Taugourdeau, S., & Huguenin, O. (2014). An indicator-based tool to access environmental impacts of multi-specific swards. *Grassland Science in Europe*, 19, 756-758.

Ponce, C. H., Brown, M. S., Silva, J. S., Schlegel, P., Rounds, W., & Hallford, D. M. (2014). Effects of a dietary sweetener on growth performance and health of stressed beef calves and on diet digestibility and plasma and urinary metabolite concentrations of healthy calves. *Journal of Animal Science*, 92 (4), 1630-1638.

Prins, W. H., & Kessler, W. (2014). The European Grassland Federation at 50: past, present and future. *Grassland Science in Europe*, 19, 3-11.

Qeli, E., Omasits, U., Goetze, S., Stekhoven, D. J., Frey, J. E., Basler, K., Wollscheid, B., Brunner, E., & Ahrens, C. (2014). Improved prediction of peptide detectability for targeted proteomics using a rank-based algorithm and organism-specific dat. *Journal of Proteomics*, 108, 269-283.

Raybould, A., Quemada, H., & Romeis, J. (2014). Introduction to ISBGMO12: biosafety research past, present and future. *Transgenic Research*, 23 (6), 911-914.

Reiser, R., Simmler, M., Portmann, D., Clucas, L., Schulin, R., & Robinson, B. (2014). Cadmium concentrations in New Zealand pastures: Relationships to soil and climate variables. *Journal Environmental Quality*, 43 (3), 917-925.

Ricci, P., Umstätter, C., Holland, J. P., & Waterhouse, A. (2014). Does diverse grazing behavior of suckler cows have an impact on predicted methane emissions? *Journal of Animal Science* 92 (3), 1239-1249.

Romeis, J., Meissle, M., Álvarez-Alfageme, F., Bigler, F., Bohan, D., Devos, Y., Malone, L., Pons, X., & Rauschen, S. (2014). Potential use of an arthropod database to support the non-target risk assessment and monitoring of transgenic plants. *Transgenic Research*, 23 (6), 995-1013.

Romeis, J., Meissle, M., Naranjo, S., Li, Y., & Bigler, F. (2014). The end of a myth – Bt (Cry1Ab) maize does not harm green lacewings. *Frontiers in Plant Science*, 5, 1-10.

- Sagaya, F. M., Hacin, B., Tompa, G., Ihan, A., Spela, S., Cerne, M., Hurrell, R. F., Matijasic, B. B., Rogelj, I., & Vergères, G. (2014). *Lactobacillus gasseri* K7 modulates the blood cell transcriptome of conventional mice infected with *Escherichia coli* O157:H7. *Journal of Applied Microbiology*, 116 (4), 1-15.
- Sanabria, J., Calanca, P., Alarcón, C., & Canchari, G. (2014). Potential impacts of early twenty-first century changes in temperature and precipitation on rainfed annual crops in the Central Andes of Peru. *Regional Environmental Change*, 14 (4), 1533-1548.
- Sandau, N., Rohr, R. P., Naisbit, R. E., Fabian, Y., Buggisser, O. T., Kehrli, P., Aebi, P., & Bersier, L.-F. (2014). Including community composition in biodiversity–productivity models. *Methods in Ecology and Evolution*, 5 (8), 815-823.
- Schlaeppli, K., Dombrowski, N., Oter, R. G., Ver Loren van Themaat, E., & Schulze-Lefert, P. (2014). Quantitative divergence of the bacterial root microbiota in *Arabidopsis thaliana* relatives. *Proceedings of the National Academy of Sciences*, 111 (2), 585-592.
- Schneider, M. K., Lüscher, G., Jeanneret, P., Arndorfer, M., Ammari, Y., Bailey, D., Balázs, K., Báldi, A., Choisis, J.-P., Dennis, P., Eiter, S., Fjellstad, W., Fraser, M. D., Frank, T., Friedel, J. K., Garchi, S., Geijzendorffer, I. R., Gomiero, T., Gonzalez-Bornay, G., Hector, A., Jerkovich, G., Jongman, R. H. G., Kakudidi, E., Kainz, M., Kovács-Hostyánszki, A., Moreno, G., Nkwiine, C., Opio, J., Oschatz, M.-L., Paoletti, M. G., Pointereau, P., Pulido, F. J., Sarthou, J.-P., Siebrecht, N., Sommaggio, D., Turnbull, L. A., Wolfrum, S., & Herzog, F. (2014). Gains to species diversity in organically farmed fields are not propagated at the farm level. *Nature Communications*, 5, 1-9.
- Schoch, C. L., Robbertse, B., Robert, V., Vu, D., Cardianli, G., Irinyi, L., Meyer, W., Nilsson, R. H., Hughes, K., Miller, A. N., Kirk, P. M., Abarenkov, K., Aime, M. C., Ariyawansa, H. A., Bidartondo, M., Boekhout, T., Buyck, B., Cai, Q., Chen, J., Crespo, A., Crous, P. W., Damm, U., De Beer, Z. W., Dentinger, B. T. M., Divakar, P. K., Duenas, M., Feau, N., Fliegerova, N., Garcia, M. A., Ge, Z.-W., Griffith, G. W., Groenewald, J. Z., Groenewald, M., Grube, M., Gryzenhout, M., Gueidan, C., Guo, L., Hambleton, S., Hamelin, R., Hansen, K., Hofstetter, V., Hong, S. B., Houbraken, J., Hyde, K. D., Inderbitzin, P., Johnston, P. R., Karunarathna, S. C., Koljalg, U., Kovacs, G. M., Kraichak, E., Krizsan, K., Kurtzman, C. P., Larsson, K.-H., Leavitt, S., Letcher, P. M., Liimatainen, K., Liu, J.-K., Lodge, J. D., Luangsa-ard, J. J., Lumbsch, T., Maharachchikumbura, S. S. N., Manamgoda, D., Martin, M. P., Minnis, A. M., Moncalvo, J.-M., Mulè, G., Nakasone, K. K., Niskanen, T., Olariaga, I., Papp, T., Petkovits, T., Pino-Bodas, R., Powell, M. J., Raja, H. A., Redecker, D., Sarmiento-Ramirez, A. M., Seifert, K. A., Shrestha, B., Stenroos, S., Stielow, B., Suh, S.-O., Tanaka, K., Tedersoo, L., Telleria, M. T., Udayanga, D., Untereiner, W. A., Uribeondo, J. D., Subbarao, K., Vagvolgyi, C., Visagie, C., Voigt, K., Walker, D. M., Weir, B. S., Weiss, M., Wijayawardene, N. N., Wingfield, M. J., Xu, J.-P., Yang, Z. L., Zhang, N., Zhuang, W.-Y., & Federhen, S. (2014). Finding needles in haystacks: linking scientific names, reference specimens and molecular data for Fungi. *Database*, 2014 online, 1-21.
- Schori, F., Thanner, S., Görs, S., Metges, C. C., Bruckmaier, R. M., & Dohme-Meier, F. (2014). Energy expenditure of two grazing Holstein cow strains. *Grassland Science in Europe*, 19, 538-540.
- Schüepp, C., Uzman, D., Herzog, F., & Entling, M. H. (2014). Habitat isolation affects plant–herbivore–enemy interactions on cherry trees. *Biological Control*, 71, 56-64.
- Schulze Westerath, H., Gygax, L., & Hillmann, E. (2014). Are special feed and being brushed judged as positive by calves? *Applied Animal Behaviour Science* 156, 12-21.

- Schwab, F., Camenzuli, L., Knauer, K., Nowack, B., Magrez, A., Sigg, L., & Bucheli, T. D. (2014). Sorption kinetics and equilibrium of the herbicide diuron to carbon nanotubes or soot in absence and presence of algae. *Environmental Pollution*, 192, 147-153.
- Shao, S.-C., Buyck, B., Hofstetter, V., Tian, X.-F., Geng, Y.-H., Yu, F.-Q., & Liu, P.-G. (2014). *Cantharellus hygrophorus*, a new species in sugenus *Afrocantharellus* from tropical southwestern China. *Cryptogamie Mycologie*, 35 (3), 281-289.
- Sieverding, E., Alves da Silva, G., Berndt, R., & Oehl, F. (2014). *Rhizogloinus*, a new genus of the *Glomeraceae*. *Mycotaxon*, 129 (2), 373-386.
- Signer-Hasler, H., Neuditschko, M., Koch, C., Froidevaux, S., Flury, C., Burger, D., Leeb, T., & Rieder, S. (2014). A chromosomal region on ECA13 is associated with maxillary prognathism in horses. *PLoS ONE*, 9 (1), e86607.
- Silva, I. R. d., Mello, C. M. A. d., Ferreira Neto, R. A., Silva, D. K. A. d., Melo, A. L. d., Oehl, F., & Maia, L. C. (2014). Diversity of arbuscular mycorrhizal fungi along an environmental gradient in the Brazilian semiarid. *Applied Soil Ecology*, 84, 166-175.
- Sintermann, J., Schallhart, S., Kajos, M., Jocher, M., Bracher, A., Munger, A., Johnson, D., Neftel, A., & Ruuskanen, T. (2014). Trimethylamine emissions in animal husbandry. *Biogeosciences*, 11 (18), 5073-5085.
- Smith, P. C., Heinrich, G., Suklitsch, M., Gobiet, A., Stoffel, M., & Fuhrer, J. (2014). Station-scale bias correction and uncertainty analysis for the estimation of irrigation water requirements in the Swiss Rhone catchment under climate change. *Climatic Change*, 127 (3-4), 521-534.
- Sousa, C. S., Menezes, R. S. C., Sampaio, E. V. B. S., Lima, F. S., Maia, L. C., & Oehl, F. (2014). Arbuscular mycorrhizal fungi in successional stages of caatinga in the semi-arid region of Brazil. *Ciencia Florestal*, 24 (1), 137-148.
- Staddon, P. L., Reinsch, S., Olsson, P. A., Ambus, P., Luscher, A., & Jakobsen, I. (2014). A decade of free-air CO₂ enrichment increased the carbon throughput in a grass-clover ecosystem but did not drastically change carbon allocation patterns. *Functional Ecology*, 28 (2), 538-545.
- Steinger, T., Gilliland, H., & Hebeisen, T. (2014). Epidemiological analysis of risk factors for the spread of potatoviruses in Switzerland. *Annals of Applied Biology*, 164, 200-207.
- Steinwender, B. M., Enkerli, J., Widmer, F., Eilenberg, J., Thorup-Kristensen, K., & Meyling, N. V. (2014). Molecular diversity of the entomopathogenic fungal *Metarhizium* community within an agroecosystem. *Journal of Invertebrate Pathology*, 123, 6-12.
- Stettler, M., Keller, T., Weisskopf, P., Lamande, M., Lassen, P., & Schjønning, P. (2014). Terranimo  - a web-based tool for evaluating soil compaction. *Landtechnik*, 69 (3), 132-137.
- Stettler, M., Keller, T., Weisskopf, P., Lamande, M., Lassen, P., & Schjønning, P. (2014). Terranimo  - ein webbasiertes Modell zur Abschatzung des Bodenverdichtungsrisikos. *Landtechnik*, 69 (3), 132-137.
- Stopnisek, N., Bodenhausen, N., Frey, B., Fierer, N., Eberl, L., & Weisskopf, L. (2014). Genus-wide acid tolerance accounts for the biogeographical distribution of soil *Burkholderia* populations. *Environmental Microbiology*, 16 (6), 1503-1512.

Struck, C., Külpmann, R., Sax, M., & Hartmann, A. (2014). Minimierung von Hitzestress und Heizenergiebedarf in mechanisch belüfteten Mastgeflügelställen. *Bauphysik*, 36 (6), 298-308.

Suter, D., Hofer, D., & Lüscher, A. (2014). Screening reveals opportunities for high sugar cultivars of *Lolium perenne* L. *Grassland Science in Europe*, 19, 874-876.

Targetti, S., Herzog, F., Geijzendorffer, I. R., Wolfrum, S., Arndorfer, M., Balázs, K., Choisis, J. P., Dennis, P., Eiter, S., Fjellstad, W., Friedel, J. K., Jeanneret, P., Jongman, R. H. G., Kainz, M., Luescher, G., Moreno, G., Zanetti, T., Sarthou, J. P., Stoyanova, S., Wiley, D., Paoletti, M. G., & Viaggi, D. (2014). Estimating the cost of different strategies for measuring farmland biodiversity: Evidence from a Europe-wide field evaluation. *Ecological Indicators*, 45, 434-443.

Taugourdeau, S., Villerd, J., Plantureux, S., Huguenin-Elie, O., & Amiaud, B. (2014). Filling the gap in functional trait databases: use of ecological hypotheses to replace missing data. *Ecology and Evolution*, 4 (7), 944-958.

Thanner, S., Dohme-Meier, F., Görs, S., Metges, C. C., Bruckmaier, R. M., & Schori, F. (2014). The energy expenditure of 2 Holstein cow strains in an organic grazing system. *Journal of Dairy Science*, 97 (5), 2789-2799.

Tian, J.-C., Long, L.-P., Wang, X.-P., Naranjo, S. E., Romeis, J., Hellmich, R. L., Wang, P., & Shelton, A. M. (2014). Using resistant prey demonstrates that Bt plants producing Cry1Ac, Cry2Ab, and Cry1F have no negative effects on *Geocoris punctipes* and *Orius insidiosus*. *Environmental Entomology*, 43 (1), 242-251.

Tian, J.-C., Wang, X.-P., Long, L.-P., Romeis, J., Naranjo, S., Hellmich, R., & Shelton, A. (2014). Eliminating host-mediated effects demonstrates Bt maize producing Cry1F has no adverse effects on the parasitoid *Cotesia marginiventris*. *Transgenic Research*, 23 (2), 257-264.

Trivellone, V., Schoenenberger, N., Jermini, M., de Bello, F., Mitchell, E. A. D., & Moretti, M. (2014). Indicators for taxonomic and functional aspects of biodiversity in the vineyard agroecosystem of Southern Switzerland. *Biological Conservation*, 170, 103-109.

Verbruggen, E., Rillig, M. C., Wehner, J., Hegglin, D., Wittwer, R., & van der Heijden, M. G. A. (2014). Sebacinalea, but not total root associated fungal communities, are affected by land-use intensity. *New Phytologist*, 203 (4), 1036-1040.

Viret, O. (2014). Integrated grape production in Switzerland and its ecological impact in reducing pesticide use in reducing pesticide use. *IOBC wprs Bulletin*, 105, 1-9.

Vögeli, S., Lutz, J., Wolf, M., Wechsler, B., & Gygax, L. (2014). Valence of physical stimuli, not housing conditions, affects behaviour and frontal cortical brain activity in sheep. *Behavioural Brain Research* 267, 144-155.

Vögeli, S., Wechsler, B., & Gygax, L. (2014). Welfare by the ear: comparing relative durations and frequencies of ear postures by using an automated tracking system in sheep. *Animal Welfare*, 23 (3), 267-274.

Volk, M., Wolff, V., Bassin, S., Ammann, C., & Fuhrer, J. (2014). High tolerance of subalpine grassland to long-term ozone exposure is independent of N input and climatic drivers. *Environmental Pollution*, 189, 161-168.

- Wagg, C., Bender, S. F., Widmer, F., & van der Heijden, M. G. A. (2014). Soil biodiversity and soil community composition determine ecosystem multifunctionality. *Proceedings of the National Academy of Sciences*, 111 (14), 5266-5270.
- Wang, Z.-X., Lin, K.-J., Romeis, J., Liu, Y.-L., Liu, Z.-W., Li, Y.-H., & Peng, Y.-F. (2014). Use of a dietary exposure system for screening of insecticidal compounds for their toxicity to the planthopper *Laodelphax striatellus*. *Insect Science*, 21 (5), 667-675.
- Wespi, B., Sieme, H., Wedekind, C., & Burger, D. (2014). Exposure to stallion accelerates the onset of mares' cyclicity. *Theriogenology*, 82, 189-194.
- Wetzel, K., Silva, G., Matczinski, U., Oehl, F., & Fester, T. (2014). Superior differentiation of arbuscular mycorrhizal fungal communities from till and no-till plots by morphological spore identification when compared to T-RFLP. *Soil Biology and Biochemistry*, 72, 88-96.
- Wyss, U., Girard, M., Grosse-Brinkhaus, A., Arrigo, Y., Dohme-Meier, F., & Bee, G. (2014). Effect of harvest and ensiling on different protein fractions in three different legumes. *Grassland Science in Europe*, 19, 593-596.
- Yang, Y., Liu, Y., Cao, F., Chen, X., Cheng, L., Romeis, J., Li, Y., & Peng, Y. (2014). Consumption of *Bt* rice pollen containing Cry1C or Cry2A protein poses a low to negligible risk to the silkworm *Bombyx mori* (Lepidoptera: *Bombyxidae*). *PLoS ONE*, 9 (7), e102302.
- Yu, H., Romeis, J., Li, Y., Li, X., & Wu, K. (2014). Acquisition of Cry1Ac protein by non-target arthropods in *Bt* soybean fields. *PLoS ONE*, 9 (8), e103973.
- Zhang, X., Li, Y., Romeis, J., Yin, X., Wu, K., & Peng, Y. (2014). Use of a pollen-based diet to expose the ladybird beetle *Propylea japonica* to insecticidal proteins. *PLoS ONE*, 9 (1), e85395.