

Publications

PD Dr. Catrin Westphal

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International peer-reviewed publications (last update 09.03.2018)

2018

- (46) Wietzke, A., Westphal, C., Gras, P., Kraft, M., Pfohl, K., Karlovsky, P., Pawelzik, E., Tschardtke, T. & Smit, I. (2018). Insect pollination as a key factor for strawberry physiology and marketable fruit quality. *Agriculture, Ecosystems & Environment*, 258, 197-204.
- (45) Grass, I., Bohle, V., Tschardtke, T. & Westphal, C. (accepted). How plant reproductive success is determined by the interplay of antagonists and mutualists. *Ecosphere*.
- (44) Sann, C., Theodorou, P., Heong, K.L., Villareal, S., Settele, J., Vidal, S. & Westphal, C. (2018). Hopper parasitoids do not significantly benefit from non-crop habitats in rice production landscapes. *Agriculture, Ecosystems & Environment*, 254, 224-232.
- (43) Hass, A.L., Liese, B., Heong, K.L., Settele, J., Tschardtke, T. & Westphal, C. (2018). Plant-pollinator interactions and bee functional diversity are driven by agroforests in rice-dominated landscapes. *Agriculture, Ecosystems & Environment*, 253, 140-147.

2017

- (42) Herbst, C., Arnold-Schwandner, S., Meiners, T., Peters, M.K., Rothenwöhrer, C., Steckel, J., Wäschke, N., Westphal, C. & Obermaier, E. (2017). Direct and indirect effects of agricultural intensification on a host-parasitoid system on the ribwort plantain (*Plantago lanceolata* L.) in a landscape context. *Landscape Ecology*, 32, 2015-2028.
- (41) Schrader, J., Franzén, M., Sattler, C., Ferderer, P. & Westphal, C. (2017). Woody habitats promote pollinators and complexity of plant–pollinator interactions in homegardens located in rice terraces of the Philippine Cordilleras. *Paddy and Water Environment*.
- (40) Hudson, L.N., ..., Westphal, C., ... & Purvis, A. (2017). The database of the PREDICTS (Projecting Responses of Ecological Diversity In Changing Terrestrial Systems) project. *Ecology and Evolution*, 7, 145-188.

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- (39) Gossner, M.M., Lewinsohn, T., Kahl, T., Grassein, F., Boch, S., Prati, D., Birkhofer, K., Renner, S.C., Sikorski, J., Wubet, T., Arndt, H., Baumgartner, V., Blaser, S., Blüthgen, N., Börschig, C., Buscot, F., Diekötter, T., Jorge, L.R., Jung, K., Keyel, A.C., Klein, A.-M., Klemmer, S., Krauss, J., Lange, M., Müller, J., Overmann, J., Pašalić, E., Penone, C., Perović, D.J., Purschke, O., Schall, P., Socher, S.A., Sonnemann, I., Tschapka, M., Tschardtke, T., Türke, M., Venter, P.C., Weiner, C.N., Werner, M., Wolters, V., Wurst, S., **Westphal, C.**, Fischer, M., Weisser, W.W. & Allan, E. (2016). Land-use intensification causes multitrophic homogenization of grassland communities. *Nature*, 540, 266-269.
- (38) Schlinkert, H., **Westphal, C.**, Clough, Y., Grass, I., Helmerichs, J. & Tschardtke, T. (2016) Plant size affects mutualistic and antagonistic interactions and reproductive success across 21 Brassicaceae species. *Ecosphere*, 7, e01529-n/a.
- (37) Soliveres, S., van der Plas, F., Manning, P., Prati, D., Gossner, M.M., Renner, S.C., Alt, F., Arndt, H., Baumgartner, V., Binkenstein, J., Birkhofer, K., Blaser, S., Blüthgen, N., Boch, S., Böhm, S., Börschig, C., Buscot, F., Diekötter, T., Heinze, J., Hölzel, N., Jung, K., Klaus, V.H., Kleinebecker, T., Klemmer, S., Krauss, J., Lange, M., Morris, E.K., Müller, J., Oelmann, Y., Overmann, J., Pašalić, E., Rillig, M.C., Schaefer, H.M., Schlöter, M., Schmitt, B., Schöning, I., Schrumpf, M., Sikorski, J., Socher, S.A., Solly, E.F., Sonnemann, I., Sorkau, E., Steckel, J., Steffan-Dewenter, I., Stempfhuber, B., Tschapka, M., Türke, M., Venter, P.C., Weiner, C.N., Weisser, W.W., Werner, M., **Westphal, C.**, Wilcke, W., Wolters, V., Wubet, T., Wurst, S., Fischer, M. & Allan, E. (2016). Biodiversity at multiple trophic levels is needed for ecosystem multifunctionality. *Nature*, 536, 456-459.
- (36) De Palma, A., Abrahamczyk, S., Aizen, M.A., Albrecht, M., Basset, Y., Bates, A., Blake, R.J., Boutin, C., Bugter, R., Connop, S., Cruz-López, L., Cunningham, S.A., Darvill, B., Diekötter, T., Dorn, S., Downing, N., Entling, M.H., Farwig, N., Felicioli, A., Fonte, S.J., Fowler, R., Franzén, M., Goulson, D.,

Grass, I., Hanley, M.E., Hendrix, S.D., Herrmann, F., Herzog, F., Holzschuh, A., Jauker, B., Kessler, M., Knight, M.E., Kruess, A., Lavelle, P., Le Féon, V., Lentini, P., Malone, L.A., Marshall, J., Pachón, E.M., McFrederick, Q.S., Morales, C.L., Mudri-Stojnic, S., Nates-Parra, G., Nilsson, S.G., Öckinger, E., Osgathorpe, L., Parra-H, A., Peres, C.A., Persson, A.S., Petanidou, T., Poveda, K., Power, E.F., Quaranta, M., Quintero, C., Rader, R., Richards, M.H., Roulston, T.a., Rousseau, L., Sadler, J.P., Samnegård, U., Schellhorn, N.A., Schüepp, C., Schweiger, O., Smith-Pardo, A.H., Steffan-Dewenter, I., Stout, J.C., Tonietto, R.K., Tschardtke, T., Tylianakis, J.M., Verboven, H.A.F., Vergara, C.H., Verhulst, J., **Westphal, C.**, Yoon, H.J. & Purvis, A. (2016). Predicting bee community responses to land-use changes: Effects of geographic and taxonomic biases. *Scientific Reports*, 6, 31153.

(35) Kämper, W., Werner, P.K., Hilpert, A., **Westphal, C.**, Blüthgen, N., Eltz, T. & Leonhardt, S.D. (2016). How landscape, pollen intake and pollen quality affect colony growth in *Bombus terrestris*. *Landscape Ecology*, 1-14.

(34) Soliveres, S., Manning, P., Prati, D., Gossner, M.M., Alt, F., Arndt, H., Baumgartner, V., Binkenstein, J., Birkhofer, K., Blaser, S., Blüthgen, N., Boch, S., Böhm, S., Börschig, C., Buscot, F., Diekötter, T., Heinze, J., Hölzel, N., Jung, K., Klaus, V.H., Klein, A.-M., Kleinebecker, T., Klemmer, S., Krauss, J., Lange, M., Morris, E.K., Müller, J., Oelmann, Y., Overmann, J., Pašalić, E., Renner, S.C., Rillig, M.C., Schaefer, H.M., Schlöter, M., Schmitt, B., Schöning, I., Schrumpf, M., Sikorski, J., Socher, S.A., Solly, E.F., Sonnemann, I., Sorkau, E., Steckel, J., Steffan-Dewenter, I., Stempfhuber, B., Tschapka, M., Türke, M., Venter, P., Weiner, C.N., Weisser, W.W., Werner, M., **Westphal, C.**, Wilcke, W., Wolters, V., Wubet, T., Wurst, S., Fischer, M. & Allan, E. (2016). Locally rare species influence grassland ecosystem multifunctionality. *Philosophical Transactions of the Royal Society B: Biological Sciences*, 371.

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(32) Settele, J., Spangenberg, J.H., Heong, K.L., Burkhard, B., Bustamante, J.V., Cabbigat, J., Chien, H.V., Escalada, M., Grescho, V., Hai, L.H., Harpke, A., Horgan, F.G., Hotes, S., Jahn, R., Kuhn, I., Marquez, L., Schadler, M., Tekken, V., Vetterlein, D., Villareal, S., **Westphal, C.** & Wiemers, M. (2015). Agricultural landscapes and ecosystem services in South-East Asia-the LEGATO-Project. *Basic and Applied Ecology*, 16, 661-664.

(31) Gámez-Virués, S., Perović, D.J., Gossner, M.M., Börschig, C., Blüthgen, N., Jong, H.d., Simons, N.K., Klein, A.-M., Krauss, J., Maier, G., Scherber, C., Steckel, J., Rothenwöhrer, C., Steffan-Dewenter, I., Weiner, C.N., Weisser, W., Werner, M., Tschardtke, T. & **Westphal, C.** (2015). Landscape simplification filters species traits and drives biotic homogenization. *Nature Communications*, 6, 8568.

(30) Schlinkert, H., **Westphal, C.**, Clough, Y., Laszlo, Z., Ludwig, M. & Tschardtke, T. (2015). Plant Size as Determinant of Species Richness of Herbivores, Natural Enemies and Pollinators across 21 Brassicaceae Species. *PLoS One*, 10.

(28) Allan, E., Manning, P., Alt, F., Binkenstein, J., Blaser, S., Blüthgen, N., Böhm, S., Grassein, F., Hölzel, N., Klaus, V.H., Kleinebecker, T., Morris, E.K., Oelmann, Y., Prati, D., Renner, S.C., Rillig, M.C., Schaefer, M., Schlöter, M., Schmitt, B., Schöning, I., Schrumpf, M., Solly, E., Sorkau, E., Steckel, J., Steffan-Dewenter, I., Stempfhuber, B., Tschapka, M., Weiner, C.N., Weisser, W.W., Werner, M., **Westphal, C.**, Wilcke, W. & Fischer, M. (2015). Land use intensification alters ecosystem multifunctionality via loss of biodiversity and changes to functional composition. *Ecology Letters*, 18, 834-843.

(27) Kleijn, D., Winfree, R., Bartomeus, I., Carvalheiro, L.G., Henry, M., Isaacs, R., Klein, A.-M., Kremen, C., M'Gonigle, L.K., Rader, R., Ricketts, T.H., Williams, N.M., Lee Adamson, N., Ascher, J.S., Baldi, A., Batary, P., Benjamin, F., Biesmeijer, J.C., Blitzer, E.J., Bommarco, R., Brand, M.R., Bretagnolle, V., Button, L., Cariveau, D.P., Chifflet, R., Colville, J.F., Danforth, B.N., Elle, E., Garratt, M.P.D., Herzog, F., Holzschuh, A., Howlett, B.G., Jauker, F., Jha, S., Knop, E., Kremen, K.M., Le Feon, V., Mandelik, Y., May, E.A., Park, M.G., Pisanty, G., Reemer, M., Riedinger, V., Rollin, O., Rundlof, M., Sardinias, H.S., Scheper, J., Sciligo, A.R., Smith, H.G., Steffan-Dewenter, I., Thorp, R., Tschardtke, T., Verhulst, J., Viana, B.F., Vaissiere, B.E., Veldtman, R., **Westphal, C.** & Potts, S.G. (2015). Delivery of crop pollination services is an insufficient argument for wild pollinator conservation. *Nature Communications*, 6.

- (26) Perović, D., Gámez-Virués, S., Börschig, C., Klein, A.-M., Krauss, J., Steckel, J., Rothenwöhrer, C., Erasmi, S., Tschardtke, T. & **Westphal, C.** (2015). Configurational landscape heterogeneity shapes functional community composition of grassland butterflies. *Journal of Applied Ecology*, 52, 505-513.
- (25) Schlinkert, H., **Westphal, C.**, Clough, Y., Ludwig, M., Kabouw, P. & Tschardtke, T. (2015). Feeding damage to plants increases with plant size across 21 Brassicaceae species. *Oecologia*, 1-12.

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- (24) Allan, E., Bossdorf, O., Dormann, C.F., Prati, D., Gossner, M.M., Tschardtke, T., Bluthgen, N., Bellach, M., Birkhofer, K., Boch, S., Böhm, S., Börschig, 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., Müller, J., Naeke, H., Pasalic, E., Rillig, M.C., Rothenwöhrer, C., Schally, P., Scherber, C., Schulze, W., Socher, S.A., Steckel, J., Steffan-Dewenter, I., Turke, M., Weiner, C.N., Werner, M., **Westphal, C.**, Wolters, V., Wubet, T., Gockel, S., Gorke, M., Hemp, A., Renner, S.C., Schöning, 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, 308-313.
- (23) Bartomeus, I., Potts, S.G., Steffan-Dewenter, I., Vaissiere, B.E., Woyciechowski, M., Kremen, K.M., Tscheulin, T., Roberts, S.P.M., Szentgyorgyi, H., **Westphal, C.** & Bommarco, R. (2014). Contribution of insect pollinators to crop yield and quality varies with agricultural intensification. *PeerJ*, 2, e328-e328.
- (22) Klatt, B., Klaus, F., **Westphal, C.** & Tschardtke, T. (2014). Enhancing crop shelf life with pollination. *Agriculture & Food Security*, 3, 14.
- (21) Klatt, B.K., Holzschuh, A., **Westphal, C.**, Clough, Y., Smit, I., Pawelzik, E. & Tschardtke, T. (2014). Bee pollination improves crop quality, shelf life and commercial value. *Proceedings of the Royal Society B-Biological Sciences*, 281, 1471-2954.
- (20) Liu, Y.H., Rothenwöhrer, C., Scherber, C., Batary, P., Elek, Z., Steckel, J., Erasmi, S., Tschardtke, T. & **Westphal, C.** (2014). Functional beetle diversity in managed grasslands: effects of region, landscape context and land use intensity. *Landscape Ecology*, 29, 529-540.
- (19) Steckel, J., **Westphal, C.**, Peters, M.K., Bellach, M., Rothenwöhrer, C., Erasmi, S., Scherber, C., Tschardtke, T. & Steffan-Dewenter, I. (2014). Landscape composition and configuration differently affect trap-nesting bees, wasps and their antagonists. *Biological Conservation*, 172, 56-64.

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- (17) Kennedy, C.M., Lonsdorf, E., Neel, M.C., Williams, N.M., Ricketts, T.H., Winfree, R., Bommarco, R., Brittain, C., Burley, A.L., Cariveau, D., Carvalheiro, L.G., Chacoff, N.P., Cunningham, S.A., Danforth, B.N., Dudenhoefter, J.-H., Elle, E., Gaines, H.R., Garibaldi, L.A., Gratton, C., Holzschuh, A., Isaacs, R., Javorek, S.K., Jha, S., Klein, A.M., Kremen, K., Mandelik, Y., Mayfield, M.M., Morandin, L., Neame, L.A., Otieno, M., Park, M., Potts, S.G., Rundlof, M., Saez, A., Steffan-Dewenter, I., Taki, H., Viana, B.F., **Westphal, C.**, Wilson, J.K., Greenleaf, S.S. & Kremen, C. (2013). A global quantitative synthesis of local and landscape effects on wild bee pollinators in agroecosystems. *Ecology Letters*, 16, 584-599.
- (16) Klatt, B.K., Burmeister, C., **Westphal, C.**, Tschardtke, T. & von Fragstein, M. (2013). Flower volatiles, crop varieties and bee responses. *PLoS One*, 8.

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D., Kremen, C., Landis, D.A., Lurance, W., Lindenmayer, D., Scherber, C., Sodhi, N., Steffan-Dewenter, I., Thies, C., van der Putten, W.H. & **Westphal, C.** (2012). Landscape moderation of biodiversity patterns and processes - eight hypotheses. *Biological Reviews*, 87, 661-685.

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- (13) Moora, M., Berger, S., Davison, J., Öpik, M., Bommarco, R., Bruehlheide, H., Kühn, I., Kunin, W.E., Metsis, M., Rortais, A., Vanatoa, A., Vanatoa, E., Stout, J.C., Truusa, M., **Westphal, C.**, Zobel, M. & Walther, G.-R. (2011). Alien plants associate with widespread generalist arbuscular mycorrhizal fungal taxa: evidence from a continental-scale study using massively parallel 454 sequencing. *Journal of Biogeography*, 38, 1305-1317.
- (12) Nielsen, A., Steffan-Dewenter, I., **Westphal, C.**, Messinger, O., Potts, S., Roberts, S., Settele, J., Szentgyörgyi, H., Vaissière, B., Vaitis, M., Woyciechowski, M., Bazos, I., Biesmeijer, J., Bommarco, R., Kunin, W., Tscheulin, T., Lamborn, E. & Petanidou, T. (2011). Assessing bee species richness in two Mediterranean communities: importance of habitat type and sampling techniques. *Ecological Research*, 26, 969-983.

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- (9) Carre, G., Roche, P., Chifflet, R., Morison, N., Bommarco, R., Harrison-Cripps, J., Krewenka, K., Potts, S.G., Roberts, S.P.M., Rodet, G., Settele, J., Steffan-Dewenter, I., Szentgyörgyi, H., Tscheulin, T., **Westphal, C.**, Woyciechowski, M. & Vaissière, B.E. (2009). Landscape context and habitat type as drivers of bee diversity in European annual crops. *Agriculture Ecosystems & Environment*, 133, 40-47.
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- (4) Herrmann, F., **Westphal, C.**, Moritz, R.F.A. & Steffan-Dewenter, I. (2007). Genetic diversity and mass resources promote colony size and forager densities of a social bee (*Bombus pascuorum*) in agricultural landscapes. *Molecular Ecology*, 16, 1167-1178.

- (3) **Westphal, C.**, Steffan-Dewenter, I. & Tschardtke, T. (2006). Foraging trip duration of bumblebees in relation to landscape-wide resource availability. *Ecological Entomology*, 31, 389-394.
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Research Gate

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Book chapters and other publications

- Boch, S., Allan, E., Birkhofer, K., Bossdorf, O., Blüthgen, N., Christ-Breulmann, S., Diekötter, T., Dormann, C.F., Gossner, M.M., Hallmann, C., Hemp, A., Hölzel, N., Jung, K., Klaus, V.H., Klein, A.M., Kleinebecker, T., Lange, M., Müller, J., Nacke, H., Prati, D., Renner, S.C., Rothenwöhrer, C., Schall, P., Schulze, E.-D., Socher, S.A., Tschardtke, T., Türke, M., Weiner, C.N., Weisser, W.W., **Westphal, C.**, Wolters, V., Wubet, T. & Fischer, M. (2016). Extensive und jährlich wechselnde Nutzungsintensität fördert den Artenreichtum im Grünland. *ANLiegen Natur*, 38, online, www.anl.bayern.de/publikationen.
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