

2020-2022

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Schlatter, D.C., Hansen, J., Carlson, B., Leslie, I.N., Huggins, D.R., Paulitz, T.C. 2022. [Are microbial communities indicators of soil health in a dryland wheat cropping system?](https://doi.org/10.1016/j.apsoil.2021.104302) Applied Soil Ecology. 170. Article 104302. <https://doi.org/10.1016/j.apsoil.2021.104302>.

Castle, S.C., Samac, D.A., Gutknecht, J.L., Sadowsky, M.J., Rosen, C.J., Schlatter, D., Kinkel, L.L. 2021. [Impacts of cover crops and nitrogen fertilization on agricultural soil fungal and bacterial communities.](https://doi.org/10.1007/s11104-021-04976-z) Plant and Soil. 466:139-150. <https://doi.org/10.1007/s11104-021-04976-z>.

Yin, C., Schlatter, D.C., Kroese, D.R., Paulitz, T.C., Haggerty, C.H. 2021. Impacts of lime application on soil bacterial microbiome in dryland wheat soil in the Pacific Northwest. Applied Soil Ecology. 168. Article 104113. <https://doi.org/10.1016/j.apsoil.2021.104113>.

Yin, C., Schlatter, D.C., Kroese, D.R., Paulitz, T.C., Haggerty, C.H. 2021. [Responses of soil fungal communities to lime application in wheat fields in the Pacific Northwest.](https://doi.org/10.3389/fmicb.2021.576763) Frontiers in Microbiology. 12. Article 576763. <https://doi.org/10.3389/fmicb.2021.576763>.

Wang, X., Schlatter, D.C., Glawe, D.A., Edwards, C.G., Weller, D.M., Paulitz, T.C., Abatzoglou, J.T., Okubara, P.A. 2021. Native yeast and non-yeast fungal communities of Cabernet Sauvignon berries from two Washington State vineyards, and persistence in spontaneous fermentation. International Journal of Food Microbiology. 350. Article 104113. <https://doi.org/10.1016/j.ijfoodmicro.2021.109225>.

Yin, C., Vargas, J.M., Schlatter, D.C., Haggerty, C., Hulbert, S., Paulitz, T.C. 2021. [Wheat rhizosphere community selection reveals bacteria associated with reduced root disease.](https://doi.org/10.1186/s40168-020-00997-5) Microbiome. 9. Article 86. <https://doi.org/10.1186/s40168-020-00997-5>.

Castell-Miller, C.V., Schlatter, D., Samac, D.A. 2021. [Efficiency and profitability of fungicides in controlling Bipolaris diseases and enhancing grain yield in cultivated wild rice \(Zizania palustris\).](https://doi.org/10.1016/j.cropro.2020.105455) Crop Protection. 141. Article 105455. <https://doi.org/10.1016/j.cropro.2020.105455>.

Schlatter, D.C., Kahl, K., Carlson, B., Huggins, D.R., Paulitz, T. 2020. [Soil acidification modifies soil depth-microbiome relationships in a no-till wheat cropping system.](https://doi.org/10.1016/j.soilbio.2020.107939) Soil Biology and Biochemistry. 149. Article 107939. <https://doi.org/10.1016/j.soilbio.2020.107939>.

Schlatter, D.C., Yin, C., Hulbert, S., Paulitz, T. 2020. [Core rhizosphere microbiomes of dryland wheat are influenced by location and land-use history.](https://doi.org/10.1128/AEM.02135-19) Applied and Environmental Microbiology. 86(5). Article e02135-19. <https://doi.org/10.1128/AEM.02135-19>.

Essarioui, A., LeBlanc, N., Otto-Hanson, L., Schlatter, D.C., Kistler, H.C., Kinkel, L.L. 2020. [Inhibitory and nutrient use phenotypes among co-existing Fusarium and Streptomyces populations suggests local coevolutionary interactions in soil.](https://doi.org/10.1111/1462-2920.14782) Environmental Microbiology. 22(3):976-985. <https://doi.org/10.1111/1462-2920.14782>.

2015-2019

---

Schlatter, D.C., Baugher, C., Kahl, K., Johnson-Maynard, J., Paulitz, T. 2019. [Bacterial communities of soil and earthworm casts of native Palouse Prairie remnants and no-till wheat cropping systems.](https://doi.org/10.1016/j.soilbio.2019.107625) Soil Biology and Biochemistry. 139. Article 107625. <https://doi.org/10.1016/j.soilbio.2019.107625>.

- Schlatter, D.C., Vaz-Jauri, P., Song, Z., Kinkel, L.L. 2019. Inhibitory interaction networks among coevolved *Streptomyces* populations from prairie soils. PLoS One. <https://doi.org/10.1371/journal.pone.0223779>.
- Freed, G., Schlatter, DC., Paulitz, T., Dugan, F. 2019. Mycological insights into wetland fungal communities: The mycobiome of Camassia in the Pacific Northwest. Phytobiomes Journal. 3:286-299. <https://doi.org/10.1094/PBIOMES-04-19-0022-R>.
- Schlatter, DC., Narayan, P., Shah, D., Schillinger, WF., Bary, Al., Sharratt, B., Paulitz, TC. 2019. [Biosolids and tillage practices influence bacterial communities in dryland wheat](https://doi.org/10.1007/s00248-019-01339-1). Microbial Ecology. 78(3):737-752. <https://doi.org/10.1007/s00248-019-01339-1>.
- Schlatter, DC., Hansen, J., Schillinger, W., Sullivan, T., Paulitz, T. 2019. [Common and unique microbial rhizosphere communities in wheat and canola in semiarid Mediterranean environments](https://doi.org/10.1016/j.apsoil.2019.07.010). Applied Soil Ecology. 144:170-181. <https://doi.org/10.1016/j.apsoil.2019.07.010>.
- Schlatter, DC., Reardon, CL., Johnson-Maynard, J., Brooks, E., Kahl, K., Norby, J., Huggins, DR., Paulitz, TC. 2019. [Mining the drilosphere: Bacterial communities and denitrifier abundance in a no-till wheat cropping system](https://doi.org/10.3389/fmicb.2019.01339). Frontiers in Microbiology. 10. Article 1339. <https://doi.org/10.3389/fmicb.2019.01339>.
- Knerr, A.J., Wheeler, D., Schlatter, D., Sharma-Poudyal, D., du Toit, L., Paulitz, T.C. 2018. [Arbuscular mycorrhizal fungal communities in organic and conventional onion crops in the Columbia Basin of the Pacific Northwest United States](https://doi.org/10.1094/PBIOMES-05-18-0022-R). Phytobiomes Journal. 2:194-207. <https://doi.org/10.1094/PBIOMES-05-18-0022-R>.
- Song, Z., Schlatter, D., Gohl, D., Kinkel, L. 2018. Run-to-run sequencing variation can introduce taxon-specific bias in the evaluation of fungal microbiomes. Phytobiomes Journal. 2(3):165-170. <https://doi.org/10.1094/PBIOMES-09-17-0041-R>.
- Schroeder, K., Schlatter, D.C., Paulitz, T.C. 2018. [Location-dependent impacts of liming and crop rotation on bacterial communities in acid soils of the Pacific Northwest](https://doi.org/10.1016/j.apsoil.2018.05.019). Applied Soil Ecology. 130:59-68. <https://doi.org/10.1016/j.apsoil.2018.05.019>.
- Schlatter, D.C., Kahl, K., Carlson, B., Huggins, D., Paulitz, T.C. 2018. [Fungal community composition and diversity vary with soil depths and landscape position in a no-till wheat cropping system](https://doi.org/10.1093/femsec/fiy098). FEMS Microbiology Ecology. 94(7):1-15. <https://doi.org/10.1093/femsec/fiy098>.
- Schlatter D.C., Yin, C., Burke, I., Hulbert, S., Paulitz, T.C. 2018. [Location, root proximity, and glyphosate-use history modulate the effects of glyphosate on fungal community networks of wheat](https://doi.org/10.1007/s00248-017-1113-9). Microbial Ecology. 76:240-257. <https://doi.org/10.1007/s00248-017-1113-9>.
- Schlatter, D.C., Burke, I., Paulitz, T.C. 2018. [Succession of fungal and oomycete communities in glyphosate-killed roots](https://doi.org/10.1094/PHYTO-06-17-0212-R). Phytopathology. 108:582-594. <https://doi.org/10.1094/PHYTO-06-17-0212-R>.
- Schlatter, D.C., Schillinger, W.F., Bary, A.I., Sharratt, B., Paulitz, T.C. 2018. [Dust-associated microbiomes from Pacific Northwest dryland wheat fields vary with tillage practices and biosolid applications](https://doi.org/10.1016/j.atmosenv.2018.04.030). Atmospheric Environment. 185:29-40. <https://doi.org/10.1016/j.atmosenv.2018.04.030>.
- Schlatter, D.C., Schillinger, W.F., Bary, A.I., Sharratt, B., Paulitz, T.C. 2017. [Biosolids and conservation tillage: Impacts on soil fungal communities in dryland wheat-fallow cropping systems](https://doi.org/10.1016/j.soilbio.2017.09.021). Soil Biology and Biochemistry. 115:556-567. <https://doi.org/10.1016/j.soilbio.2017.09.021>.

Schlatter, D.C., Yin, C., Hulbert, S., Burke, I., Paulitz, T. 2017. [Impacts of repeated glyphosate use on wheat-associated bacteria are small and depend on glyphosate use history](https://doi.org/10.1128/AEM.01354-17). Applied and Environmental Microbiology. 83(22). Article e01354-17. <https://doi.org/10.1128/AEM.01354-17>.

Paulitz, T.C., Schlatter, D.C., Kinkel, L., Thomashow, L.S., Weller, D.M. 2017. [Disease suppressive soils: New insights from the soil microbiome](https://doi.org/10.1094/PHYTO-03-17-0111-RVW). Phytopathology. 107(11):1284-1297. <https://doi.org/10.1094/PHYTO-03-17-0111-RVW>.

Sharma-Poudyal, D., Schlatter, D.C., Yin, C., Hulbert, S., Paulitz, T.C. 2017. [Long-term no-Till: A major driver of fungal communities in dryland wheat cropping systems](https://doi.org/10.1371/journal.pone.0184611). PLoS One. <https://doi.org/10.1371/journal.pone.0184611>.

Yin, C., Meuth, N., Hulbert, S., Schlatter, D., Paulitz, T., Schroeder, K., Prescott, A., Dingra, A. 2017. Bacterial communities on wheat grown under long-term conventional tillage and no-till in the Pacific Northwest of the United States. Phytobiomes. 1:83-90. <https://doi.org/10.1094/PBIOMES-09-16-0008-R>.

Paulitz, T.C., Knerr, A.J., Carmody, S.M., Schlatter, D.C., Sowers, K., Derie, M.L., Du Toit, L.J. 2017. [First report of \*Leptosphaeria maculans\* and \*Leptosphaeria biglobosa\*, causal agents of blackleg, on canola in Washington State](https://doi.org/10.1094/PDIS-08-16-1108-PDN). Plant Disease. 101:504-505. <https://doi.org/10.1094/PDIS-08-16-1108-PDN>.

Poudel, R., Jumpponen, A., Schlatter, D., Paulitz, T., McSpadden Gardener, B., Kinkel, L.L., Garrett, K.A. 2016. [Microbiome networks: A systems framework for identifying candidate microbial assemblages for disease management](https://doi.org/10.1094/PHYTO-02-16-0058-FI). Phytopathology. 106:1083-1096. <https://doi.org/10.1094/PHYTO-02-16-0058-FI>.

Smanski, M., Schlatter, D.C., Kinkel, L.L. 2016. Leveraging ecological theory to guide natural product discovery. Journal of Industrial Microbiology and Biotechnology. 43:115-128. <https://doi.org/10.1007/s10295-015-1683-9>.

Schlatter, D.C., Kinkel, L.L. 2015. Do tradeoffs structure antibiotic inhibition, resistance, and nutrient use among soil-borne *Streptomyces*? BMC Evolutionary Biology. 15. Article 186. <https://doi.org/10.1186/s12862-015-0470-6>.

Arenz, B.E., Schlatter, D.C., Bradeen, J.M., Kinkel, L.L. 2015. Blocking primers reduce co-amplification of plant DNA when studying bacterial endophyte communities. Journal of Microbiological Methods. 117:1-3. <https://doi.org/10.1016/j.mimet.2015.07.003>.

Song, Z., Schlatter, D.C., Kennedy, P., Kinkel, L., Kistler, H.C., Nguyen N., Bates, S.T. 2015. Effort versus reward: a comparison of protocol for fungal community characterization in high-throughput sequencing surveys of soils. PLoS One. <https://doi.org/10.1371/journal.pone.0127234>.

Schlatter, D.C., Bakker, M.G., Bradeen, J.M., Kinkel, L.L. 2015. Plant community richness and microbial interactions structure bacterial communities in soil. Ecology. 96:134-142. <https://doi.org/10.1890/13-1648.1>.

2009-2014

---

Schlatter D.C., Kinkel, L.L. 2014. Global biogeography of antibiotic inhibition, resistance, and resource use among *Streptomyces* in soil. FEMS Microbiology Ecology. 88(2):386-397. <https://doi.org/10.1111/1574-6941.12307>.

- Kinkel, L.L., Schlatter, D.C., Xiao, K., Baines, A.D. 2014. Sympatric inhibition and niche differentiation suggest alternative coevolutionary trajectories among *Streptomyces*. *The ISME Journal*. 8:249-256. <https://doi.org/10.1038/ismej.2013.175>.
- Bakker, M.G., Schlatter, D.C., Otto-Hanson, L., Kinkel, L.L. 2014. Diffuse symbioses: Roles of plant-plant, plant-microbe, and microbe-microbe interactions in structuring the soil microbiome. *Molecular Ecology*. 23(6):1571-1583. <https://doi.org/10.1111/mec.12571>.
- Schlatter, D.C., DavelosBaines, A.L., Xiao, K., Kinkel, L.L. 2013. Resource use among soil-borne *Streptomyces* varies with location, phylogeny, and nitrogen amendment. *Microbial Ecology*. 66:961-971. <https://doi.org/10.1007/s00248-013-0280-6>.
- Kinkel, L.L., Schlatter, D.C., Bakker, M.G., Arenz, B.E. 2012. *Streptomyces* competition and coevolution in relation to plant disease suppression. *Research in Microbiology*. 163(8):490-499. <https://doi.org/10.1016/j.resmic.2012.07.005>.
- Kinkel, L.L., Bakker, M.G., Schlatter, D.C. 2011. A coevolutionary framework for managing disease suppressive soils. *Annual Review of Phytopathology*. 49:47-67. <https://doi.org/10.1146/annurev-phyto-072910-095232>.
- Schlatter, D.C., Samac, D.A., Tesfaye, M., Kinkel, L.L. 2010. Rapid and specific method for evaluating *Streptomyces* community dynamics in complex soil communities. *Applied and Environmental Microbiology*. 76:2009-2012. <https://doi.org/10.1128/AEM.02320-09>.
- Schlatter, D., Fubuh, A., Xiao, K., Hernandez, D., Hobbie, S., Kinkel, L. 2009. Resource amendments influence density and competitive phenotypes of *Streptomyces* in soil. *Microbial Ecology*. 57(3):413-420. <https://doi.org/10.1007/s00248-008-9433-4>.