

**NAME:**

Britt Koskella

INSTITUTION / FUNCTION:

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Short Professional Biography:

Current Position: Associate Professor of Microbial Ecology and Evolution

Current of Previous Postdoc(s):

Independent Research Fellow at University of Exeter, UK

Postdoctoral fellow at the University of Oxford, UK

Postdoctoral fellow at the University of California, Santa Cruz, USA

Studies:

PhD. in Ecology and Evolution at Indiana University, USA

Research interests

My lab works primarily on how plant-microbiome, plant-pathogen, and bacteria-phage interactions occur, both as model systems for understanding fundamental ecological and evolutionary principles and with the aim of leveraging these findings for the design of novel disease management strategies. We integrate existing theory with cutting-edge microbiological and molecular approaches to gain insight to microbiome establishment and function, within-microbiome interactions, and the role that microbiota and phages play in shaping disease.

Relevant Publications:

Mehlferber, E. C., McCue, K. F., Debray, R., Kaulbach, G., Ferrel, J. E., Khanna, R., & Koskella, B. (2022). Early phyllosphere microbial associations impact plant reproductive success. *bioRxiv*, 2022-06.

Debray, R., Conover, A., Zhang, X., Dewald-Wang, E. A., & Koskella, B. (2022). Within-host adaptation alters priority effects within the phyllosphere microbiome. *bioRxiv*, 2022-08.

Debray, R., Socolar, Y., Kaulbach, G., Guzman, A., Hernandez, C. A., Curley, R., ... & Koskella, B. (2022). Water stress and disruption of mycorrhizas induce parallel shifts in phyllosphere microbiome composition. *New Phytologist*, 234(6), 2018-2031.

Meyer, K. M., Poch, R., Muscettola, I. E., Vasconcelos, A. L. S., Sherman, J. K., Metcalf, C. J. E., ... & Koskella, B. (2022). Plant neighborhood shapes diversity and reduces interspecific variation of the phyllosphere microbiome. *The ISME journal*, *16*(5), 1376-1387.

Smets, W., Chock Jr, M. K., Walsh, C. M., Vanderburgh, C. Q., Kau, E., Lindow, S. E., ... & Koskella, B. (2022). Leaf side determines the relative importance of dispersal versus host filtering in the phyllosphere microbiome. *bioRxiv*, 2022-08.