

Find below an overview about my peer-reviewed articles, book chapters, GitHub repositories, elsewhere published code, published data, post- and preprints, and other publications.

Articles

1. Kalinkat, G., Rall, B.C., Uiterwaal, S., and Uszko, W. (2023). Empirical evidence of type III functional responses and why it remains rare. *Front Ecol Evol* 11, 1033818. <https://doi.org/10.3389/fevo.2023.1033818>.
2. Sohlström, E.H., Brose, U., Klink, R. van, Rall, B.C., Rosenbaum, B., Schädler, M., and Barnes, A.D. (2022). Future climate and land-use intensification modify arthropod community structure. *Agric. Ecosyst. Environ.* 327, 107830. <https://doi.org/10.1016/j.agee.2021.107830>.
3. Nickisch (born Gericke), D., Rall, B.C., Singer, A., and Ashauer, R. (2022). Fish species sensitivity ranking depends on pesticide exposure profiles. *Environ Toxicol Chem* 41, 1732–1741. <https://doi.org/10.1002/etc.5348>.
4. Voigt, E., Rall, B.C., Chatzinotas, A., Brose, U., and Rosenbaum, B. (2021). Phage strategies facilitate bacterial coexistence under environmental variability. *PeerJ* 9, e12194. <https://doi.org/10.7717/peerj.12194>.
5. Sohlström, E.H., Archer, L.C., Gallo, B., Jochum, M., Kordas, R.L., Rall, B.C., Rosenbaum, B., and O’Gorman, E.J. (2021). Thermal acclimation increases the stability of a predator–prey interaction in warmer environments. *Global Change Biology* 27, 3765–3778. <https://doi.org/10.1111/gcb.15715>.
6. Gauzens, B., Rall, B.C., Mendonça, V., Vinagre, C., and Brose, U. (2020). Biodiversity of intertidal food webs in response to warming across latitudes. *Nat. Clim. Change* 10, 264–269. <https://doi.org/10.1038/s41558-020-0698-z>.
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8. Brose, U., Archambault, P., Barnes, A.D., Bersier, L.-F., Boy, T., Canning-Clode, J., Conti, E., Dias, M., Digel, C., Dissanayake, A., et al. (2019). Predator traits determine food-web architecture across ecosystems. *Nat. Ecol. Evol.* 3, 919–927. <https://doi.org/10.1038/s41559-019-0899-x>.
9. Archer, L.C., Sohlström, E.H., Gallo, B., Jochum, M., Woodward, G., Kordas, R.L., Rall, B.C., and O’Gorman, E.J. (2019). Consistent temperature dependence of functional response parameters and their use in predicting population abundance. *J. Anim. Ecol.* 88, 1670–1683. <https://doi.org/10.1111/1365-2656.13060>.
10. Marx, J.M., Rall, B.C., Phillips, H.R.P., and Brose, U. (2019). Opening the black box of plant nutrient uptake under warming predicts global patterns in community biomass and biological carbon storage. *Oikos* 128, 1503–1514. <https://doi.org/10.1111/oik.06141>.
11. Pennekamp, F., Iles, A.C., Garland, J., Brennan, G., Brose, U., Gaedke, U., Jacob, U., Kratina, P., Matthews, B., Munch, S., et al. (2019). The intrinsic predictability of ecological time series and its potential to guide forecasting. *Ecological Monographs* 89, e01359. <https://doi.org/10.1002/ecm.1359>.
12. Sohlström, E.H., Marian, L., Barnes, A.D., Haneda, N.F., Scheu, S., Rall, B.C., Brose, U., and Jochum, M. (2018). Applying generalized allometric regressions to predict live body mass of tropical and temperate arthropods. *Ecol Evol* 8, 12737–12749. <https://doi.org/10.1002/ece3.4702>.

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17. O’Gorman, E.J., Zhao, L., Pichler, D.E., Adams, G., Friberg, N., Rall, B.C., Seeney, A., Zhang, H., Reuman, D.C., and Woodward, G. (2017). Unexpected changes in community size structure in a natural warming experiment. *Nature Clim Change* 7, 659–663. <https://doi.org/10.1038/nclimate3368>.
18. Hirt, M.R., Jetz, W., Rall, B.C., and Brose, U. (2017). A general scaling law reveals why the largest animals are not the fastest. *Nat Ecol Evol* 1, 1116–1122. <https://doi.org/10.1038/s41559-017-0241-4>.
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26. Allhoff, K.T., Ritterskamp, D., Rall, B.C., Drossel, B., and Guill, C. (2015). Evolutionary food web model based on body masses gives realistic networks with permanent species turnover. *Sci Rep* 5, 10955. <https://doi.org/10.1038/srep10955>.
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55. Brose, U., Jonsson, T., Berlow, E.L., Warren, P., Banasek-Richter, C., Bersier, L.-F., Blanchard, J.L., Brey, T., Carpenter, S.R., Blandenier, M.-F.C., et al. (2006). Consumer–resource body-size relationships in natural food webs. *Ecology* 87, 2411–2417. [https://doi.org/10.1890/0012-9658\(2006\)87%5B2411:CBRINF%5D2.0.CO;2](https://doi.org/10.1890/0012-9658(2006)87%5B2411:CBRINF%5D2.0.CO;2).

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Book Chapters

1. Kalinkat, G., and Rall, B.C. (2015). Effects of climate change on the interactions between insect pests and their natural enemies. In *Climate Change and Insect Pests* (CABI), pp. 74–91. <https://doi.org/10.1079/9781780643786.0074>.

GitHub repositories

1. Rall, B.C. (2024). [My CV](#).
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Code published elsewhere

1. Rall, B.C. (2023). [Rare Type III functional responses \(Code\): Version 1.0.0](#).
2. Nickisch (born Gericke), D., Rall, B.C., Singer, A., and Ashauer, R. (2022). [Code from: “Fish species sensitivity ranking depends on pesticide exposure profiles \(openGuts Standalone Version\)”](#).
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7. Rall, B.C., and Latz, E. (2016). [Analyzing pathogen suppressiveness in bioassays with natural soils using integrative maximum likelihood methods in R: Main Sources](#).
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Data published

1. Kalinkat, G., Rall, B.C., Uiterwaal, S., and Uszko, W. (2023). [Rare type III responses: data & data methods \(v1.0.0\)](#). <https://doi.org/10.5281/zenodo.7620216>.
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4. Archer, L.C., Sohlström, E.H., Gallo, B., Jochum, M., Woodward, G., Kordas, R.L., Rall, B.C., and O’Gorman, E.J. (2020). Data from: Consistent temperature dependence of functional response parameters and their use in predicting population abundance. <https://doi.org/10.5061/DRYAD.TR4V447>.
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11. Lang, B., Ehnes, R.B., Brose, U., and Rall, B.C. (2017). Data from: Temperature and consumer type dependencies of energy flows in natural communities. <https://doi.org/10.5061/dryad.58m3g>.
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16. Ott, D., Digel, C., Rall, B.C., Maraun, M., Scheu, S., and Brose, U. (2014). [Supplementary Tables 1 & 2 from: “Unifying elemental stoichiometry and metabolic theory in predicting species abundances”](#).
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Post- and Preprints

1. Ryser, R., Häussler, J., Stark, M., Brose, U., Rall, B.C., and Guill, C. (2019). The biggest losers: Habitat isolation deconstructs complex food webs from top to bottom. <https://doi.org/10.1101/439190>.

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3. Sohlstroem, E.H., Marian, L., Barnes, A.D., Haneda, N.F., Scheu, S., Rall, B.C., Brose, U., and Jochum, M. (2018). Applying generalised allometric regressions to predict live body mass of tropical and temperate arthropods. <https://doi.org/10.1101/297697>.
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9. Li, Y., Brose, U., Meyer, K., and Rall, B.C. (2016). How patch size and refuge availability change interaction strength and population dynamics: a combined individual- and population-based modeling experiment. <https://doi.org/10.7287/peerj.preprints.2190>.
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12. Curtsdotter, A., Binzer, A., Brose, U., Castro, F. de, Ebenman, B., Eklöf, A., Riede, J.O., Thierry, A., and Rall, B.C. (2011). **Robustness to secondary extinctions: Comparing trait-based sequential deletions in static and dynamic food webs.**

Theses, Manuals, Method Descriptions, and other Reports _____

1. Rall, B.C., Kalinkat, G., Uiterwaal, S., and Uszko, W. (2023). Rare type III responses: methods for code and simulation models (v1.0.0). Zenodo. <https://doi.org/10.5281/zenodo.7619822>.
2. Rosenbaum, B., and Rall, B.C. (2018). **Manual: Fitting functional responses: Direct parameter estimation by simulating differential equations.**
3. Rosenbaum, B., and Rall, B.C. (2018). **Supplement: Fitting functional responses: Direct parameter estimation by simulating differential equations.**
4. Rall, B.C., and Latz, E. (2016). Manual: Analyzing pathogen suppressiveness in bioassays with natural soils using integrative maximum likelihood methods in R. <https://doi.org/10.7717/peerj.2615/supp-2>.
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