## Supplemental Materials

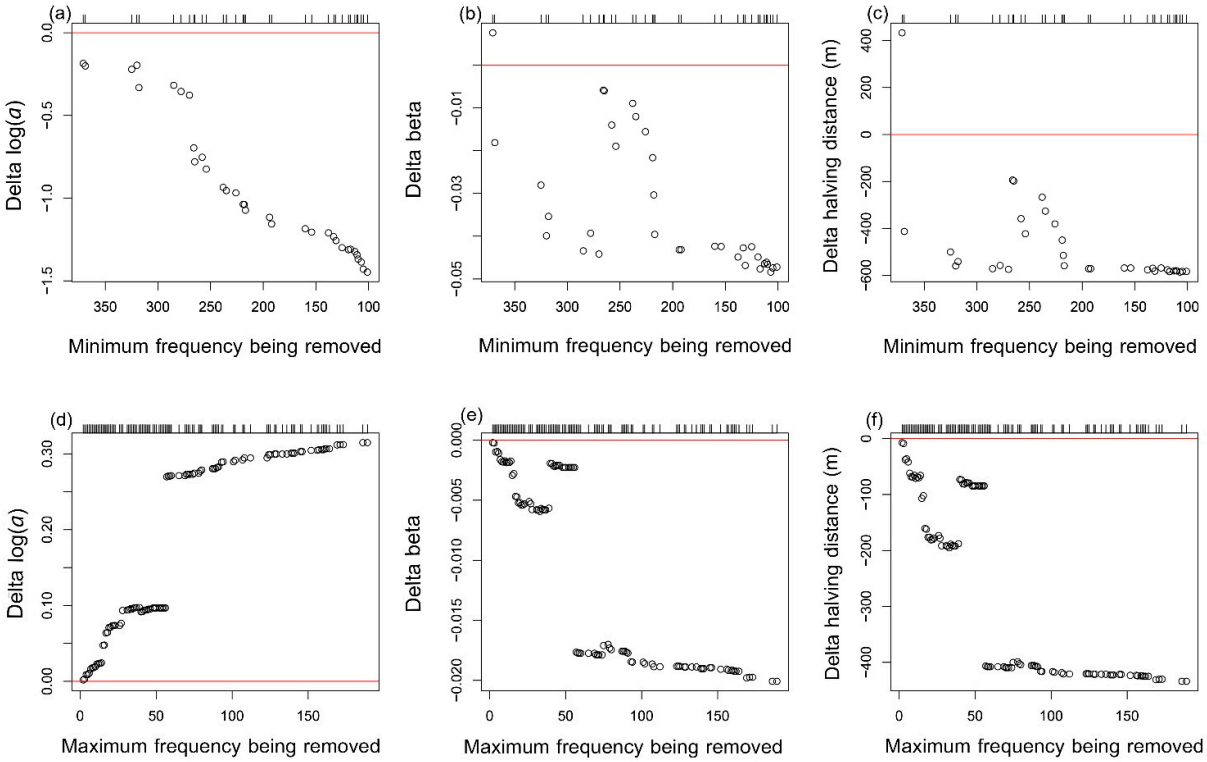



Figure S1. Effect of removal of specialists (top) and generalists (bottom) on initial similarity (a, d), slope (b, e) and halving distance (c, f) of distance-decay of similarity in soil undefined saprotrophs.

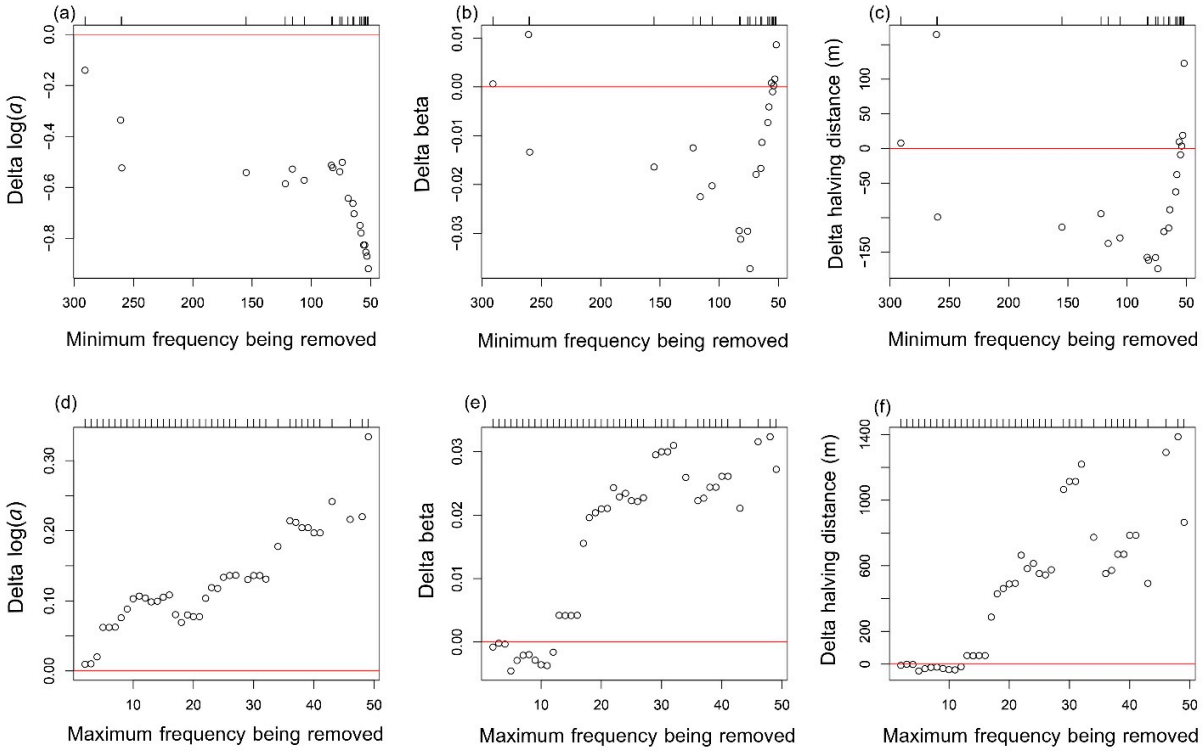



Figure S2. Effect of removal of specialists (top) and generalists (bottom) on initial similarity (a, d), slope (b, e) and halving distance (c, f) of distance-decay of similarity in plant mutualists.

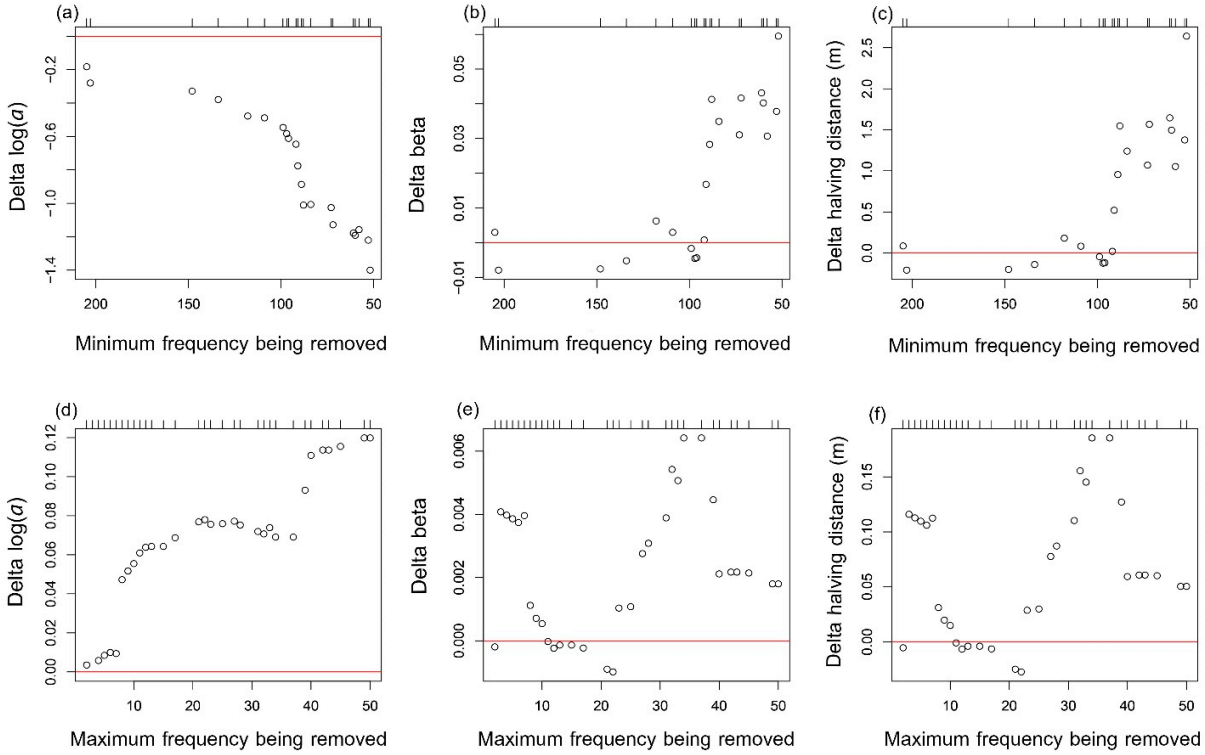



Figure S3. Effect of removal of specialists (top) and generalists (bottom) on initial similarity (a, d), slope (b, e) and halving distance (c, f) of distance-decay of similarity in pathogen.