Apigo and Oono (2018) Dimensions of Host Specificity in Foliar Fungal Endophytes

Appendix E1. P-values for Figure 2 with presence-absence data using a two-sample Wilcoxon Rank Sum test.

Structural Specificity: Host Richness

Percent Removed	Phylum	N (OTUs)	Mean	Standard Error	W statistic	p-value
0	Ascomycota	1087	-4.129	0.202	147200	0.004
	Basidiomycota	301	-2.618	0.182		
1	Ascomycota	458	-7.611	0.424	24332	0.001
	Basidiomycota	132	-4.220	0.363		
5	Ascomycota	208	-11.279	0.750	4204.5	0.022
	Basidiomycota	51	-6.588	0.755		
10	Ascomycota	135	-12.711	0.975	1210.5	0.282
	Basidiomycota	21	-8.810	1.519		
15	Ascomycota	97	-14.629	1.188	398	0.351
	Basidiomycota	10	-10.200	2.533		
20	Ascomycota	71	-16.155	1.401	198.5	0.381
	Basidiomycota	7	-10.857	2.668		

Network Specificity: Resource Range Index

Percent Removed	Phylum	N (OTUs)	Mean	Standard Error	W statistic	p-value
0	Ascomycota	1087	0.913	0.006	147200	0.004
	Basidiomycota	301	0.955	0.088		
1	Ascomycota	458	0.816	0.012	24332	0.001
	Basidiomycota	132	0.911	0.116		
5	Ascomycota	208	0.714	0.021	4204.5	0.022
	Basidiomycota	51	0.845	0.150		
10	Ascomycota	135	0.675	0.027	1210.5	0.282
	Basidiomycota	21	0.783	0.193		
15	Ascomycota	97	0.621	0.033	398	0.351
	Basidiomycota	10	0.744	0.223		
20	Ascomycota	71	0.579	0.039	198.5	0.381
	Basidiomycota	7	0.726	0.196		

Phylogenetic Specificity: Presence-absence Mean Pairwise Phylogenetic Distance

Percent Removed	Phylum	N (OTUs)	Mean	Standard Error	W statistic	p-value
0	Ascomycota	1053	-0.477	0.018	141920	0.057
	Basidiomycota	289	-0.405	0.565		
1	Ascomycota	456	-0.742	0.024	28242	0.669
	Basidiomycota	127	-0.715	0.605		
5	Ascomycota	206	-0.863	0.031	4777.5	0.161
	Basidiomycota	53	-0.781	0.511		
10	Ascomycota	134	-0.889	0.037	1166	0.349
	Basidiomycota	20	-0.795	0.478		
15	Ascomycota	96	-0.871	0.040	488.5	0.927
	Basidiomycota	10	-0.958	0.462		
20	Ascomycota	71	-0.897	0.039	176.5	0.208
	Basidiomycota	7	-0.765	0.354		

Appendix E2. P-values for Figure 3 with abundance-weighted data using a two-sample Wilcoxon Rank Sum test.

Structural Specificity: Shannon's *H*

Percent Removed	Phylum	N (OTUs)	Mean	Standard Error	W statistic	p-value
0	Ascomycota	1087	-0.540	0.024	148610	0.009
	Basidiomycota	301	-0.388	0.561		
1	Ascomycota	458	-0.942	0.044	25560	0.006
	Basidiomycota	132	-0.659	0.654		
5	Ascomycota	208	-1.194	0.071	4590	0.136
	Basidiomycota	51	-0.914	0.754		
10	Ascomycota	135	-1.261	0.091	1267.5	0.436
	Basidiomycota	21	-1.041	0.872		
15	Ascomycota	97	-1.382	0.111	395.5	0.338
	Basidiomycota	10	-1.013	0.931		
20	Ascomycota	71	-1.450	0.131	211	0.512
	Basidiomycota	7	-1.094	0.783		

Network Specificity: Paired Difference Index

Percent Removed	Phylum	N (OTUs)	Mean	Standard Error	W statistic	p-value
0	Ascomycota	1087	0.981	0.001	147960	0.006
	Basidiomycota	301	0.991	0.016		
1	Ascomycota	458	0.965	0.003	25562	0.007
	Basidiomycota	132	0.985	0.020		
5	Ascomycota	208	0.951	0.006	4506	0.096
	Basidiomycota	51	0.979	0.023		
10	Ascomycota	135	0.943	0.008	1251.5	0.389
	Basidiomycota	21	0.974	0.028		
15	Ascomycota	97	0.934	0.011	372.5	0.229
	Basidiomycota	10	0.979	0.025		
20	Ascomycota	71	0.926	0.013	202	0.416
	Basidiomycota	7	0.979	0.023		

Phylogenetic Specificity: Abundance-weighted Mean Pairwise Phylogenetic Distance

Percent Removed	Phylum	N (OTUs)	Mean	Standard Error	W statistic	p-value
0	Ascomycota	1053	-0.242	0.010	139870	0.023
	Basidiomycota	289	-0.189	0.300		
1	Ascomycota	456	-0.387	0.017	26289	0.110
	Basidiomycota	127	-0.336	0.346		
5	Ascomycota	206	-0.465	0.026	4864.5	0.221
	Basidiomycota	53	-0.394	0.357		
10	Ascomycota	134	-0.473	0.033	1126	0.250
	Basidiomycota	20	-0.379	0.333		
15	Ascomycota	96	-0.512	0.039	340.5	0.132
	Basidiomycota	10	-0.315	0.301		
20	Ascomycota	71	-0.528	0.044	162.5	0.133
	Basidiomycota	7	-0.306	0.312		