

a) Phenotypic distance model

Model term	Estimate (β)	Lower CI	Upper CI	Posterior Distribution
Fixed effects				-1.0 -0.5 0.0 0.5 1.0
Intercept	0.32	-0.18	1.00	
Kingdom effect	0.21	-0.75	0.94	
System effect <small>Mainland</small>	-0.19	-0.37	-0.01	
Geographic Distance	-0.02	-0.10	0.07	
Environmental Distance	0.03	-0.07	0.13	
Geographic distance: System effect	0.07	-0.02	0.16	
Environmental distance: System effect	-0.05	-0.17	0.07	
Random Effects				
Phylogeny	0.01	0.00	0.32	
Study	0.05	0.01	0.11	
Species	0.01	0.01	0.04	
Response Type	0.03	0.00	0.14	
Units	0.09	0.07	0.09	

b) Genetic diversity distance model

Model term	Estimate (β)	Lower CI	Upper CI	Posterior Distribution
Fixed effects				-1.0 -0.5 0.0 0.5 1.0
Intercept	0.37	-0.07	1.00	
Kingdom effect	-0.05	-0.55	0.52	
System effect <small>Mainland</small>	-0.01	-0.19	0.18	
Geographic Distance	0.07	-0.01	0.14	
Environmental Distance	-0.02	-0.11	0.07	
Geographic distance: System effect	-0.05	-0.15	0.05	
Environmental distance: System effect	0.03	-0.08	0.15	
Random Effects				
Phylogeny	0.01	0.00	0.13	
Study	0.01	0.00	0.02	
Species	0.01	0.00	0.03	
Response Type	0.05	0.02	0.13	
Units	0.19	0.18	0.23	