A Data collection and workflow

Calculate proportion

pathogens shared

Count number of literature citations

Proportion Pathogens Shared =

B₁ · Phylogenetic Distance +

B₂ · Search Effort

(accounting for trophic bins)

Fungal parasite associations (USDA)

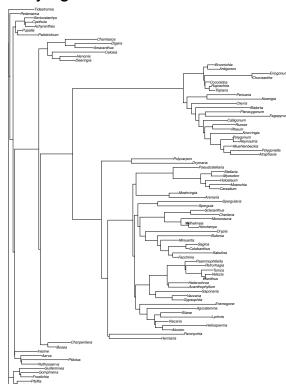
Web of Science

search effort

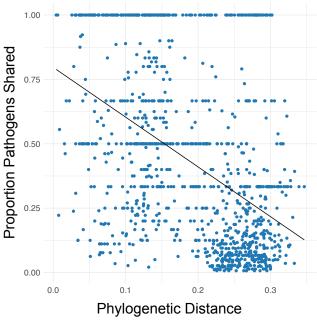
Phylogenetic distance

Trophic classification of pathogens

B Phylogenetic distance tree







D Summary of models

Model	B ₁ (Phylogenetic Distance)	p-value
All	-0.6643	9.72 e-36 **
Necrotrophic	-1.0357	1.22 e-123 **
Biotrophic/Hemitrophic	-1.0887	2.44 e-15 **
Hemitrophic	-1.2084	2.71 e-35 **
Necrotrophic/Hemitrophic	-1.3791	2.25 e-77 **
Biotrophic	-1.3621	1.46 e-144 **

E Search effort by genera

