

Supplementary Table 4: *Habitat explains microbial variance in host species differentially.* PERMANOVA results for individual bird species show habitat is a predictor of microbial variance for the yellow warbler and clay-coloured thrush.

Bird species	Factor	r²	p-value
Buff-throated Saltator	Habitat	0.22	0.649
Clay-coloured Thrush	Habitat	0.1	0.023 *
Orange-billed Nightingale-Thrush	Habitat	0.31	0.479
Swainson's Thrush	Habitat	0.26	0.393
Rufous-capped Warbler	Habitat	0.24	0.373
Yellow Warbler	Habitat	0.11	0.003 **