

Supplementary Table S3. Record of Akaike information criterion (AIC) values obtained using the fitMK function in phytools v0.6-44 (Revell 2012) package in R to determine the best rates model to apply to each data set for stochastic character mapping analyses.

Models	Island of Collection		Ovipositional Substrate		Host Plant Family	
	<i>Wolbachia</i> in Hawaiian Drosophilidae	<i>Wolbachia</i> in Hawaiian Drosophilidae + mosquitoes	<i>Wolbachia</i> in Hawaiian Drosophilidae	<i>Wolbachia</i> in Hawaiian Drosophilidae + mosquitoes	<i>Wolbachia</i> in Hawaiian Drosophilidae	<i>Wolbachia</i> in Hawaiian Drosophilidae + mosquitoes
Even Rates Model (ER)	37.13527	41.55004	48.46443	53.6505	64.26912	72.05277
Symmetric Rates Model (SYM)	38.86977	43.77209	51.76297	57.1812	93.887	101.5524
All Rates Different Model (ARD)	44.94778	48.04271	59.44507	64.83332	136.63868	144.75148

References

Revell, L.J. Phytools: An R package for phylogenetic comparative biology (and other things). *Methods Ecol. Evol.* **2012**, 3, 217–223.