

Table 1: Results of PGLS analysis between song characteristics and continuous song stability. Test performed on the natural log scale values of song characteristics.  $\lambda$  is the value by which off-diagonal elements in the Brownian motion model are multiplied to make the correlation structure. Corrected  $\alpha$  indicates the threshold for significance with the Holm-Bonferroni correction. “\*” denotes significant slopes.

Song Trait	Slope	Std Error	$\lambda$	T-Value	Corrected $\alpha$	p-Value
Syllable Rep	0.9067	0.2449	0.8913	3.7021	0.0071	<0.001*
Song Rep	1.1013	0.3123	0.8316	3.5263	0.0083	<0.001*
Syll Song	0.3701	0.2224	0.4699	1.6642	0.01	0.1029
Interval	0.4221	0.2646	0.8823	1.5953	0.0125	0.1215
Continuity	-0.2135	0.1439	0.8832	-1.4838	0.0167	0.1486
Duration	0.3702	0.2569	1.0163	1.441	0.025	0.1578
Song Rate	-0.2113	0.25	0.7307	-0.8453	0.05	0.4048