Supplementary Table 1. Effect sizes for the analyses of syllable structure, timing, and sequencing. Given the repeated-measures nature of the experimental design, we use a variant of Cohen's d ("dr"), which uses the standard deviation of the residuals as the denominator (Rouder et al., 2012).

SONG FEATURE	median		variability	
	MUSC	BMI	MUSC	BMI
Duration	0.017	0.904	0.499	0.063
Mean frequency	0.700	0.545	0.559	0.562
Amplitude	0.597	0.788	0.423	0.662
Spectral entropy	0.295	0.310	0.429	0.032
Spectrotemporal entropy	0.463	0.226	0.393	0.156
Entropy of the amplitude envelope	0.587	0.339	0.177	0.312
FF of syllables with flat harmonic structure	0.088	1.003	0.614	0.667
Sequence duration of motifs	0.854	0.568	0.970	0.355
Syllable durations within motifs	0.428	1.192	0.231	0.392
Gap durations within motifs	0.455	0.370	0.261	0.095
Song durations	0.345	2.102	0.400	1.810
Introductory note repetitions	0.134	1.109	1.106	1.901
Sequence variability at branch points			0.823	1.045

Rouder, J.N., Morey, R.D., Speckman, P.L. and Province, J.M., 2012. Default Bayes factors for ANOVA designs. Journal of Mathematical Psychology, 56(5), pp.356-374.