

Appendix 2. Mantel tests (1000 permutations, Pearson' correlation coefficient) between absolute differences in the average song characteristics and the co-occurrence indices (using *Index 5*). Significant correlations are marked in bold. There were no strong correlations.

Comparison	<i>N</i>	<i>R</i>	<i>P</i> (<i>two-sided</i>)
Difference in song duration and <i>Index 5</i>	233	0.1577	0.0010
Difference in song low frequency and <i>Index 5</i>	233	0.1440	0.0010
Difference in song bandwidth and <i>Index 5</i>	233	0.0252	0.2070
Difference in song trill rates and <i>Index 5</i>	233	0.0410	0.1530
Difference in song frequency inflections and <i>Index 5</i>	233	0.0590	0.0250