

## Supplementary Tables

**Table S1.** PCR primers used for amplification of Parvalbumin (PV), fast SR calcium ATPase 1 (SERCA1), ryanodine receptor 1 (RYR1), and Glyceraldehyde 3-phosphate dehydrogenase (GAPDH). Amplified PCR products were sequenced and used to generate species-specific quantitative PCR primers (see Table S2).

Gene of Interest	Species Designed From	Species Used For	Forward Primer	Reverse Primer	Product Size (bp)
<i>PV</i>	Downy woodpecker	DW, RBW, and WBNH	ACCCAGATGGAAGAGACCT	TGCAGGATTGCAGAGAACAG	253
<i>SERCA1</i>	Downy woodpecker	DW	GAGGGGGAAGTGTGAAGCA	GACTGCAGGAACTCCACGAT	560
	Downy woodpecker	RBW	AGCAGAAGTTGGACGAGTTTG	CCCGACCTTCTCATAGACTCC	577
	Zebra finch	WBNH	ACCACCAAACCAAGTCAAGC	GGAGGAACTCGACGATCTTG	454
<i>RYR1</i>	American crow	DW, RBW, and WBNH	AGCCCGACATGAAGTGTGAC	TGATCCTCGTATTGCTTGCG	355
<i>GAPDH</i>	Downy woodpecker	DW, RBW, and WBNH	AGCATCTACTGGGGCTGCTA	CACCACACGGTTGCTGTATC	352

**Table S2.** Species-specific primers used for quantitative PCR.

<b>Species</b>	<b>Target</b>	<b>Forward primer</b>	<b>Reverse primer</b>	<b>Product size (bp)</b>
Downy woodpecker	<i>PV</i>	GCTGGAGATAAGGACGGTGA	GAACAGGAGCCAAAGCAGTC	152
	<i>SERCA1</i>	GCAGAAGTTGGACGAGTTTG	AAGTGGCCGATGTTGATGAG	88
	<i>RYR1</i>	CTCCGTCTCGTCCTTGTTG	GAGACCCACACGCTGGAG	81
	<i>GAPDH</i>	TGAGCTCAATGGGAAACTCA	TCAGCAGCAGCCTTCACTAC	135
Red-bellied woodpecker	<i>PV</i>	GCTGGAGATAAGGACGGTGA	GAACAGGAGCCAAAGCAGTC	152
	<i>SERCA1</i>	CACATCAAGGCTGGCTCCTA	ACGTCGGTGTGTAAGACGTT	176
	<i>RYR1</i>	CTCCGTCTCGTCCTTGTTG	GAGACCCACACGCTGGAG	81
	<i>GAPDH</i>	TGAGCTCAATGGGAAACTCA	TCAGCAGCAGCCTTCACTAC	135
White-breasted nuthatch	<i>PV</i>	GCTGGAGATAAGGACGGTGA	GAACAGGAGCCAAAGCAGTC	152
	<i>SERCA1</i>	CGGAAGGAGGTGATGGGC	CCCTTGTTGTCCCCCGTGAT	80
	<i>RYR1</i>	CTCCGTCTCGTCCTTGTTG	GAGACCCACACGCTGGAG	81
	<i>GAPDH</i>	TCCTGAGCTCAATGGGAAAC	CTTGGCTGGTTTTTCCAGAC	101

**Table S3** Test effect and variance for the random effect (individual identity) in each linear mixed model

<b>Model</b>	<b>X<sup>2</sup>, p value</b>	<b>Variance</b>	<b>Standard deviation</b>
PV	X <sup>2</sup> (1)= 7.65, p=0.006	Individual ID: 0.4083 Residual: 0.2665	Individual ID: 0.64 Residual: 0.52
SERCA1	X <sup>2</sup> (1)= 0.87, p=0.35	Individual ID: 0.1209 Residual: 0.3917	Individual ID: 0.35 Residual: 0.63
RYR1	X <sup>2</sup> (1)= 7.06, p=0.008	Individual ID: 0.6012 Residual: 0.4251	Individual ID: 0.78 Residual: 0.65