

**Table S4. Pearson's correlations between *C. floridanus* and *D. melanogaster* orthologs (n = 2102 ortholog pairs) for traits examined in this study**

<b>X</b>	<b>Correlation between species</b>
dN	0.65****
dN/dS	0.61****
Expression level	0.56****
H3K4me3	0.55****
Exon count	0.53****
H3K27ac	0.52****
H3K36me3	0.51****
RNA Pol II	0.46****
Exon length (mean)	0.43****
dS	0.36****
Intron length (mean)	0.28****
H3K9me3	0.22****
H3K4me1	0.19****
H3K27me3	0.12****
H3K9ac	-0.08***

\*\*\*P < 10<sup>-3</sup>, \*\*\*\*P < 10<sup>-4</sup>