

Supplemental Table S5. Comparison of Spearman's correlation coefficient (ρ) between ΔE_{A-B} and $S_{A/B}$ for the complex and non-complex ortholog sets in various tissues/conditions of mammals, flies or worms. The numbers of ortholog sets used in the analysis are listed in Supplemental Table S1.

Tissues/stages	ρ (P -value)		
	All	Complex	Non-complex
Mammals			
Cerebellum ^a	-0.332 ($< 10^{-25}$)	-0.685 ($< 10^{-26}$)	-0.243 ($< 10^{-11}$)
Breast	-0.266 ($< 10^{-15}$)	-0.402 ($< 10^{-8}$)	-0.223 ($< 10^{-9}$)
Colon	-0.271 ($< 10^{-16}$)	-0.429 ($< 10^{-9}$)	-0.222 ($< 10^{-9}$)
Heart	-0.279 ($< 10^{-17}$)	-0.474 ($< 10^{-11}$)	-0.221 ($< 10^{-9}$)
Kidney	-0.254 ($< 10^{-14}$)	-0.385 ($< 10^{-7}$)	-0.214 ($< 10^{-8}$)
Liver	-0.247 ($< 10^{-13}$)	-0.415 ($< 10^{-8}$)	-0.199 ($< 10^{-7}$)
Lung	-0.328 ($< 10^{-24}$)	-0.513 ($< 10^{-13}$)	-0.278 ($< 10^{-14}$)
Ovary	-0.298 ($< 10^{-20}$)	-0.446 ($< 10^{-9}$)	-0.256 ($< 10^{-12}$)
Flies			
L3 larva ^a	-0.225 ($< 10^{-5}$)	-0.415 ($< 10^{-3}$)	-0.186 ($< 10^{-3}$)
Ovary	-0.241 ($< 10^{-7}$)	-0.489 ($< 10^{-4}$)	-0.201 ($< 10^{-4}$)
Worms			
L3 larva ^a	-0.360 ($< 10^{-49}$)	-0.483 ($< 10^{-4}$)	-0.352 ($< 10^{-44}$)
Mixed stages	-0.255 ($< 10^{-24}$)	-0.286 (0.014)	-0.254 ($< 10^{-22}$)

^a The tissue/condition used to produce Supplemental Table S1