

Supplemental Table S4. Comparison of Spearman's correlation coefficient (ρ) between ΔE_{A-B} and $S_{A/B}$ for the dosage sensitive and dosage insensitive ortholog sets in various tissues/conditions of mammals, flies or worms. The numbers of ortholog sets used in the analysis are listed in Table 1.

Tissues/stages	ρ (P-value)		
	All ^a	Dosage sensitive	Dosage sensitive
Mammals			
Cerebellum ^b	-0.588 ($< 10^{-40}$)	-0.635 ($< 10^{-31}$)	-0.501 ($< 10^{-10}$)
Breast	-0.465 ($< 10^{-23}$)	-0.482 ($< 10^{-16}$)	-0.428 ($< 10^{-7}$)
Colon	-0.479 ($< 10^{-25}$)	-0.495 ($< 10^{-17}$)	-0.438 ($< 10^{-8}$)
Heart	-0.522 ($< 10^{-29}$)	-0.555 ($< 10^{-22}$)	-0.459 ($< 10^{-8}$)
Kidney	-0.513 ($< 10^{-29}$)	-0.544 ($< 10^{-21}$)	-0.461 ($< 10^{-9}$)
Liver	-0.492 ($< 10^{-26}$)	-0.509 ($< 10^{-18}$)	-0.455 ($< 10^{-8}$)
Lung	-0.515 ($< 10^{-29}$)	-0.541 ($< 10^{-21}$)	-0.466 ($< 10^{-9}$)
Ovary	-0.507 ($< 10^{-28}$)	-0.524 ($< 10^{-19}$)	-0.481 ($< 10^{-9}$)
Flies			
L3 larva ^b	-0.260 ($< 10^{-4}$)	-0.339 ($< 10^{-4}$)	-0.138 (0.161)
Ovary	-0.332 ($< 10^{-7}$)	-0.357 ($< 10^{-4}$)	-0.314 ($< 10^{-4}$)
Worms			
L3 larva ^b	-0.419 ($< 10^{-11}$)	-0.580 ($< 10^{-5}$)	-0.366 ($< 10^{-6}$)
Mixed stages	-0.218 ($< 10^{-3}$)	-0.285 (0.032)	-0.188 ($< 10^{-2}$)

^a Only ortholog sets defined as "dosage sensitive" or "dosage insensitive" were included.

^b The tissue/condition used to produce Table 1