

**S4 Table:** Correlation coefficients of human-rodent divergence and functional content.

Species pair	Spearman's $\rho$ overall	Spearman's $\rho$ post CpG filtering	Partial correlation controlling for GC content	Partial correlation controlling for recombination	Spearman's $\rho$ post gBGC filtering <sup>a</sup>	Spearman's $\rho$ when using 50 kb windows
Human-mouse	-0.184**	-0.202**	-0.243**	-0.194**	-0.339**	-0.135**
Human-rat	-0.149**	-0.169**	-0.206**	-0.156**	-0.337**	-0.103**

\*\*p-value < 2.2e-16

<sup>a</sup>Spearman's  $\rho$  after filtering sites possibly affected by GC-biased gene conversion (see text).