

Appendix 3. Results for the metaanalyses (all comparisons and within-phylum comparisons). The “no. of +ve signs” indicate the number of comparisons in which the bigger species had a faster rate of molecular evolution than the smaller species, out of the total “no. of pairs” for the data set.

Taxonomic group	No. of data sets	No. of pairs	No. of +ve signs	Sign test <i>P</i> value	Signed rank test <i>P</i> value
All Phyla	10	207	102	0.890	0.761
Arthropoda	3	96	47	0.919	0.832
Mollusca	3	70	36	0.905	0.363
Platyhelminthes	2	18	10	0.815	0.811