	Number occurrences / references per stage		Genus richness / number of references per stage		Subsampled (SQS) genus richness (SIB) / number of references per stage	
	correlation	significance	correlation	significance	correlation	significance
Phanerozoic						
All	0.84	$p < 2.2*10^{-16}$	0.78	$p < 2.2*10^{-16}$	0.63	$p = 2*10^{-10}$
Gastropods	0.90	$p < 2.2*10^{-16}$	0.79	$p < 2.2*10^{-16}$	0.68	$p = 3*10^{-12}$
Bivalves	0.87	$p < 2.2*10^{-16}$	0.87	$p < 2.2*10^{-16}$	0.77	$p < 2.2*10^{-16}$
Brachiopods	0.90	$p < 2.2*10^{-16}$	0.88	$p < 2.2*10^{-16}$	0.78	$p < 2.2*10^{-16}$
Late Paleozoic Ice Age						
All	0.97	$p < 2.2*10^{-16}$	0.93	$p < 2.2*10^{-16}$	0.81	$p = 1.9*10^{-4}$
Gastropods	0.87	$p < 2.2*10^{-16}$	0.80	$p = 2*10^{-4}$	0.57	$p = 0.02$
Bivalves	0.90	$p = 1.8 * 10^{-6}$	0.94	$p = 5.2*10^{-8}$	0.93	$p = 2.1*10^{-7}$
Brachiopods	0.93	$p < 2.2*10^{-16}$	0.91	$p < 2.2*10^{-16}$	0.86	$p < 2.2*10^{-16}$