

Appendix F. Full results of independent contrasts analysis on tagmosis-diversity relationship

Table F1. The relationship between tagmosis and the diversity of extant crustacean clades.

Trait	Sign test		Wilcoxon test (H ₀ : median = 0)		Regression (n = 37 contrasts)					
	No. positive contrasts	No. negative contrasts	Neutral contrasts	P value	V	P value	slope	F-stat	R ²	P value
Brillouin tagmosis	23	14	0	0.188	478.5	0.0563~	1.501	7.085 _{1,36}	0.162	0.0121
Total no. of limbs	15	17	5	0.86	251.5	0.822	-0.0135	1.151 _{1,36}	0.0310	0.290
No. of limb types	20	14	3	0.392	376	0.185	0.103	0.802 _{1,36}	0.022	0.376
No. of types per limb	17	20	0	0.743	333	0.786	2.144	4.524 _{1,36}	0.112	0.0403
Average disparity per limb	17	19	1	0.868	364	0.632	0.713	4.416 _{1,36}	0.109	0.0427
Total disparity across limbs	16	19	2	0.736	334	0.762	0.00765	0.049 _{1,36}	0.0014	0.826

Positive trait contrasts are those for which the more diverse clade has the larger trait value, while negative contrasts are those for which the less diverse clade has the larger value. Neutral contrasts (no trait difference) are omitted from the sign and Wilcoxon tests. Regressions were repeated following data transformation (square, square root, or log transformations as appropriate) to improve the distribution of residuals; findings were similar (results not shown).

