

13) Model adequacy scores for the best model supported for each morphological character. Cvar = coefficient of variation of the absolute value of the contrasts. Svar = Slope of a linear model fitted to the absolute value of the contrasts against their expected variances. Sasr = slope of the contrasts against the ancestral state inferred at each corresponding node. Shgt = slope of the contrasts against node depth. Dcfd = Kolmogorov-Smirnov D-statistic comparing contrasts to a normal distribution with SD equal to the root of the mean of squared contrasts.

Variable	Best model	Msig	Cvar	Svar	Sasr	Shgt	Dcfd
Desmoneme length $\mu\text{m}$	WN	0.889	0.224	0.084	0.32	0.146	0
Heteroneme shaft extension	WN	0.861	0	0.577	0	0.533	0.042
Total heteroneme volume	WN	0.895	0.577	0.006	0.026	0.078	0.603
Rhopaloneme width $\mu\text{m}$	WN	0.823	0.42	0.182	0.014	0.531	0.006
Haploneme free length $\mu\text{m}$	EB	0.841	0.052	0.036	0.168	0.226	0.843
Heteroneme volume $\mu\text{m}^3$	BM	0.855	0.731	0.228	0.897	0.775	0.104
Involucrum length $\mu\text{m}$	BM	0.839	0.01	0.018	0.116	0.09	0.987
Tentacle width $\mu\text{m}$	BM	0.817	0.841	0.402	0.386	0.785	0.48
Cnidoband coiledness	BM	0.873	0	0.028	0.016	0.144	0.41
Total haploneme volume	BM	0.807	0.228	0.004	0.006	0.024	0.398
Cnidoband free length $\mu\text{m}$	BM	0.825	0.076	0.002	0	0.006	0.681
Heteroneme free length $\mu\text{m}$	BM	0.859	0.392	0.386	0.056	0.591	0.284
Rhopaloneme elongation	BM	0.873	0.022	0.006	0.004	0.048	0.104
Desmoneme width $\mu\text{m}$	BM	0.813	0.877	0.531	0.014	0.941	0.014
Cnidoband length $\mu\text{m}$	BM	0.829	0.096	0	0	0.004	0.901
Heteroneme number	BM	0.823	0.312	0	0.004	0.02	0.869
Heteroneme shaft free length $\mu\text{m}$	BM	0.877	0.468	0.565	0.034	0.841	0.851
Rhopaloneme length $\mu\text{m}$	BM	0.829	0.525	0.547	0.01	0.917	0.08
Heteroneme/cnidoband length	BM	0.839	0.01	0	0.004	0.008	0.715
Cnidoband width $\mu\text{m}$	BM	0.907	0.977	0	0.002	0.01	0.11
Pedicle width $\mu\text{m}$	BM	0.817	0.931	0.476	0.088	0.969	0.813
Haploneme width $\mu\text{m}$	BM	0.881	0.805	0.12	0.294	0.511	0.15
Heteroneme width $\mu\text{m}$	BM	0.849	0.142	0.156	0.356	0.819	0.278
Heteroneme elongation	BM	0.933	0.094	0.07	0.681	0.791	0.777
Haploneme row number	BM	0.863	0	0.002	0.004	0.008	0.012

<b>Total nematocyst volume</b>	<b>BM</b>	0.809	0.521	0.024	0.016	0.198	0.837
<b>Haploneme surface: volume</b>	<b>BM</b>	0.831	0.945	0.130	0.503	0.426	0.170