Table S1. Both gaster width and gaster mass are correlated with head width (a proxy for exoskeletal size), so first-order partial correlations between these three intercorrelated variables were calculated to determine the correlation between gaster width and gaster mass when the effect of head width is removed

First-order partial correlations	r	r^2	t	P
Gaster width × gaster dry mass (excluding head width)	0.74	0.54	9.5	<0.0001
Head width × gaster width (excluding gaster dry mass)	0.43	0.19	4.2	0.0001
Head width × gaster dry mass (excluding gaster width)	0.10	0.01	0.9	0.37

Correlation between head width and gaster width (r=0.53, N=80, P<0.0001).

Correlation between head width and log-transformed gaster dry mass (r=0.35, N=80, P<0.01).

The correlation between gaster width and gaster dry mass remains strong and significant even when adjusted to control for the effects of correlation with head width: r=0.74, N=80, P<0.000.