

Untitled

Table 1: **Table S8.** Procrustes correlation, sum of squares and significance from Procrustes analysis between the matrix of effect sizes (species x species matrix) and the distance matrix of each trait for all families, just Solanaceae and just Brassicaceae.

Correlation (r)	Sum of squares	P-value	Traits	Family
0.34	0.88	0.70	Selfing rate	All
0.36	0.87	0.42	Pollen size	All
0.35	0.88	0.57	Pollen per anther	All
0.33	0.89	0.55	Number of ovules	All
0.30	0.91	0.86	Pollen-ovule ratio	All
0.37	0.86	0.68	Stigmatic area	All
0.62	0.62	0.10	Stigma length	All
0.46	0.79	0.47	Stigma width	All
0.43	0.82	0.45	Style length	All
0.59	0.65	0.11	Style width	All
0.34	0.88	0.57	Ovary length	All
0.35	0.88	0.93	Ovary width	All
0.49	0.76	0.24	Self-incompatibility index	All
0.86	0.26	0.25	Selfing rate	Solanaceae
0.76	0.42	0.33	Pollen size	Solanaceae
0.42	0.82	0.79	Pollen per anther	Solanaceae
0.52	0.73	0.83	Number of ovules	Solanaceae
0.87	0.25	0.04	Pollen-ovule ratio	Solanaceae
0.82	0.33	0.17	Stigmatic area	Solanaceae
0.89	0.20	0.08	Stigma length	Solanaceae
0.84	0.29	0.12	Stigma width	Solanaceae
0.78	0.39	0.50	Style length	Solanaceae
0.52	0.73	0.71	Style width	Solanaceae
0.64	0.60	0.79	Ovary length	Solanaceae
0.87	0.23	0.17	Ovary width	Solanaceae
0.50	0.75	1.00	Self-incompatibility index	Solanaceae
0.61	0.63	0.50	Selfing rate	Brassicaceae
0.60	0.64	0.71	Pollen size	Brassicaceae
0.40	0.84	0.96	Pollen per anther	Brassicaceae
0.62	0.61	0.42	Number of ovules	Brassicaceae
0.49	0.76	0.96	Pollen-ovule ratio	Brassicaceae
0.55	0.70	0.58	Stigmatic area	Brassicaceae
0.92	0.15	0.08	Stigma length	Brassicaceae
0.63	0.60	0.38	Stigma width	Brassicaceae
0.83	0.31	0.08	Style length	Brassicaceae
0.79	0.37	0.33	Style width	Brassicaceae

0.59	0.65	0.50	Ovary length	Brassicaceae
0.54	0.70	1.00	Ovary width	Brassicaceae
0.50	0.75	0.83	Self-incompatibility index	Brassicaceae