

ESM2

Results of ANOVAs for π_s when data are grouped by genus (see main text). Results are given for one-way ANOVAs (first group), two-way ANOVAs including mating system (second group), two-way ANOVAs including family effects (third group), and three-way ANOVAs including mating system and family effects (last group). R^2 are given either for one factor or for a couple of factor (excluding family).

| Factors | | n | R^2 | p_{value} | | |
|------------------------|-------------------|-------------------|-------|--------------------|---------------|--------------|
| | | | | Factor 1 | Factor 2 | |
| Without family effects | Mating system | 79 | 0.122 | 0.002 | | |
| | Life form | 93 | 0.031 | 0.219 | | |
| | Pollination | 98 | 0.001 | 0.709 | | |
| | Dispersal | 89 | 0.071 | 0.095 | | |
| | Cultivated status | 102 | 0.002 | 0.628 | | |
| | Rarity status | 98 | 0.045 | 0.035 | | |
| | Mating system | Life form | 79 | 0.207 | 0.0002 | 0.021 |
| | | Pollination | 78 | 0.118 | 0.002 | 0.941 |
| | | Dispersal | 77 | 0.214 | 0.001 | 0.039 |
| | | Cultivated status | 79 | 0.126 | 0.002 | 0.536 |
| | | Rarity status | 78 | 0.176 | 0.002 | 0.015 |
| With family effects | Mating system | 79 | 0.082 | 0.010 | | |
| | Life form | 93 | 0.005 | 0.814 | | |
| | Pollination | 98 | 0.000 | 0.731 | | |
| | Dispersal | 89 | 0.024 | 0.287 | | |
| | Cultivated status | 102 | 0.001 | 0.795 | | |
| | Rarity status | 98 | 0.054 | 0.014 | | |
| | Mating system | Life form | 79 | 0.103 | 0.008 | 0.548 |
| | | Pollination | 78 | 0.084 | 0.011 | 0.951 |
| | | Dispersal | 77 | 0.120 | 0.023 | 0.543 |
| | | Cultivated status | 79 | 0.083 | 0.010 | 0.582 |
| | | Rarity status | 78 | 0.139 | 0.013 | 0.024 |