

Table S2. Extended results of models of dependent and independent chromosome number changes correlated with floral size (*FS*), floral display (*FD*), herkogamy (*Hk*) and life cycle (*LC*). The best-fitted model, considering the Akaike's information criterion (*AIC*), is in bold font. *Df* indicates the calculated degrees of freedom and *LnLik* the log-likelihood. To study *FS*, taxa with small- to-medium flowers (< 15 mm) were coded as “1”, and with large flowers (> 15.1 mm) as “2”. Regarding *FD*, taxa with low number of flowers simultaneously present during anthesis (< 30 flowers per plant) were coded as “1”, while the taxa having high number (>30 flowers per plant), as “2”. Taxa with low herkogamy (*Hk*) were coded as “1” and the ones with high herkogamy as “2”. Regarding life cycle (*LC*), annual or biennial species were coded as “1” and perennial as “2”. Ascending (*asc1*, *asc2*) and descending (*desc1*, *desc2*) dysploidy and polyploidy (*pol1*, *pol2*) rates were estimated for traits 1 and 2. Transition rates from trait 1 to trait 2 and vice versa were also estimated (*tran12*, *tran21*).

<i>Model</i>	<i>Df</i>	<i>LnLik</i>	<i>AIC</i>	<i>asc1</i>	<i>desc1</i>	<i>asc2</i>	<i>desc2</i>	<i>pol1</i>	<i>pol2</i>	<i>tran12</i>	<i>tran21</i>
dependent FS	10	-60.143	140.29	2.14E-07	8.49E+01	4.21E-08	1.17E-05	2.32E+00	2.79E+00	2.39E+00	1.41E+00
independent FS	6	-66.316	144.63	9.45E-10	2.45E+00			1.65E+00		2.73E+00	2.22E+00
dependent FD	10	-55.038	130.08	5.07E-06	5.96E-06	3.12E-08	3.61E+00	2.41E-01	4.39E+00	1.07E+00	6.53E-01
independent FD	6	-62.897	137.79	1.05E-09	2.45E+00			1.65E+00		1.73E-01	8.93E-01
dependent Hk	10	-58.429	136.86	1.13E-05	6.48E-08	4.57E-05	2.83E+00	4.84E-06	4.54E+00	2.11E+00	6.88E-01
independent Hk	6	-65.03	142.06	3.28E-09	2.45E+00			1.65E+00		9.11E+01	3.64E+01
dependent LC	10	-55.002	130.00	7.07E-07	2.04E-07	1.89E-10	2.72E+00	2.42E+00	1.53E+00	7.46E-06	2.67E-01
independent LC	6	-56.088	124.18	4.02E-12	2.45E+00			1.65E+00		2.56E-08	2.70E-01