

**Table S11.** Statistic of gene family expansion and contraction in 10 species

<b>Species</b>	<b>Expanded family</b>	<b>Genes gained</b>	<b>Contracted family</b>	<b>Genes lost</b>	<b>No change</b>	<b>Avg. Expansion</b>
<i>Ipomoea pes-caprea</i>	1193 (121)	3035	2552 (25)	2766	18563	0.0120585
<i>Ipomea trifida</i>	1606 (103)	2625	1017 (46)	1192	19685	0.064237
<i>Ipomoea triloba</i>	1106 (69)	1784	1085 (20)	1178	20117	0.0271651
<i>Cuscuta campestris</i>	8370 (166)	12366	579 (26)	657	13359	0.524879
<i>Cuscuta australis</i>	286 (38)	743	5066 (170)	5996	16956	-0.235476
<i>Solanum tuberosum</i>	2125 (129)	4475	1390 (61)	1699	18793	0.12444
<i>Solanum lycopersicum</i>	1403 (99)	3155	2107 (67)	2616	18798	0.0241617
<i>Actinidia chinensis</i>	6512 (12)	9506	1884 (5)	2178	13912	0.328492
<i>Vitis vinifera</i>	1861 (53)	4364	3933 (1)	4332	16514	0.00143446
<i>Oryza sativa</i>	2271 (5)	3318	12760 (1)	13811	7277	-0.470369