

Supplementary Table S1 The name of eleven varieties in each faba bean, pea, soybean, maize, sunflower, peanut and sorghum species.

Varieties	Faba bean	Pea	Soybean	Maize	Sunflower	Peanut	Sorghum
1	Yundou2883	Zhongwan 101	Kefeng 29	15B661	YA150×H1	Yizheng peanut	Jiangchutou
2	Qidou 2	Zhongwan 06	Zhonghuang 43	Gushenyu 66	Y5A×YJMR2	Zhanglaoying xiaobaisha peanut	Zhengyansan
3	Lincan 8	Zhongwan 102	Yidou 21	Jingnongke 729	F15-2A×303	Xiyingben peanut	Beijingbai
4	Tongcanxian 6	Zhongwan 03	Zheng 9525	FengdeCunyu 22	1606A×303	Liuxiang peanut	Beiping 5
5	Dazhuang Bean	Longwan 10	Heihe 1	Longping 381	LJ198	Qinglong peanut	Beiping 11
6	Mocan 1	Longwan 6	Zhonghuang 24	Longping 392	LJ199	Guanyang peanut 1	Beiping Black shell white
7	Aohe 2004-022	Kewan 10	Zheng84240-B1	Weiyu178	JK118	Guanyang peanut 2	Beiping nanjiao
8	Zhongchan 2	Suwan 10	Zhongpin 661	Zeyu 601	JK108	Wulian peanut	Baimaweiba
9	Zhongchan 1	Guiwan 4	Yidou 18	Zhengdan 309	Aidatou567DW	Lizhuangxiao Japan	White Tartar Hat
10	Yucan 5	Chengwan 8	Qihuang 33	Denghai 111	Neizakui 4	Songzhuangzi peanut	Jinzhou White
11	Tongcanxian 8	Luhuangwan 9	Zhonghuang 13	Nongkeyu 368	Dwarf edible sunflower	Native species	CP21

