

Table S2A. List of A-type P450 families. For each family genes and pseudogenes were compared among different plant species

Family	Soybean		Medicago		Arabidopsis		Rice	
	Genes	Psuedogenes	Genes	Psuedogenes	Genes	Psuedogenes	Genes	Psuedogenes
A-TYPE								
CYP71 clan								
CYP71	55	65	37	22	52	2	84	28
CYP73	3	2	1	0	1	0	3	1
CYP75	7	5	0	0	1	0	3	0
CYP76	14	29	6	0	8	1	29	12
CYP77	4	0	2	0	5	2	2	0
CYP78	11	8	1	0	6	0	8	0
CYP79	5	4	3	0	7	5	4	0
CYP80	0	0	0	0	0	0	0	0
CYP81	12	19	5	0	18	0	12	1
CYP82	24	9	10	1	5	0	0	0
CYP83	12	11	9	0	1	0	0	0
CYP84	3	3	3	0	2	0	3	1
CYP89	8	4	9	0	7	0	14	6
CYP92	2	0	1	0	0	0	9	5
CYP93	13	22	8	0	1	0	3	4
CYP98	2	1	1	0	3	0	2	2
CYP99	0	0	0	0	0	0	2	0
CYP701	2	0	1	0	1	0	5	0
CYP703	1	1	1	0	1	0	1	0
CYP705	0	0	0	0	26	8	0	0
CYP706	3	4	1	0	7	0	4	0
CYP712	2	0	1	0	2	0	0	0
CYP723	0	0	0	0	0	0	2	1
CYP726	0	0	0	0	0	0	0	0
CYP736	12	15	1	0	0	0	0	0
Total	195	202	101	23	154	18	190	61

Table S2B. List of Non A-type P450 families. For each family genes and pseudogenes were compared among different plant species

Family	Soybean		Medicago		Arabidopsis		Rice	
	Genes	Psuedogenes	Genes	Psuedogenes	Genes	Psuedogenes	Genes	Psuedogenes
NON-A								
CYP51 clan								
CYP51	2	2	1	0	1	0	10	2
CYP72 clan								
CYP72	12	18	7	1	9	1	13	4
CYP709	0	0	1	0	3	0	9	3
CYP714	6	12	3	0	2	0	5	1
CYP715	6	1	1	0	1	0	1	3
CYP721	2	5	1	0	1	0	2	0
CYP734	3	0	1	0	1	0	4	1
CYP735	3	3	1	0	1	0	2	0
CYP749	0	0	0	0	0	0	0	0
CYP74 clan								
CYP74	6	11	4	0	2	0	4	1
CYP85 clan								
CYP85	5	7	1	0	2	0	1	0
CYP87	2	2	2	0	1	1	11	2
CYP88	3	1	3	0	2	0	1	0
CYP90	12	5	4	0	4	0	5	1
CYP702	0	0	0	0	6	3	0	0
CYP707	10	6	3	0	4	0	3	0
CYP708	0	0	0	0	4	0	0	0
CYP716	7	4	3	0	2	0	0	0
CYP718	1	1	0	0	1	0	0	0
CYP720	2	3	1	0	1	0	0	0
CYP722	2	2	1	0	1	0	1	0
CYP724	1	2	0	0	1	0	1	0
CYP725	0	0	0	0	0	0	0	0
CYP728	2	2	0	0	0	0	11	4
CYP729	0	0	1	0	0	0	2	0
CYP733	3	4	0	0	0	0	1	0
CYP86 clan								
CYP86	9	26	3	0	11	0	5	6
CYP94	14	7	4	0	6	1	18	8
CYP96	7	7	5	1	13	2	12	0
CYP704	5	15	14	4	3	0	7	0
CYP97 clan								
CYP97	5	11	4	0	3	0	3	0
CYP710 clan								
CYP710	2	17	1	0	4	0	4	2
CYP711 clan								
CYP711	4	2	2	1	1	0	5	0
CYP727 clan								
CYP727	1	0	0	0	0	0	1	0
CYP746 clan								
CYP746	0	0	0	0	0	0	0	0
Total	137	176	72	7	91	8	142	38