

Supplemental Table 1. Frequency of somatic embryo formation from germinating embryos of *Arabidopsis thaliana* accessions

Accession number*	Name code	Number of experiments	Frequency of somatic embryo formation (%)**	Standard error
–	No	5	71.0	7.1
–	Col	5	26.0	3.7
–	Ler	5	43.0	7.3
–	Ws	5	11.0	4.0
JA1	Aa-0	3	18.3	3.3
JA2	Ag-0	3	91.7	1.7
JA3	Ak-1	4	13.8	9.0
JA4	Al-0	4	57.5	13.8
JA5	Am-0	3	43.3	8.8
JA6	An-1	3	1.7	1.7
JA7	Ang-1	4	31.3	10.1
JA8	Ba-1	4	70.0	11.4
JA9	Bay-1	3	41.7	8.8
JA10	Bch-1	4	58.8	9.9
JA11	Bd-0	4	60.0	8.4
JA12	Be-0	3	15.0	5.0
JA13	Bl-1	3	11.7	6.0
JA14	Bla-1	3	5.0	2.9
JA15	Bla-10	4	15.0	7.9
JA16	Bla-12	3	30.0	7.6
JA17	Bla-14	3	26.7	9.3
JA18	Blh-1	4	25.0	8.4
JA19	Bn-0	3	5.0	2.9
JA21	Br-0	3	8.3	1.7
JA22	Bs-1	3	35.0	8.7
JA23	Bs-5	3	23.3	9.3
JA24	Bsch-0	4	30.0	8.7
JA25	Bu-0	3	0.0	0.0
JA26	Bu-2	3	5.0	0.0
JA27	Bu-3	4	41.3	9.9

Supplemental Table 1 (Continued).

Accession number*	Name code	Number of experiments	Frequency of somatic embryo formation (%)**	Standard error
JA28	Bu-4	3	5.0	2.9
JA29	Bu-5	3	20.0	2.9
JA30	Bu-9	3	6.7	1.7
JA31	Bu-11	3	20.0	5.0
JA32	Bu-13	4	25.0	8.7
JA33	Bu-14	3	61.7	7.3
JA34	Bu-14a	3	33.3	6.0
JA35	Bu-15	3	36.7	6.0
JA36	Bu-17	3	63.3	7.3
JA37	Bu-19	3	18.3	4.4
JA38	Bu-20	3	16.7	8.8
JA39	Bu-21	4	46.3	9.4
JA40	Bu-22	3	18.3	6.0
JA41	Bu-23	3	50.0	8.7
JA42	Bu-24	3	65.0	7.6
JA43	Bu-25	3	51.7	4.4
JA44	Bur-0	3	6.7	1.7
JA45	Bus-0	3	8.3	6.0
JA46	Bus-1	3	13.3	4.4
JA47	Ca-0	4	20.0	8.9
JA48	Cal-0	3	16.7	6.7
JA49	Can-0	4	46.3	11.6
JA50	Cen-0	3	35.0	2.9
JA51	Cha-0	3	41.7	9.3
JA53	Chi-0	3	3.3	3.3
JA54	Ci-0	4	58.8	11.3
JA55	Cit-0	4	65.0	13.4
JA56	Cl-0	3	3.3	3.3
JA57	Co-0	3	33.3	6.0
JA58	Col-0	4	38.8	8.3
JA59	Ct-1	3	8.3	1.7

Supplemental Table 1 (Continued).

Accession number*	Name code	Number of experiments	Frequency of somatic embryo formation (%)**	Standard error
JA60	Cvi-0	4	10.0	10.0
JA61	Da-0	3	30.0	7.6
JA62	Db-0	3	0.0	0.0
JA63	Di-0	4	18.8	7.7
JA64	Di-1	3	48.3	6.7
JA65	Di-2	3	13.3	1.7
JA66	Do-0	3	35.0	2.9
JA67	Dr-0	3	50.0	5.0
JA68	Dra-0	3	15.0	0.0
JA69	Edi-0	3	50.0	7.6
JA70	Ei-2	3	11.7	6.0
JA71	Eil-0	3	28.3	8.8
JA72	El-0	3	20.0	13.2
JA73	En-2	3	13.3	4.4
JA74	Ep-0	3	41.7	6.7
JA75	Er-0	3	0.0	0.0
JA76	Es-0	3	23.3	1.7
JA77	Esc-0	3	0.0	0.0
JA78	Est-0	3	46.7	9.3
JA79	Et-0	3	11.7	7.3
JA80	Fe-1	3	58.3	4.4
JA81	Fi-0	4	17.5	10.9
JA82	Fl-1	4	56.3	12.8
JA83	Fl-3	3	11.7	9.3
JA84	For-1	3	43.3	9.3
JA85	Fr-2	4	41.3	7.7
JA86	Fr-5	3	33.3	6.7
JA87	Ga-2	3	16.7	6.0
JA88	Gd-1	4	18.8	9.0
JA89	Ge-0	4	62.5	7.8
JA90	Ge-1	4	28.8	8.5

Supplemental Table 1 (Continued).

Accession number*	Name code	Number of experiments	Frequency of somatic embryo formation (%)**	Standard error
JA91	Ge-2	4	53.8	8.3
JA92	Gie-0	3	41.7	3.3
JA93	Go-0	3	10.0	0.0
JA94	Go-2	3	48.3	6.7
JA95	Gr-1	3	41.7	9.3
JA96	Gre-0	4	62.5	11.6
JA97	Gu-0	3	43.3	6.0
JA98	Gy-0	3	38.3	4.4
JA99	Ha-0	3	15.0	2.9
JA100	Hau-0	4	62.5	14.9
JA101	Hel-1	3	8.3	6.0
JA102	Hh-0	4	20.0	7.4
JA103	Hi-0	3	8.3	1.7
JA104	HI-0	3	35.0	5.0
JA105	HI-2	3	11.7	6.0
JA106	HI-3	3	18.3	1.7
JA107	Hm-0	3	25.0	5.0
JA108	Hn-0	3	13.3	6.0
JA109	Hs-0	4	51.3	12.3
JA110	In-0	3	5.0	2.9
JA111	Is-0	3	31.7	6.7
JA112	Ita-0	3	16.7	6.7
JA113	Je-0	4	32.5	16.1
JA114	Jl-1	4	33.8	10.7
JA115	Jm-0	4	41.3	7.7
JA116	Jm-1	3	21.7	3.3
JA117	Ka-0	3	1.7	1.7
JA119	Kas-1	3	55.0	7.6
JA120	Kb-0	3	1.7	1.7
JA121	Kil-0	3	8.3	4.4
JA122	Kin-0	4	40.0	7.4

Supplemental Table 1 (Continued).

Accession number*	Name code	Number of experiments	Frequency of somatic embryo formation (%)**	Standard error
JA123	Kl-0	3	11.7	6.0
JA124	Kl-5	3	1.7	1.7
JA125	Kn-0	3	13.3	6.0
JA126	Ko-3	3	88.3	1.7
JA127	Ko-4	3	43.3	8.3
JA128	Ko-5	3	46.7	3.3
JA129	Kr-0	3	15.0	7.6
JA130	Kro-0	3	13.3	8.8
JA131	La-1	3	11.7	4.4
JA132	Lan-0	3	21.7	8.8
JA133	Lc-0	4	51.3	8.5
JA134	Le-0	4	27.5	9.2
JA135	Li-2	3	6.7	3.3
JA136	Li-2-1	3	60.0	5.0
JA137	Li-3-3	3	0.0	0.0
JA138	Li-5	3	23.3	6.7
JA139	Li-6	3	13.3	1.7
JA140	Lip-0	3	25.0	5.0
JA141	Ll-0	4	50.0	10.2
JA142	Lm-2	3	13.3	3.3
JA143	Lo-1	3	21.7	8.3
JA144	Loh-0	3	20.0	5.8
JA145	Lu-1	3	1.7	1.7
JA146	Lz-0	3	21.7	6.0
JA147	Ma-0	4	33.8	10.9
JA148	Map-0	4	18.8	10.5
JA149	Mc-0	3	63.3	7.3
JA150	Me-0	3	5.0	5.0
JA151	Mh-0	3	0.0	0.0
JA152	Mh-1	4	32.5	7.5
JA153	Mir-0	3	3.3	3.3

Supplemental Table 1 (Continued).

Accession number*	Name code	Number of experiments	Frequency of somatic embryo formation (%)**	Standard error
JA154	Mna-0	3	1.7	1.7
JA155	Mr-0	3	78.3	4.4
JA156	Mrk-0	3	60.0	5.8
JA157	Ms-0	3	16.7	4.4
JA158	Mt-0	4	53.8	7.5
JA159	Mv-0	3	51.7	3.3
JA160	Mz-0	3	46.7	4.4
JA161	Na-1	4	50.0	10.6
JA162	Nc-1	3	28.3	6.0
JA163	Nd-0	3	15.0	2.9
JA164	Nie-0	3	38.3	4.4
JA165	No-0	4	37.5	11.1
JA166	Nok-0	4	20.0	8.4
JA167	Nok-1	3	31.7	6.0
JA168	Nok-2	4	36.3	11.4
JA169	Nok-3	4	31.3	8.5
JA170	Nok-4	4	22.5	14.8
JA171	Np-0	3	45.0	8.7
JA172	Nw-0	4	15.0	8.7
JA173	Ob-0	4	32.5	7.8
JA174	Ob-1	3	60.0	2.9
JA175	Ob-2	3	16.7	7.3
JA176	Old-1	3	13.3	3.3
JA177	Old-2	3	3.3	1.7
JA178	Or-0	3	18.3	4.4
JA179	Ost-0	3	8.3	4.4
JA180	Ove-0	3	20.0	5.0
JA181	Oy-0	3	13.3	6.0
JA182	Pa-1	3	3.3	1.7
JA183	Pdi-0	4	35.0	8.9
JA184	Per-1	3	16.7	3.3

Supplemental Table 1 (Continued).

Accession number*	Name code	Number of experiments	Frequency of somatic embryo formation (%)**	Standard error
JA185	Per-2	4	35.0	11.7
JA186	Per-3	3	33.3	8.3
JA187	Pf-0	3	21.7	3.3
JA188	Pi-0	4	17.5	7.8
JA189	Pla-0	3	16.7	8.3
JA190	Pn-0	3	63.3	8.8
JA191	Po-1	3	6.7	3.3
JA192	Pog-0	3	73.3	4.4
JA193	Pr-0	3	25.0	2.9
JA194	Pt-0	4	48.8	8.3
JA195	Ra-0	4	31.3	7.2
JA196	Rak-2	3	28.3	1.7
JA197	Rd-0	3	6.7	3.3
JA198	Ri-0	3	31.7	8.8
JA200	Rou-0	3	38.3	3.3
JA201	Rsch-0	4	26.3	11.1
JA202	Rsch-4	3	41.7	6.0
JA203	Ru-0	4	27.5	11.3
JA205	Sah-0	3	21.7	3.3
JA206	Sap-0	3	45.0	7.6
JA207	Sav-0	4	50.0	11.7
JA208	Se-0	3	41.7	6.7
JA209	Sei-0	4	26.3	9.4
JA210	Set-0	4	50.0	10.6
JA211	Sf-0	3	43.3	6.0
JA212	Sf-1	3	50.0	7.6
JA213	Sf-2	4	31.3	8.0
JA214	Sg-1	3	13.3	1.7
JA215	Sg-2	3	38.3	7.3
JA216	Sh-0	3	18.3	1.7
JA217	Si-0	3	35.0	2.9

Supplemental Table 1 (Continued).

Accession number*	Name code	Number of experiments	Frequency of somatic embryo formation (%)**	Standard error
JA218	So-0	3	40.0	2.9
JA219	Sol-0	3	51.7	3.3
JA220	Sp-0	3	15.0	2.9
JA222	St-0	3	13.3	1.7
JA223	Ste-0	3	50.0	5.8
JA224	Stw-0	3	8.3	6.0
JA225	Su-0	4	48.8	12.1
JA226	Sue-0	3	21.7	9.3
JA227	Sv-0	3	56.7	8.8
JA228	Sy-0	4	31.3	9.7
JA229	Ta-0	3	21.7	8.8
JA230	Ts-1	3	6.7	4.4
JA231	Ts-2	3	46.7	4.4
JA232	Ts-3	3	16.7	9.3
JA233	Ts-5	4	46.3	9.9
JA234	Ts-6	3	23.3	4.4
JA235	Ts-7	3	15.0	5.8
JA236	Tsu-0	3	6.7	6.7
JA237	Tu-1	4	33.8	12.3
JA238	Tul-1	3	55.0	8.7
JA239	Ty-0	3	50.0	5.8
JA240	Uk-2	4	63.8	9.9
JA241	Uk-3	4	51.3	10.3
JA242	Uk-4	4	28.8	9.0
JA243	Van-0	3	15.0	5.8
JA244	Vi-0	3	41.7	8.8
JA245	Wa-1	3	5.0	2.9
JA246	Wc-1	3	23.3	8.8
JA247	Wc-2	3	40.0	8.7
JA248	Wil-1	3	3.3	3.3
JA249	Wil-2	3	36.7	1.7

Supplemental Table 1 (Continued).

Accession number*	Name code	Number of experiments	Frequency of somatic embryo formation (%)**	Standard error
JA250	Wil-3	3	43.3	1.7
JA251	Wl-0	3	61.7	4.4
JA252	Ws-0	4	26.3	8.5
JA253	Wt-1	3	25.0	8.7
JA254	Wt-2	3	16.7	4.4
JA255	Wt-3	4	20.0	13.5
JA256	Wt-4	3	25.0	5.0
JA257	Wt-5	4	28.8	12.6
JA258	Wu-0	3	21.7	6.0
JA259	X-0	3	5.0	2.9
JA260	Xx-0	3	3.3	1.7
JA261	Xxx-0	3	18.3	8.8
JA262	Yo-0	4	63.8	13.8
JA263	Ze-0	4	43.8	16.6
JA264	Zu-0	3	53.3	7.3
JA265	An-2	3	5.0	0.0
JA266	Ang-0	3	30.0	5.8
JA267	Bch-3	3	5.0	0.0
JA268	Bch-4	4	51.3	14.2
JA269	Be-1	3	5.0	2.9
JA270	Bla-2	3	18.3	8.8
JA271	Bla-3	3	20.0	5.8
JA272	Bla-4	3	40.0	5.0
JA273	Bla-5	3	1.7	1.7
JA274	Bla-11	3	33.3	3.3
JA275	Blh-2	3	1.7	1.7
JA276	Bs-2	3	10.0	2.9
JA277	Bsch-2	3	20.0	5.0
JA278	Bu-1	3	30.0	5.8
JA279	Bu-6	3	6.7	1.7
JA280	Bu-7	4	37.5	8.3

Supplemental Table 1 (Continued).

Accession number*	Name code	Number of experiments	Frequency of somatic embryo formation (%)**	Standard error
JA281	Bu-8	3	11.7	4.4
JA282	Bu-18	3	21.7	6.0
JA283	Cha-1	4	33.8	13.8
JA284	Chi-1	3	10.0	5.0
JA285	Chi-2	3	8.3	1.7
JA286	Co-2	3	26.7	7.3
JA287	Co-3	3	10.0	2.9
JA288	Co-4	3	26.7	4.4
JA289	Db-1	3	8.3	1.7
JA290	Db-2	3	13.3	6.0
JA291	Dra-1	4	32.5	10.1
JA292	Dra-2	3	23.3	4.4
JA293	Ei-4	3	15.0	7.6
JA294	Ei-5	3	25.0	2.9
JA295	Ei-6	3	45.0	5.0
JA296	En-1	3	13.3	4.4
JA297	Est-1	3	31.7	9.3
JA298	For-2	3	8.3	6.0
JA299	Fr-3	4	27.5	8.5
JA300	Fr-4	4	38.8	7.7
JA301	Fr-6	3	33.3	6.0
JA302	Fr-7	3	23.3	9.3
JA303	Ga-0	3	30.0	7.6
JA304	Gr-2	3	11.7	4.4
JA305	Gr-3	3	16.7	4.4
JA306	Gr-4	3	40.0	2.9
JA307	Gr-5	3	28.3	6.0
JA308	Gr-6	3	23.3	4.4
JA309	Gu-1	3	3.3	1.7
JA310	Is-1	3	35.0	7.6
JA311	Jl-2	4	53.8	8.8

Supplemental Table 1 (Continued).

Accession number*	Name code	Number of experiments	Frequency of somatic embryo formation (%)**	Standard error
JA312	Jl-3	4	51.3	9.0
JA313	Jl-4	3	31.7	1.7
JA314	Jl-5	3	38.3	4.4
JA315	Jm-2	4	21.3	8.0
JA316	Kl-1	3	0.0	0.0
JA317	Kl-2	3	8.3	1.7
JA318	Kl-3	3	23.3	1.7
JA319	Kl-4	3	51.7	1.7
JA320	Ko-2	3	16.7	4.4
JA321	Li-1	3	53.3	4.4
JA322	Li-3	3	11.7	7.3
JA323	Li-5-2	3	36.7	6.0
JA324	Li-5-3	3	5.0	2.9
JA325	Li-6-1	4	36.3	9.7
JA326	Li-7	3	11.7	7.3
JA327	Li-8	3	21.7	1.7
JA328	Li-10	3	1.7	1.7
JA329	Li-11	3	11.7	1.7
JA330	Li-12	3	40.0	5.0
JA331	Li-13	3	1.7	1.7
JA332	Ll-1	3	73.3	3.3
JA333	Ll-2	3	46.7	1.7
JA334	Ll-3	3	31.7	7.3
JA335	Lo-2	3	70.0	5.8
JA336	Ma-2	3	16.7	9.3
JA337	Nw-1	3	23.3	7.3
JA338	Nw-2	3	6.7	3.3
JA339	Nw-3	3	25.0	2.9
JA340	Nw-4	3	11.7	3.3
JA341	Ob-3	3	50.0	5.8
JA342	Pa-2	3	56.7	4.4

Supplemental Table 1 (Continued).

Accession number*	Name code	Number of experiments	Frequency of somatic embryo formation (%)**	Standard error
JA343	Pa-3	3	18.3	7.3
JA344	Pi-2	3	11.7	1.7
JA345	Pla-1	4	63.8	15.5
JA346	Pla-2	3	23.3	6.0
JA347	Pla-3	4	66.1	7.4
JA348	Pla-4	4	41.3	8.3
JA349	Po-0	4	37.5	9.2
JA350	Tu-0	3	11.7	4.4
JA351	Uk-1	3	0.0	0.0
JA352	Van-1	4	37.5	7.8
JA353	Van-3	3	41.7	7.3
JA354	Zu-1	3	63.3	8.8

*Phenotypic description of the accessions can be found on the SASSC website: <http://sassc.epd.brc.riken.jp/sassc/top.php/>.

**In each experiment, 20 seedlings were cultured on medium containing 4.5 μ M 2,4-D for 14 days. Frequency of somatic embryo formation was calculated as (number of plants that formed somatic embryos) / (total number of plants treated) \times 100%.