

Supplementary Table S1: Comparative mean germination time (MGT) and germination rate index (GRI) calculated for 13 *Actinidia* species following various dormancy-breaking treatments.

Methods

For each sample, several germination summary statistics were calculated: mean germination time (MGT) which reflects the speed of germination, and germination rate index (GRI) which reflects the percentage of germination on each day. The mean (and standard error of the mean) were tabulated for each species – means are without a standard error when only one sample had seeds germinate. All results are for germination under alternating temperature (24/12 °C) conditions.

Results

GD: *A. glaucophylla* var. *robusta*

Fresh/Stratified	Dormancy-breaking treatment	MGT (Days)	GRI (%/day)
Fresh	Control	44.8 (0.7)	1.0 (0.3)
Fresh	Soaking	46.0 (0.0)	0.2 (0.0)
Fresh	Clipping	43.1 (2.1)	0.2 (0.1)
Fresh	GA3	39.0	0.0 (0.0)
Fresh	Sanding	47.9 (2.4)	0.7 (0.2)
Fresh	Seed coat removal	35.5 (2.7)	0.6 (0.1)
Stratified	Control	42.8 (0.4)	1.6 (0.1)
Stratified	Soaking	42.1 (0.3)	2.5 (0.3)
Stratified	Clipping	39.1 (1.0)	2.5 (0.4)
Stratified	GA3	41.3 (0.5)	3.8 (0.2)
Stratified	Sanding	41.0 (1.0)	2.1 (0.4)
Stratified	Seed coat removal	43.5 (1.5)	1.1 (0.5)

AE: *A. arguta* var. *purpurea*

Fresh/Stratified	Dormancy-breaking treatment	MGT (Days)	GRI (%/day)
Fresh	Control	35.3 (1.3)	3.9 (0.2)
Fresh	Soaking	35.9 (0.7)	4.8 (0.8)
Fresh	Clipping	36.4 (2.9)	1.3 (0.5)
Fresh	GA3	31.0 (1.6)	5.9 (0.8)
Fresh	Sanding	42.2 (0.9)	2.6 (0.4)
Fresh	Seed coat removal	42.3 (1.4)	1.6 (0.2)
Stratified	Control		0.0 (0.0)
Stratified	Soaking	26.0 (0.0)	0.1 (0.1)
Stratified	Clipping	20.5 (4.8)	0.7 (0.3)
Stratified	GA3	18.0 (0.0)	0.1 (0.1)
Stratified	Sanding	26.0 (0.0)	0.4 (0.1)
Stratified	Seed coat removal	18.0 (0.0)	0.6 (0.3)

VA: *A. valvata* var. *valvata*

Fresh/Stratified	Dormancy-breaking treatment	MGT (Days)	GRI (%/day)
Fresh	Control	25.2 (1.2)	2.7 (1.0)
Fresh	Soaking	29.0 (0.0)	8.4 (0.2)
Fresh	Clipping	28.3 (2.5)	4.5 (1.6)
Fresh	GA3	24.3 (0.1)	7.8 (2.6)
Fresh	Sanding	36.7 (3.8)	3.0 (1.3)
Fresh	Seed coat removal	35.4 (2.4)	1.8 (0.4)
Stratified	Control		0.0 (0.0)
Stratified	Soaking		0.0 (0.0)
Stratified	Clipping	25.4 (0.2)	3.4 (0.1)
Stratified	GA3		0.0 (0.0)
Stratified	Sanding		0.0 (0.0)
Stratified	Seed coat removal	28.5 (10.5)	1.1 (0.8)

LB: *A. lanceolata*

Fresh/Stratified	Dormancy-breaking treatment	MGT (Days)	GRI (%/day)
Fresh	Control	28.7 (1.1)	2.4 (1.9)
Fresh	Soaking	38.3 (6.5)	0.3 (0.1)
Fresh	Clipping	38.4 (1.3)	1.0 (0.4)
Fresh	GA3	34.8 (2.2)	1.0 (0.3)
Fresh	Sanding	37.5 (2.5)	0.7 (0.3)
Fresh	Seed coat removal	39.0	0.1 (0.1)
Stratified	Control	23.7 (1.1)	1.1 (0.2)
Stratified	Soaking	18.3 (1.0)	1.5 (0.3)
Stratified	Clipping	25.5 (0.8)	1.1 (0.3)
Stratified	GA3	17.9 (1.0)	2.3 (0.4)
Stratified	Sanding	28.2 (1.2)	1.4 (0.1)
Stratified	Seed coat removal	28.3 (0.4)	2.1 (0.5)

AA: *A. arguta* var. *arguta*

There was no germination for the “Fresh” seeds.

Fresh/Stratified	Dormancy-breaking treatment	MGT (Days)	GRI (%/day)
Fresh	Control		0.0 (0.0)
Fresh	Soaking		0.0 (0.0)
Fresh	Clipping		0.0 (0.0)
Fresh	GA3		0.0 (0.0)
Fresh	Sanding		0.0 (0.0)
Fresh	Seed coat removal		0.0 (0.0)
Stratified	Control	25.5 (0.6)	4.2 (0.2)
Stratified	Soaking	28.0 (0.8)	3.4 (0.5)
Stratified	Clipping	29.0 (1.0)	6.3 (0.7)
Stratified	GA3	25.9 (0.3)	3.7 (0.7)
Stratified	Sanding	26.5 (0.3)	6.0 (0.9)
Stratified	Seed coat removal	29.5 (2.5)	2.1 (0.7)

CK: *A. chinensis* var. *chinensis*

Fresh/Stratified	Dormancy-breaking treatment	MGT (Days)	GRI (%/day)
Fresh	Control	46.0	0.0 (0.0)
Fresh	Soaking	42.7 (3.3)	0.2 (0.2)
Fresh	Clipping	26.3 (2.3)	0.4 (0.3)
Fresh	GA3	46.3 (1.0)	0.6 (0.1)
Fresh	Sanding		0.0 (0.0)
Fresh	Seed coat removal		0.0 (0.0)
Stratified	Control	45.0	0.0 (0.0)
Stratified	Soaking	33.0 (0.0)	0.2 (0.1)
Stratified	Clipping	35.0 (0.6)	2.0 (0.4)
Stratified	GA3	28.8 (3.4)	0.9 (0.4)
Stratified	Sanding	27.0 (1.4)	0.7 (0.2)
Stratified	Seed coat removal	38.3 (3.9)	1.2 (0.5)

DA: *A. chinensis* var. *deliciosa*

Fresh/Stratified	Dormancy-breaking treatment	MGT (Days)	GRI (%/day)
Fresh	Control	34.9 (2.2)	0.3 (0.0)
Fresh	Soaking		0.0 (0.0)
Fresh	Clipping	31.0 (0.0)	0.5 (0.3)
Fresh	GA3	16.0	0.2 (0.2)
Fresh	Sanding	24.0 (0.0)	0.5 (0.2)
Fresh	Seed coat removal	31.0	0.1 (0.1)
Stratified	Control	27.0 (1.5)	0.9 (0.2)
Stratified	Soaking	30.5 (5.5)	0.2 (0.1)
Stratified	Clipping	27.4 (1.7)	3.8 (0.8)
Stratified	GA3	26.5 (1.1)	3.3 (0.4)
Stratified	Sanding	25.5 (0.5)	0.9 (0.2)
Stratified	Seed coat removal	27.8 (2.3)	3.0 (0.1)

DD: *A. chinensis* var. *coloris*

Fresh/Stratified	Dormancy-breaking treatment	MGT (Days)	GRI (%/day)
Fresh	Control	26.3 (2.3)	1.9 (0.5)
Fresh	Soaking	27.8 (1.8)	1.4 (0.4)
Fresh	Clipping	54.7 (2.3)	0.2 (0.1)
Fresh	GA3	32.6 (3.4)	1.3 (0.3)
Fresh	Sanding	39.6 (2.1)	1.5 (1.0)
Fresh	Seed coat removal	29.7 (0.7)	1.1 (0.5)
Stratified	Control		0.0 (0.0)
Stratified	Soaking		0.0 (0.0)
Stratified	Clipping	24.7 (0.8)	6.6 (0.9)
Stratified	GA3	18.0	0.1 (0.1)
Stratified	Sanding	22.7 (3.0)	2.1 (0.4)
Stratified	Seed coat removal	20.1 (1.9)	5.5 (2.3)

EA: *A. eriantha* f. *eriantha*

Fresh/Stratified	Dormancy-breaking treatment	MGT (Days)	GRI (%/day)
Fresh	Control		0.0 (0.0)
Fresh	Soaking	53.0 (4.0)	0.1 (0.0)
Fresh	Clipping		0.0 (0.0)
Fresh	GA3	42.0	0.1 (0.1)
Fresh	Sanding		0.0 (0.0)
Fresh	Seed coat removal	27.0 (1.1)	1.0 (0.3)
Stratified	Control		0.0 (0.0)
Stratified	Soaking	46.0	0.0 (0.0)
Stratified	Clipping	41.5 (0.9)	0.5 (0.1)
Stratified	GA3	46.0 (0.0)	0.1 (0.0)
Stratified	Sanding		0.0 (0.0)
Stratified	Seed coat removal	46.0	0.1 (0.1)

PC: *A. polygama*

Fresh/Stratified	Dormancy-breaking treatment	MGT (Days)	GRI (%/day)
Fresh	Control	31.3 (7.3)	0.3 (0.1)
Fresh	Soaking		0.0 (0.0)
Fresh	Clipping	30.4 (0.6)	1.2 (0.6)
Fresh	GA3		0.0 (0.0)
Fresh	Sanding	31.3 (3.1)	0.5 (0.1)
Fresh	Seed coat removal	42.3 (3.7)	0.2 (0.1)
Stratified	Control	26.9 (0.7)	1.3 (0.0)
Stratified	Soaking	26.6 (0.9)	1.5 (0.4)
Stratified	Clipping	23.1 (1.8)	13.2 (1.6)
Stratified	GA3	26.8 (0.7)	2.4 (0.1)
Stratified	Sanding	25.0 (2.4)	1.3 (0.1)
Stratified	Seed coat removal	40.7 (4.0)	0.8 (0.3)