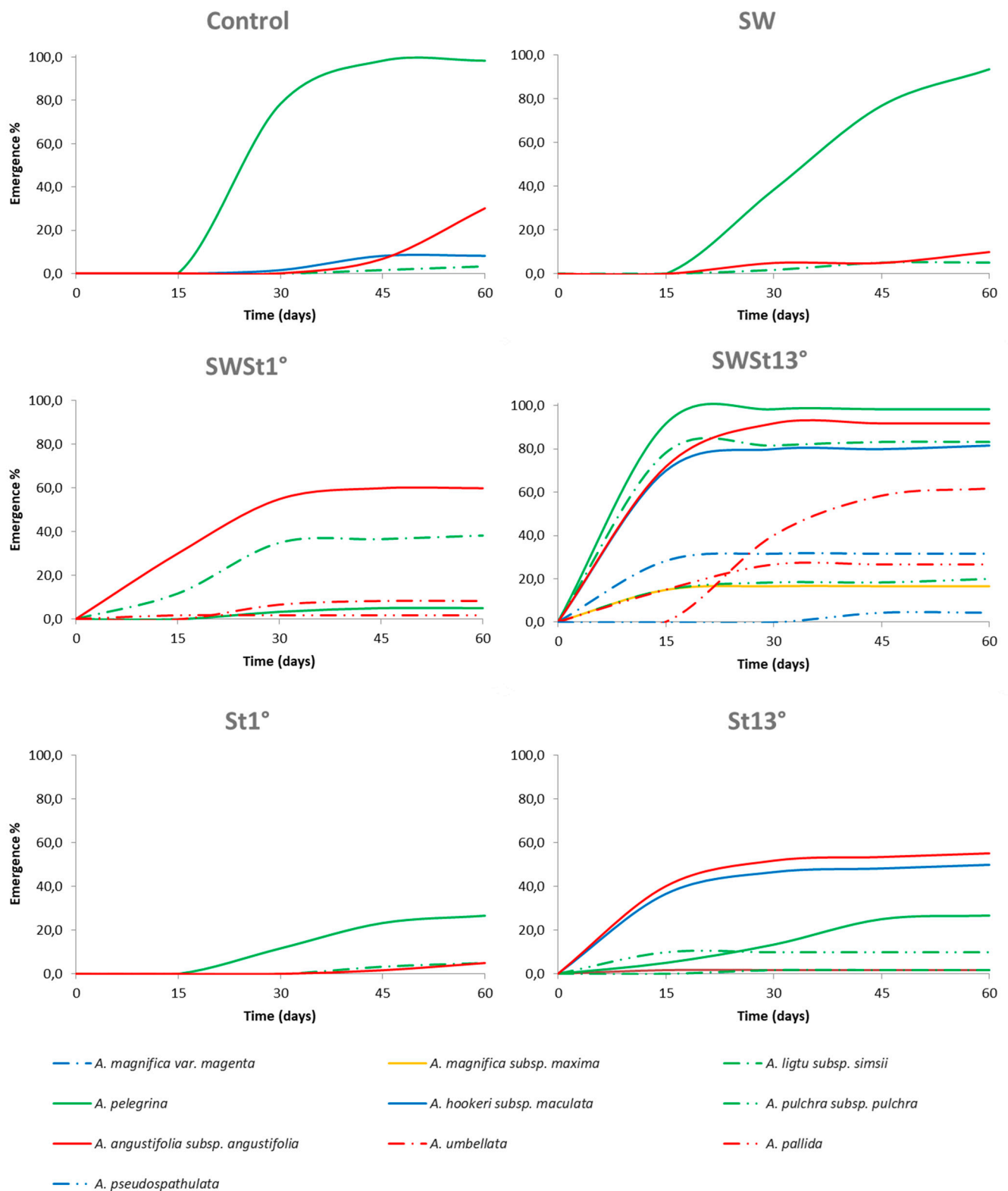


## Supplementary Materials



**Figure S1.** Accumulated emergence (%) of the ten *Alstroemeria* species that were subjected to the different pre-germinative treatments. (SW: Soaking water; SWSt1°C: Soaking water and cold stratification at 1°C; SWSt13°C: Soaking water and cold stratification at 13 °C; St1°C: Cold stratification at 1 °C; St13°C: Cold stratification at 13 °C).

**Table S1.** Geoclimatic data of the locations where *Alstroemeria* seeds were collected.

Alstroemeria species*	Altitude (masl)	Mean Temperature (°C)	Max Temperature (°C)	Min Temperature (°C)	Precipitation (mm)
<i>A. angustifolia</i> subsp. <i>angustifolia</i>	2216	8.4	22.7	-3.2	620
<i>A. hookeri</i> subsp. <i>maculata</i>	17	17.0	27.0	8.1	210
<i>A. ligtu</i> subsp. <i>simsii</i>	557	13.9	28.5	2.5	406
<i>A. magnifica</i> var. <i>magenta</i>	7	17.0	27.0	8.1	210
<i>A. magnifica</i> subsp. <i>maxima</i>	664	13.3	27.7	2.2	452
<i>A. pallida</i>	2547	7.1	20.7	-3.7	491
<i>A. pelegrina</i> L.	8	17.0	27.0	8.1	210
<i>A. pseudospathulata</i>	1880	6.6	21.8	-4.0	963
<i>A. pulchra</i> subsp. <i>pulchra</i>	682	13.3	27.7	2.2	452
<i>A. umbellata</i>	2739	5.5	18.9	-5.4	490

\* Accepted names according to GBIF (<https://www.gbif.org/>)

**Table S2.** Size (diameter) and mass (of 100 seeds) of alstroemeria seeds.

<i>Alstroemeria</i> species	Diameter (mm)		100 seeds mass (g)	
	mean ± SE		mean ± SE	
<i>A. angustifolia</i> subsp. <i>angustifolia</i>	2.94 ± 0.05	BC	1.86 ± 0.02	D
<i>A. hookeri</i> subsp. <i>maculata</i> Ehr.Bayer	2.47 ± 0.05	DEF	1.28 ± 0.01	F
<i>A. ligtu</i> subsp. <i>simsii</i> (Spreng.) Ehr.Bayer	3.27 ± 0.08	AB	3.11 ± 0.05	A
<i>A. magnifica</i> var. <i>magenta</i> (Ehr.Bayer) Muñoz-Schick	2.29 ± 0.03	EF	0.90 ± 0.02	G
<i>A. magnifica</i> subsp. <i>maxima</i> (Phil.) Ehr.Bayer	2.84 ± 0.05	BCD	1.68 ± 0.01	E
<i>A. pallida</i> Graham	2.63 ± 0.06	CDE	1.72 ± 0.03	DE
<i>A. pelegrina</i> L.	3.43 ± 0.03	A	2.64 ± 0.02	B
<i>A. pseudospathulata</i> Ehr.Bayer	2.95 ± 0.05	BC	2.18 ± 0.07	C
<i>A. pulchra</i> subsp. <i>pulchra</i>	2.18 ± 0.05	F	0.99 ± 0.01	G
<i>A. umbellata</i> Meyen	3.22 ± 0.06	AB	2.99 ± 0.03	A

**Table S3.** Maximum % of emergence and number of days to reach it on ten *Alstroemeria* species that were subjected to the different pre-germinative treatments. (SW: Soaking water; SWSt1°C: Soaking water and cold stratification at 1°C; SWSt13°C: Soaking water and cold stratification at 13 °C; St1°C: Cold stratification at 1 °C; St13°C: Cold stratification at 13 °C).

<i>Alstroemeria</i> species*	Control		SW		SWSt1°		SWSt13°		St1°		St13°	
	%*	Days**	%*	Days**	%*	Days**	%*	Days**	%*	Days**	%*	Days**
<i>A. angustifolia</i> subsp. <i>angustifolia</i>	30.00	48.83	10.00	39.17	60.00	17.44	91.67	11.40	5.00	34.33	55.00	13.39
<i>A. hookeri</i> subsp. <i>maculata</i> Ehr.Bayer	8.33	41.83	0.00	0.00	0.00	0.00	81.67	10.24	0.00	0.00	50.00	11.51
<i>A. ligtu</i> subsp. <i>simzii</i> (Spreng.) Ehr.Bayer	3.33	33.67	5.00	27.17	38.33	20.00	83.33	10.06	5.00	29.17	1.67	6.00
<i>A. magnifica</i> var. <i>magenta</i> (Ehr.Bayer) Muñoz-Schick	0.00	0.00	0.00	0.00	0.00	0.00	31.67	10.27	0.00	0.00	0.00	0.00
<i>A. magnifica</i> subsp. <i>maxima</i> (Phil.) Ehr.Bayer	0.00	0.00	0.00	0.00	0.00	0.00	16.67	11.28	0.00	0.00	1.67	4.67
<i>A. pallida</i> Graham	0.00	0.00	0.00	0.00	1.67	5.00	26.67	12.65	0.00	0.00	0.00	0.00
<i>A. pelegrina</i> L.	98.33	29.23	93.33	37.90	5.00	8.44	98.33	8.69	26.67	35.96	26.67	32.02
<i>A. pseudospathulata</i> Ehr.Bayer	0.00	0.00	0.00	0.00	0.00	0.00	4.45	27.33	0.00	0.00	0.00	0.00
<i>A. pulchra</i> subsp. <i>pulchra</i>	0.00	0.00	0.00	0.00	0.00	0.00	20.00	13.42	0.00	0.00	10.00	7.00
<i>A. umbellata</i> Meyen	1.67	16.33	0.00	0.00	8.33	30.67	61.67	29.32	0.00	0.00	0.00	0.00

\* Average of the maximum % of emergence observed

\*\* Average number of days to reach the maximum % of emergence