

Supplementary Material

# Seed Germination Ecophysiology of *Acacia dealbata* Link and *Acacia mearnsii* De Wild.: Two Invasive Species in the Mediterranean Basin

**Table S1.** GLMs results of imbibition test of the following factors: species (*A. dealbata* and *A. mearnsii*), populations (DEA IT, DEA FR1, DEA FR2, MEA IT, MEA FR, MEA PT) and treatment (scarified and non-scarified).

		Df	Deviance	Resid. Df	Resid Dev	F	P (<F)
Species	NULL			71	5.8881		
		1	0.19092	70	5.6971	2.1386	0.1481
Population	NULL			71	5.8881		
		5	0.50077	66	5.3873	1.1229	0.3569
Treatment	NULL			71	2.88754		
		3	2.5387	68	0.34882	164.97	< 2.2e <sup>-16***</sup>

Note: significance of P values code: '\*\*\*' P < 0.05.

**Table S2.** GLMs results of germination test with non-scarified seeds of the species (*A. dealbata* and *A. mearnsii*) factor.

		Df	Deviance	Resid. Df	Resid Dev	F	P (<F)
Species	NULL			71	1345.20		
		1	555.33	70	789.87	48.755	1.344e <sup>-09***</sup>

Note: significance of P values code: '\*\*\*' P < 0.05.

**Table S3.** GLMs results of germination test with non-scarified seeds in *A. dealbata* populations of the following factors: populations (DEA IT, DEA FR1, DEA FR2) and temperature (15, 20 and 25 °C).

<i>Acacia dealbata</i>		Df	Deviance	Resid. Df	Resid Dev	F	P (<F)
Population	NULL			35	386.24		
		3	43.391	32	342.85	1.399	0.2611
Temperature	NULL			35	386.24		
		2	152.49	33	233.75	11.521	0.0001604***

Note: significance of P values code: '\*\*\*' P < 0.05.

**Table S4.** GLMs results of germination test with non-scarified seeds in *A. mearnsii* populations of the following factors: populations (MEA IT, MEA FR, MEA PT) and temperature (15, 20 and 25 °C).

<i>Acacia mearnsii</i>		Df	Deviance	Resid. Df	Resid Dev	F	P (<F)
Population	NULL			35	403.63		
		2	258.38	33	142.25	30.515	3.138e <sup>-08***</sup>
Temperature	NULL			35	403.63		
		2	21.561	33	382.07	0.906	0.4139

Note: significance of P values code: '\*\*\*' P < 0.05.

**Table S5.** GLMs results of germination test with scarified seeds of the following factors: species (*A. dealbata* and *A. mearnsii*) and treatment (light and dark conditions).

		Df	Deviance	Resid. Df	Resid Dev	F	P (<F)
Species	NULL			287	14002		
		1	42.928	286	13959	0.5189	0.4719
Treatment	NULL			287	14002		
		1	2730.7	286	11272	60.712	1.229e-13***

Note: significance of *P* values code: '\*\*\*' *P* < 0.05.

**Table S6.** GLMs results of germination test with scarified seeds in *A. dealbata* populations of the following factors: populations (DEA IT, DEA FR1, DEA FR2), treatment (light and dark conditions) and temperature (5, 10, 15, 20, 25 °C and 25/10 °C).

<i>Acacia mearnsii</i>		Df	Deviance	Resid. Df	Resid Dev	F	P (<F)
Population	NULL			143	7183.5		
		3	34.641	140	7148.9	0.1442	0.9332
Treatment	NULL			143	7183.5		
		1	1398.9	142	5784.6	31.829	8.807e-08***
Temperature	NULL			143	7183.5		
		5	3980.3	138	3203.2	40.794	< 2.2e-16***

Note: significance of *P* values codes: '\*\*\*' *P* < 0.05.

**Table S7.** GLMs results of the germination test with scarified seeds in *A. mearnsii* populations of the following factors: populations (MEA IT, MEA FR, MEA PT), treatment (light and dark conditions) and temperature (5, 10, 15, 20, 25 °C and 25/10 °C).

<i>Acacia mearnsii</i>		Df	Deviance	Resid. Df	Resid Dev	F	P (<F)
Population	NULL			143	6776		
		2	0	141	33645	0	1
Treatment	NULL			143	6775.8		
		1	1359.1	142	5416.7	29.403	2.463e-07***
Temperature	NULL			143	6775.8		
		5	4144.6	138	2631.3	52.156	< 2.2e-16***

Note: significance of *P* values codes: '\*\*\*' *P* < 0.05.