

Supplementary

Table S1. Total shoot length means TSL (cm) of 10PT clone of *R.pseudoacacia* in different osmotic treatments measured after 0, 2, 4, 6, and 8 weeks of drought stress exposition (effect of Clone × Osmoticum × Time). Different treatments are denoted: “control” – medium without osmoticum, “S30” – medium with 30 gL⁻¹ of sucrose, “S60” - medium with 60 gL⁻¹ of sucrose, “S90”- medium with 900 gL⁻¹ of sucrose, “M25”- medium with 25 gL⁻¹ of mannitol, “M90” medium with 90 gL⁻¹ of mannitol, “M120” medium with 120 gL⁻¹ of mannitol

Osmoticum	Time (weeks)									
	0		2		4		6		8	
control	2.39±0.08	a A	2.84±0.08	c B	3.03±0.08	b C	3.14±0.08	bc D	3.28±0.09	c E
S30	2.29±0.08	a A	2.79±0.08	c B	2.94±0.08	b C	3.20±0.08	c D	3.36±0.09	c E
M25	2.45±0.08	a A	2.52±0.08	a A	2.53±0.09	a B	2.54±0.09	a B	2.54±0.09	a B
S60	2.43±0.08	a A	2.71±0.08	bc B	2.87±0.08	b C	2.94±0.08	b D	3.023±0.09	b E
S90	2.30±0.09	a A	2.47±0.09	ab B	2.56±0.09	a C	2.64±0.10	a D	2.70±0.10	a D
M90	2.35±0.08	a A	2.44±0.08	a A	2.52±0.08	a A	2.53±0.09	a A	2.53±0.09	a A
M120	2.39±0.09	a A	2.40±0.10	a A	2.43±0.10	a A	2.46±0.10	a A	2.48±0.11	a A
Total for time	2.37±0.03	A	2.560±0.03	A	2.70±0.03	A	2.78±0.03	A	2.84±0.04	A

Means with the same lowercase letter within a column or means with the same uppercase letter within a row are not significantly different at $p \leq 0.05$; SE – standard error

Table S2. Total shoot length means TSL (cm) of 4SO clone of *R.pseudoacacia* in different osmotic treatments measured after 0, 2, 4, 6, and 8 weeks of drought stress exposition (effect of Clone × Osmoticum × Time). Different treatments are denoted: “control” – medium without osmoticum, “S30” – medium with 30 gL⁻¹ of sucrose, “S60” - medium with 60 gL⁻¹ of sucrose, “S90”- medium with 900 gL⁻¹ of sucrose, “M25”- medium with 25 gL⁻¹ of mannitol, “M90” medium with 90 gL⁻¹ of mannitol, “M120” medium with 120 gL⁻¹ of mannitol

Osmoticum	Time (weeks)									
	0		2		4		6		8	
control	2.03±0.09	b A	2.45±0.09	d B	2.58±0.09	c C	2.62±0.09	d C	2.66±0.1	c C
S30	1.85±0.09	ab A	2.46±0.09	d B	2.66±0.09	c C	2.88±0.09	e D	3.15±0.1	d E
M25	1.80±0.10	a A	1.93±0.10	ab B	2.02±0.10	ab C	2.02±0.11	ab C	2.03±0.11	a C

S60	1.73±0.08	a	A	2.12±0.08	bc	B	2.23±0.08	b	C	2.33±0.08	c	D	2.44±0.09	b	E
S90	1.80±0.18	ab	A	1.93±0.18	ab	A	2.00±0.18	ab	A	2.05±0.19	ab	A	2.08±0.20	a	A
M90	1.70±0.12	a	A	1.74±0.12	a	A	1.80±0.13	a	A	1.80±0.13	a	A	1.84±0.13	a	A
M120	2.13±0.12	b	A	2.21±0.12	cd	A	2.29±0.12	b	A	2.29±0.12	bc	A	2.37±0.13	b	A
Total for time	1.86±0.04		A	2.121±0.04		A	2.23±0.04		A	2.28±0.05		A	2.37±0.05		A

Means with the same lowercase letter within a column or means with the same uppercase letter within a row are

not significantly different at $p \leq 0.05$; SE – standard error

Table S3. Total shoot length means TSL (cm) of 6SO clone of *R.pseudoacacia* in different osmotic treatments measured after 0, 2, 4, 6, and 8 weeks of drought stress exposition (effect of Clone \times Osmoticum \times Time). Different treatments are denoted: “control” – medium without osmoticum, “S30” – medium with 30 gL⁻¹ of sucrose, “S60” – medium with 60 gL⁻¹ of sucrose, “S90”- medium with 90 gL⁻¹ of sucrose, “M25”- medium with 25 gL⁻¹ of mannitol, “M90” medium with 90 gL⁻¹ of mannitol, “M120” medium with 120 gL⁻¹ of mannitol

Osmoticum	Time (weeks)														
	Mean±SE														
	0	2	4	6	8										
control	1.72±0.08	a	A	2.23±0.08	bc	B	2.29±0.08	ab	B	2.32±0.09	ab	B	2.33±0.09	ab	B
S30	2.40±0.08	c	A	2.68±0.08	de	B	2.94±0.08	c	C	3.11±0.08	c	D	3.24±0.09	d	E
M25	1.83±0.08	a	A	1.94±0.08	a	B	2.22±0.08	a	C	2.26±0.08	a	C	2.29±0.09	a	C
S60	2.24±0.08	c	A	2.41±0.08	cd	B	2.48±0.08	b	BC	2.53±0.08	b	CD	2.59±0.09	c	D
S90	2.36±0.08	c	A	2.50±0.08	d	B	2.52±0.08	b	B	2.54±0.08	b	B	2.56±0.09	bc	B
M90	1.96±0.08	b	A	2.05±0.08	ab	A	2.09±0.09	a	A	2.24±0.09	a	B	2.26±0.09	a	B
M120	1.93±0.10	a	A	2.10±0.10	ab	B	2.15±0.10	a	B	2.18±0.11	a	B	2.22±0.11	a	B
Total for time	2.06±0.03		A	2.27±0.03		A	2.38±0.03		A	2.45±0.03		A	2.50±0.04		A

Means with the same lowercase letter within a column or means with the same uppercase letter within a row are

not significantly different at $p \leq 0.05$; SE – standard error

Table S4. Fresh weight (FW) (g) of *R. pseudoacacia* clone (10PT) for different treatments measured after 0, 2, 4, 6, and 8 weeks of drought stress exposition. Different treatments are denoted: “control” – medium without osmoticum, “S30” – medium with 30 gL⁻¹ of sucrose, “S60” - medium with 60 gL⁻¹ of sucrose, “S90”- medium with 90 gL⁻¹ of sucrose, “M25”- medium with 25 gL⁻¹ of mannitol, “M90” medium with 90 gL⁻¹ of mannitol, “M120” medium with 120 gL⁻¹ of mannitol. Effect of Clone × Osmoticum × Time

Osmoticum	Time (weeks)														
	Mean±SE														
	0	2		4		6		8							
control	0.04±0.02	a	A	0.07±0.02	b	B	0.10±0.02	a	C	0.12±0.02	b	D	0.15±0.02	b	E
S30	0.04±0.02	a	A	0.11±0.02	b	B	0.21±0.02	b	C	0.32±0.02	c	D	0.43±0.02	c	E
M25	0.03±0.02	a	A	0.04±0.02	a	A	0.06±0.02	a	A	0.07±0.02	ab	A	0.08±0.02	a	A
S60	0.03±0.02	a	A	0.08±0.02	b	B	0.20±0.02	b	C	0.29±0.02	c	D	0.40±0.02	c	E
S90	0.04±0.02	a	A	0.08±0.02	b	B	0.20±0.02	b	C	0.27±0.02	c	D	0.41±0.02	c	E
M90	0.03±0.02	a	A	0.04±0.02	a	A	0.04±0.02	a	A	0.05±0.02	a	A	0.05±0.02	a	A
M120	0.04±0.03	a	A	0.05±0.03	ab	A	0.06±0.03	a	A	0.07±0.03	ab	A	0.07±0.03	a	A
Total for time	0.04±0.01	A		0.07±0.01	B		0.12±0.01	C		0.17±0.01	D		0.23±0.01	E	

Means with the same lowercase letter within a column or means with the same uppercase letter within a row are not significantly different at $p \leq 0.05$; SE – standard error

Table S5. Fresh weight (FW) (g) of *R. pseudoacacia* clone (4SO) for different treatments measured after 0, 2, 4, 6, and 8 weeks of drought stress exposition. Different treatments are denoted: “control” – medium without osmoticum, “S30” – medium with 30 gL⁻¹ of sucrose, “S60” - medium with 60 gL⁻¹ of sucrose, “S90”- medium with 90 gL⁻¹ of sucrose, “M25”- medium with 25 gL⁻¹ of mannitol, “M90” medium with 90 gL⁻¹ of mannitol, “M120” medium with 120 gL⁻¹ of mannitol. Effect of Clone × Osmoticum × Time

Osmoticum	Time (weeks)														
	Mean±SE														
	0	2		4		6		8							
control	0.03±0.02	a	A	0.07±0.02	a	B	0.08±0.02	a	B	0.12±0.02	a	C	0.14±0.02	a	D
S30	0.02±0.02	a	A	0.08±0.02	a	B	0.24±0.02	b	C	0.49±0.02	c	D	0.67±0.02	c	E
M25	0.02±0.03	a	A	0.06±0.03	a	B	0.08±0.03	a	B	0.09±0.03	a	B	0.09±0.03	a	B
S60	0.03±0.02	a	A	0.09±0.02	a	B	0.21±0.02	b	C	0.27±0.02	b	D	0.37±0.02	b	E
S90	0.02±0.05	a	A	0.05±0.05	a	A	0.09±0.05	a	A	0.12±0.05	a	A	0.15±0.05	a	A

M90	0.03±0.03	a	A	0.05±0.03	a	A	0.09±0.03	a	B	0.10±0.03	a	B	0.10±0.03	a	B
M120	0.04±0.03	a	A	0.07±0.03	a	A	0.08±0.03	a	A	0.09±0.03	a	A	0.10±0.03	a	A
Total for time	0.03±0.01		A	0.07±0.01		B	0.12±0.01		C	0.18±0.01		D	0.23±0.01		E

Means with the same lowercase letter within a column or means with the same uppercase letter within a row are not significantly different at $p \leq 0.05$; SE – standard error

Table S6. Fresh weight (FW) (g) of *R. pseudoacacia* clone (6SO) for different treatments measured after 0, 2, 4, 6, and 8 weeks of drought stress exposition. Different treatments are denoted: “control” – medium without osmoticum, “S30” – medium with 30 gL⁻¹ of sucrose, “S60” - medium with 60 gL⁻¹ of sucrose, “S90”- medium with 90 gL⁻¹ of sucrose, “M25”- medium with 25 gL⁻¹ of mannitol, “M90” medium with 90 gL⁻¹ of mannitol, “M120” medium with 120 gL⁻¹ of mannitol. Effect of Clone × Osmoticum × Time

Osmoticum	Time (weeks)														
	Mean±SE														
	0		2		4		6		8						
control	0.02±0.02	a	A	0.04±0.02	b	B	0.07±0.02	a	C	0.09±0.02	a	C	0.11±0.02	b	D
S 30	0.02±0.02	a	A	0.10±0.02	b	B	0.33±0.02	c	C	0.59±0.02	d	D	0.80±0.02	e	E
M 25	0.02±0.02	a	A	0.04±0.02	ab	A	0.05±0.02	a	A	0.07±0.02	a	A	0.07±0.02	ab	A
S 60	0.02±0.02	a	A	0.08±0.02	b	B	0.29±0.02	c	C	0.38±0.02	c	D	0.47±0.02	d	E
S 90	0.03±0.02	a	A	0.09±0.02	b	B	0.19±0.02	b	C	0.29±0.02	b	D	0.41±0.02	c	E
M 90	0.02±0.02	a	A	0.03±0.02	a	A	0.04±0.02	a	A	0.04±0.02	a	A	0.04±0.02	a	A
M 120	0.03±0.03	a	A	0.03±0.03	a	A	0.04±0.03	a	A	0.04±0.03	a	A	0.05±0.03	ab	A
Total for time	0.02±0.01		A	0.06±0.01		B	0.14±0.01		C	0.21±0.01		D	0.28±0.01		E

Means with the same lowercase letter within a column or means with the same uppercase letter within a row are not significantly different at $p \leq 0.05$; SE – standard error