

Supplement information



Figure S1. Investigated plants in greenhouse at the beginning of the experiment, during the first growing season 2015 on April 1st (a) and July 1st (b), as well as outside (c) during the next three growing seasons 2016, 2017 and 2018, when the wetting of the soil with natural precipitation was prevented by polystyrene panels (d).

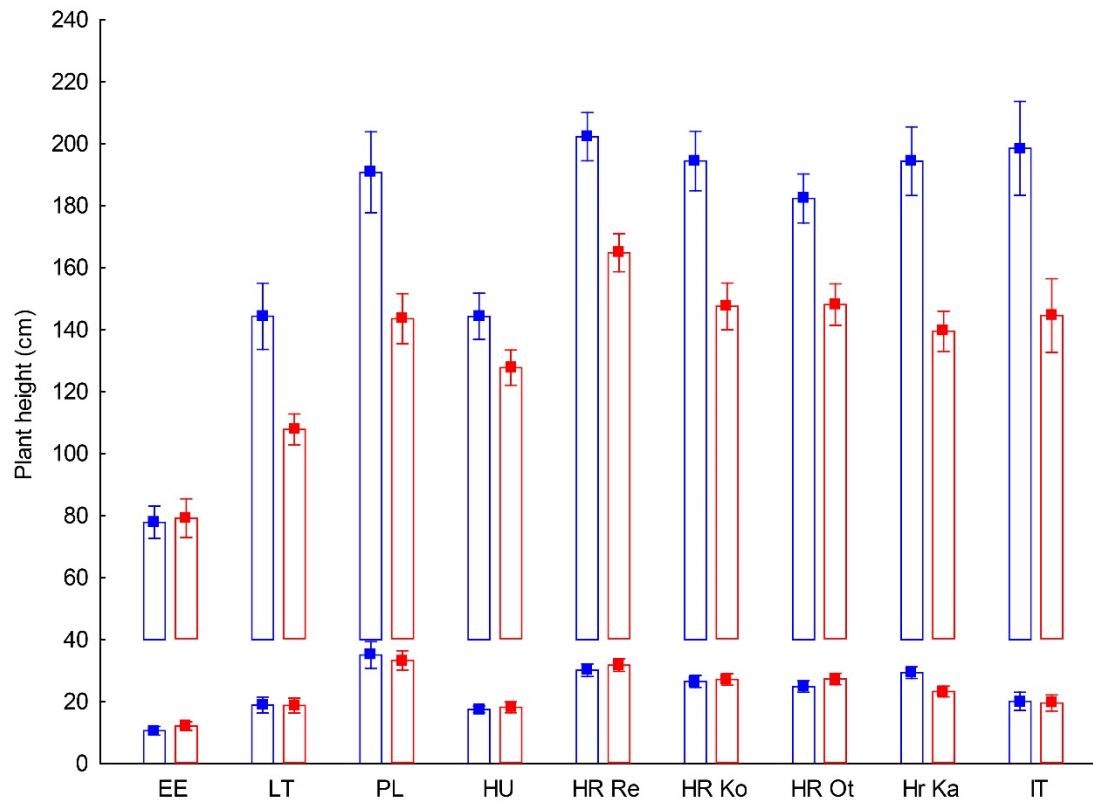


Figure S2. Provenance means for initial plant height at the beginning of the experiment in March 2015 (lower columns) and at the beginning of subsequent drought treatment in March of 2018 (upper columns) for control (blue columns) and drought (red columns) treatments. Vertical bars indicate $\pm$ SE.

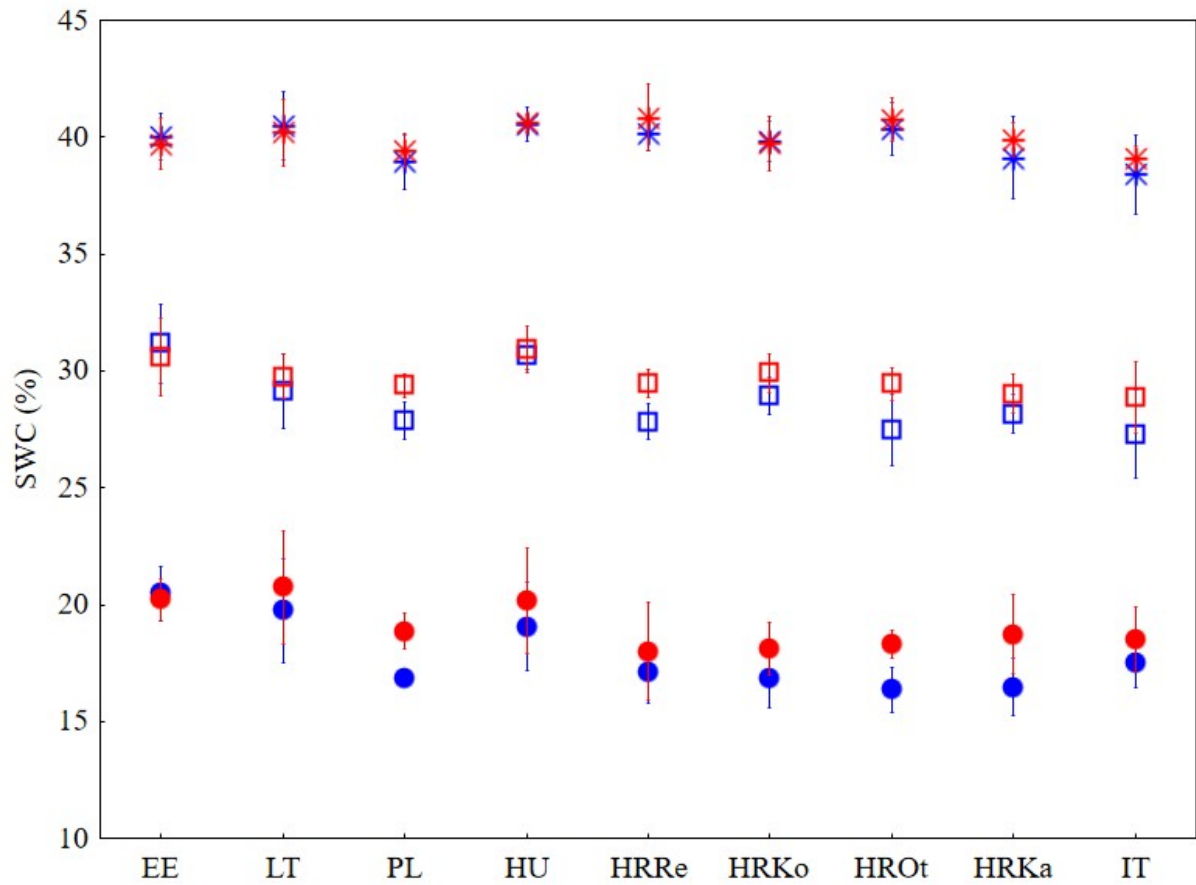


Figure S3. Provenance means $\pm$ SE for relative soil water content (SWC), before drought treatment, on June 20th (asterisk), as well as during the drought treatment, on July 5th (empty squares) and July 18th (filled circles) in the growing season of 2018, for previously control (blue symbols) and drought (red symbols) treatments.

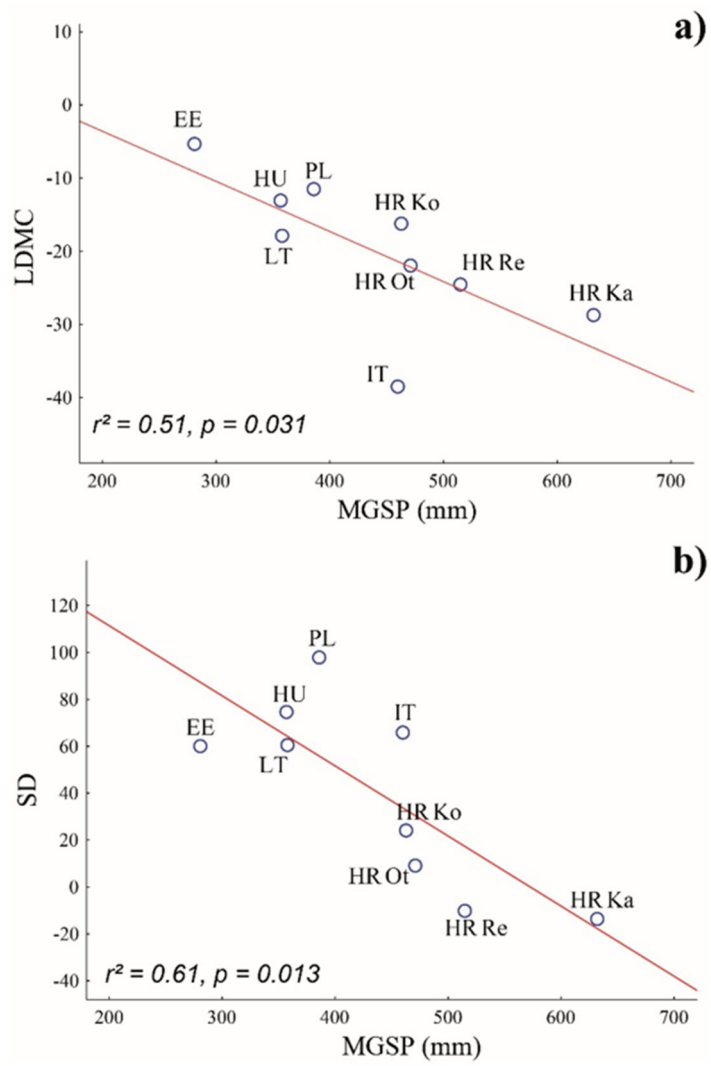


Figure S4. Relationship between mean growing season precipitation (MGSP) of provenance origin and plasticity of (a) leaf dry matter content (LDMC) and (b) stomatal density (SD).

Table S1. Pearson pairwise correlation coefficients (*r*) and level of significance (*p*) between mean provenance SLA, LDMC, SD, rate of net CO₂ assimilation (A), stomatal conductance (g_s) and/or rate of transpiration (E), and mean growing season precipitation (MGSP) of provenance origin for the control and drought treatments.

Date	Trait	Control		Drought	
		<i>r</i>	<i>p</i>	<i>r</i>	<i>p</i>
-	SLA	0.67	0.048	0.84	0.004
-	LDMC	-0.18	0.648	0.52	0.146
-	SD	-0.37	0.331	0.12	0.753
June 20 th	A	-0.53	0.143	-0.29	0.457
	g _s	-0.61	0.082	-0.05	0.896
	E	-0.54	0.131	-0.19	0.631
July 5 th	A	-0.43	0.248	-0.16	0.679
	g _s	-0.63	0.067	0.10	0.793
	E	-0.62	0.074	0.14	0.716
July 18 th	A	-0.15	0.710	-0.26	0.497
	g _s	-0.52	0.151	-0.51	0.162
	E	-0.49	0.177	-0.54	0.133

Bolded values indicate significant correlations at $p < 0.05$

Table S2. Pearson pairwise correlation coefficients (*r*) among specific leaf area (SLA), leaf dry matter content (LDMC) and stomatal density (SD) on the one hand (morphological traits) and rate of net CO₂ assimilation (A), stomatal conductance (g_s) and rate of transpiration (E) on the other hand (physiological traits) measured on 20th June, 5th July and 18th July 2018 in the control and drought treatments.

Date	Gas exchange trait	Values	Control			Drought		
			SLA	LDMC	SD	SLA	LDMC	SD
June 20 th	A	<i>r</i>	-0.43	0.08	0.19	-0.41	0.03	0.25
		<i>p</i>	<0.001	0.270	0.11	<0.001	0.677	0.001
	g _s	<i>r</i>	-0.14	-0.15	0.10	-0.16	0.02	0.11
		<i>p</i>	0.068	0.040	0.166	0.030	0.821	0.134
	E	<i>r</i>	-0.13	-0.11	0.09	-0.09	-0.03	0.12
		<i>p</i>	0.090	0.135	0.207	0.198	0.733	0.099
July 5 th	A	<i>r</i>	-0.47	0.22	0.09	-0.30	-0.01	0.14
		<i>p</i>	<0.001	0.002	0.238	<0.001	0.914	0.055
	g _s	<i>r</i>	-0.35	0.17	-0.02	-0.12	-0.01	0.01
		<i>p</i>	<0.001	0.021	0.753	0.115	0.910	0.939
	E	<i>r</i>	-0.25	0.08	-0.04	-0.06	-0.01	-0.01
		<i>p</i>	0.002	0.265	0.596	0.452	0.941	0.975
July 18 th	A	<i>r</i>	-0.10	-0.08	0.07	-0.14	-0.03	0.02
		<i>p</i>	0.172	0.276	0.375	0.050	0.695	0.809
	g _s	<i>r</i>	-0.11	-0.04	0.04	-0.019	-0.06	0.01
		<i>p</i>	0.161	0.634	0.557	0.010	0.417	0.882
	E	<i>r</i>	-0.05	-0.01	0.04	-0.15	-0.12	-0.02
		<i>p</i>	0.517	0.980	0.614	0.050	0.116	0.825

Bolded values indicate significant correlations at *p* < 0.05

Table S3. Provenance means and significant differences among provenances calculated using Fisher's LSD post hoc tests ($p < 0.05$) for traits showed significant provenance differentiation.

Trait/Date	Drought treatment		Control Treatment	
	Provenance	Mean	Provenance	Mean
SLA	EE	10.60 a	EE	10.35 a
	PL	11.43 a b c	PL	11.10 a b
	HU	11.96 b c d	HU	12.02 b c
	IT	12.05 b c d	IT	12.33 b c d
	LT	12.37 b c d e	HR Ka	12.53 c d e
	HR Ko	12.60 c d e f	HR Ko	12.53 c d
	HR Ot	12.80 d e f	LT	12.57 c d e
	HR Re	12.86 e f	HR Re	13.07 d e
	HR Ka	12.92 e f	HR Ot	13.39 e
LDMC	IT	464.54 a b c	IT	419.63 a
	LT	465.18 a b c d	LT	447.28 a b
	HR Ko	467.58 a b c	HR Re	449.80 b
	PL	471.92 a b c d	HR Ot	452.95 b c
	HU	472.21 a b c d	HR Ko	454.91 b c
	HR Re	474.37 a b c d	HU	459.14 b c d
	HR Ot	474.91 b c d	PL	460.41 b c d e
	EE	478.04 c d	HR Ka	465.12 b c d e
	HR Ka	493.89 d	EE	485.52 e
SD	EE	496.24 a	HR Ka	502.10 a
	LT	504.86 a b	HR Ot	542.37 a b c
	HR Ka	515.78 a b c	EE	556.50 a b c d
	HR Ot	533.39 a b c	LT	564.73 a b c d
	HU	540.75 a b c d	HR Re	570.96 b c d
	HR Ko	569.89 b c d e	HR Ko	597.54 c d e
	HR Re	571.87 b c d e	HU	615.38 d e
	IT	586.93 c d e f	IT	652.75 e f
	PL	630.29 d e f	PL	730.00 f
A June 20 th	HR Ot	8.20 a	HR Ot	8.43 a
	HR Re	8.98 a b c	HR Re	9.08 a b c
	LT	9.57 a b c d	LT	9.57 a b c d
	HU	9.98 b c d	PL	9.97 a b c d e
	HR Ko	10.26 c d	HR Ka	10.22 c d
	HR Ka	10.55 c d e	IT	10.82 c d e f
	IT	11.29 d e f	HU	10.96 d e f
	PL	11.33 d e f	HR Ko	10.96 d e f
	EE	12.00 e f	EE	12.40 f
A July 5 th	HR Ot	4.25 a	HR Ot	7.26 a b
	LT	5.82 a b	LT	7.47 a b c
	HR Ka	6.14 b	HR Re	8.88 b c d e
	PL	6.51 b d	HR Ka	9.18 c d e
	HR Re	6.60 b d	PL	10.48 d e
	EE	6.84 b d	HR Ko	10.50 e
	HR Ko	7.85 b d e	IT	10.81 e f
	HU	8.08 d e f	HU	11.07 f
	IT	8.92 d e f	EE	12.45 f
A July 18 th	HR Ka	0.45 a	HR Ot	0.83 a b
	HR Re	0.52 a	HR Re	1.23 a b c d
	HR Ot	0.53 a	LT	1.28 a b c d
	HU	0.57 a	PL	1.47 a b c d e
	HR Ko	0.70 a b	HR Ka	1.47 b c d
	PL	0.76 a b c	HR Ko	1.75 c d e

	EE	0.88	a	b		EE	1.90		d	e						
	LT	0.97	a	b	c	d	HU	2.43		e	f					
	IT	2.03				d	IT	3.35			f					
g _s July 5 th	HR Ot	0.049	a				HR Ot	0.066	a	b						
	EE	0.054	a	b			LT	0.073	a	b	c					
	PL	0.054	a	b	c		HR Ka	0.073		b	c					
	HR Re	0.056	a	b	c	d	IT	0.077		b	c	d				
	LT	0.060	a	b	c	d	HR Re	0.078			c	d				
	HR Ka	0.061	a	b	c	d	PL	0.089			c	d	f			
	IT	0.064	a	b	c	d	HU	0.091				d	f			
	HU	0.065		b	c	d	HR Ko	0.093				d	f			
	HR Ko	0.065		b	c	d	EE	0.104					f			
g _s July 18 th	HR Ot	0.016	a				HR Ot	0.021	a	b	c					
	HR Ka	0.017	a	b			HR Re	0.022	a	b	c	d				
	HR Re	0.017	a	b			HR Ka	0.023	a	b	c	d				
	PL	0.019	a	b	c	d	LT	0.025		b	c	d	e			
	HU	0.019	a	b	c		HR Ko	0.026			c	d	e			
	HR Ko	0.019	a	b	c		PL	0.029				d	e	f		
	LT	0.022	a	b	c	d	HU	0.030					e	f		
	EE	0.022		b	c	d	EE	0.031					e	f		
	IT	0.026				d	IT	0.035						f		
E July 18 th	HR Ot	0.34	a				HR Ot	0.45	a	b	c					
	HR Re	0.37	a	b			HR Ka	0.46	a	b	c	d				
	HR Ka	0.37	a	b			HR Re	0.46	a	b	c	d				
	HR Ko	0.41	a	b	c		LT	0.51		b	c	d	e			
	HU	0.43	a	b	c	d	HR Ko	0.51			c	d	e			
	PL	0.43	a	b	c	d	e	PL	0.57			c	d	e	f	
	LT	0.46		b	c	d	e	EE	0.58					e	f	
	EE	0.49			c	d	e	f	HU	0.59					e	f
	IT	0.57					e	f	IT	0.68						f