

Andivia E, Natalini F, Fernandez M, Alejano R, Vazquez-pique J (2018).

**Contrasting holm oak provenances show different field performance but similar resilience to drought events eight years after planting in a Mediterranean environment**

iForest – Biogeosciences and Forestry – doi: [10.3832/ifor2573-011](https://doi.org/10.3832/ifor2573-011)

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## Supplementary material

**Fig. S1** - *Q. ilex* saplings from two contrasting provenances eight year after the plantation in a common garden. The picture was taken in February 2016 when saplings were cut down.

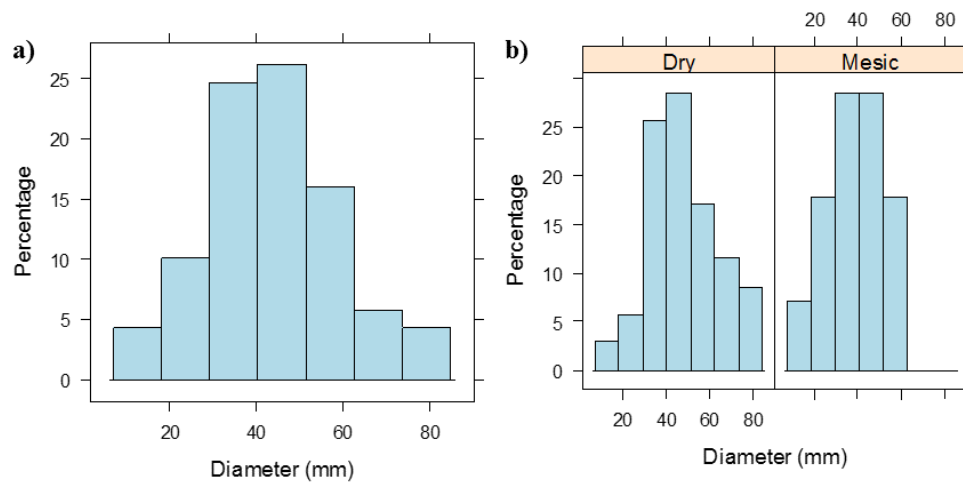


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**Fig. S2** - Diameter distribution of all *Q. ilex* saplings (a) and for each provenance (b) eight year after the plantation in a common garden.

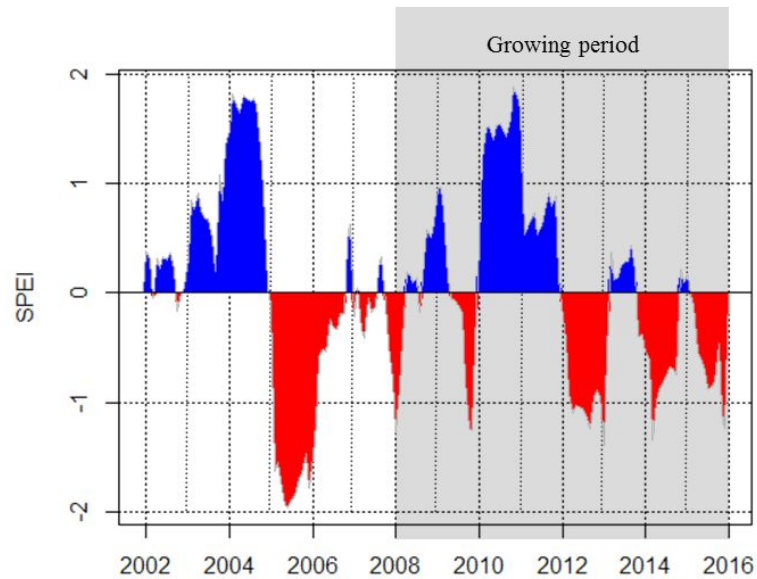


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**Fig. S3** - Standardized Precipitation Evapotranspiration Index (SPEI) at the plantation location for the period 2002-2016. Grey box represents the growing period for the *Q. ilex* saplings of this study.

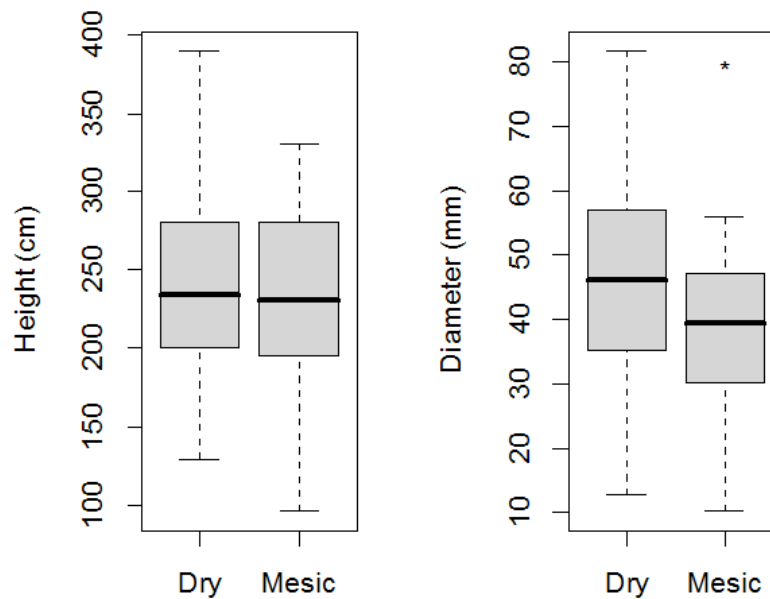


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**Fig. S4** - Boxplot for the height and diameter of *Q. ilex* saplings from two contrasting provenances eight year after the plantation in a common garden. Asterisk depicts significant differences ( $p < 0.05$ ) between provenances.



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**Tab. S1** - Mean (SE) values for the water status parameters of *Q. ilex* sapling from two contrasting provenances measured in mid-July in 2008, 2009, 2011 and 2012.  $\Psi_{pd}$ : predawn leaf water potential (MPa), (SLA) specific leaf area ( $\text{m}^2 \text{kg}^{-1}$ ), ( $\text{RWC}_c$ ) relative water content at the point of stomatal closure (%), and ( $E_c$ ) cuticular transpiration ( $\text{mmol H}_2\text{O kg}^{-1} \text{s}^{-1}$ ).

	2008		2009		2011		2012	
	<i>dry</i>	<i>mesic</i>	<i>dry</i>	<i>mesic</i>	<i>dry</i>	<i>mesic</i>	<i>dry</i>	<i>mesic</i>
$\Psi_{pd}$	-2.76 (0.37)	-2.82 (0.15)	-2.22 (0.37)	-2.57 (0.30)	-1.41 (0.37)	-1.36 (0.50)	-1.03 (0.37)	-1.51 (0.61)
SLA	2.82 (0.27)	2.96 (0.28)	2.85 (0.56)	3.07 (0.18)	4.22 (0.50)	3.97 (0.43)	4.29 (0.22)	4.38 (0.23)
$\text{RWC}_c$	88.6 (4.3)	85.5 (4.0)	91.3 (2.6)	83.9 (4.4)	87.2 (2.6)	81.8 (8.7)	59.6 (8.8)	63.1 (10.2)
$E_c$	77.0 (3.9)	69.6 (9.5)	79.9 (6.9)	68.7 (5.4)	110.1 (36.5)	105.7 (16.7)	96.3 (29.6)	103.9 (14.9)