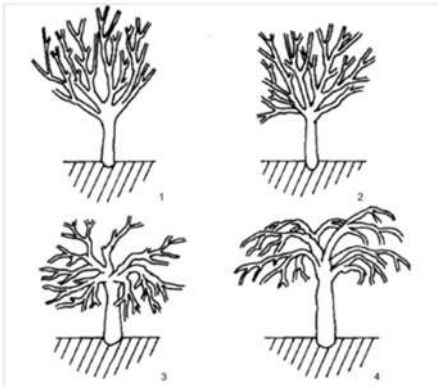
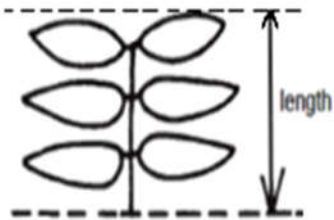
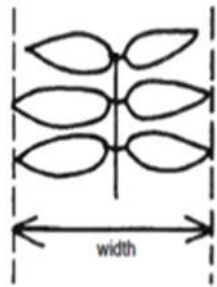
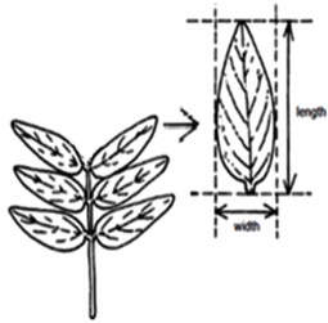


Supplementary Material



Figure S1. Map of Southern Chios Island presenting the geographical locations of the selected ten female (F) and ten male (M) genotypes of *P. lentiscus* var. Chia.

Table S1. Detailed description of the morphological traits that were measured on 20 selected genotypes of *P. lentiscus* var. Chia, focused on properties that were mainly related to the appearance of the trees and their ornamental value.

1	Growth habit 1. Erect 2. Semi-erect 3. Spreading 4. Drooping	
2	Leaf descriptors For the following descriptors, average of 20 fully expanded representative leaves, collected from different parts of the tree when shoots are lignified. Do not select leaves that are out of the ordinary due to disease, nutritional imbalances and excessive vigor. For qualitative characteristics, indicate the predominant one Leaf length [cm] Measured from the base of petiole to the tip of terminal leaflet.	
3	Leaf width [cm] Measured at the widest part.	
4	Number of leaflets Measured the total number of leaflets	
5	Terminal leaflets length [cm] Measured from the base to the tip of terminal leaflet.	

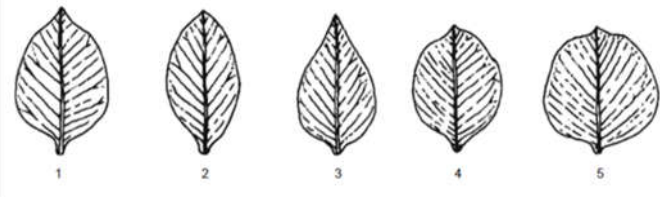
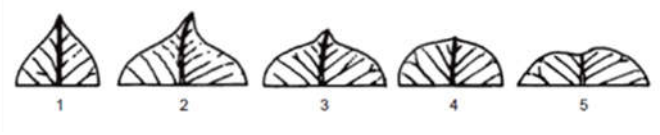
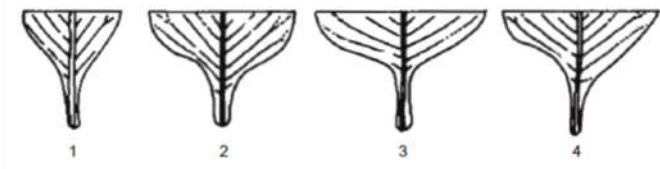
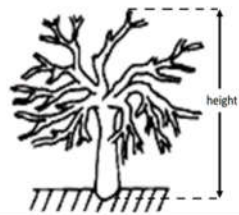
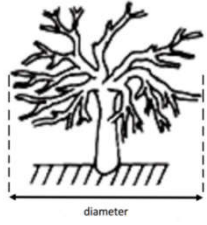
6	Terminal leaflets width [cm] Measured at the widest part.	
7	Terminal leaflets shape 1. Broad lanceolate 2. Elliptic 3. Ovate 4. Round ovate 5. Roundish	
8	Terminal leaflet apex 1. Acuminate 2. Mucronate 3. Mucronulate 4. Obtuse 5. Retuse	
9	Terminal leaflets base 1. Attenuate 2. Obtuse 3. Truncate 4. Oblique	
10	Plant height Compared to the average tree of the same age (30-35 years) 1. Small (<2.0m) 2. Medium (2.0-2.5m) 3. Big (>2.5m)	
11	Plant diameter Compared to the average tree of the same age (30-35 years) 1. Small (<2.5m) 2. Medium (2.5-3.0m) 3. Big (>3.0m)	
12	Fruit yielding 1. Low (<100 fruits /tree) 2. Medium (101-1000 fruits /tree) 3. High (>1000 fruits /tree)	
13	Seed size [mm] Measured at the longest part	
Traits 1-11 as described by Barone et al. (1997), with some modifications		

Table S2. Profiles of the 21 ISSR primers initially used for the genetic analysis of the 20 genotypes of *P. lentiscus* var. Chia, while finally the first 8 were used and the rest 13 were rejected as unsuitable.

No.	Primer	Sequence	Nt	Tm (°C)
Used				
1.	UBC 807	AGAGAGAGAGAGAGAGT	17	50.4
2.	UBC 808	AGAGAGAGAGAGAGAGC	17	52.8
3.	UBC 811	GAGAGAGAGAGAGAGAC	17	52.8
4.	UBC 818	CACACACACACACACAG	17	52.8
5.	UBC 827	ACACACACACACACACG	17	52.8
6.	UBC 834	GAGAGAGAGAGAGAGAYT	18	52.6
7.	UBC 841	GAGAGAGAGAGAGAGAYC	18	54.8
8.	UBC 856	ACACACACACACACACYA	18	52.5
Rejected				
9.	RAMP-TAG	TAGAGAGAGAGAGAGAGAG	19	54.5
10.	UBC 809	AGAGAGAGAGAGAGAGG	17	52.8
11.	UBC 810	GAGAGAGAGAGAGAGAT	17	50.4
12.	UBC 812	GAGAGAGAGAGAGAGAA	17	50.4
13.	UBC 813	CTCTCTCTCTCTCTT	17	50.4
14.	UBC 815	CTCTCTCTCTCTCTG	17	52.8
15.	UBC 816	CACACACACACACAT	17	50.4
16.	UBC 823	TCTCTCTCTCTCTCC	17	52.8
17.	UBC 828	TGTGTGTGTGTGTGA	17	50.4
18.	UBC 844A	CTCTCTCTCTCTCTAC	18	53.7
19.	UBC 861	ACCACCACCACCACC	18	60.5
20.	UBC 862	AGCAGCAGCAGCAGC	18	60.5
21.	UBC 864	ATGATGATGATGATG	18	46.9

Table S3. Rooting (%) of shoot cuttings of ten male and ten female genotypes of *P. lentiscus* var. Chia, in winter, with the application of different concentrations of K-IBA.

Genotype	K-IBA concentration (g·L ⁻¹)			
	0 (Control)	4	8	16
1M	12.5a*	45.0c*	42.5abc*	22.5cde*
6M	7.5a	37.5cd	27.5def	27.5cd
7M	15.0a	55.0ab	17.5gh	20.0cde
8M	10.0a	62.5a	47.5ab	17.5de
10M	0b	22.5fg	25.0defg	27.5cd
15M	7.5a	27.5def	10.0h	25.0cde
18M	0b	15.0gh	7.5h	10.0e
21M	0b	45.0c	30.0de	15.0e
36M	10.0a	30.0de	32.5cd	12.5e
61M	0b	52.5bc	50.0a	22.5cde
2F	10.0a	42.5c	35.0cd	37.5ab
3F	0b	27.5def	12.5h	10.0e
6F	0b	25.0efg	22.5efg	27.5cd
7F	0b	10.0h	12.5h	0f
8F	0b	7.5h	0i	0f
10F	0b	17.5gh	12.5h	0f
12F	0b	45.0c	17.5gh	42.5a
14F	0b	12.5h	20.0fgh	27.5cd
16F	0b	22.5fg	20.0fgh	32.5bc
19F	15.0a	40.0c	22.5efg	35.0abc

*Different letters in each applied concentration of K-IBA (columns) indicate statistically significant differences among genotypes according to Duncan's multiple range test at $p \leq 0.05$.

Table S4. Recording of seed germination (%) at weekly intervals of ten genotypes (female) of *P. lentiscus* var. Chia, after the application of H₂SO₄ scarification for 0, 2.5, 5 or 10 min of duration on seeds harvested on November 30th (n=100).

Treatment	Days	Genotype									
		2F	3F	6F	7F	8F	10F	12F	14F	16F	19F
0 min H ₂ SO ₄	7	10	3	11	1	0	12	13	1	1	9
	14	41	7	22	5	0	22	24	2	5	17
	21	50	8	29	7	0	28	26	3	9	20
	28	50	8	29	7	0	28	26	3	9	20
	MGT*	13.85	9.04	13.02	14.88	-	12.61	11.11	10.50	16.77	11.61
	SD**	0.44	4.08	0.14	1.75	-	1.10	0.26	9.04	2.99	1.60
		b***	a	b	b		ab	a	a	a	a
2.5 min H ₂ SO ₄	7	22	0	21	19	0	16	26	1	2	10
	14	39	0	33	30	0	25	39	2	8	19
	21	55	0	37	38	2	30	46	3	11	22
	28	55	0	37	38	2	30	46	3	11	22
	MGT	13.21	-	10.73	11.68	14.88	13.96	10.90	10.50	14.29	15.02
	SD	0.38	-	0.75	0.73	9.95	0.86	0.71	9.04	2.76	2.25
		b		a	a		b	a	a	a	a
5 min H ₂ SO ₄	7	3	2	5	2	0	20	23	3	4	4
	14	3	3	8	4	0	29	40	3	11	11
	21	3	4	9	4	0	35	44	3	12	15
	28	3	4	9	4	0	35	44	3	12	15
	MGT	7.00	12.25	10.50	10.50	-	11.15	11.67	5.25	12.25	11.96
	SD	0	6.70	2.86	4.04	-	1.10	2.18	3.50	2.78	1.47
		a	a	ab	ab		a	a	a	a	a
10 min H ₂ SO ₄	7	0	0	0	0	0	9	8	0	0	3
	14	0	0	0	0	0	16	11	0	0	3
	21	0	0	0	0	0	18	14	0	0	4
	28	0	0	0	0	0	18	14	0	0	4
	MGT	-	-	-	-	-	12.82	10.50	-	-	10.50
	SD	-	-	-	-	-	0.97	9.04	-	-	7.00
							ab	a			a

*MGT: Mean Germination Time

** SD: Standard Deviation

*** Different letters among treatments (for MGT) indicate statistically significant differences according to Duncan's test at $p \leq 0.05$.

Table S5. Measurements of morphological traits from 20 selected genotypes of *P. lentiscus* var. Chia, focused on properties that were mainly related to the appearance of the trees and their ornamental value. In the case of traits 1 and 10-12, a value based on personal experience and observation was determined. The values in the cases 2-9 were average measurements of 20 leaves, collected at adult stage from each one of the plants.

Traits	Genotype																			
	2F	3F	6F	7F	8F	10F	12F	14F	16F	19F	1M MV	6M MV	7M V	8M PS	10M ML	15M PL	18M PS	21M ML	36M PL	61M V
1. Growth habit	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
2. Leaf Length (cm)	5,04 f*	5,81 de	7,78 a	6,25 cde	8,14 a	6,73 bc	6,66 bc	6,25 cde	5,57 ef	5,59 ef	6,04 cde	6,65 bc	6,40 cd	6,53 cd	6,18 cde	5,78 de	5,61 def	7,16 b	5,78 de	6,31 cd
3. Leaf width (cm)	4,90 jk	5,73 fgh	7,57 a	6,21 def	7,02 b	6,70 bc	5,40 fi	6,04 ef	5,13 ij	4,66 k	5,87 fgh	5,91 fg	5,63 ghi	5,76 fgh	5,81 fgh	6,46 cde	5,52 ghi	5,77 fgh	6,43 cde	6,69 bcd
4. Number of leaflets	5,80 def	6,45 bcde	6,85 abc	4,70 f	6,80 abc	6,20 bcde	6,85 abc	6,35 bcde	5,85 def	6,55 bcde	6,10 bcde	7,50 a	6,35 bcde	6,65 bcd	5,50 ef	4,55 f	6,00 cde	5,60 ef	4,30 f	6,90 ab
5. Term. leaflets length (cm)	2,58 h	2,92 fg	3,80 a	3,57 ab	3,61 ab	3,35 bcd	3,07 def	2,90 fg	2,65 gh	2,53 h	3,01 ef	3,11 def	3,39 bc	3,00 ef	3,08 def	3,66 ab	2,82 fgh	3,24 cde	3,44 bc	3,53 abc
6. Term. leaflets width (cm)	0,83 kl	0,90 hijkl	1,09 efgh	1,41 cd	1,39 cd	1,17 efg	0,88 ijkl	0,98 ghij	0,99 ghij	0,85 jkl	1,11 efg	1,07 efghi	1,20 ef	1,03 fghij	1,24 de	1,74 a	0,76 l	1,50 bc	1,63 ab	1,19 ef
7. Term. leaflets shape	2,00 ab	2,00 ab	2,00 ab	2,15 a	2,00 ab	2,00 ab	2,00 ab	2,00 ab	2,15 a	2,00 ab	2,20 a	2,00 ab	2,00 ab	2,00 ab	2,00 b	1,70 ab	1,90 ab	2,00 ab	1,15 c	1,90 ab
8. Term. leaflets apex	2,00 d	1,70 de	3,20 c	1,45 e	1,60 de	4,30 b	2,00 d	4,00 b	4,05 b	3,30 c	1,20 e	3,80 b	4,00 b	1,85 d	5,00 a	4,65 a	4,00 b	4,75 a	4,65 a	4,00 b
9. Term. leaflets base	1,30 f	1,85 e	2,00 de	2,00 de	1,00 f	2,20 de	2,00 de	2,30 cd	3,00 b	2,10 de	1,30 f	4,00 a	2,00 de	1,00 f	2,00 de	2,40 cd	2,00 de	2,10 de	2,70 bc	2,00 de
10. Plant height	3	3	2	2	1	2	2	1	2	1	2	2	2	3	2	3	2	2	3	2
11. Plant diameter	3	3	2	3	3	2	3	3	2	3	2	2	3	3	2	3	2	3	2	2
12. Fruit yielding	3	3	2	3	3	3	3	2	3	3	-	-	-	-	-	-	-	-	-	-
13. Seed size (mm)	4,24 b	4,25 b	5,02 a	4,64 ab	5,00 a	5,10 a	5,04 a	5,06 a	4,04 b	4,84 ab	-	-	-	-	-	-	-	-	-	-

*Different letters in each trait (line) indicate statistically significant differences according to Duncan's test at $p \leq 0.05$.

Table S6. Pearson's correlation tests among 10 main morphological traits of *P. lentiscus* var. Chia.

	Leaf Length	Leaf width	Number of leaflets	Terminal leaflets length	Terminal leaflets width	Terminal leaflets shape	Terminal leaflets apex	Terminal leaflets base	Plant height	Plant diameter
Leaf Length	-	0.702**	0.407	0.655**	0.320	-0.250	-0.124	-0.143	0.040	0.013
Leaf width	0.702**	-	0.016	0.917**	0.553*	-0.012	0.077	-0.043	0.233	-0.085
Number of leaflets	0.407	0.016	-	-0.173	-0.588**	0.184	-0.280	-0.028	-0.245	-0.252
Terminal leaflets length	0.655**	0.917**	-0.173	-	0.743**	-0.136	0.068	-0.004	0.257	0.011
Terminal leaflets width	0.320	0.553*	-0.588	0.743**	-	-0.385	0.268	0.112	0.317	0.066
Terminal leaflets shape	-0.250	-0.012	0.184	-0.136	-0.385	-	-0.507*	-0.046	-0.087	-0.160
Terminal leaflets apex	-0.124	0.077	-0.280	0.068	0.268	-0.507*	-	0.582**	-0.077	-0.358
Terminal leaflets base	-0.143	-0.043	-0.028	-0.004	0.112	-0.046	0.582**	-	-0.177	-0.592**
Plant height	0.040	0.233	-0.245	0.257	0.317	-0.087	-0.077	-0.177	-	0.452*
Plant diameter	0.013	-0.085	-0.252	0.011	0.066	-0.160	-0.358	-0.592**	0.452*	-

*Level of significance of correlation, $p < 0.05$

**Level of significance of correlation, $p < 0.01$