

Genetic diversity and population structure of wild Sardinian Myrtle (*Myrtus communis* L.) genotypes from different microclimatic areas.

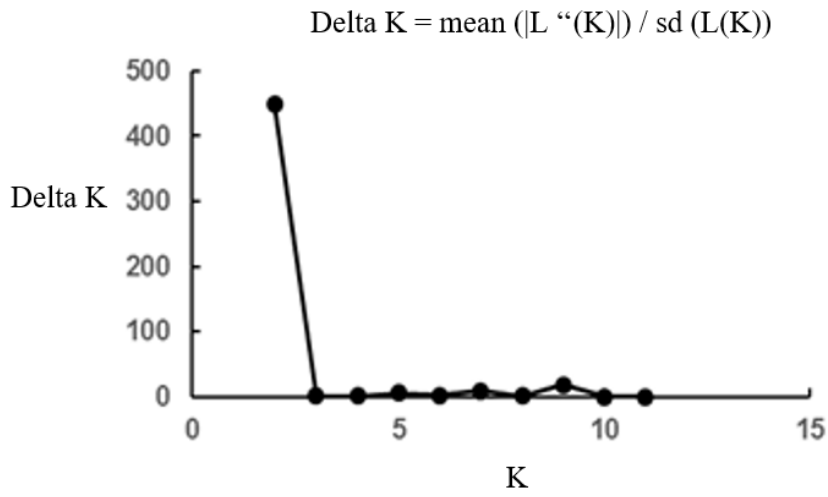
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Supplementary Table 1. Average monthly climatic data extrapolated from the historical series from 1991 to 2011. Average minimum temperatures (T min), average temperatures (T mean), average maximum temperatures (T max), for the six climatic zones are reported. In Table are reported the 7 climatic zones considered in this study.

Climatic Zone	T(°C)	January	February	March	April	May	June	July	August	September	October	November	December
1 (NorthWest)	T min	5.0	5.2	6.8	8.5	12.1	15.5	18.2	18.7	16.0	14.5	10.6	6.4
	T mean	8.9	9.1	11.5	13.5	17.7	26.3	24.3	24.9	21.4	17.5	13.3	10.0
	T max	13.7	15.5	16.3	18.5	23.2	27.5	30.5	30.9	26.7	24.8	17.2	13.6
2 (NorthEast)	T min	4.3	4.3	6.1	8.1	11.8	15.2	18.1	18.5	15.3	11.9	8.3	5.6
	T mean	7.8	8.1	10.4	12.7	17.0	21.1	24.2	24.4	20.3	16.5	11.8	8.8
	T max	11.3	12.0	14.7	17.3	22.2	27.0	30.3	30.3	25.4	20.9	18.6	12.0
4 (SouthEast)	T min	5.6	5.2	7.1	9.1	12.6	16.6	19.4	19.9	16.9	13.5	9.8	7.1
	T mean	9.8	9.8	12.1	14.3	18.4	22.7	25.7	25.8	22.2	18.4	14.1	11.1
	T max	13.9	14.3	17.0	19.4	24.2	28.8	31.8	32.2	27.5	23.4	18.5	15.1
5 (CenterWest)	T min	4.4	4.3	6.7	8.3	12.0	16.7	18.2	18.6	15.4	12.5	8.8	5.8
	T mean	8.0	8.3	10.7	13.1	17.5	21.6	24.7	25.0	20.8	17.3	12.6	9.2
	T max	12.8	12.4	15.4	19.9	23.4	27.8	31.3	31.3	28.6	22.0	16.7	12.6
6 (SouthWest)	T min	5.2	4.9	6.9	9.0	18.6	15.8	16.9	18.0	21.8	12.9	9.5	6.8
	T mean	10.2	10.3	12.6	14.8	19.0	22.6	25.0	25.6	22.4	18.9	14.5	11.5

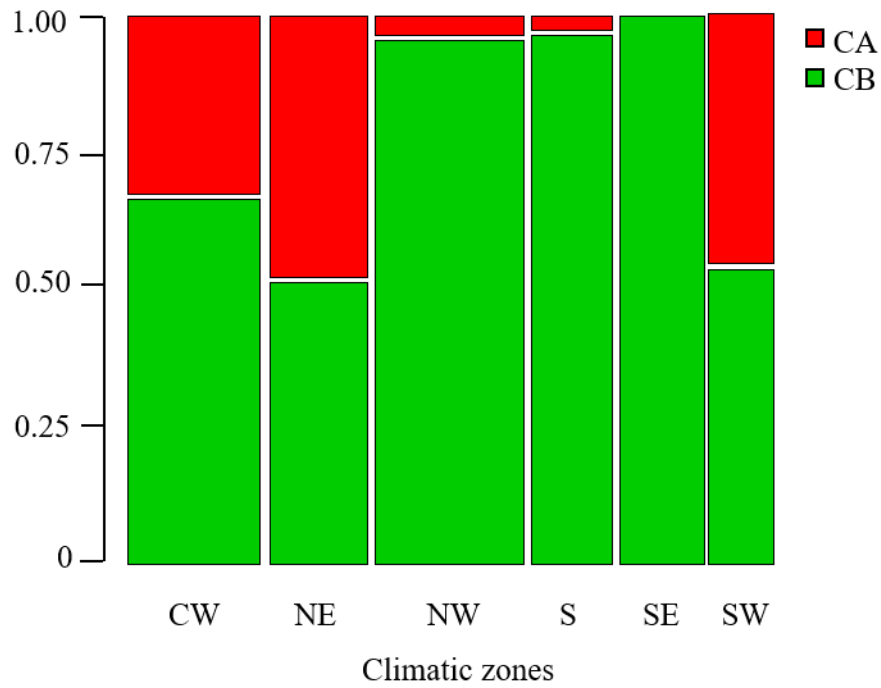
Supplementary Table 2. Nonparametric pairwise correlation between He (heterozygosity of populations) and genetic cluster assignment (Q) and climate data of the climate zones studied. In table we are reported statistically significant data ($P < 0.05$).

Variable	by Variable	Correlation	<i>p</i>
He	T min January	-0.8452	0.0341
	T min February	-0.8336	0.0392
	T min March	-0.8732	0.0231
Q Cluster A	T min August	-0.9075	0.0124



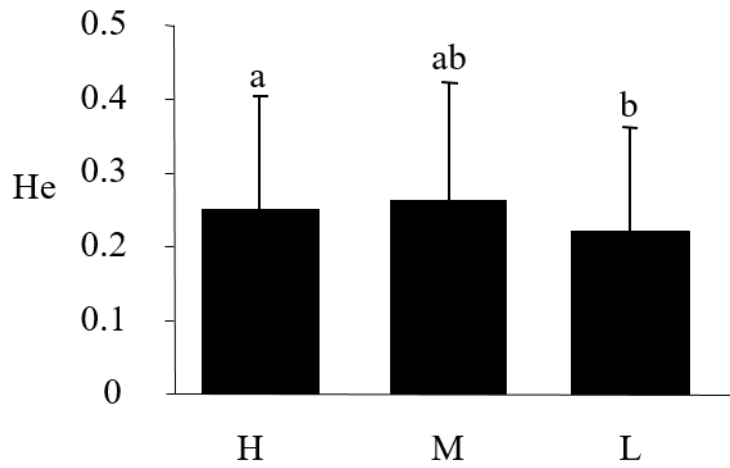
Supplementary Fig. 1

Supplementary Fig. 1 Identification of the most probable genetic structure, through the Delta K highest value (Evanno et al., 2005).



Supplementary Fig. 2

Supplementary Fig. 2 Distribution of the two genetic clusters (CA and CB) identified by STRUCTURE tool in the 6 climatic zones studied (CW = Central West; NE = North East; NW = North West; S = South; SE = South East; SW = South West). In ordinate are reported the coefficient of membership (Q).



Supplementary Fig. 3

Supplementary Fig. 3 Distribution of wild myrtle population He in the three altitude classes explored (see material and methods for details). Means comparisons using Student's t identified different levels. Levels not connected by same letter are significantly different ($P < 0.05$).