

Supplementary Materials

Table S5 - Bioclimatic variables in for *Ilex aquifolium* population sampling areas and Mantel statistic tests.

Bioclim variables Location	T.min(°C)	T.max(°C)	Prec.(mm)
RO	21.83406	36.37375	1.143614
HU	22.06715	37.03516	1.000000
SR	18.73144	34.70834	5.042770
BG	20.68237	37.37291	1.453438

Bioclimatic variables were extracted from <https://www.worldclim.org/data/monthlywth.html>(2010-2018/tmin_2010-2018/tmax_2010-2018/prec_2010-2018).

Morphological and chemical data - Mantel statistic r: -0.7435; Significance: 1.

GPS and climate data - Mantel statistic r: -0.06895; Significance: 0.33333.

Morphological and GPS data - Mantel statistic r: -0.2876; Significance: 0.58333.

Chemical and GPS data - Mantel statistic r: 0.6264; Significance: 0.25.

Morphological and climate data - Mantel statistic r: 0.7889; Significance: 0.083333.

Chemical and climate data - Mantel statistic r: -0.5417; Significance: 0.91667.