**Chloroplast DNA diversity in the white oaks of Italian Peninsula, Sicily and Sardinia**

This file set reports intra- and interspecific DNA variation at five chloroplast microsatellite (Cp-SSR) loci in a large dataset of white oaks (Quercus, subgenus Quercus, sect. Quercus). Sampling was performed in 60 populations (180 individuals) over the Italian Peninsula, Sicily, and Sardinia. Details about taxonomy, geography of the investigated populations, and the used Cp-SSR markers are reported in the dataset files S1-3. Fragment size polymorphisms were identified as different length variants that were combined with GenAlEx 6.5 to define 28 total haplotypes.

The file set includes:

Dataset file S1 = the primary sample list with details about sampling, taxonomy, population ID;

Dataset file S2 = a map showing the investigated area and populations;

Dataset file S3 = Details of the cpSSR used in the present study;

Dataset File S4 = haplotype Minimum spunning network output (txt format to be opened with Microsoft Note book).

Dataset File S5 = GeneALEx statistic analysis outputs per geographical sector (excel format).

Dataset File S6 = GeneALEx statistic analysis outputs per species complexes (excel format).

Dataset File S7 = PCoA coordinates and diagrams

Dataset File S8 = PERMUT Analysis of Diversity per Geographical sectors

Dataset File S9 = PERMUT Analysis of Diversity per Species complexes