

Table S1 Supplementary material. List of the 48 populations sampled in this investigation. Geographic coordinates are in decimal degrees (negative values: degrees of longitude west of Greenwich).

ID	Label	Population Name	District	Country	Sample Size	Longitude	Latitude
1	Ads	Alcácer do Sal	southern Portugal	Portugal	19	-8.3	37.52
2	Apm	Alpes Maritimes	Provence	France	28	7.21	43.86
3	Ave	Aveiro	central Portugal	Portugal	20	-8.36	40.39
4	Bda	Boulevard des Alle	Landes	France	32	-1.32	44.48
5	Bis	Biscarosse	Landes	France	33	-1.22	44.33
6	Bon	Boniches	central Spain	Spain	24	-1.65	39.98
7	Bra	Bragança	northern Portugal	Portugal	20	-6.32	41.52
8	Car	Carballo	Galicia	Spain	24	-8.68	43.22
9	Cob	Corbieres	Languedoc	France	30	2.88	43.16
10	Coc	Coca	central Spain	Spain	24	-4.5	41.23
11	Cor	Valle Restonica	Corsica	France	24	9.27	42.2
12	Crc	Carcans	Landes	France	33	-1.15	45.1
13	Dev	Devinas	Corsica	France	45	9.45	42.52
14	Eal	Almodovar del Pinar	central Spain	Spain	25	-1.53	39.40
15	Eca	Cazorla	southern Spain	Spain	24	-2.92	37.92
16	Ega	Gea de Albarracín	eastern Spain	Spain	24	-1.4	40.38
17	Elb	Las Gabarras	eastern Spain	Spain	25	3.05	41.9
18	Epc	Cómpeta	southern Spain	Spain	18	-3.88	36.85
19	Esp	Sierra del Pradell	eastern Spain	Spain	25	0.9	41.17
20	Esr	Gaucín	southern Spain	Spain	24	-5.28	36.53
21	Est	Massif de l'Esterel	Provence	France	29	6.92	43.62
22	Fdf	Figueira da Foz	central Portugal	Portugal	20	-8.44	40.18
23	Gar	Pont du Gard	Provence	France	30	4.25	44.13
24	Hou	Hourtin	Landes	France	32	-1.13	45.17
25	Lac	Lacanau	Landes	France	33	-1.15	44.53
26	Lcf	Lège Cap-Ferret	Landes	France	33	-1.2	44.72
27	Lem	Lit et Mix	Landes	France	33	-1.32	44.45
28	Ler	Leiria	central Portugal	Portugal	20	-8.57	39.46
29	Lig	La Spezia	northern Italy	Italy	24	9.83	44.1
30	Lou	Lousã	central Portugal	Portugal	19	-8.11	40.09
31	Mao	Monção	northern Portugal	Portugal	19	-8.23	42.04
32	Mau	Maures	Provence	France	30	6.4	43.25
33	Mdb	Mondim de Basto	northern Portugal	Portugal	20	-7.55	41.25
34	Mim	Mimizan	Landes	France	31	-1.3	44.13
35	Mor	Tamjout	Middle Atlas	Morocco	24	-4.03	33.87
36	Mtg	Manteigas	central Portugal	Portugal	20	-7.26	40.24
37	Mtl	Montalegre	northern Portugal	Portugal	20	-7.56	41.49
38	Ole	Oleiros	central Portugal	Portugal	20	-7.5	39.55
39	Pan	Montagna Grande	Pantelleria	Italy	24	12	36.8
40	Pdg	Point de Grave	Landes	France	32	-1.07	45.57
41	Pmo	n/a	n/a	Morocco	112	-5.1	33.87
42	Sar	Monte Pino	Sardinia	Italy	24	9.42	40.92
43	Seb	St Eulalie en Born	Landes	France	33	-1.32	44.33
44	Sjb	St Julien en Born	Landes	France	33	-1.23	44.1
45	Snt	Sintra	southern Portugal	Portugal	18	-9.22	38.46
46	Tus	Poggio Adorno/Pisa	northern Italy	Italy	24	10.73	43.75
47	Var	Var	Provence	France	29	6.15	43.73
48	Vsg	Vielle St Girons	Landes	France	32	-1.47	43.93

Fig. S1 Supplementary material. Examples of the geographic distribution of frequencies for six of the 16 haplotypes analyzed in this work. Point size is proportional to sampling frequencies, rescaled to a range 0 to 1.

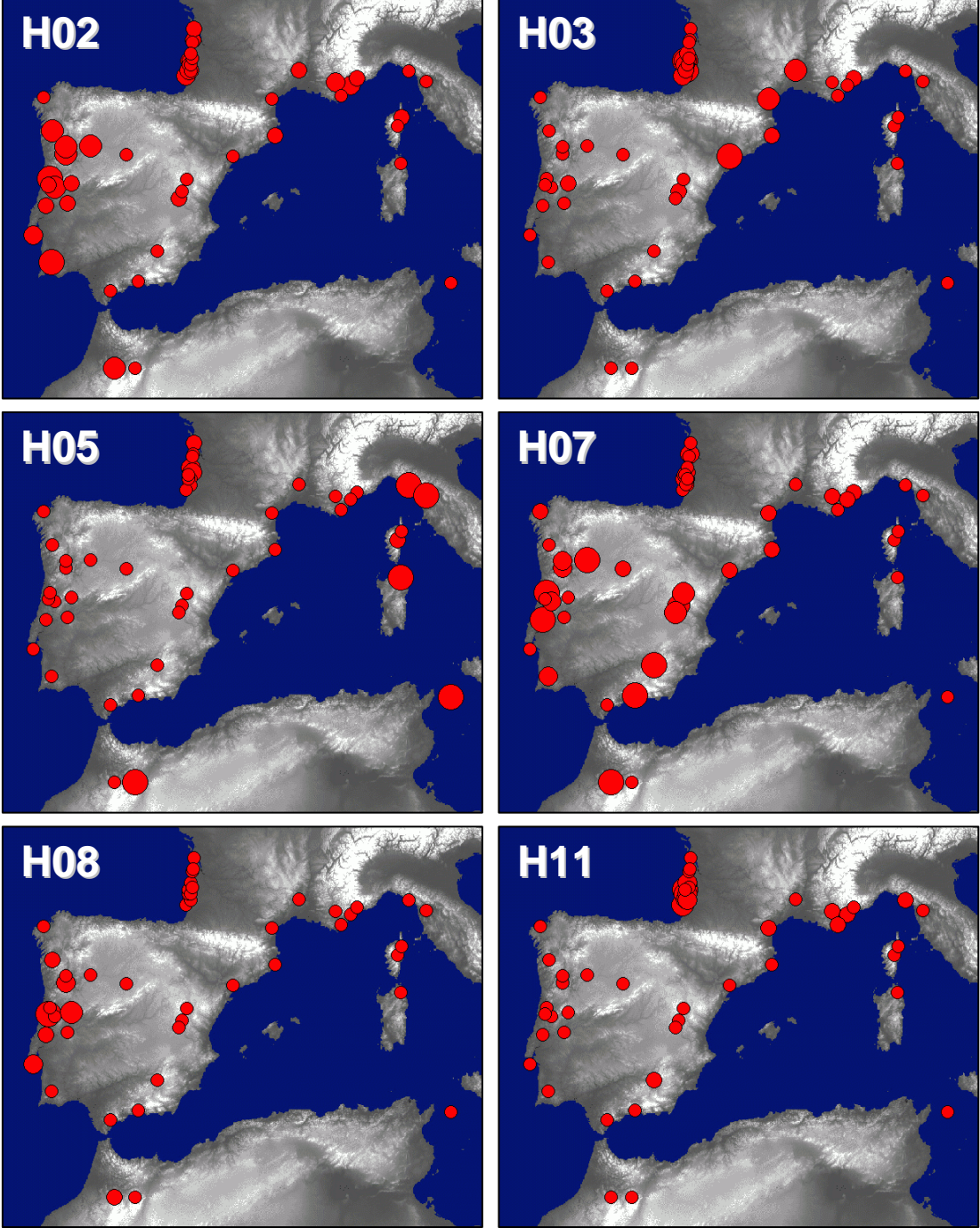


Fig. S2 Geographic distribution of the number of private haplotypes (standardized to mean=0 and std=1) for the 48 stands analyzed. Pinpoint dimension is proportional to the absolute parameter value, while point color represents values above (green) or below (red) the grand mean.

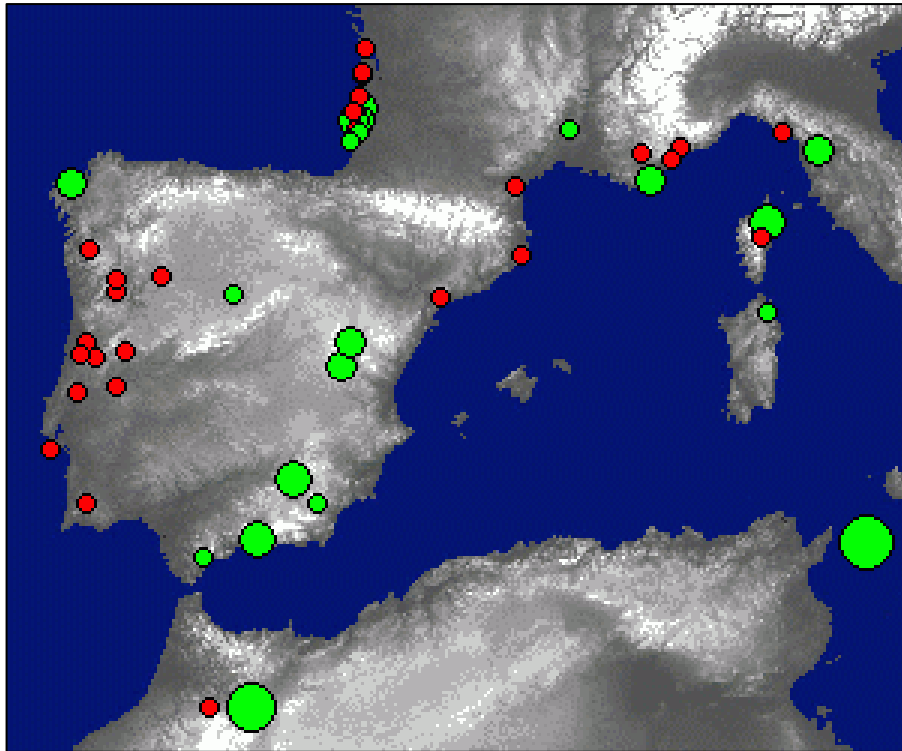


Fig. S3 Geographic distribution of the within-population haplotypic variance (S_w , after Slatkin 1994, standardized to mean=0 and std=1) for the 48 stands analyzed. Pinpoint dimension is proportional to the absolute parameter value, while point color represents values above (green) or below (red) the grand mean.

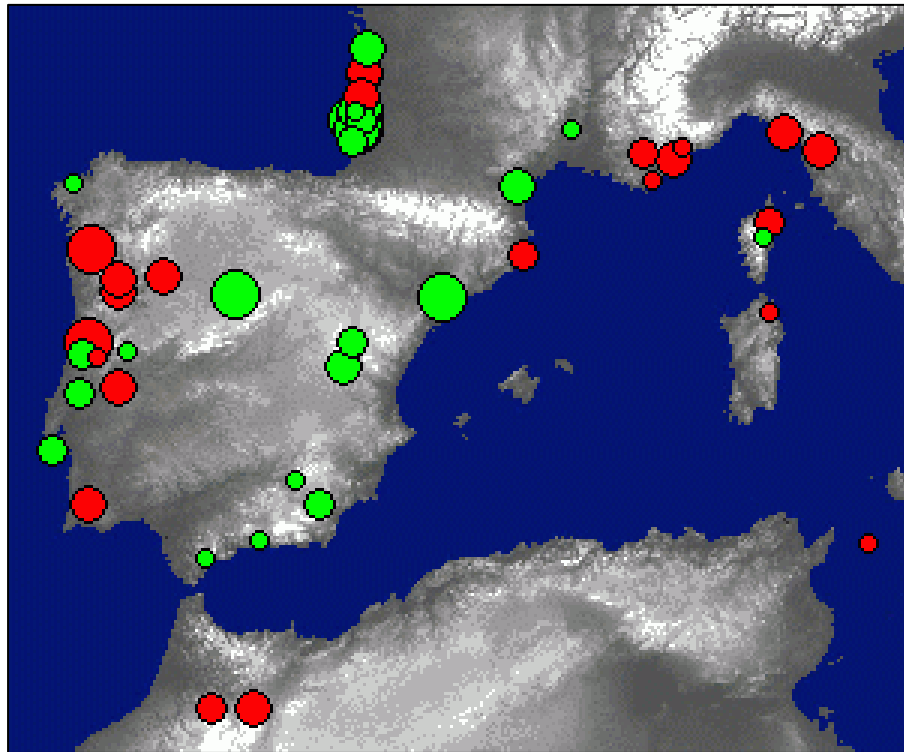


Fig. S4 Supplementary material. Geographic distribution of the stands showing significant deviation of the within-population mean number of haplotypic differences (x_{ij}) from the expected Poisson distribution. Red points: $P < 0.001$; orange points: $P < 0.01$; yellow points: $P < 0.05$; white points: n.s.

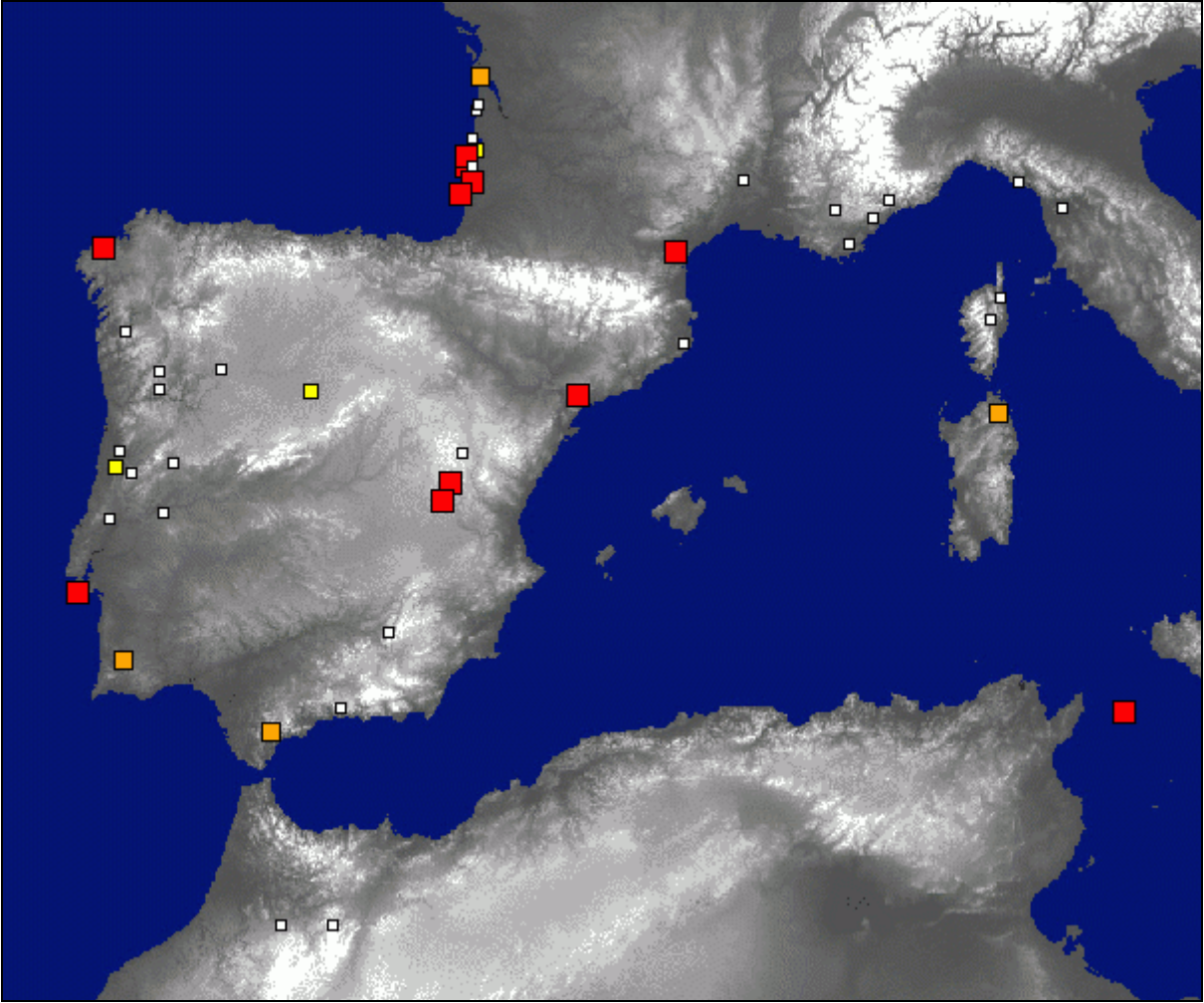


Fig. S5 Supplementary material. Geographic distribution of stands showing significant deviation from gene zones' haplotypes means (Kolmogorov-Smirnov non-parametric test). Green points: n.s.; orange points: $P < 0.05$; red points: $P < 0.01$.

