

SUPPLEMENTARY MATERIAL

TABLES

Table S1: List of specimens and localities included in the study.

populations	Localities	Departments	Regions	Countries	latitude	longitude	Tissue numbers	Ring numbers	Collectors
Alps (AL)	Les Voirons	Haute-Savoie	Auvergne-Rhône-Alpes	France	46.1995	6.3575	229		J.-C. Thibault & A. Cibois
Alps (AL)	Les Voirons	Haute-Savoie	Auvergne-Rhône-Alpes	France	46.1995	6.3575	230		J.-C. Thibault & A. Cibois
Alps (AL)	Les Voirons	Haute-Savoie	Auvergne-Rhône-Alpes	France	46.1995	6.3575	231		J.-C. Thibault & A. Cibois
Alps (AL)	Les Voirons	Haute-Savoie	Auvergne-Rhône-Alpes	France	46.1995	6.3575	232		J.-C. Thibault & A. Cibois
Alps (AL)	Les Voirons, Bons en Châblais	Haute-Savoie	Auvergne-Rhône-Alpes	France	46.2403	6.3723	1230	5468292	J.-C. Thibault & A. Cibois
Alps (AL)	Les Voirons, Bons en Châblais	Haute-Savoie	Auvergne-Rhône-Alpes	France	46.2403	6.3723	1231	5468293	J.-C. Thibault & A. Cibois
Alps (AL)	Les Voirons, Bons en Châblais	Haute-Savoie	Auvergne-Rhône-Alpes	France	46.2403	6.3723	1232	5468294	J.-C. Thibault & A. Cibois
Alps (AL)	Les Voirons, Bons en Châblais	Haute-Savoie	Auvergne-Rhône-Alpes	France	46.2403	6.3723	1233	5468295	J.-C. Thibault & A. Cibois
Alps (AL)	Les Voirons, Filinges	Haute-Savoie	Auvergne-Rhône-Alpes	France	46.1786	6.3499	1234	5468296	J.-C. Thibault & A. Cibois
Alps (AL)	Les Voirons, Lucinges	Haute-Savoie	Auvergne-Rhône-Alpes	France	46.1964	6.3388	1236	5468298	J.-C. Thibault & A. Cibois
Alps (AL)	Les Voirons, Lucinges	Haute-Savoie	Auvergne-Rhône-Alpes	France	46.1964	6.3388	1237	5468299	J.-C. Thibault & A. Cibois
Alps (AL)	Les Voirons, Lucinges	Haute-Savoie	Auvergne-Rhône-Alpes	France	46.1964	6.3388	1238	5468300	J.-C. Thibault & A. Cibois
Alps (AL)	Les Voirons, Saxel	Haute-Savoie	Auvergne-Rhône-Alpes	France	46.2455	6.4061	1227	5468289	J.-C. Thibault & A. Cibois
Alps (AL)	Les Voirons, Saxel	Haute-Savoie	Auvergne-Rhône-Alpes	France	46.2455	6.4061	1228	5468290	J.-C. Thibault & A. Cibois
Alps (AL)	Les Voirons, Saxel	Haute-Savoie	Auvergne-Rhône-Alpes	France	46.2455	6.4061	1229	5468291	J.-C. Thibault & A. Cibois
Alps (AL)	Les Voirons, St-André	Haute-Savoie	Auvergne-Rhône-Alpes	France	46.1995	6.3575	1235	5468297	J.-C. Thibault & A. Cibois
Alps (AL)	Pelvoux	Hautes-Alpes	Auvergne-Rhône-Alpes	France	44.8889	6.4429	1097	7703649	L. Jomat
Alps (AL)	Puy-Saint-Vincent	Hautes-Alpes	Auvergne-Rhône-Alpes	France	44.8269	6.4782	619	5096827	R. Bussière
Alps (AL)	Puy-Saint-Vincent	Hautes-Alpes	Auvergne-Rhône-Alpes	France	44.8269	6.4782	620	5096828	R. Bussière
Alps (AL)	Puy-Saint-Vincent	Hautes-Alpes	Auvergne-Rhône-Alpes	France	44.8270	6.4782	621	5096829	R. Bussière
Alps (AL)	Puy-Saint-Vincent	Hautes-Alpes	Auvergne-Rhône-Alpes	France	44.8270	6.4782	622	5096830	R. Bussière
Alps (AL)	Puy-Saint-Vincent	Hautes-Alpes	Auvergne-Rhône-Alpes	France	44.8952	6.4517	1098	7703650	L. Jomat
Alps (AL)	Alboin, Casteldelfino	Cuneo	Piemonte	Italy	44.5910	7.0829	643		G. Boano
Corsica (CO)	Albertacce	Haute-Corse	Corse	France	42.3035	8.9496	791		J.-C. Thibault
Corsica (CO)	Albertacce	Haute-Corse	Corse	France	42.2706	8.9016	792		J.-C. Thibault
Corsica (CO)	Albertacce	Haute-Corse	Corse	France	42.2677	8.9087	793		J.-C. Thibault

Corsica (CO)	Albertacce	Haute-Corse	Corse	France	42.2730	8.9098	795		J.-C. Thibault
Corsica (CO)	Albertacce	Haute-Corse	Corse	France	42.2744	8.9149	796		J.-C. Thibault
Corsica (CO)	Albertacce	Haute-Corse	Corse	France	42.2693	8.8991	797		J.-C. Thibault
Corsica (CO)	Albertacce	Haute-Corse	Corse	France	42.2885	8.8904	821		J.-C. Thibault
Corsica (CO)	Albertacce	Haute-Corse	Corse	France	42.2924	8.9365	822		J.-C. Thibault
Corsica (CO)	Asco	Haute-Corse	Corse	France	42.4118	8.9447	169	5468220	J.-C. Thibault & J.-M. Pons
Corsica (CO)	Asco	Haute-Corse	Corse	France	42.4118	8.9447	170	5468221	J.-C. Thibault & J.-M. Pons
Corsica (CO)	Asco	Haute-Corse	Corse	France	42.4118	8.9447	1015	5468267	J.-C. Thibault
Corsica (CO)	Asco	Haute-Corse	Corse	France	42.4118	8.9447	1016	5468268	J.-C. Thibault
Corsica (CO)	Asco	Haute-Corse	Corse	France	42.4118	8.9447	1018	5468270	J.-C. Thibault
Corsica (CO)	Asco	Haute-Corse	Corse	France	42.4118	8.9447	1019	5468271	J.-C. Thibault
Corsica (CO)	Asco	Haute-Corse	Corse	France	42.4118	8.9447	1020	5468272	J.-C. Thibault
Corsica (CO)	Asco	Haute-Corse	Corse	France	42.4118	8.9447	1021	5468273	J.-C. Thibault
Corsica (CO)	Asco	Haute-Corse	Corse	France	42.4118	8.9447	1022	5468274	J.-C. Thibault
Corsica (CO)	Asco	Haute-Corse	Corse	France	42.4118	8.9447	1023	5468275	J.-C. Thibault
Corsica (CO)	Asco	Haute-Corse	Corse	France	42.4118	8.9447	1035	5468287	J.-C. Thibault
Corsica (CO)	Asco	Haute-Corse	Corse	France	42.4118	8.9447	1036	5468288	J.-C. Thibault
Corsica (CO)	Asco	Haute-Corse	Corse	France	42.4118	8.9447	1079	5126143	J.-C. Thibault
Corsica (CO)	Asco	Haute-Corse	Corse	France	42.4118	8.9447	1080	5126144	J.-C. Thibault
Corsica (CO)	Asco	Haute-Corse	Corse	France	42.4118	8.9447	1081	5126145	J.-C. Thibault
Corsica (CO)	Asco	Haute-Corse	Corse	France	42.4118	8.9447	1082	5126146	J.-C. Thibault
Corsica (CO)	Asco	Haute-Corse	Corse	France	42.4118	8.9447	1083	5126147	J.-C. Thibault
Corsica (CO)	Bastelica	Corse-du-Sud	Corse	France	42.0010	9.0501	1065	5126129	J.-C. Thibault & A. Cibois
Corsica (CO)	Bastelica	Corse-du-Sud	Corse	France	42.0010	9.0501	1068	5126132	J.-C. Thibault & A. Cibois
Corsica (CO)	Bocognanu	Corse-du-Sud	Corse	France	42.0809	9.0574	1062	5126126	J.-C. Thibault
Corsica (CO)	Bocognanu	Corse-du-Sud	Corse	France	42.0809	9.0574	1069	5126133	J.-C. Thibault
Corsica (CO)	Bocognanu	Corse-du-Sud	Corse	France	42.0809	9.0574	1070	5126134	J.-C. Thibault
Corsica (CO)	Castifao	Haute-Corse	Corse	France	42.5029	9.0935	790		J.-C. Thibault
Corsica (CO)	FC Loreto di Casinca	Haute-Corse	Corse	France	42.4765	9.4296	1086	89_2015	J.-C. Thibault & J.-M. Pons
Corsica (CO)	FC Ste Marie de Siché, Bastelica	Corse-du-Sud	Corse	France	41.9250	8.9695	1063	5126127	J.-C. Thibault & A. Cibois
Corsica (CO)	FC Ste Marie de Siché, Bastelica	Corse-du-Sud	Corse	France	41.9250	8.9695	1064	5126128	J.-C. Thibault & A. Cibois
Corsica (CO)	FC Verghellu, Venacu	Haute-Corse	Corse	France	42.1963	9.1186	1061	5126125	J.-C. Thibault
Corsica (CO)	Forêt d'Aitone, Evisa	Haute-Corse	Corse	France	42.2719	8.8453	142	5468215	J.-C. Thibault & J.-M. Pons
Corsica (CO)	Forêt d'Aitone, Evisa	Haute-Corse	Corse	France	42.2719	8.8453	145	5468216	J.-C. Thibault & J.-M. Pons
Corsica (CO)	Forêt de Vallu Grossu, Murato	Haute-Corse	Corse	France	42.5513	9.3331	1025	5468277	J.-C. Thibault
Corsica (CO)	Forêt de Vallu Grossu, Murato	Haute-Corse	Corse	France	42.5513	9.3331	1026	5468278	J.-C. Thibault

Corsica (CO)	Forêt de Vallu Grossu, Murato	Haute-Corse	Corse	France	42.5513	9.3331	1027	5468279	J.-C. Thibault
Corsica (CO)	Forêt de Vallu Grossu, Murato	Haute-Corse	Corse	France	42.5513	9.3331	1028	5468280	J.-C. Thibault
Corsica (CO)	Forêt Valdo-Niello, Albertacce	Haute-Corse	Corse	France	42.2847	8.8941	156	5468218	J.-C. Thibault & J.-M. Pons
Corsica (CO)	Fratte, FC Calenzana	Haute-Corse	Corse	France	42.4826	8.8854	1009	134-2014	J.-C. Thibault
Corsica (CO)	Fratte, FC Calenzana	Haute-Corse	Corse	France	42.4838	8.8783	1010	135_2014	J.-C. Thibault
Corsica (CO)	Fratte, FC Calenzana	Haute-Corse	Corse	France	42.4857	8.8743	1011	136_2014	J.-C. Thibault
Corsica (CO)	Fratte, FC Calenzana	Haute-Corse	Corse	France	42.4830	8.8841	1012	139_2014	J.-C. Thibault
Corsica (CO)	Fratte, FC Calenzana	Haute-Corse	Corse	France	42.4830	8.8841	1013	140_2014	J.-C. Thibault
Corsica (CO)	FT Bonifatu, Calenzana	Haute-Corse	Corse	France	42.5535	9.3311	1029	5468281	J.-C. Thibault
Corsica (CO)	FT Bonifatu, Calenzana	Haute-Corse	Corse	France	42.5535	9.3311	1030	5468282	J.-C. Thibault
Corsica (CO)	FT Bonifatu, Calenzana	Haute-Corse	Corse	France	42.5535	9.3311	1031	5468283	J.-C. Thibault
Corsica (CO)	FT Bonifatu, Calenzana	Haute-Corse	Corse	France	42.5535	9.3311	1032	5468284	J.-C. Thibault
Corsica (CO)	FT Bonifatu, Calenzana	Haute-Corse	Corse	France	42.5535	9.3311	1033	5468285	J.-C. Thibault
Corsica (CO)	FT Bonifatu, Calenzana	Haute-Corse	Corse	France	42.5535	9.3311	1034	5468286	J.-C. Thibault
Corsica (CO)	FT Melaja, Mausoléo	Haute-Corse	Corse	France	42.5009	8.9612	609	5468243	J.-C. Thibault
Corsica (CO)	FT Punteniellu, Bastelica	Corse-du-Sud	Corse	France	42.0100	9.1024	1066	5126130	J.-C. Thibault & A. Cibois
Corsica (CO)	FT Punteniellu, Bastelica	Corse-du-Sud	Corse	France	42.0100	9.1024	1067	5126131	J.-C. Thibault & A. Cibois
Corsica (CO)	FT Rospa Sorda	Haute-Corse	Corse	France	42.1688	9.2268	266		J.-C. Thibault
Corsica (CO)	FT Stella, Scolca	Haute-Corse	Corse	France	42.5557	9.3722	265		J.-C. Thibault
Corsica (CO)	FT Tartagine, Olmi Capella	Haute-Corse	Corse	France	42.4910	8.9955	1055	5126119	J.-C. Thibault
Corsica (CO)	FT Tartagine, Olmi Capella	Haute-Corse	Corse	France	42.4910	8.9955	1056	5126120	J.-C. Thibault
Corsica (CO)	FT Tartagine, Olmi Capella	Haute-Corse	Corse	France	42.4910	8.9955	1057	5126121	J.-C. Thibault
Corsica (CO)	FT Tartagine, Olmi Capella	Haute-Corse	Corse	France	42.4910	8.9955	1058	5126122	J.-C. Thibault
Corsica (CO)	FT Tartagine, Olmi Capella	Haute-Corse	Corse	France	42.4910	8.9955	1059	5126123	J.-C. Thibault
Corsica (CO)	FT Tartagine, Olmi Capella	Haute-Corse	Corse	France	42.4910	8.9955	1060	5126124	J.-C. Thibault
Corsica (CO)	FT Tartagine, Olmi Capella	Haute-Corse	Corse	France	42.4910	8.9955	1075	5126139	J.-C. Thibault
Corsica (CO)	FT Tartagine, Olmi Capella	Haute-Corse	Corse	France	42.4910	8.9955	1076	5126140	J.-C. Thibault
Corsica (CO)	FT Tartagine, Olmi Capella	Haute-Corse	Corse	France	42.4910	8.9955	1077	5126141	J.-C. Thibault
Corsica (CO)	FT Tartagine, Olmi Capella	Haute-Corse	Corse	France	42.4910	8.9955	1078	5126142	J.-C. Thibault
Corsica (CO)	FT Tova, Solaro	Haute-Corse	Corse	France	41.8751	9.3046	284		J.-C. Thibault
Corsica (CO)	FT Valdoniellu, Albertacce	Haute-Corse	Corse	France	42.2862	8.9111	1037	5126102	J.-C. Thibault
Corsica (CO)	FT Valdoniellu, Albertacce	Haute-Corse	Corse	France	42.2862	8.9111	1038	5126103	J.-C. Thibault
Corsica (CO)	FT Valdoniellu, Albertacce	Haute-Corse	Corse	France	42.2862	8.9111	1039	5126104	J.-C. Thibault
Corsica (CO)	FT Valdoniellu, Albertacce	Haute-Corse	Corse	France	42.2862	8.9111	1040	5126105	J.-C. Thibault
Corsica (CO)	FT Valdoniellu, Albertacce	Haute-Corse	Corse	France	42.2862	8.9111	1046	5126109	J.-C. Thibault
Corsica (CO)	Maison forestière d'Aitone, Evisa	Haute-Corse	Corse	France	42.2638	8.8469	136		J.-C. Thibault & J.-M. Pons

Corsica (CO)	Maison forestière d'Aitone, Evisa	Haute-Corse	Corse	France	42.2638	8.8469	138	5468212	J.-C. Thibault & J.-M. Pons
Corsica (CO)	Maison forestière d'Aitone, Evisa	Haute-Corse	Corse	France	42.2638	8.8469	139	5468213	J.-C. Thibault & J.-M. Pons
Corsica (CO)	Maison forestière d'Aitone, Evisa	Haute-Corse	Corse	France	42.2638	8.8469	140	5468214	J.-C. Thibault & J.-M. Pons
Corsica (CO)	Mansu	Haute-Corse	Corse	France	42.3336	8.8253	820		J.-C. Thibault
Corsica (CO)	FT Melaja, Mausoléo	Haute-Corse	Corse	France	42.4964	8.9380	188	5468225	J.-C. Thibault
Corsica (CO)	Moca Croce	Corse-du-Sud	Corse	France	41.8097	9.0120	1051	5126114	J.-C. Thibault & J. Piacentini
Corsica (CO)	Moca Croce	Corse-du-Sud	Corse	France	41.8097	9.0120	1052	5126115	J.-C. Thibault & J. Piacentini
Corsica (CO)	Moca Croce	Corse-du-Sud	Corse	France	41.8097	9.0120	1053	5126116	J.-C. Thibault & J. Piacentini
Corsica (CO)	Moca Croce	Corse-du-Sud	Corse	France	41.8097	9.0120	1054	5126117	J.-C. Thibault & J. Piacentini
Corsica (CO)	Moltifao, multi1	Haute-Corse	Corse	France	42.4642	9.1416	788		J.-C. Thibault
Corsica (CO)	Moltifao, multi3	Haute-Corse	Corse	France	42.4599	9.1548	789		J.-C. Thibault
Corsica (CO)	Olmi Capella	Haute-Corse	Corse	France	42.5284	9.0212	1071	5126135	J.-C. Thibault
Corsica (CO)	Olmi Capella	Haute-Corse	Corse	France	42.5284	9.0212	1072	5126136	J.-C. Thibault
Corsica (CO)	Olmi Capella	Haute-Corse	Corse	France	42.5284	9.0212	1073	5126137	J.-C. Thibault
Corsica (CO)	Olmi Capella	Haute-Corse	Corse	France	42.5284	9.0212	1074	5126138	J.-C. Thibault
Corsica (CO)	Olmi Capella, Tartagine	Haute-Corse	Corse	France	42.4871	8.9698	794		J.-C. Thibault
Corsica (CO)	Ortiporio	Haute-Corse	Corse	France	42.4574	9.3436	1084	5126150	J.-C. Thibault & J.-M. Pons
Corsica (CO)	Prato di Giovellina	Haute-Corse	Corse	France	42.4242	9.1648	1024	5468276	J.-C. Thibault
Corsica (CO)	Silvareccio	Haute-Corse	Corse	France	42.4508	9.4128	1085	5126151	J.-C. Thibault & J.-M. Pons
Corsica (CO)	Stu-Pietru d'Accia, Morosaglia	Haute-Corse	Corse	France	42.4283	9.3314	1042	5126106	J.-C. Thibault
Corsica (CO)	Stu-Pietru d'Accia, Morosaglia	Haute-Corse	Corse	France	42.4283	9.3314	1043	5126107	J.-C. Thibault
Corsica (CO)	Stu-Pietru d'Accia, Morosaglia	Haute-Corse	Corse	France	42.4283	9.3314	1044	5126101	J.-C. Thibault
Corsica (CO)	Stu-Pietru d'Accia, Morosaglia	Haute-Corse	Corse	France	42.4283	9.3314	1045	5126108	J.-C. Thibault
Corsica (CO)	FT Tova, Solaro	Haute-Corse	Corse	France	41.8751	9.3046	177		J.-C. Thibault
Corsica (CO)	FT Valdoniellu-Albertacce	Haute-Corse	Corse	France	42.2862	8.9111	419		J.-C. Thibault
Corsica (CO)	FT Valdoniellu-Albertacce	Haute-Corse	Corse	France	42.2862	8.9111	423		J.-C. Thibault
Corsica (CO)	Vallon de Ruda, Corscia	Haute-Corse	Corse	France	42.3710	9.0460	1047	5126110	J.-C. Thibault
Corsica (CO)	Vallon de Ruda, Corscia	Haute-Corse	Corse	France	42.3710	9.0460	1048	5126111	J.-C. Thibault
Corsica (CO)	Vallon de Ruda, Corscia	Haute-Corse	Corse	France	42.3710	9.0460	1049	5126112	J.-C. Thibault
Corsica (CO)	Vallon de Ruda, Corscia	Haute-Corse	Corse	France	42.3710	9.0460	1050	5126113	J.-C. Thibault
Corsica (CO)	Vetricce, Castifao	Haute-Corse	Corse	France	42.5377	9.0915	829		J.-C. Thibault
Corsica (CO)	Vetricce, Castifao	Haute-Corse	Corse	France	42.5345	9.0865	830		J.-C. Thibault
Corsica (CO)	FT Vizzanova	Haute-Corse	Corse	France	42.1281	9.1335	264		J.-C. Thibault
Corsica (CO)	FT Vizzanova	Haute-Corse	Corse	France	42.1281	9.1335	263		J.-C. Thibault
Eastern France (ES)	Andelot-Blancheville	Haute-Marne	Grand-Est	France	48.2591	5.2886	213	RH 7062	V. Ternois
Eastern France (ES)	Andelot-Blancheville	Haute-Marne	Grand-Est	France	48.2208	5.3408	392	6626021	P.-Y. Perroi

Eastern France (ES)	Andelot-Blancheville	Haute-Marne	Grand-Est	France	48.2208	5.3408	1166	7768881	P.-Y. Perroi
Eastern France (ES)	Eclance	Aube	Grand-Est	France	48.3200	4.6462	700	7148472	V. Ternois
Eastern France (ES)	Revin	Ardennes	Grand-Est	France	49.9383	4.6666	535	6666995	N. Cochard
Eastern France (ES)	Fumay	Ardennes	Grand-Est	France	49.9588	4.6278	536	6666997	N. Cochard
Eastern France (ES)	La Fauche	Haute-Marne	Grand-Est	France	48.3033	5.4950	396	6626290	P.-Y. Perroi
Eastern France (ES)	Chaumont	Haute-Marne	Grand-Est	France	48.1292	5.2255	214	RH 7063	V. Ternois
Eastern France (ES)	Liffol-le-Petit	Haute-Marne	Grand-Est	France	48.3097	5.5197	393	6626287	P.-Y. Perroi
Eastern France (ES)	Liffol-le-Petit	Haute-Marne	Grand-Est	France	48.3097	5.5197	394	6626288	P.-Y. Perroi
Eastern France (ES)	Liffol-le-Petit	Haute-Marne	Grand-Est	France	48.3087	5.5090	395	6626289	P.-Y. Perroi
Eastern France (ES)	Morvilliers	Aube	Grand-Est	France	48.3865	4.4660	701	7148350	V. Ternois
Eastern France (ES)	Roches-Bettaincourt	Haute-Marne	Grand-Est	France	48.2708	5.2347	215	RH 7064	V. Ternois
Eastern France (ES)	St-Menges	Ardennes	Grand-Est	France	49.7594	4.9291	532	5170334	N. Cochard
Eastern France (ES)	St-Menges	Ardennes	Grand-Est	France	49.7594	4.9291	533	5170335	N. Cochard
Eastern France (ES)	St-Menges	Ardennes	Grand-Est	France	49.7594	4.9291	534	5170339	N. Cochard
Eastern France (ES)	Thilay	Ardennes	Grand-Est	France	49.8877	4.8141	530	5170331	N. Cochard
Eastern France (ES)	Thilay	Ardennes	Grand-Est	France	49.8877	4.8141	531	5170332	N. Cochard
Eastern France (ES)	Fumay	Ardennes	Grand-Est	France	49.9588	4.6278	537	6666998	N. Cochard
Eastern France (ES)	Fumay	Ardennes	Grand-Est	France	49.9588	4.6278	538	6667000	N. Cochard
Central Italy (IT)	Foreste Casentinesi	Forli Cesena	Emilia Romagna	Italy	43.9569	11.7351	397		G. Tellini
Central Italy (IT)	Foreste Casentinesi	Forli Cesena	Emilia Romagna	Italy	43.9569	11.7351	398		G. Tellini
Central Italy (IT)	Foreste Casentinesi	Forli Cesena	Emilia Romagna	Italy	43.9569	11.7351	399		G. Tellini
Central Italy (IT)	Foreste Casentinesi	Forli Cesena	Emilia Romagna	Italy	43.9569	11.7351	400		G. Tellini
Central Italy (IT)	Foreste Casentinesi	Forli Cesena	Emilia Romagna	Italy	43.9569	11.7351	401		G. Tellini
Central Italy (IT)	Foreste Casentinesi	Forli Cesena	Emilia Romagna	Italy	43.9569	11.7351	402		G. Tellini
Central Italy (IT)	Foreste Casentinesi	Forli Cesena	Emilia Romagna	Italy	43.9569	11.7351	403		G. Tellini
Central Italy (IT)	Foreste Casentinesi	Forli Cesena	Emilia Romagna	Italy	43.9569	11.7351	404		G. Tellini
Central Italy (IT)	Foreste Casentinesi	Forli Cesena	Emilia Romagna	Italy	43.9569	11.7351	405		G. Tellini
Central Italy (IT)	Foreste Casentinesi	Forli Cesena	Emilia Romagna	Italy	43.9569	11.7351	406		G. Tellini
Central Italy (IT)	Foreste Casentinesi	Forli Cesena	Emilia Romagna	Italy	43.9569	11.7351	407		G. Tellini
Central Italy (IT)	Foreste Casentinesi	Forli Cesena	Emilia Romagna	Italy	43.9569	11.7351	408		G. Tellini
Central Italy (IT)	Foreste Casentinesi	Forli Cesena	Emilia Romagna	Italy	43.9569	11.7351	409		G. Tellini
Central Italy (IT)	Foreste Casentinesi	Forli Cesena	Emilia Romagna	Italy	43.9569	11.7351	410		G. Tellini
Central Italy (IT)	Foreste Casentinesi	Forli Cesena	Emilia Romagna	Italy	43.9569	11.7351	411		G. Tellini
Central Italy (IT)	Foreste Casentinesi	Forli Cesena	Emilia Romagna	Italy	43.9569	11.7351	412		G. Tellini
Central Italy (IT)	Foreste di Camaldoli	Arezzo	Toscana-Emilia Romagna	Italy	43.8026	11.8294	864		J.-C. Thibault

Central Italy (IT)	Foreste di Camaldoli	Arezzo	Toscana-Emilia Romagna	Italy	43.8186	11.7989	1001		J.-C. Thibault
Central Italy (IT)	Foreste di Camaldoli	Arezzo	Toscana-Emilia Romagna	Italy	43.8120	11.8129	1002		J.-C. Thibault
Central Italy (IT)	Foreste di Camaldoli	Arezzo	Toscana-Emilia Romagna	Italy	43.8134	11.8179	1003		J.-C. Thibault
Central Italy (IT)	Foreste di Camaldoli	Arezzo	Toscana-Emilia Romagna	Italy	43.8147	11.8210	1004		J.-C. Thibault
Central Italy (IT)	Foreste di Camaldoli	Arezzo	Toscana-Emilia Romagna	Italy	43.8148	11.8160	1005		J.-C. Thibault
Central Italy (IT)	Foreste di Camaldoli	Arezzo	Toscana-Emilia Romagna	Italy	43.8093	11.8208	1006		J.-C. Thibault
Central Italy (IT)	Foreste di Camaldoli	Arezzo	Toscana-Emilia Romagna	Italy	43.8093	11.8208	1007		J.-C. Thibault
Central Italy (IT)	Foreste di Camaldoli	Arezzo	Toscana-Emilia Romagna	Italy	43.8139	11.8246	1008		J.-C. Thibault
Central Italy (IT)	Foreste di Campigna	Arezzo	Toscana-Emilia Romagna	Italy	43.8595	11.7443	1000		J.-C. Thibault
Jura (JU)	Granges-Narboz	Jura	Bourgogne-Franche-Comté	France	48.8719	6.3139	1167	7768882	C. Senechal
Jura (JU)	Granges-Narboz	Jura	Bourgogne-Franche-Comté	France	48.8719	6.3139	1168	7768883	C. Senechal
Jura (JU)	Morbier	Jura	Bourgogne-Franche-Comté	France	46.5922	6.0557	1169	7768884	C. Senechal
Jura (JU)	Morbier	Jura	Bourgogne-Franche-Comté	France	46.5922	6.0557	1170	7768885	C. Senechal
Jura (JU)	Morbier	Jura	Bourgogne-Franche-Comté	France	46.5922	6.0557	1171	7768886	C. Senechal
Jura (JU)	Morbier	Jura	Bourgogne-Franche-Comté	France	46.5922	6.0557	1172	7768887	C. Senechal
Jura (JU)	Morbier	Jura	Bourgogne-Franche-Comté	France	46.5922	6.0557	1173	7768888	C. Senechal
Jura (JU)	Morbier	Jura	Bourgogne-Franche-Comté	France	46.5922	6.0557	1174	7768889	C. Senechal
Jura (JU)	Morbier	Jura	Bourgogne-Franche-Comté	France	46.5922	6.0557	1175	7768890	C. Senechal
Massif Central (MC)	Basville	Creuse	Nouvelle-Aquitaine	France	45.8584	2.3899	219	6623065	E. Dupoux
Massif Central (MC)	Basville	Creuse	Nouvelle-Aquitaine	France	45.8584	2.3899	220	6623066	T. Williamson
Massif Central (MC)	Basville	Creuse	Nouvelle-Aquitaine	France	45.8584	2.3899	1143	RC6032	E. Dupoux
Massif Central (MC)	Biollet	Puy-de-Dôme	Auvergne-Rhône-Alpes	France	46.0053	2.6862	640	6623204	R. Bussière
Massif Central (MC)	Biollet	Puy-de-Dôme	Auvergne-Rhône-Alpes	France	46.0053	2.6862	638	6623202	R. Bussière
Massif Central (MC)	Sauxillanges	Puy-de-Dôme	Auvergne-Rhône-Alpes	France	45.5851	3.3849	187	6651503	J. Fournier
Massif Central (MC)	Charron	Creuse	Nouvelle-Aquitaine	France	45.9814	2.5855	1140	7123053	E. Dupoux
Massif Central (MC)	Crocq	Creuse	Nouvelle-Aquitaine	France	45.8451	2.3782	221	6623067	E. Dupoux
Massif Central (MC)	Dontreix, forêt de Drouille	Creuse	Nouvelle-Aquitaine	France	45.9763	2.5856	1141	7123054	E. Dupoux
Massif Central (MC)	Dontreix, forêt de Drouille	Creuse	Nouvelle-Aquitaine	France	45.9763	2.5856	1142	7123055	E. Dupoux
Massif Central (MC)	Espinasse	Puy-de-Dôme	Auvergne-Rhône-Alpes	France	46.0405	2.6746	634	5439398	R. Bussière
Massif Central (MC)	Espinasse	Puy-de-Dôme	Auvergne-Rhône-Alpes	France	46.0405	2.6746	635	5439399	E. Dupoux
Massif Central (MC)	Espinasse	Puy-de-Dôme	Auvergne-Rhône-Alpes	France	46.0405	2.6746	636	5439400	R. Bussière
Massif Central (MC)	Espinasse	Puy-de-Dôme	Auvergne-Rhône-Alpes	France	46.0405	2.6746	637	6623201	E. Dupoux
Massif Central (MC)	Flayat	Creuse	Nouvelle-Aquitaine	France	45.7743	2.3678	222	6623069	E. Dupoux
Massif Central (MC)	Flayat	Creuse	Nouvelle-Aquitaine	France	45.7743	2.3678	227	6623076	T. Williamson
Massif Central (MC)	Laprugne	Creuse	Nouvelle-Aquitaine	France	45.9826	3.3731	1145	RC6037	C. Lebihan
Massif Central (MC)	Laprugne	Creuse	Nouvelle-Aquitaine	France	45.9826	3.3731	1146	RC6038	C. Lebihan

Massif Central (MC)	Laprugne	Creuse	Nouvelle-Aquitaine	France	45.9826	3.3731	1147	RC6039	C. Lebihan
Massif Central (MC)	Laprugne	Creuse	Nouvelle-Aquitaine	France	45.9826	3.3731	1148	RC6034	C. Lebihan
Massif Central (MC)	Roche-D'Agoux	Puy-de-Dôme	Auvergne-Rhône-Alpes	France	46.0410	2.6274	633	5439397	E. Dupoux
Massif Central (MC)	Roche-D'Agoux	Puy-de-Dôme	Auvergne-Rhône-Alpes	France	46.0358	2.6715	639	6623203	E. Dupoux
Massif Central (MC)	Saint-Martial-le-Vieux	Creuse	Nouvelle-Aquitaine	France	45.7012	2.3355	225	6623072	T. Williamson
Massif Central (MC)	Saint-Martial-le-Vieux	Creuse	Nouvelle-Aquitaine	France	45.7012	2.3355	226	6623073	E. Dupoux
Massif Central (MC)	Saint-Martial-le-Vieux	Creuse	Nouvelle-Aquitaine	France	45.7012	2.3355	1144	RC6033	E. Dupoux
Massif Central (MC)	Saint-Oradoux-de-Chirouze	Creuse	Nouvelle-Aquitaine	France	45.7362	2.3165	223	6623070	E. Dupoux
Massif Central (MC)	Saint-Oradoux-de-Chirouze	Creuse	Nouvelle-Aquitaine	France	45.7362	2.3165	224	6623071	E. Dupoux
Pyrenees (PY)	Angoustine-Villeneuve-des-Escalades	Pyrénées-Orientales	Occitanie	France	42.5570	2.0076	250	PG7590	G. Olioso. & J.-M. Pons
Pyrenees (PY)	Arudy	Pyrénées-Atlantiques	Nouvelle-Aquitaine	France	43.1019	-0.4919	206	RK9217	P. Legay
Pyrenees (PY)	Arudy	Pyrénées-Atlantiques	Nouvelle-Aquitaine	France	43.1019	-0.4919	207	RK9218	P. Legay
Pyrenees (PY)	Arudy	Pyrénées-Atlantiques	Nouvelle-Aquitaine	France	43.1019	-0.4919	208	RK9219	P. Legay
Pyrenees (PY)	Bethmale	Pyrénées-Atlantiques	Nouvelle-Aquitaine	France	42.8617	1.0872	1087	5126153	X. Rozec
Pyrenees (PY)	Bolquère	Pyrénées-Orientales	Occitanie	France	42.5519	2.0348	239	PG7586	G. Olioso. & J.-M. Pons
Pyrenees (PY)	Bolquère	Pyrénées-Orientales	Occitanie	France	42.5519	2.0348	240	PG7587	G. Olioso. & J.-M. Pons
Pyrenees (PY)	Font Romeu	Pyrénées-Orientales	Occitanie	France	42.5141	2.0118	727	PN7658	G. Olioso. & J.-M. Pons
Pyrenees (PY)	La Llagonne	Pyrénées-Orientales	Occitanie	France	42.5447	2.0438	253	PG7591	G. Olioso. & J.-M. Pons
Pyrenees (PY)	Laruns	Pyrénées-Atlantiques	Nouvelle-Aquitaine	France	42.9884	-0.4306	204		M. Clouet
Pyrenees (PY)	Laruns	Pyrénées-Atlantiques	Nouvelle-Aquitaine	France	42.9884	-0.4306	205		M. Clouet
Pyrenees (PY)	Laruns	Pyrénées-Atlantiques	Nouvelle-Aquitaine	France	42.9884	-0.4306	212		M. Clouet
Pyrenees (PY)	Laruns	Pyrénées-Atlantiques	Nouvelle-Aquitaine	France	42.9848	-0.4351	1095	RK9225	P. Legay
Pyrenees (PY)	Laruns	Pyrénées-Atlantiques	Nouvelle-Aquitaine	France	42.9848	-0.4351	1096	RK9226	P. Legay
Pyrenees (PY)	Les Angles	Pyrénées-Orientales	Occitanie	France	42.5867	2.0530	728	PN7675	G. Olioso. & J.-M. Pons
Pyrenees (PY)	Les Angles, la mate	Pyrénées-Orientales	Occitanie	France	42.6008	2.0999	731	PN7661	G. Olioso. & J.-M. Pons
Pyrenees (PY)	Mendive	Pyrénées-Atlantiques	Nouvelle-Aquitaine	France	43.0406	-1.0654	1093	RK9222	P. Legay
Pyrenees (PY)	Mendive	Pyrénées-Atlantiques	Nouvelle-Aquitaine	France	43.0406	-1.0654	1094	RK9223	P. Legay
Pyrenees (PY)	Osse-en-Aspe	Pyrénées-Atlantiques	Nouvelle-Aquitaine	France	42.9973	-0.6351	1088	6937602	P. Urbina-Tobias
Pyrenees (PY)	Osse-en-Aspe	Pyrénées-Atlantiques	Nouvelle-Aquitaine	France	42.9973	-0.6351	1089	6937603	P. Urbina-Tobias
Pyrenees (PY)	Osse-en-Aspe	Pyrénées-Atlantiques	Nouvelle-Aquitaine	France	42.9973	-0.6351	1090	6937604	P. Urbina-Tobias
Pyrenees (PY)	Osse-en-Aspe	Pyrénées-Atlantiques	Nouvelle-Aquitaine	France	42.9973	-0.6351	1091	6937605	P. Urbina-Tobias
Pyrenees (PY)	Osse-en-Aspe	Pyrénées-Atlantiques	Nouvelle-Aquitaine	France	42.9973	-0.6351	1092	6937606	P. Urbina-Tobias
Western France (WE)	Fontenai-les-Louvets	Orne	Normandie	France	48.5455	0.0390	770	2L9428	P. Mulot
Western France (WE)	Fontenai-les-Louvets	Orne	Normandie	France	48.5455	0.0390	771	2L9429	P. Mulot
Western France (WE)	Liffré	Ille-et-Vilaine	Bretagne	France	48.2095	-1.5390	912	7292365	F. Hemery
Western France (WE)	La Lande-de-Goult	Orne	Normandie	France	48.5835	-0.0619	768	2L9426	P. Mulot

Western France (WE)	La Lande-de-Goulte	Orne	Normandie	France	48.5835	-0.0619	772	2L9430	P. Mulot
Western France (WE)	Livaie	Orne	Normandie	France	48.5078	-0.0311	1149	2L9435	P. Mulot
Western France (WE)	Livaie	Orne	Normandie	France	48.5078	-0.0311	1150	2L9436	P. Mulot
Western France (WE)	Radon	Orne	Normandie	France	48.5133	0.0866	766	2L9423	P. Mulot
Western France (WE)	Saint Aubin du Cormier	Ille-et-Vilaine	Bretagne	France	48.2818	-1.4980	209	6746694	J.F. Le Bas
Western France (WE)	Saint Aubin du Cormier	Ille-et-Vilaine	Bretagne	France	48.2818	-1.4980	210	6627019	W. Raitière
Western France (WE)	Saint Aubin du Cormier	Ille-et-Vilaine	Bretagne	France	48.2818	-1.4980	211	6627020	W. Raitière
Western France (WE)	Saint-Aubin du Cormier	Ille-et-Vilaine	Bretagne	France	48.2818	-1.4980	218	RR2845	J. Mérot
Western France (WE)	Saint-Aubin du Cormier	Ille-et-Vilaine	Bretagne	France	48.2818	-1.4980	228	6746695	J.F. Le Bas
Western France (WE)	Saint-Aubin du Cormier	Ille-et-Vilaine	Bretagne	France	48.2818	-1.4980	764	7292363	J. Fournier
Western France (WE)	Saint-Aubin du Cormier	Ille-et-Vilaine	Bretagne	France	48.2818	-1.4980	765	7292364	J. Fournier
Western France (WE)	Saint-Gervais-du-Perron	Orne	Normandie	France	48.5468	-0.1207	1154	2L9442	P. Mulot
Western France (WE)	Saint-Nicolas-des-Bois	Orne	Normandie	France	48.5044	0.0199	767	2L9424	P. Mulot
Western France (WE)	Tanville	Orne	Normandie	France	48.5560	0.0032	769	2L9427	P. Mulot
Western France (WE)	Vingt-Hanaps	Orne	Normandie	France	48.5248	0.1140	1151	2L9439	P. Mulot
Western France (WE)	Vingt-Hanaps	Orne	Normandie	France	48.5248	0.1140	1152	2L9440	P. Mulot
Western France (WE)	Vingt-Hanaps	Orne	Normandie	France	48.5248	0.1140	1153	2L9441	P. Mulot

Table S2: Estimators of genetic diversity in each population for the five microsatellite loci. Na Number of alleles, N number of individuals; He and Ho expected and observed heterozygosity; G-W Garza-Williamson index. Allelic richness is also given for each locus.

	Na						N	Ho	He	G-H
	SpuL5-22 Locus1	SS1-12 Locus 2	SS1-11 Locus 3	SS2-80 Locus 4	SpuL6-16 Locus 5	SS3-42C Locus 6				
Corsica	2	3	3	12	6	3	109	0.38	0.39	0.85
Central Italy	2	1	3	7	5	2	26	0.36	0.41	0.84
France –Alpes	4	2	7	13	9	2	23	0.52	0.55	0.77
France- West	3	1	5	16	4	2	22	0.47	0.59	0.83
France - East	4	1	8	10	7	3	20	0.68	0.70	0.83
France – Jura	5	1	4	10	3	2	9	0.70	0.67	0.96
France –Massif central	4	2	8	16	4	2	27	0.52	0.54	0.86
France -Pyrenees	2	1	4	14	7	2	22	0.59	0.57	0.76
Total	3.2	1.5	5.2	12.2	5.6	2.2	-	0.51	0.53	0.84
Allelic richness	2.5	1.4	3.4	7.9	4.9	2.2				

Table S3. Fraction of individuals in population 1 that are migrants derived from population 2 (per generation) as estimated by BayesAss+.

Results from the two runs are presented. Numbers between brackets represent the 95% Highest Posterior Density.

	m[Corsica][C orsica]	m[Corsica][Ita ly]	m[Corsica][I France]	m[Italy][Corsi ca]	m[Itay][Ita ly]	m[Italy][Fran ce]	m[France][Corsi ca]	m[France][Ital y]	m[France][F rance]
Run 1	0.9886 (0.9756- 0.9993)	0.00413 (1.11*10 ⁻⁷ - 0.0118)	0.00723 (1.318*10 ⁻⁶ - 0.0187)	0.0144 (1.039*10 ⁻⁶ - 0.0404)	0.964 (0.9191- 0.9973)	0.0219 (2.20*10 ⁻⁷ - 0.0614)	0.00472 (1.7486*10 ⁻⁶ - 0.0134)	0.0375 (8.7567*10 ⁻⁴ - 0.0795)	0.958 (0.915- 0.9956)
Run2	0.9887 (0.9758-0.999)	0.00419 (3.7976*10 ⁻⁷ - 0.0121)	0.007115 (6.0155*10 ⁻⁷ - 0.0183)	0.0138 (8.5468*10 ⁻⁷ - 0.0398)	0.9641 (0.9188- 0.993)	0.022 (4.8113*10 ⁻⁷ - 0.0619)	0.0047672 (1.6752*10 ⁻⁶ - 0.0139)	0.03689 (2.5472*10 ⁻⁴ - 0.0789)	0.9583 (0.9146- 0.9957)

Table S4: mtDNA Genetic distances (K2P in %) among populations of Corsica, France and Central Italy (N=257)

	Co	Ju	Al	Py	MC	It	EF
Ju	2.4						
Al	2.4	0.08					
Py	2.4	0.09	0.07				
MC	2.3	0.06	0.04	0.06			
It	2.3	0.05	0.02	0.05	0.01		
EF	2.3	0.07	0.05	0.06	0.03	0.02	
WF	2.3	0.06	0.04	0.06	0.03	0.01	0.03

Co = Corsica, Ju = Jura, Al = Alps, Py = Pyrenees, MC = Massif central, It = Italy, EF = Eastern France, WF = Western France

Table S5: Morphological variations in Hind Claw Length (HCL) and bill length at nostrils (BLN) among insular (Corsica, CO) and mainland populations (French, FR; Central Italy, IT) of the Eurasian treecreeper. Insular birds have longer bill length and shorter hind claw than mainland birds.

	Mean (CI)				
	FR	IT	CO	Statistics	multiple comparisons tests
BLN (N = 310)	11.08 (10.89-11.27)	11.83 (11.43-12.24)	13.07 (12.89-13.25)	KW-Chi-square = 145.56 df = 2, P < 0.00001	NP test: CO vs FR, IT, P < 0.05
HCL (N = 297)	9.38 (9.27-9.48)	9.77 (9.43-10.11)	8.54 (8.43-8.66)	ANOVA = 62.44 df = 2, P < 0.00001	Tuckey test: CO vs FR, IT, P < 0.00001 Tuckey test: IT vs FR, P = 0.03

Table S6: Results of a standardized principal components analysis using correlation matrix performed on Eurasian treecreepers with four biometric variables.

	PC1	PC2	PC3	PC4
Eigen values	1.69	1.07	0.80	0.45
% total variance	42.18	26.8	19.93	11.13
Component loadings				
Wing length	0.57	0.38	0.42	-0.59
Bill length	0.66	0.03	0.11	0.74
Hind claw length	-0.48	0.34	0.75	0.31
Tarsus length	-0.08	0.86	-0.50	0.11

FIGURES

Figure S1: Sampling localities and sample size per locality (in brackets) in Corsica.

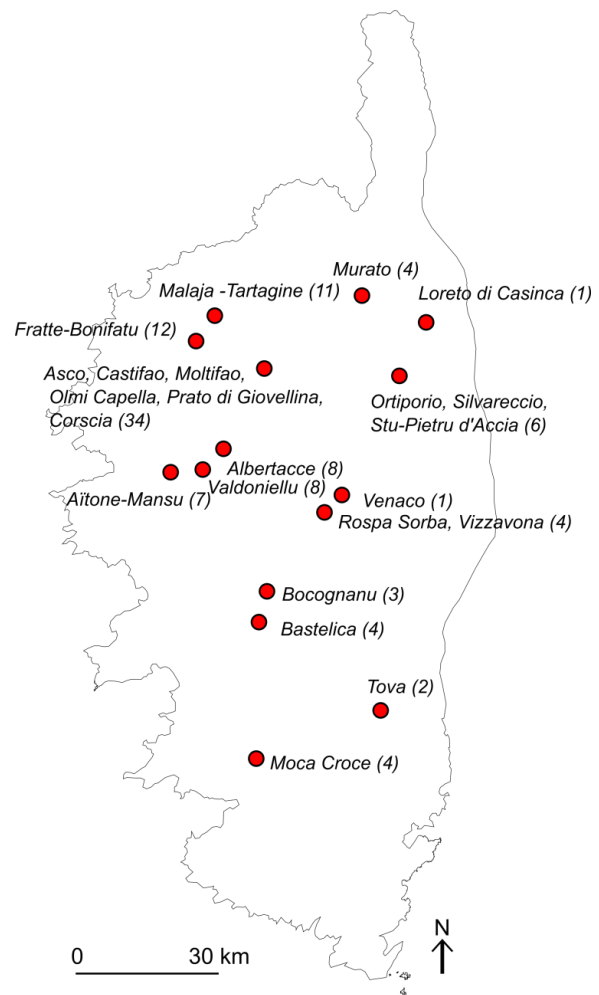


Figure S2: Results of ΔK statistics for (A) the complete data set (best $K = 3$), (B) the analysis with only the Corsican samples, and (C) the analysis with only the samples from continental France. The curves in B and C show several modal values for ΔK , indicating that no groups were detected within these data sets.

