

Hybridization patterns in two contact zones of grass snakes reveal a new Central European snake species

Carolin Kindler, Maxime Chèvre, Sylvain Ursenbacher, Wolfgang Böhme,
Axel Hille, Daniel Jablonski, Melita Vamberger & Uwe Fritz

Scientific Reports

Supplementary Information

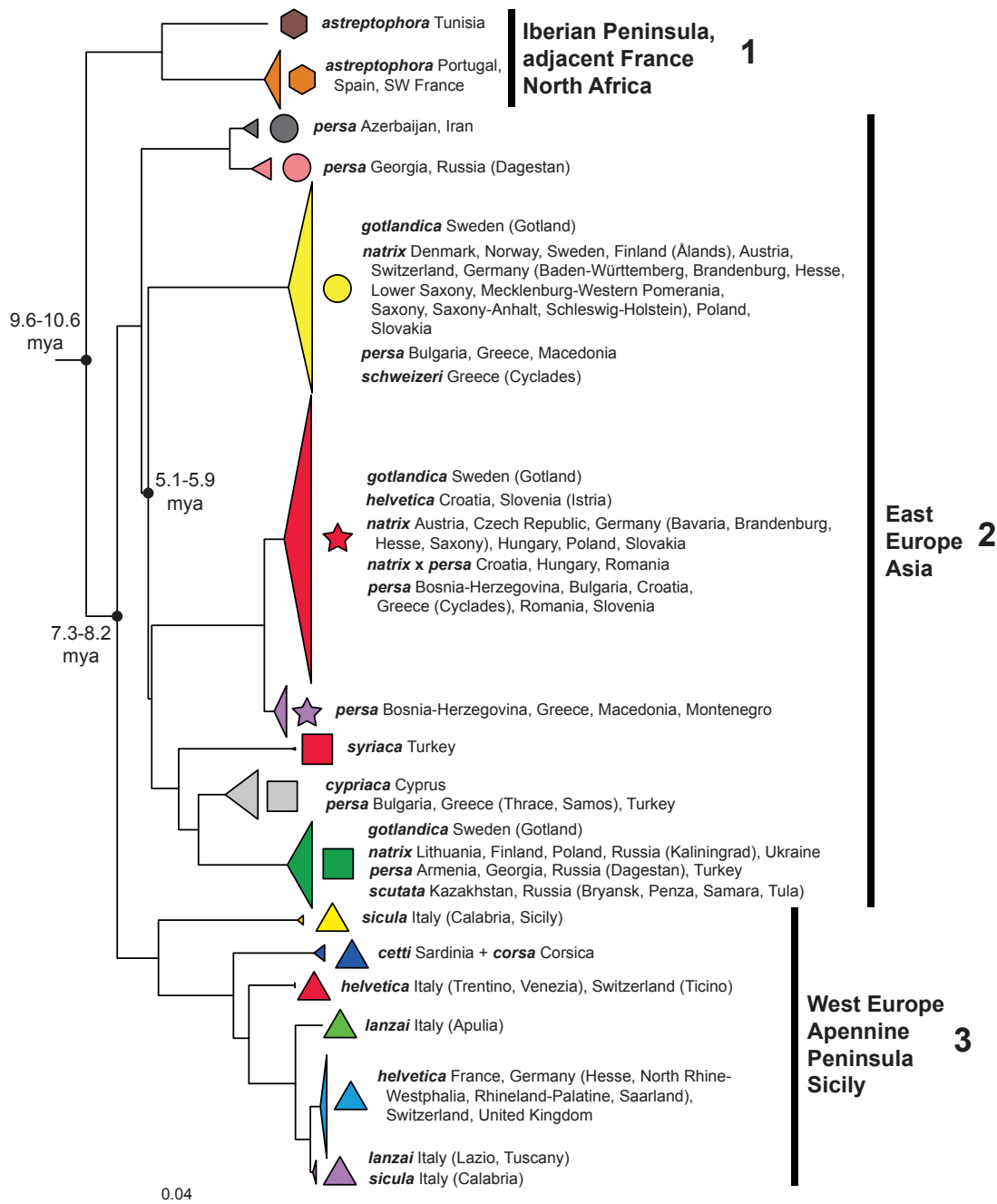


Figure S1. Simplified mitochondrial phylogeny for grass snakes (from Kindler *et al.* 2013, 2014 based on 1,984 bp of ND4 and *cyt b*). The three major clades 1-3 are highlighted; numbers at nodes indicate split ages according to Fritz *et al.* (2012). The new record for Gotland, Sweden, is added (clade with green square). Note the many mismatches between morphologically defined taxa and mitochondrial clades. The traditional identification of grass snakes from Istria (Kabisch 1999; Kreiner 2007) is in error and also conflicts with morphology (unpubl. data). The figure was created using ADOBE ILLUSTRATOR CS6 (<http://www.adobe.com/products/illustrator.html>).

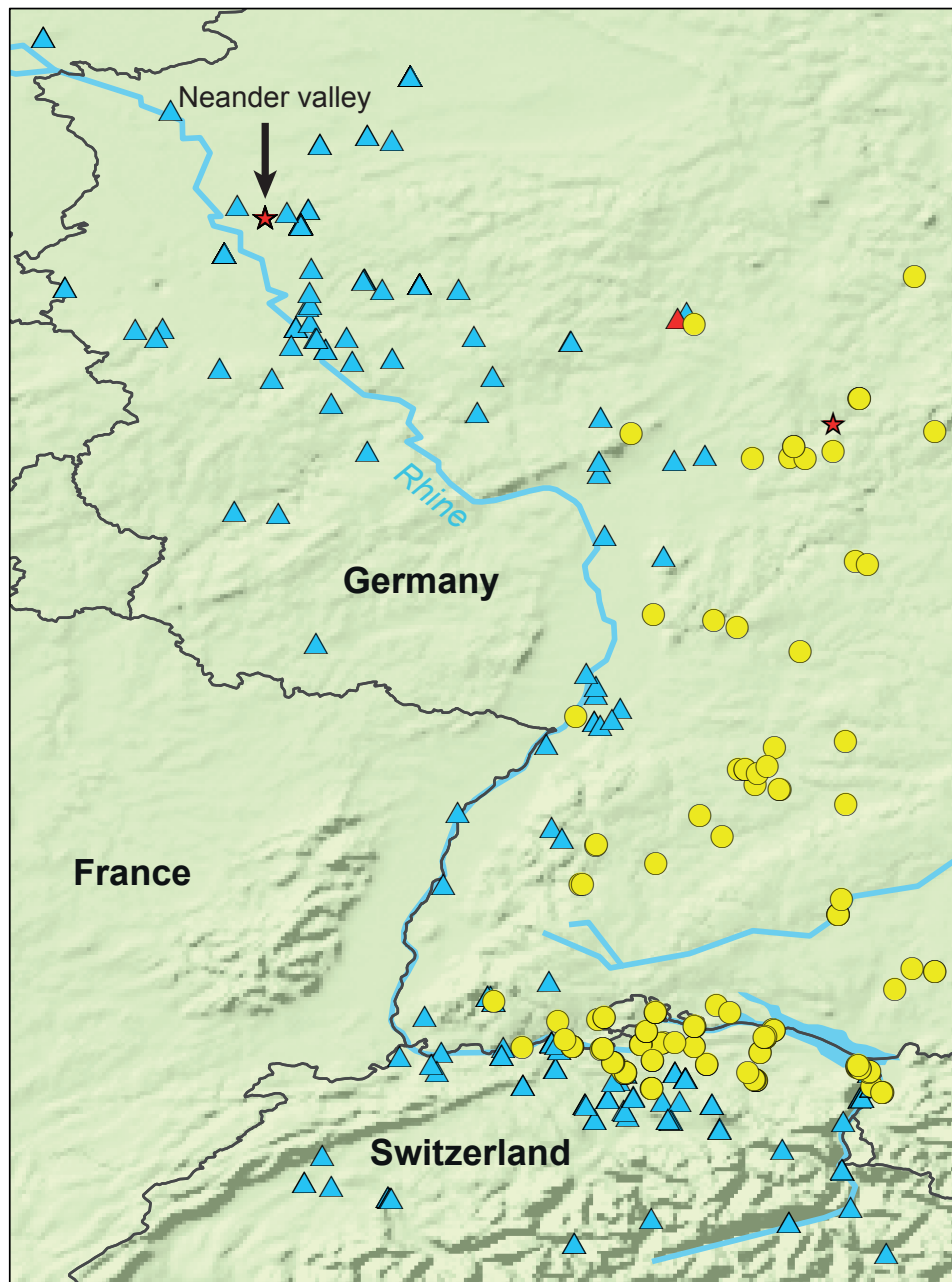
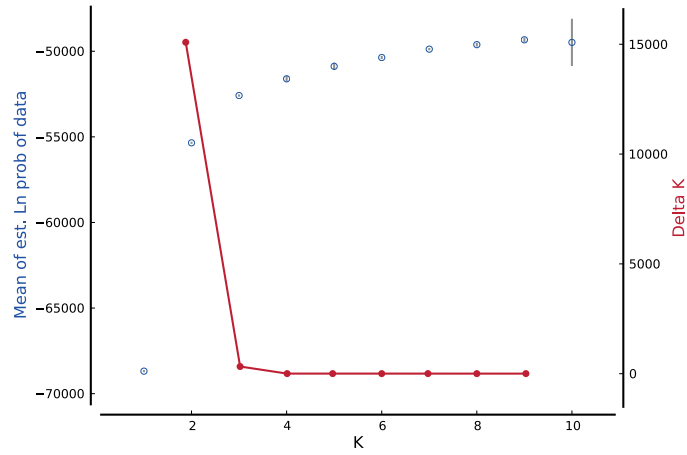
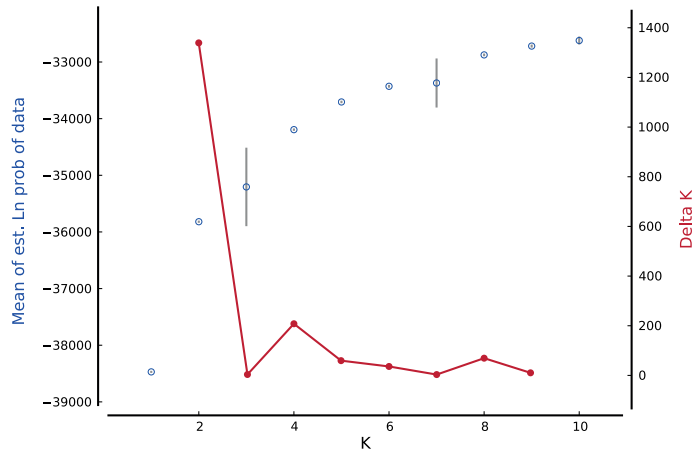


Figure S2. Distribution of mitochondrial haplotypes in the western contact zone. Symbols correspond to Figures 1 and S1. Arrow highlights allochthonous population of the 'red lineage' in the Neander valley. Red triangle represents a non-native lineage from northern Italy. Map was created using ARCGIS 10.2 (<http://www.esri.com/arcgis>) and ADOBE ILLUSTRATOR CS6 (<http://www.adobe.com/products/illustrator.html>).

(a) *helvetica* and all eastern lineages



(b) All eastern lineages without impact of *helvetica*



(c) Yellow and red lineage without impact of adjacent lineages

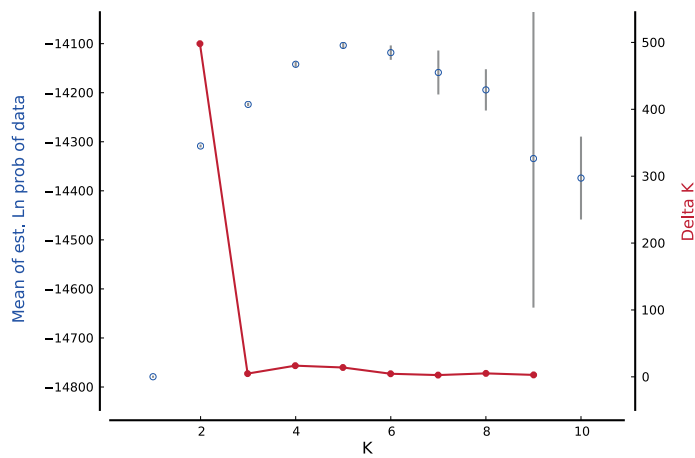


Figure S3. ΔK values and posterior probabilities for STRUCTURE runs for three data sets using STRUCTURE HARVESTER (Earl & vonHoldt, 2012). The modal value is always at $K=2$. $K=1$ could be excluded because of the higher posterior probabilities for $K=2$.

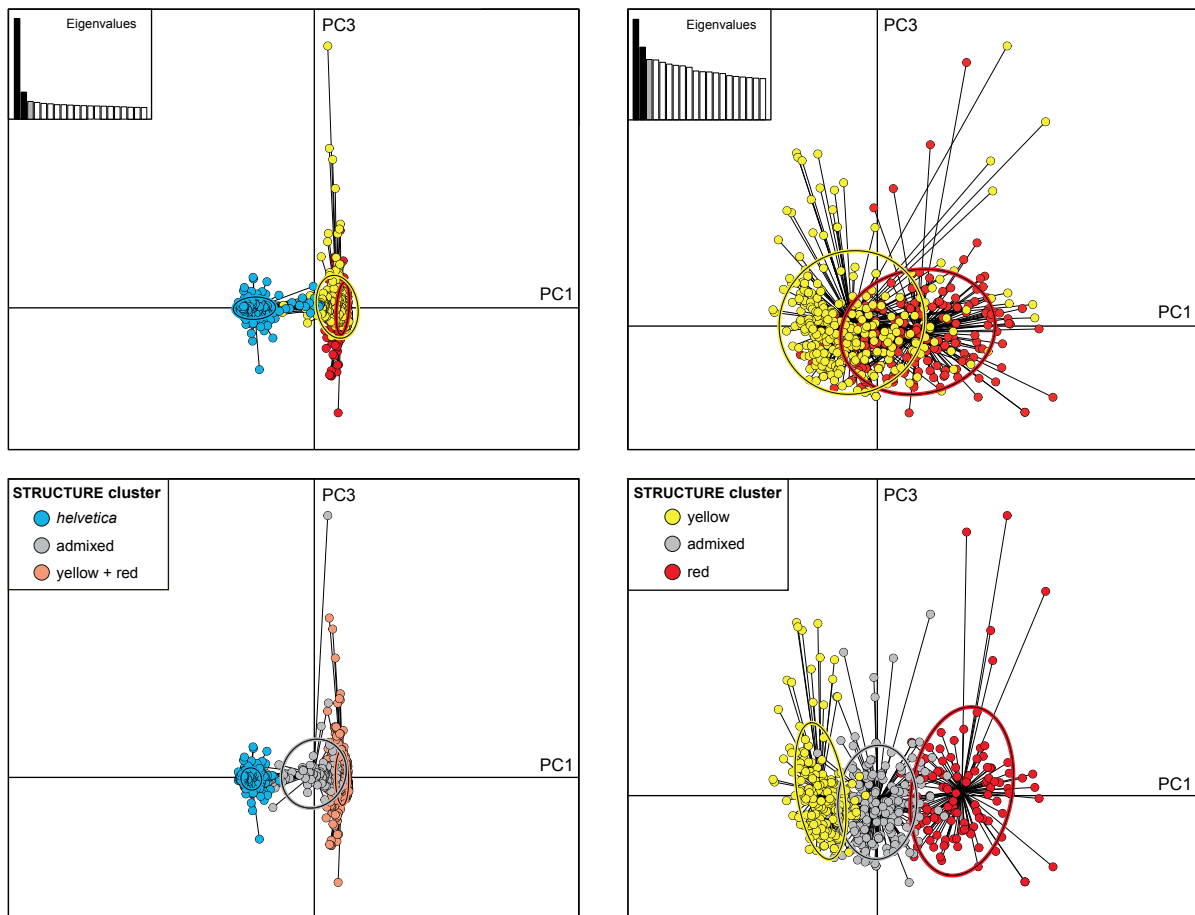


Figure S4. PCA axes 1–3 for microsatellite data of both contact zones. Samples are coloured according to mtDNA lineages (top) and STRUCTURE clusters (bottom). Admixed individuals were categorized according to HYBRIDLAB results. PCAs for the yellow and red lineages correspond to the samples from Figure 3c. Non-native samples were excluded. The oval outlines represent 95% confidential intervals. For *helvetica* and the eastern lineages (left), the x axis explains 16.6% and the y axis 2.9% of variation. For the eastern lineages (right), the x axis explains 3.8% and the y axis 2.4% of variation.

Table S1. Samples studied. Blue vouchers correspond to samples processed at the University of Basel. mtDNA data colour-coded according to genetic lineage. Accession numbers indicate samples from previous studies which were too short for an unambiguous assignment to haplotypes. STRUCTURE clusters colour-coded according to legend on the right.

Colour code:

helvetica cluster	cluster yellow + red	yellow cluster
eastern cluster	cluster adjacent lineages	red cluster
admixed	admixed	admixed

Voucher	Locality	mtDNA data			Microsatellite data			Reference
		mtDNA clade	ND4 haplotype	cyt b haplotype	First STRUCTURE run	Second STRUCTURE run	Third STRUCTURE run	
MTD T 10627	Albania: Boboshticë	5	111	110	0.00	0.39	-	This study
MTD T 13543	Albania: Capijati pass	5	12	110	0.04	0.04	-	This study
MTD T 13544	Albania: Capijati pass	5	12	118	0.00	0.71	-	This study
MTD T 14777	Albania: Dvojakë-Karavastë National Park	5	17	115	0.03	0.04	-	This study
MTD T 11602	Albania: Fiores	5	15	118	0.01	0.18	-	This study
MTD T 13803	Albania: Gëzbovë	5	12	116	0.01	0.21	-	This study
MTD T 11603	Albania: Koder	5	16	-	0.05	0.04	-	This study
MTD T 13804	Albania: near Memaçaj; Schendil Mountains	5	13	-	0.00	0.02	-	This study
MTD T 13905	Albania: near Memaçaj; Schendil Mountains	5	12	-	0.01	0.11	-	This study
MTD T 13906	Albania: near Memaçaj; Schendil Mountains	5	19	117	0.10	-	-	This study
MTD T 13901	Albania: near Sakë; Trebeshtine Mountains	5	12	110	0.25	-	-	This study
MTD T 13902	Albania: near Sakë; Trebeshtine Mountains	5	12	119	0.01	0.02	-	This study
MTD T 11598	Albania: near Sakë; Trebeshtine Mountains	5	120	120	0.01	0.33	-	This study
MTD T 11599	Albania: Shalës	5	16	110	0.00	0.16	-	This study
MTD T 11600	Albania: Shalës	5	16	121	0.00	0.10	-	This study
MTD T 14757	Armenia: Nobkhark	8	gn10	gn17	0.02	0.03	-	This study
MTD T 14758	Armenia: Nobkhark	8	gn10	gn17	0.01	0.02	-	This study
MTD T 14759	Armenia: Nobkhark	8	gn10	gn17	0.09	-	-	This study
ZFMK 65105	Austria: Burgenland: Andau	4	r30	r3	0.00	0.80	-	Kindler et al. (2013)
NHMW 39266 (2)	Austria: Burgenland: Apetlon	4	r3	r18	0.00	0.98	0.05	This study
ZFMK 68656	Austria: Burgenland: Apetlon	4	r4	r34	0.00	0.91	-	Kindler et al. (2013)
ZFMK 55995	Austria: Burgenland: Brieterebrunn	4	r4	r34	0.00	0.83	-	Kindler et al. (2013)
NHMW 39030 (2)	Austria: Burgenland: Eisenstadt	4	r4	r34	0.00	0.96	0.15	This study
ZFMK 51746	Austria: Burgenland: Hölle	4	-	r35	0.00	0.93	-	Kindler et al. (2013)
ZFMK 74926	Austria: Burgenland: Illnitzz	4	r4	r34	0.00	0.92	-	Kindler et al. (2013)
ZFMK 83775	Austria: Burgenland: Illnitzz	4	-	r65	0.00	0.96	0.15	Kindler et al. (2013)
ZFMK 65687	Austria: Burgenland: Jois	4	r3	r10	0.00	0.69	-	Kindler et al. (2013)
NHMW 38644	Austria: Burgenland: Lake Neusiedl	4	r3	-	0.00	0.92	-	This study
MTD T 11991	Austria: Burgenland: Lake Neusiedl: Illnitzz	4	r4	-	0.00	0.56	-	This study
MTD T 12062	Austria: Burgenland: Lake Neusiedl: Illnitzz	4	r4	-	0.01	0.52	-	This study
MTD T 12063	Austria: Burgenland: Lake Neusiedl: Illnitzz	4	r4	-	0.00	0.86	-	This study
NHMW 38809	Austria: Burgenland: Lake Neusiedl: Illnitzz	4	r4	r34	0.00	0.79	-	This study
NHMW 39436 (2)	Austria: Burgenland: Lake Neusiedl: Illnitzz	4	r4	r43	0.00	0.97	0.09	This study
NHMW 40024 (1)	Austria: Burgenland: Lake Neusiedl: Illnitzz	4	r4	r15	0.00	0.89	-	This study
MTD T 11986	Austria: Burgenland: Lake Neusiedl: Jois	4	r4	r53	0.00	0.90	-	This study
MTD T 11987	Austria: Burgenland: Lake Neusiedl: Jois	4	r4	r39	0.00	0.95	0.09	This study
MTD T 11988	Austria: Burgenland: Lake Neusiedl: Jois	4	r30	-	0.00	0.78	-	This study
MTD T 11989	Austria: Burgenland: Lake Neusiedl: Jois	4	r4	r34	0.00	0.98	0.18	This study
MTD T 11990	Austria: Burgenland: Lake Neusiedl: Jois	4	r4	-	-	-	-	This study
MTD T 11992	Austria: Burgenland: Lake Neusiedl: Jois	4	r4	r56	0.00	0.96	0.06	This study
MTD T 12068	Austria: Burgenland: Lake Neusiedl: Jois	4	r4	-	-	-	-	This study
MTD T 12069	Austria: Burgenland: Lake Neusiedl: Jois	4	r4	-	0.00	0.98	0.18	This study
MTD T 12070	Austria: Burgenland: Lake Neusiedl: Jois	4	r4	-	-	-	-	This study
MTD T 12071	Austria: Burgenland: Lake Neusiedl: Jois	4	r4	-	0.00	0.96	0.10	This study
MTD T 12072	Austria: Burgenland: Lake Neusiedl: Jois	4	r4	-	-	-	-	This study
MTD T 12073	Austria: Burgenland: Lake Neusiedl: Jois	4	r4	-	-	-	-	This study
MTD T 12074	Austria: Burgenland: Lake Neusiedl: Jois	4	r4	-	0.00	0.90	-	This study
MTD T 12075	Austria: Burgenland: Lake Neusiedl: Jois	4	r4	-	-	-	-	This study
MTD T 12076	Austria: Burgenland: Lake Neusiedl: Jois	4	r30	r10	0.00	0.79	-	This study
MTD T 12077	Austria: Burgenland: Lake Neusiedl: Jois	4	r3	-	0.00	0.69	-	This study
MTD T 12078	Austria: Burgenland: Lake Neusiedl: Jois	4	r4	-	-	-	-	This study
NHMW 39266 (1)	Austria: Burgenland: Lake Neusiedl: Neusiedl am See	4	r4	r56	0.00	0.98	0.22	This study
ZFMK 51670	Austria: Burgenland: Weiden am See	4	r10	r34	0.00	0.67	-	Kindler et al. (2013)
ZFMK 91242	Austria: Burgenland: Ziznamsdorfer Wiesen	4	r4	r35	0.00	0.89	-	Kindler et al. (2013)
MTD T 11964	Austria: Carinthia: Lake Faak	4	r4	-	-	-	-	This study
NHMW 39030 (1)	Austria: Lower Austria: Asperndorf	4	r4	r34	0.00	0.99	0.14	This study
MTD T 9912	Austria: Lower Austria: Bergen	4	r3	r10	0.00	0.87	-	Kindler et al. (2013)
NHMW 38541	Austria: Lower Austria: Ernshausen	4	r4	r34	0.00	0.98	0.09	This study
NHMW 36728	Austria: Lower Austria: Grünbach am Schneeberg	4	r4	r34	0.00	0.98	0.37	This study
ZFMK 83922	Austria: Lower Austria: Losenheim	4	r9	r34	0.00	0.91	-	Kindler et al. (2013)
NHMW 36405 (3)	Austria: Lower Austria: NE Döbings	4	r4	r34	0.02	0.97	0.13	This study
NHMW 36695 (1)	Austria: Lower Austria: near Hollbrunn	4	r3	r10	0.00	0.99	0.17	This study
NHMW 36695 (2)	Austria: Lower Austria: near Hollbrunn	4	r3	r10	0.00	0.86	-	This study
NHMW 36405 (2)	Austria: Lower Austria: Obereditz	4	r4	r34	0.00	0.98	0.06	This study
NHMW 40084 (2)	Austria: Lower Austria: Orth an der Donau	4	r3	r10	0.00	0.89	-	This study
NHMW 38557 (1)	Austria: Lower Austria: Perchtoldsdorf	4	r4	r52	0.00	0.83	-	This study
NHMW 39496	Austria: Lower Austria: Petronell-Carnuntum	4	r3	-	-	-	-	This study
NHMW 39436 (1)	Austria: Lower Austria: Sommerein	4	r4	r34	0.00	0.85	-	This study
NHMW 37311	Austria: Lower Austria: St. Pöllen	4	r3	r10	0.03	0.96	0.10	This study
NHMW 38810	Austria: Lower Austria: St. Valentin	4	r3	r10	0.00	0.98	0.10	This study
NHMW 40084 (1)	Austria: Lower Austria: Stöptenbrunn	4	r3	r5	0.00	0.97	0.08	This study
ZFMK 73648	Austria: Styria: Admont/Gesäuse	3	r4	r5	0.00	0.96	0.06	Kindler et al. (2013)
NHMW 36994	Austria: Styria: Ebbswald	4	r4	r34	0.00	0.74	-	This study
MTD T 14544	Austria: Styria: Graz	4	r4	-	-	-	-	This study
MTD T 14539	Austria: Styria: Seewiesen	4	r4	r41	0.02	0.60	-	This study
NHMW 39266 (3)	Austria: Upper Austria: between Stadl Paura and Stadl Trum	4	r4	r35	0.00	0.84	-	This study
NHMW 38946	Austria: Upper Austria: Maunhausen	4	r3	r21	0.00	0.99	0.05	This study
NHMW 36405 (1)	Austria: Upper Austria: St. Ulrich bei Steyr	4	r3	r21	0.00	0.96	0.06	This study
NHMW 37422	Austria: Upper Austria: St. Ulrich bei Steyr	4	r3	r10	0.00	0.98	0.13	This study
NHMW 38038	Austria: Upper Austria: St. Ulrich bei Steyr	4	r3	r10	0.00	0.28	-	This study
NHMW 38599	Austria: Upper Austria: St. Ulrich bei Steyr	3	y1	y5	0.00	0.99	0.06	This study
NHMW 39122	Austria: Upper Austria: St. Ulrich bei Steyr	3	y1	y5	0.02	0.95	0.12	This study
NHMW 40024 (2)	Austria: Upper Austria: St. Ulrich bei Steyr	4	r3	r10	0.00	0.80	-	This study
NHMW 40036 (1)	Austria: Upper Austria: St. Ulrich bei Steyr	3	y1	y5	0.00	0.83	-	This study
NHMW 40036 (2)	Austria: Upper Austria: St. Ulrich bei Steyr	4	r3	r10	0.00	0.99	0.08	This study
MTD T 14561	Austria: Vienna	4	r3	r12	0.00	0.99	0.09	This study
MTD T 14562	Austria: Vienna	4	r3	r10	0.00	0.96	0.04	This study
MTD T 9903	Austria: Vienna: Danube Island	4	r3	r26	0.00	0.94	-	Kindler et al. (2013)
MTD T 9904	Austria: Vienna: Danube Island	4	r19	r34	0.00	0.80	-	Kindler et al. (2013)
MTD T 9905	Austria: Vienna: Danube Island	4	r3	r10	0.00	0.96	0.16	Kindler et al. (2013)
NHMW 36284	Austria: Vienna: Danube Island	4	r3	-	-	-	-	This study
NHMW 36359	Austria: Vienna: Danube Island	4	r3	r10	0.00	0.94	-	This study
NHMW 38557 (2)	Austria: Vienna: Hadersdorf-Weidlingau	4	r3	r10	0.00	0.96	0.08	This study
MTD T 8976	Bosnia and Herzegovina: Maglić Mountain: Prijedor	4	r7	r32	0.01	0.39	-	Kindler et al. (2013)
MTD T 12836	Bosnia and Herzegovina: near Capijina: Hutovo Blato	4	r4	r34	0.01	0.13	-	This study
MTD T 12837	Bosnia and Herzegovina: near Capijina: Hutovo Blato	5	18	-	0.00	0.02	-	This study
MTD T 8644	Bosnia and Herzegovina: near Capijina: Hutovo Blato	5	12	112	0.00	0.03	-	Kindler et al. (2013)
MTD T 8645	Bosnia and Herzegovina: near Capijina: Hutovo Blato	5	12	112	0.01	0.05	-	Kindler et al. (2013)
MTD D #6092	Bulgaria: Albena	3	-	HF680126	0.01	0.23	-	Kindler et al. (2013)
MTD T 10951	Bulgaria: Aeklitino	7	g21	g27	0.01	0.07	-	This study
ZFMK 59679	Bulgaria: Aeklitino	7	g21	g24	0.00	0.07	-	Kindler et al. (2013)
MTD T 10939	Bulgaria: Aconigrad: Aconitza river	7	g21	g24	0.01	0.04	-	This study
MTD T 10953	Bulgaria: between Pizemovo and Primesko	7	g26	-	0.00	0.05	-	This study
MTD T 10954	Bulgaria: between Pizemovo and Primesko	7	g21	g210	0.01	0.02	-	This study
MTD T 8653	Bulgaria: Bezhanovo	4	r3	r3	0.01	0.31	-	Kindler et al. (2013)
MTD T 10952	Bulgaria: Bosna pass	7	g210	g22	0.01	0.02	-	This study
MTD T 10948	Bulgaria: Brashlyan	7	g22	g24	0.00	0.10	-	This study
MTD T 10949	Bulgaria: Brashlyan	7	g210	g22	0.00	0.14	-	This study
MTD T 8654	Bulgaria: Etropole	4	r4	r34	0.02	0.26	-	Kindler et al. (2013)
MTD T 18923	Bulgaria: Levunovo	3	y20	y30	0.01	0.45	-	Kindler et al. (2013)

• Table S1 continued

Voucher	Locality	mtDNA data			Microsatellite data			Reference
		mtDNA clade	ND4 haplotype	cyt b haplotype	First STRUCTURE run	Second STRUCTURE run	Third STRUCTURE run	
MTD T 18924	Bulgaria: Lovenovo	3	y15	y10	0.00	0.08	-	Kindler et al. (2013)
MTD T 10940	Bulgaria: Liljanovo	3	y20	y29	0.00	0.55	-	This study
MTD T 14446	Bulgaria: Lozorets	7	gy1	gy29	0.01	0.02	-	This study
MTD T 9321	Bulgaria: Malko Gradšte (pass)	7	gy1	gy4	0.00	0.53	-	Kindler et al. (2013)
MTD D 29984	Bulgaria: Mlačin	4	r4	r34	-	-	-	Kindler et al. (2013)
BEV.T4054	Bulgaria: Novo selo	3	y15	y10	0.01	0.29	-	This study
MTD T 9910	Bulgaria: Novo Selo	3	-	y10	0.01	0.29	-	Kindler et al. (2013)
MTD T 10946	Bulgaria: Pass to Silvarovo	7	gy10	gy2	0.01	0.05	-	This study
MTD T 9012	Bulgaria: Pejo-Zavecov	3	y18	y30	0.02	0.36	-	Kindler et al. (2013)
MTD T 9013	Bulgaria: Pejo-Zavecov	3	y20	y29	0.00	0.03	-	Kindler et al. (2013)
MTD T 12965	Bulgaria: Ponorie	7	gy4	gy11	0.00	0.03	-	This study
MTD T 10941	Bulgaria: Primorsko	7	gy5	gy6	0.00	0.31	-	This study
MTD T 10943	Bulgaria: Primorsko	7	gy1	gy4	0.03	0.04	-	This study
MTD T 9318	Bulgaria: Ropotamo	7	gy9	gy2	0.00	0.04	-	Kindler et al. (2013)
MTD T 9319	Bulgaria: Ropotamo	7	gy5	gy6	0.11	-	-	Kindler et al. (2013)
MTD T 10942	Bulgaria: Ropotamo	7	gy9	gy2	0.01	0.12	-	This study
MTD D 19566	Bulgaria: Sandanski	3	y20	y30	0.01	0.27	-	Kindler et al. (2013)
MTD D 20867	Bulgaria: Sandanska Bistrica Valley	3	HF679836	HF680138	0.01	0.52	-	Kindler et al. (2013)
MTD T 8649	Bulgaria: Shipka pass	7	HF679838	gy4	0.01	0.47	-	Kindler et al. (2013)
MTD T 14453	Bulgaria: Svistov	4	r4	r31	0.01	0.43	-	This study
MTD T 14454	Bulgaria: Svistov	4	r4	r34	0.00	0.96	0.31	This study
MTD T 10920	Bulgaria: Zvezdets	7	gy3	gy5	0.01	0.05	-	This study
ZFMK 54795	Croatia: 25 km N Rijeka: Gomance	4	r18	-	0.00	0.05	-	This study
ZFMK 92199	Croatia: Brankovec	4	r4	r34	0.01	0.21	-	Kindler et al. (2013)
ZFMK 91558	Croatia: Intra: NE Lupačev	4	r17	r60	0.01	0.10	-	Kindler et al. (2013)
MTD D 32031	Croatia: Intra: Rovinj	4	r4	r34	0.02	0.02	-	Kindler et al. (2013)
MTD D 32032	Croatia: Intra: Rovinj	4	r4	r34	0.00	0.05	-	Kindler et al. (2013)
MTD D 20790	Croatia: Kik	4	r16	HF679930	0.00	0.06	-	Kindler et al. (2013)
MTD T 11596	Croatia: Kik	4	r16	r34	0.01	0.21	-	This study
MTD T 11597	Croatia: Kik	4	r16	r34	0.00	0.43	-	This study
MTD T 13249	Croatia: Kik	4	r16	r34	0.01	0.02	-	This study
MTD T 13250	Croatia: Kik	4	r16	r34	0.00	0.04	-	This study
MTD T 13251	Croatia: Kik	4	r18	r62	0.01	0.08	-	This study
ZFMK 49044	Croatia: Kik: N Kik	4	r16	-	0.00	0.04	-	Kindler et al. (2013)
ZFMK 54766	Croatia: Kuk: Panat	4	r16	-	0.00	0.08	-	Kindler et al. (2013)
ZFMK 54709	Croatia: near Šibenik: Krka falls	4	r11	-	0.00	0.08	-	Kindler et al. (2013)
NHMW 37852	Croatia: Pag: Vlaisci	4	r4	r35	0.00	0.04	-	This study
ZFMK 54707	Croatia: Plitvice	4	r16	r34	-	-	-	Kindler et al. (2013)
MTD T 11112	Croatia: Rab: Lopar	4	r4	r34	0.00	0.02	-	This study
MTD T 11211	Croatia: Rab: Lopar	4	r4	r34	0.00	0.04	-	This study
BEV.1242	Croatia: southern edge of the Neretva Delta	5	r15	-	0.01	0.02	-	This study
MTD T 9873	Croatia: Vransko Jezero	4	r16	-	0.00	0.02	-	Kindler et al. (2013)
ZFMK 76296	Cyprus: Larnaka: Paralimni	7	gy11	-	0.01	0.01	-	Kindler et al. (2013)
MTD T 11876	Cyprus: Xyliftos dam	7	gy11	-	0.01	0.01	-	This study
MTD T 11808	Cyprus: Xyliftos dam	7	gy11	gy3	0.00	0.01	-	This study
MTD T 11809	Cyprus: Xyliftos dam	7	gy11	gy3	0.00	0.01	-	This study
MTD T 11910	Cyprus: Xyliftos dam	7	gy11	gy3	0.01	0.01	-	This study
MTD T 11911	Cyprus: Xyliftos dam	7	gy11	gy3	0.01	0.01	-	This study
MTD T 11912	Cyprus: Xyliftos dam	7	gy6	gy9	0.01	0.03	-	This study
MTD T 11913	Cyprus: Xyliftos dam	7	gy6	gy9	0.00	0.03	-	This study
MTD T 11914	Cyprus: Xyliftos dam	7	gy6	gy9	0.00	0.04	-	This study
MTD T 11915	Cyprus: Xyliftos dam	7	gy6	gy9	0.01	0.02	-	This study
MTD T 11916	Cyprus: Xyliftos dam	7	gy6	gy9	0.00	0.08	-	This study
MTD T 11917	Cyprus: Xyliftos dam	7	gy6	gy9	0.00	0.09	-	This study
MTD T 11982	Cyprus: Xyliftos dam	7	gy11	gy3	0.00	0.01	-	This study
MTD T 11984	Cyprus: Xyliftos dam	7	gy11	-	0.01	0.01	-	This study
MTD T 11985	Cyprus: Xyliftos dam	7	-	gy3	0.01	0.01	-	This study
MTD T 12084	Cyprus: Xyliftos dam	7	-	gy3	0.01	0.01	-	This study
MTD T 12085	Cyprus: Xyliftos dam	7	gy11	gy3	0.01	0.01	-	This study
MTD T 12087	Cyprus: Xyliftos dam	7	gy11	gy3	0.01	0.01	-	This study
MTD T 12089	Cyprus: Xyliftos dam	7	gy11	gy3	0.01	0.01	-	This study
MTD T 12090	Cyprus: Xyliftos dam	7	gy11	gy3	0.01	0.01	-	This study
MTD T 12094	Cyprus: Xyliftos dam	7	gy11	gy3	0.01	0.01	-	This study
MTD T 12095	Cyprus: Xyliftos dam	7	gy11	gy3	0.01	0.01	-	This study
MTD T 12096	Cyprus: Xyliftos dam	7	gy11	gy3	0.01	0.01	-	This study
MTD T 14830	Cyprus: Xyliftos dam	7	gy11	gy3	0.01	0.01	-	This study
ZFMK 54318	Cyprus: Xyliftos dam	7	-	gy3	0.01	0.01	-	Kindler et al. (2013)
ZFMK 61144	Cyprus: Xyliftos dam	7	-	gy3	0.01	0.01	-	Kindler et al. (2013)
ZFMK 66524	Cyprus: Xyliftos dam	7	-	gy3	0.01	0.01	-	Kindler et al. (2013)
MTD T 9882	Czech Republic: Bartolovice	4	r1	-	0.00	0.61	-	Kindler et al. (2013)
MTD T 9878	Czech Republic: Bítovna	4	r3	-	0.01	0.94	-	Kindler et al. (2013)
MTD T 9579	Czech Republic: between Horatic and Rada	4	r3	r10	0.00	0.77	-	Kindler et al. (2013)
MTD T 9580	Czech Republic: between Horatic and Rada	4	r4	r34	0.00	0.94	-	Kindler et al. (2013)
MTD T 12955	Czech Republic: Čápcov	4	r4	r34	0.00	0.98	0.22	This study
MTD T 8963	Czech Republic: České Budějovice	4	r31	r3	0.00	0.98	0.19	Kindler et al. (2013)
MTD T 9886	Czech Republic: Chřibý Mountains: Halenkovice	4	r4	r34	0.00	0.93	-	Kindler et al. (2013)
MTD T 9880	Czech Republic: Chřibý Mountains: Janovice	4	r4	-	0.00	0.95	0.09	Kindler et al. (2013)
MTD T 9885	Czech Republic: Chřibý Mountains: Janovice	4	-	r34	0.00	0.70	-	Kindler et al. (2013)
MTD T 9882	Czech Republic: Chřibý Mountains: Kudlovice	4	r4	-	0.00	0.97	0.16	Kindler et al. (2013)
MTD T 8974	Czech Republic: Chřibý Mountains: Kudlovice dolina	4	r32	r3	0.00	0.61	-	Kindler et al. (2013)
MTD T 9879	Czech Republic: Chřibý Mountains: Saláň	4	r4	-	0.00	0.92	-	Kindler et al. (2013)
MTD T 13009	Czech Republic: Dlouhá Loučka	4	r4	r34	-	-	-	This study
MTD T 8636	Czech Republic: Dolní Lišná	4	r3	-	-	-	-	Kindler et al. (2013)
MTD T 8642	Czech Republic: Dolní Lišná	4	r3	r10	0.00	0.97	0.64	Kindler et al. (2013)
MTD T 10626	Czech Republic: Dolní Marketávice	4	r4	r34	0.01	0.97	0.37	This study
MTD T 14862	Czech Republic: Dražovice	4	r4	r34	0.00	0.99	0.20	This study
MTD T 12781	Czech Republic: Fojtka	4	r3	r16	0.00	0.99	0.50	This study
MTD T 8962	Czech Republic: Heřmanovice	4	r4	r34	0.00	0.97	0.22	Kindler et al. (2013)
MTD T 8964	Czech Republic: Heřmanovice	4	r4	r34	0.00	0.98	0.26	Kindler et al. (2013)
MTD T 8972	Czech Republic: Kamýk: Litoměřice	4	r3	r30	0.00	0.98	0.17	Kindler et al. (2013)
MTD T 8634	Czech Republic: Kamýk: Olšiny	4	r4	r34	0.00	0.55	-	Kindler et al. (2013)
MTD T 14863	Czech Republic: Klíčov	4	r4	r34	0.00	0.99	0.14	This study
MTD T 8966	Czech Republic: Kokořín	4	r3	r10	0.00	0.99	0.35	Kindler et al. (2013)
MTD T 8965	Czech Republic: Kokořínský Důl	4	r4	r34	0.00	0.98	0.77	Kindler et al. (2013)
MTD T 8971	Czech Republic: Koudrnice: Litoměřice	4	r3	r10	0.00	0.99	0.60	Kindler et al. (2013)
MTD T 13549	Czech Republic: Lučina	4	r3	r10	0.00	0.95	0.26	This study
MTD T 9881	Czech Republic: Moutavský Písk	4	r4	-	0.00	0.97	0.20	Kindler et al. (2013)
MTD T 14451	Czech Republic: Na Plačbě, Hradec Králové	4	r3	-	0.00	0.96	0.44	This study
MTD T 14756	Czech Republic: Narodní park Poodří	4	r4	r34	0.00	0.97	0.09	This study
MTD T 13010	Czech Republic: Olomouc: Cennov	4	r8	r34	0.00	0.96	0.33	This study
MTD T 13007	Czech Republic: Písekout	4	r4	r34	0.00	0.96	0.31	This study
MTD T 14755	Czech Republic: Pouzdřanský rybník	4	r4	r34	0.00	0.96	0.09	This study
MTD T 14861	Czech Republic: Sadská	4	r3	r10	0.00	0.99	0.57	This study
MTD T 8643	Czech Republic: Staré Hamry	4	r3	r10	0.00	0.98	0.13	Kindler et al. (2013)
MTD T 14769	Czech Republic: Staré Město nad Metují	4	r2	r10	0.00	0.99	0.72	This study
MTD T 12794	Czech Republic: Stížá nad Ohří	3	y1	-	-	-	-	This study
MTD T 13008	Czech Republic: Vlárský průmysk	4	r3	r22	-	-	-	This study
MTD T 8969	Czech Republic: Vysoká: Jihlava	4	r3	r9	0.00	0.97	0.12	Kindler et al. (2013)
MTD T 8970	Czech Republic: Vysoká: Jihlava	4	r3	r10	0.00	0.97	0.14	Kindler et al. (2013)
MTD T 8961	Czech Republic: Zlaté Hory	4	r2	r10	0.00	0.97	0.27	Kindler et al. (2013)
MTD T 9652	Denmark: Funen: NNW Svendborg	3	y1	y1	0.01	0.99	0.95	Kindler et al. (2013)
MTD T 9653	Denmark: Funen: NNW Svendborg	3	y1	y1	0.03	0.98	0.77	Kindler et al. (2013)
MTD T 9654	Denmark: Funen: NNW Svendborg	3	y1	y1	0.01	0.98	0.80	Kindler et al. (2013)
MTD T 9655	Denmark: Funen: NNW Svendborg	3	y1	y1	0.00	0.99	0.81	Kindler et al. (2013)
MTD T 9913	Denmark: Jutland: SE Gammel Rye	3	y1	y38	0.02	0.98	0.95	Kindler et al. (2013)
MTD T 9914	Denmark: Jutland: SE Gammel Rye	3	y1	y1	0.18	-	-	Kindler et al. (2013)
MTD T 9915	Denmark: Jutland: SE Gammel Rye	3	y1	y1	0.05	0.98	0.95	Kindler et al. (2013)
MTD T 9916	Denmark: Jutland: SE Skanderborg	3	y1	y1	0.10	-	-	Kindler et al. (2013)
MTD T 14559	Denmark: Langeland: Hov	3	y1	y37	0.01	0.99	0.95	This study
MTD T 9651	Denmark: Langeland: S Trankær	3	y1	y17	0.01	0.97	0.93	Kindler et al. (2013)
MTD T 10918	Denmark: Zealand: 6 km W Køge	3	y30	y1	0.01	0.99	0.92	Kindler et al. (2014)
ZMH R09201	Denmark: Zealand: Bornholm	3	y20	-	0.00	0.99	0.94	This study
ZMH R09021	Denmark: Zealand: Fredensborg	3	y20	-	-	-	-	This study
ZMH R09022	Denmark: Zealand: Fredensborg	3	y20	-	-	-	-	This study

• Table S1 continued

Voucher	Locality	mtDNA data			Microsatellite data			Reference
		mtDNA clade	ND4 haplotype	cyt b haplotype	First STRUCTURE run	Second STRUCTURE run	Third STRUCTURE run	
ZMH R09204	Denmark: Zealand: Fredensborg	3	y20	-	0.04	0.98	0.95	This study
ZMH R09205	Denmark: Zealand: Fredensborg	3	y20	-	-	-	-	This study
ZMH R09206	Denmark: Zealand: Fredensborg	3	y20	-	-	-	-	This study
ZMH R09210	Denmark: Zealand: Fredensborg	3	y20	-	-	-	-	This study
ZMH R09211	Denmark: Zealand: Fredensborg	3	y20	-	-	-	-	This study
ZMH R09020	Denmark: Zealand: Gribskov forest	3	y20	-	-	-	-	This study
ZMH R09030	Denmark: Zealand: Gribskov forest	3	y20	-	0.00	0.36	-	This study
ZMH R09055	Denmark: Zealand: Gribskov forest	3	y20	-	-	-	-	This study
MTD T 14546	Denmark: Zealand: Høje: Vaserne	3	y1	y39	0.00	0.99	0.87	This study
MTD T 14547	Denmark: Zealand: Høje: Vaserne	3	y1	y40	0.11	-	-	This study
MTD T 14548	Denmark: Zealand: Høje: Vaserne	3	y1	y1	0.00	0.99	0.95	This study
MTD T 14751	Denmark: Zealand: N Copenhagen: Jagersborg Dyrehave	3	y1	y1	0.21	-	-	This study
MTD T 9649	Denmark: Zealand: N Præstø: Feddet	3	y34	y1	0.01	0.98	0.95	Kindler et al. (2013)
MTD T 9269	Denmark: Zealand: S Borup	3	y7	y1	0.00	0.99	0.94	Kindler et al. (2013)
MTD T 9270	Denmark: Zealand: S Borup	3	y7	y1	0.00	0.99	0.95	Kindler et al. (2013)
MTD T 9271	Denmark: Zealand: S Borup	3	y7	-	0.00	0.99	0.95	Kindler et al. (2013)
MTD T 14550	Denmark: Zealand: S Hillerød: Bøstingend Mose	3	y1	y40	0.04	0.99	0.94	This study
MTD T 14551	Denmark: Zealand: S Hillerød: Bøstingend Mose	3	y19	y1	0.00	0.99	0.91	This study
MTD T 14552	Denmark: Zealand: S Hillerød: Bøstingend Mose	3	y1	y1	0.02	0.99	0.94	This study
MTD T 14553	Denmark: Zealand: S Hillerød: Bøstingend Mose	3	y24	y1	0.01	0.99	0.87	This study
MTD T 14554	Denmark: Zealand: S Hillerød: Bøstingend Mose	3	y1	y40	0.00	0.99	0.93	This study
MTD T 14555	Denmark: Zealand: S Hillerød: Bøstingend Mose	3	y1	y1	0.00	0.99	0.94	This study
MTD T 14556	Denmark: Zealand: S Hillerød: Bøstingend Mose	3	y1	y40	0.02	0.99	0.95	This study
MTD T 14557	Denmark: Zealand: S Hillerød: Bøstingend Mose	3	y1	y1	0.04	0.99	0.94	This study
MTD T 14549	Denmark: Zealand: S Hillerød: Brodskov	3	y1	y40	0.01	0.99	0.95	This study
MTD T 14558	Denmark: Zealand: S Hillerød: near Lillerød: Ravnsholt	3	y1	y1	0.00	0.99	0.89	This study
MTD T 14341	Denmark: Zealand: W Koge	3	y1	y1	0.00	0.99	0.94	This study
MTD T 14342	Denmark: Zealand: W Koge	3	y1	y1	0.00	0.99	0.91	This study
MTD T 9648	Denmark: Zealand: W Koge	3	y1	y1	0.06	-	-	Kindler et al. (2013)
MTD T 11583	Finland: Åland	3	y1	y25	0.01	0.55	-	Kindler et al. (2014)
MTD T 11584	Finland: Åland	3	y1	y5	0.00	0.99	0.81	Kindler et al. (2014)
MTD T 11586	Finland: Åland	3	y5	y5	0.01	0.80	-	Kindler et al. (2014)
MTD T 11589	Finland: Åland: Finström	3	y1	y5	0.00	0.99	0.93	Kindler et al. (2014)
MTD T 11587	Finland: Åland: Lemland: Bergö	3	y5	y5	0.01	0.41	-	Kindler et al. (2014)
MTD T 11588	Finland: Åland: Lemland: Näätö	3	y1	y5	0.03	0.69	-	Kindler et al. (2014)
MTD T 11591	Finland: Eastern Finland: Savonlinna: Hemenniemi	8	gn1	gn4	0.00	0.02	-	Kindler et al. (2014)
MTD T 11585	Finland: Southern Finland: Hanko	8	gn6	gn11	0.00	0.05	-	Kindler et al. (2014)
MTD T 11590	Finland: Western Finland: near Kaarina	8	gn1	gn5	0.00	0.15	-	Kindler et al. (2014)
MTD T 12985	Former Yugoslav Republic of Macedonia: Crkvin	3	y23	y29	0.01	0.05	-	This study
MTD T 12986	Former Yugoslav Republic of Macedonia: Dojran Lake: Mrduja	3	y15	-	0.01	0.25	-	This study
MTD T 12987	Former Yugoslav Republic of Macedonia: Dojran Lake: Mrduja	3	y17	y10	0.05	0.15	-	This study
MTD T 12988	Former Yugoslav Republic of Macedonia: Dojran Lake: Mrduja	3	y21	-	0.17	-	-	This study
MTD T 12989	Former Yugoslav Republic of Macedonia: Dojran Lake: Mrduja	3	y15	y11	0.00	0.30	-	This study
MTD T 12994	Former Yugoslav Republic of Macedonia: Dolna Marka	5	12	110	0.00	0.41	-	This study
BEV T4065	Former Yugoslav Republic of Macedonia: Jakubica Mountains	3	y15	y10	0.10	-	-	This study
MTD T 9911	Former Yugoslav Republic of Macedonia: Jakubica Mountains	3	y15	y10	0.10	-	-	Kindler et al. (2013)
MTD T 12992	Former Yugoslav Republic of Macedonia: Lake Prespa: Asamiti	5	111	19	0.03	0.04	-	This study
MTD T 12993	Former Yugoslav Republic of Macedonia: Lake Prespa: Pokrovnik	3	y12	-	0.00	0.28	-	This study
MTD T 12991	Former Yugoslav Republic of Macedonia: Lake Prespa: Prezir	5	12	-	0.00	0.17	-	This study
MTD T 13000	Former Yugoslav Republic of Macedonia: Lake Prespa: Stenje	5	111	110	0.15	-	-	This study
MTD T 9877	Former Yugoslav Republic of Macedonia: National Park Galčica	5	112	112	0.01	0.57	-	Kindler et al. (2013)
MTD T 14447	Former Yugoslav Republic of Macedonia: Nov Dojran	3	y15	y10	0.02	0.07	-	This study
MTD T 9909	Former Yugoslav Republic of Macedonia: Porodin	5	110	110	0.03	0.08	-	Kindler et al. (2013)
MTD T 12990	Former Yugoslav Republic of Macedonia: Star Dojran	3	y15	y10	0.12	-	-	This study
MTD T 8633	Former Yugoslav Republic of Macedonia: Stenje	5	12	110	0.06	-	-	Kindler et al. (2013)
BEV.1690	France: Alpes-de-Haute-Provence: Clumanc	E	h7	-	0.99	-	-	Pokrant et al. (2016)
ZFMK 54711	France: Ardèche: 10 km N Tournon-sur-Rhône	E	h1	h1	1.00	-	-	Kindler et al. (2013)
BEV.6430	France: Aveyron: Peyrussac-le-Roc	E	h1	-	1.00	-	-	Pokrant et al. (2016)
MTD T 10091	France: Bas-Rhin: Strasbourg	E	h1	-	1.00	-	-	Kindler et al. (2013)
BEV.11494	France: Bouches-du-Rhône: Aubagne	E	h1	-	-	-	-	This study
BEV.9397	France: Bouches-du-Rhône: between Fos-sur-Mer and Pont-Saint-Louis-du-Rhône	E	h1	-	1.00	-	-	Pokrant et al. (2016)
ZFMK 54712	France: Bouches-du-Rhône: Camargue	E	h1	-	0.98	-	-	Kindler et al. (2013)
BEV.6425	France: Bouches-du-Rhône: Camargue: Clos de Lange	E	h1	-	1.00	-	-	Pokrant et al. (2016)
BEV.284	France: Bouches-du-Rhône: Camargue: Marais du Grenouillet	E	h1	-	1.00	-	-	Pokrant et al. (2016)
ZMH R07158	France: Bouches-du-Rhône: Camargue: near Fiafouse	E	h1	-	-	-	-	This study
BEV.9398	France: Bouches-du-Rhône: Camargue: Salin de Badon	E	h1	-	-	-	-	This study
ZMH R07572	France: Bouches-du-Rhône: Camargue: Salin de Badon	E	h1	h1	0.98	-	-	Pokrant et al. (2016)
ZMH R07573	France: Bouches-du-Rhône: Camargue: Salin de Badon	E	h1	h1	0.99	-	-	Pokrant et al. (2016)
ZMH R06950	France: Bouches-du-Rhône: Camargue: Tour du Valat	E	h1	h1	0.95	-	-	Pokrant et al. (2016)
ZMH R06951	France: Bouches-du-Rhône: Camargue: Tour du Valat	E	h1	h1	1.00	-	-	Pokrant et al. (2016)
ZMH R06952	France: Bouches-du-Rhône: Camargue: Tour du Valat	E	h1	h1	1.00	-	-	Pokrant et al. (2016)
ZMH R06997	France: Bouches-du-Rhône: Camargue: Tour du Valat	E	h1	-	0.98	-	-	Pokrant et al. (2016)
ZMH R07062	France: Bouches-du-Rhône: Camargue: Tour du Valat	E	h1	h1	1.00	-	-	Pokrant et al. (2016)
ZFMK 54710	France: Bouches-du-Rhône: Saint-Martin-de-Crau	E	h1	h1	0.98	-	-	Kindler et al. (2013)
BEV.9401	France: Bouches-du-Rhône: Saint-Martin-de-Crau: Mas de Pernes	E	h1	-	1.00	-	-	Pokrant et al. (2016)
MTD T 11950	France: Deux-Sèvres: near Niort	E	h1	h9	0.99	-	-	Pokrant et al. (2016)
BEV.11533	France: Gard: near Alzon: Col de la Barrière	unknown	-	-	0.99	-	-	Pokrant et al. (2016)
BEV.9400	France: Gard: Saint-Hippolyte-de-Fort	E	h12	-	0.99	-	-	Pokrant et al. (2016)
BEV.19260	France: Gironde: near Léognan: Minoy	E	h1	h1	0.97	-	-	Pokrant et al. (2016)
BEV.19261	France: Gironde: near Léognan: Minoy	E	h1	h1	1.00	-	-	Pokrant et al. (2016)
BEV.19264	France: Hérault: Avène dam	E	h1	h27	0.97	-	-	Pokrant et al. (2016)
BEV.9049	France: Hérault: between Le Bose and Loizans	E	h1	-	1.00	-	-	Pokrant et al. (2016)
BEV.6428	France: Hérault: Grabels	unknown	-	-	1.00	-	-	Pokrant et al. (2016)
BEV.9029	France: Hérault: Lansargues	E	h1	-	-	-	-	Pokrant et al. (2016)
BEV.19266	France: Hérault: Lattes	E	h1	h27	0.97	-	-	Pokrant et al. (2016)
BEV.19258	France: Hérault: Le Mas Blanc	E	h4	h1	0.99	-	-	Pokrant et al. (2016)
BEV.19259	France: Hérault: Le Mas Blanc	E	h1	h1	-	-	-	Pokrant et al. (2016)
BEV.19565	France: Hérault: Les Corbières	E	h1	h1	0.99	-	-	Pokrant et al. (2016)
BEV.6421	France: Hérault: Massif du Caroux	unknown	-	-	1.00	-	-	Pokrant et al. (2016)
BEV.8499	France: Hérault: Massif du Caroux	E	h1	-	0.99	-	-	Pokrant et al. (2016)
BEV.11496	France: Hérault: Montpellier	unknown	-	-	0.99	-	-	Pokrant et al. (2016)
BEV.847	France: Hérault: Saint-Pierre-de-la-Fage	E	h1	-	0.99	-	-	Pokrant et al. (2016)
BEV.10974	France: Hérault: Soulagues	E	h1	h15	-	-	-	This study
BEV.9041	France: Hérault: Trézac	unknown	-	-	0.98	-	-	Pokrant et al. (2016)
BEV.9293	France: Loire: Chelles	E	h1	-	1.00	-	-	Pokrant et al. (2016)
BEV.8324	France: Loire: Sainte-Foy-Saint-Sulpice	E	h1	-	1.00	-	-	Pokrant et al. (2016)
MTD T 10092	France: Puy-de-Dôme: near Murd: Momcaux	E	h1	-	1.00	-	-	Kindler et al. (2013)
MTD T 11999	France: Pyrénées-Atlantiques: St. Jean de Luz	E	h1	-	-	-	-	Pokrant et al. (2016)
MTD T 12024	France: Saône-et-Loire: Annot	E	h1	-	-	-	-	This study
ZFMK 61095	France: Saône-et-Loire: Annot	E	h1	h1	-	-	-	Kindler et al. (2013)
ZFMK 64930	France: Saône-et-Loire: Charolles	E	h1	h14	-	-	-	Kindler et al. (2013)
MTD D 40712	France: Var: N La Londe les Maîtres	E	-	h5	-	-	-	Kindler et al. (2013)
BEV.11530	France: Vaucluse: Saint-Saturnin-lès-Apt	E	h1	-	0.97	-	-	Pokrant et al. (2016)
MTD T 11973	Georgia: Akhaldaba	8	gn9	-	0.00	0.03	-	This study
MTD T 11975	Georgia: Akhaldaba	8	gn11	-	0.00	0.01	-	This study
ZFMK 76546	Georgia: Batumi	8	gn12	gn14	0.00	0.02	-	Kindler et al. (2013)
ZFMK 73721	Georgia: Borzhomi	8	gn8	gn17	0.00	0.03	-	Kindler et al. (2013)
ZFMK 73722	Georgia: Borzhomi	8	-	gn10	0.00	0.03	-	Kindler et al. (2013)
MTD T 14770	Georgia: Kobuleti	8	gn15	gn13	0.01	0.01	-	This study
MTD T 14771	Georgia: Kobuleti	8	gn16	gn10	0.00	0.01	-	This study
MTD T 8960	Georgia: Kutaisi	8	gn15	gn13	0.00	0.02	-	Kindler et al. (2013)
MTD T 9341	Georgia: Mtskheta	8	gn16	gn10	0.01	0.02	-	Kindler et al. (2013)
MTD T 9339	Georgia: N Stepunzinda	8	gn1	gn1	0.01	0.02	-	Kindler et al. (2013)
MTD T 9340	Georgia: N Stepunzinda	8	gn1	gn19	0.01	0.02	-	Kindler et al. (2013)
SMNS 14510	Germany: Baden-Württemberg: Bad Waldsee	3	y1	y1	0.02	0.92	-	This study
SMNS 14508	Germany: Baden-Württemberg: Bad Waldsee	3	y1	y1	0.01	0.98	0.07	This study
SMNS 14509	Germany: Baden-Württemberg: Bad Waldsee	3	y1	y1	0.04	0.71	-	This study
MTD T 14844	Germany: Baden-Württemberg: Birmen	3	y1	y5	0.34	-	-	This study
ZFMK 76777	Germany: Baden-Württemberg: between Lonsberg and Geringen	3	-	y5	0.01	0.96	0.13	Kindler et al. (2013)
MTD D 40977	Germany: Baden-Württemberg: Böhlinger See	3	y1	-	0.20	-	-	This study
MTD T 14531	Germany: Baden-Württemberg: Bronnbach	3	y1	y5	0.08	-	-	This study
SMNS 14503	Germany: Baden-Württemberg: Dettenheim	E	h1	h1	-	-	-	This study
MTD T 14816	Germany: Baden-Württemberg: Freudenstadt	3	y1	y34	0.30	-	-	This study
MTD T 14835	Germany: Baden-Württemberg: Freudenstadt	3	y1	-	-	-	-	This study

• Table S1 continued

Voucher	Locality	mtDNA data			Microsatellite data			Reference
		mtDNA clade	ND4 haplotype	cyt b haplotype	First STRUCTURE run	Second STRUCTURE run	Third STRUCTURE run	
MTD T 14858	Germany: Baden-Württemberg: Gansburg	3	y1	y5	0.01	0.99	0.27	This study
MTD T 14828	Germany: Baden-Württemberg: Hangelingen	E	h1	b23	0.99	-	-	This study
SMNS 14506	Germany: Baden-Württemberg: Herrenberg	3	y1	y1	-	-	-	This study
SMNS 14505	Germany: Baden-Württemberg: Heren	E	h1	h1	0.97	-	-	This study
SMNS 14512	Germany: Baden-Württemberg: Kanden	E	h1	h5	1.00	-	-	This study
MTD T 14874	Germany: Baden-Württemberg: Kappel-Grafenhausen	E	h1	h1	1.00	-	-	This study
MTD T 14837	Germany: Baden-Württemberg: Karlsruhe	3	y1	y1	0.11	-	-	This study
MTD T 14841	Germany: Baden-Württemberg: Karlsruhe	E	h1	h6	0.90	-	-	This study
SMNK-REP 689	Germany: Baden-Württemberg: Karlsruhe	E	h1	-	-	-	-	This study
SMNK-REP 910	Germany: Baden-Württemberg: Karlsruhe	E	h1	-	0.99	-	-	This study
SMNK-REP 1003	Germany: Baden-Württemberg: Karlsruhe: between Stauffort and Weingarten	E	h1	-	0.96	-	-	This study
MTD T 14813	Germany: Baden-Württemberg: Karlsruhe: Oberwaldsee	E	h1	h1	0.99	-	-	This study
MTD T 14821	Germany: Baden-Württemberg: Kniebis	E	h1	h10	1.00	-	-	This study
MTD T 14843	Germany: Baden-Württemberg: Laufensberg - Grunholz	3	y1	y1	0.73	-	-	This study
MTD T 14820	Germany: Baden-Württemberg: Lenzkirch	E	h1	h1	-	-	-	This study
SMNK-REP 1268	Germany: Baden-Württemberg: Lankenheim	E	h1	-	1.00	-	-	This study
MTD T 14815	Germany: Baden-Württemberg: lower Neckar valley	3	y1	y5	0.09	-	-	This study
SMNS 12851	Germany: Baden-Württemberg: Ludwigsburg	3	y1	-	0.08	-	-	This study
SMNS 12227	Germany: Baden-Württemberg: Mettnau	3	y37	y1	0.15	-	-	This study
SMNS 14514	Germany: Baden-Württemberg: near Geflingen: Krumbachtal	3	y1	y26	0.03	0.98	0.16	This study
SMNS 14515	Germany: Baden-Württemberg: near Geflingen: Krumbachtal	3	y1	y5	0.15	-	-	This study
SMNS 14511	Germany: Baden-Württemberg: near Heilbronn: Reichershausen	3	y1	-	0.03	0.97	0.10	This study
SMNS 9092	Germany: Baden-Württemberg: near Ravensburg	3	y1	y1	-	-	-	This study
MTD D 29648	Germany: Baden-Württemberg: Oberweißbach	3	y1	y1	0.18	-	-	Kindler et al. (2013)
SMNS 14260	Germany: Baden-Württemberg: Obilchen-Josingen	3	y1	-	0.01	0.98	0.25	This study
MTD T 14818	Germany: Baden-Württemberg: Ottenhöfen	E	h1	h1	1.00	-	-	This study
MTD T 14822	Germany: Baden-Württemberg: Pfig	3	y1	-	0.92	-	-	This study
MTD T 14823	Germany: Baden-Württemberg: Pfig	E	h1	h1	0.92	-	-	This study
MTD T 14824	Germany: Baden-Württemberg: Pfig	E	h1	h1	0.99	-	-	This study
MTD T 14825	Germany: Baden-Württemberg: Pfig	E	h1	h1	0.99	-	-	This study
MTD T 14826	Germany: Baden-Württemberg: Pfig	E	h1	h1	0.99	-	-	This study
MTD T 14827	Germany: Baden-Württemberg: Pfig	E	h1	h1	1.00	-	-	This study
MTD T 14525	Germany: Baden-Württemberg: Riedlingen	3	y1	y2	0.00	0.99	0.13	This study
MTD T 14526	Germany: Baden-Württemberg: Riedlingen	3	y1	-	0.00	0.99	0.46	This study
MTD T 14527	Germany: Baden-Württemberg: Riedlingen	3	y1	-	0.06	-	-	This study
MTD T 14528	Germany: Baden-Württemberg: Riedlingen	3	y1	y2	0.02	0.99	0.21	This study
MTD T 14529	Germany: Baden-Württemberg: Riedlingen	3	y1	y2	0.00	0.99	0.29	This study
MTD T 14829	Germany: Baden-Württemberg: Schilach	3	y1	y34	-	-	-	This study
MTD T 14831	Germany: Baden-Württemberg: Schilach	3	y1	y34	0.18	-	-	This study
MTD T 11994	Germany: Baden-Württemberg: Schriesheim	3	y1	y5	0.32	-	-	This study
MTD T 14839	Germany: Baden-Württemberg: Steinmauern	E	h1	h1	-	-	-	This study
SMNS 14517	Germany: Baden-Württemberg: Stuttgart-Bönnig	3	y1	y5	0.00	0.99	0.17	This study
SMNS 14518	Germany: Baden-Württemberg: Stuttgart-Feuerbach	3	y1	y5	0.24	-	-	This study
SMNS 14511	Germany: Baden-Württemberg: Stuttgart-Hohenheim	3	y1	y1	0.01	0.99	0.11	This study
SMNS 14519	Germany: Baden-Württemberg: Stuttgart-Hohenheim, Uti Campus, Eiszeisel	3	y1	y5	0.09	-	-	This study
SMNS 14985	Germany: Baden-Württemberg: Stuttgart-Vaihingen	3	y1	y26	0.22	-	-	This study
MTD T 14833	Germany: Baden-Württemberg: Sulz-Fischingen	3	y1	y1	0.09	-	-	This study
MTD T 12008	Germany: Baden-Württemberg: Tübingen: Wumlingen	3	y1	y1	0.02	0.98	0.32	This study
MTD T 14834	Germany: Baden-Württemberg: Zweifalten	3	y1	y2	0.04	0.96	0.25	This study
MTD T 11137	Germany: Bavaria: 1 km SSW Jachenau	3	y1	y12	0.39	-	-	This study
ZMH R09037	Germany: Bavaria: Berchtesgaden	3	y20	-	-	-	-	This study
MTD T 11141	Germany: Bavaria: between Katschenbach and Frankenberg	3	y1	y5	0.00	0.98	0.31	This study
MTD T 11142	Germany: Bavaria: between Katschenbach and Frankenberg	3	y1	y5	0.01	0.98	0.54	This study
MTD T 11143	Germany: Bavaria: between Katschenbach and Frankenberg	3	y1	y5	0.00	0.99	0.79	This study
MTD T 11145	Germany: Bavaria: Dreschen	3	y1	y5	0.01	0.98	0.62	This study
MTD T 14560	Germany: Bavaria: E Passau: Erlau	4	r3	r10	0.00	0.98	0.30	This study
MTD T 11147	Germany: Bavaria: Hamstetten	3	y1	y13	0.00	0.96	0.10	This study
MTD T 11136	Germany: Bavaria: Jochenstein	4	r3	r10	0.00	0.93	-	This study
MTD T 11158	Germany: Bavaria: Klautzenbach	4	r3	r10	0.00	0.99	0.53	This study
ZFMK 71166	Germany: Bavaria: Marnendorf	4	r3	r20	0.00	0.97	0.13	Kindler et al. (2013)
MTD T 11134	Germany: Bavaria: Munich	4	r3	r10	0.00	0.95	0.10	This study
MTD T 11149	Germany: Bavaria: Munich: Feldmoching	4	r3	r10	0.00	0.99	0.28	This study
MTD T 11150	Germany: Bavaria: Munich: Obermenzing	4	r3	r10	0.00	0.56	-	This study
MTD T 11151	Germany: Bavaria: Munich: Obermenzing	4	r3	r10	0.00	0.99	0.07	This study
MTD T 11152	Germany: Bavaria: Munich: Obermenzing	4	r3	r10	0.00	0.98	0.04	This study
MTD T 11153	Germany: Bavaria: Munich: Obermenzing	3	y1	y12	0.00	0.91	-	This study
MTD T 11154	Germany: Bavaria: Munich: Obermenzing	3	y1	y12	0.00	0.98	0.04	This study
MTD T 11155	Germany: Bavaria: Murnauer Moos	4	r3	r10	0.00	0.80	-	This study
MTD T 11133	Germany: Bavaria: Murnauer Moos	3	y1	y5	0.00	0.99	0.19	This study
ZSM DNA 171	Germany: Bavaria: near Bad Abbding	4	r3	r10	0.00	0.99	0.07	This study
MTD T 11139	Germany: Bavaria: near Hünning	4	r3	r10	0.00	0.98	0.07	This study
MTD T 11144	Germany: Bavaria: near Neumunster	4	r3	r5	0.04	0.98	0.83	This study
MTD T 14552	Germany: Bavaria: Olching	4	r3	r10	0.00	0.99	0.07	This study
MTD T 11135	Germany: Bavaria: Passau	4	r3	r10	0.00	0.99	0.11	This study
ZFMK 56016	Germany: Bavaria: Passau	4	r3	r10	0.01	0.94	-	Kindler et al. (2013)
MTD T 11138	Germany: Bavaria: Schleiense	4	r3	r10	0.02	0.99	0.11	This study
MTD T 14832	Germany: Bavaria: Schwandorf	3	y1	y12	0.00	0.99	0.08	This study
MTD T 11140	Germany: Bavaria: Schwandorf	3	y1	-	0.00	0.99	0.34	This study
MTD T 11148	Germany: Bavaria: Wolfraatshausen	3	y1	y12	0.00	0.99	0.14	This study
MTD T 14172	Germany: Berlin: Teufelssee	3	y1	-	0.00	0.93	-	This study
MTD T 14173	Germany: Berlin: Teufelssee	3	y1	-	0.00	0.97	0.15	This study
MTD D 47570	Germany: Brandenburg: Brieske	3	y1	-	0.00	0.99	0.56	Kindler et al. (2013)
NME R 049206	Germany: Brandenburg: Casel	3	y1	-	-	-	-	This study
MTD D 29503	Germany: Brandenburg: Cumiösen	4	r4	HF680017	0.01	0.51	-	Kindler et al. (2013)
MTD T 11460	Germany: Brandenburg: Forst	3	y1	y6	0.00	0.98	0.41	This study
MTD T 14362	Germany: Brandenburg: Götin	4	r3	r10	0.00	0.98	0.60	This study
MTD T 14363	Germany: Brandenburg: Götin	3	y1	y17	0.00	0.99	0.84	This study
MTD T 14364	Germany: Brandenburg: Götin	3	y1	y5	0.00	0.99	0.92	This study
MTD T 14365	Germany: Brandenburg: Götin	3	y35	y33	0.00	0.99	0.67	This study
MTD T 14366	Germany: Brandenburg: Götin	3	y1	y5	0.00	0.96	0.88	This study
MTD T 14367	Germany: Brandenburg: Götin	3	y1	y5	0.00	0.99	0.89	This study
MTD T 14369	Germany: Brandenburg: Götin	3	y1	y5	0.00	0.99	0.92	This study
MTD T 14370	Germany: Brandenburg: Götin	3	y1	y5	0.00	0.98	0.78	This study
MTD T 14371	Germany: Brandenburg: Götin	3	y1	y5	0.00	0.99	0.83	This study
MTD T 14372	Germany: Brandenburg: Götin	4	r3	r10	0.00	0.99	0.54	This study
MTD T 14373	Germany: Brandenburg: Götin	3	y35	y33	0.00	0.98	0.66	This study
MTD T 14374	Germany: Brandenburg: Götin	3	y35	y33	0.00	0.99	0.93	This study
MTD T 14375	Germany: Brandenburg: Götin	3	y1	y5	0.00	0.96	0.68	This study
MTD T 14376	Germany: Brandenburg: Götin	3	y1	y5	0.00	0.99	0.80	This study
MTD T 14377	Germany: Brandenburg: Götin	3	y1	y5	0.00	0.97	0.87	This study
MTD T 14378	Germany: Brandenburg: Götin	4	r3	r10	0.00	0.97	0.90	This study
MTD T 14379	Germany: Brandenburg: Götin	3	y1	y5	0.00	0.98	0.56	This study
MTD T 14380	Germany: Brandenburg: Götin	3	y1	y5	0.00	0.96	0.78	This study
MTD T 14381	Germany: Brandenburg: Götin	3	y1	y5	0.00	0.97	0.87	This study
MTD T 14382	Germany: Brandenburg: Götin	3	y1	y5	0.00	0.99	0.89	This study
MTD T 14383	Germany: Brandenburg: Götin	3	y1	y5	0.00	0.95	0.96	This study
MTD T 14384	Germany: Brandenburg: Götin	3	y1	y5	0.00	0.99	0.86	This study
MTD T 14385	Germany: Brandenburg: Götin	3	y1	y5	0.00	0.98	0.83	This study
MTD T 14386	Germany: Brandenburg: Götin	3	y1	y5	0.00	0.99	0.92	This study
MTD T 14387	Germany: Brandenburg: Götin	3	y1	y5	0.00	0.99	0.91	This study
MTD T 14530	Germany: Brandenburg: Gülpe	3	y8	y17	0.00	0.95	0.88	This study
MTD D 47197	Germany: Brandenburg: Guteborn	3	y1	y5	0.00	0.97	0.48	Kindler et al. (2013)
MTD T 3813	Germany: Brandenburg: Guteborn	3	-	y5	0.00	0.97	0.48	Kindler et al. (2013)
MTD D 45304	Germany: Brandenburg: Hosna	3	y1	y19	0.00	0.98	0.89	Kindler et al. (2013)
ZMB 66570	Germany: Brandenburg: near Barmne	3	y1	y19	0.00	0.99	0.60	Kindler et al. (2014)
MTD D 29504	Germany: Brandenburg: Perleberg	3	y20	y29	-	-	-	Kindler et al. (2013)
MTD T 14345	Germany: Brandenburg: Schwedt/Oder	3	y1	-	0.00	0.99	0.92	This study
ZFMK 76358	Germany: Brandenburg: Senftenberg	3	y1	y17	0.00	0.98	0.89	Kindler et al. (2013)
MTD T 14368	Germany: Brandenburg: Wuster	3	y13	y17	0.00	0.98	0.74	This study
ZMH R09735	Germany: Hamburg: Klüvenstein	3	y1	y20	0.00	0.99	0.94	This study
ZMH R06162	Germany: Hamburg: Ohlsdorf	3	y1	-	0.03	0.99	0.95	This study
ZMH R09809	Germany: Hamburg: Woblfeld	3	y1	-	-	-	-	This study
ZMH R09848	Germany: Hamburg: Woblfeld	3	y20	-	-	-	-	This study
MTD T 14620	Germany: Hesse: Bbrau Weimede	3	y1	y5	0.00	0.98	0.84	This study

• Table S1 continued

Voucher	Locality	mtDNA data			Microsatellite data			Reference
		mtDNA clade	ND4 haplotype	cyt b haplotype	First STRUCTURE run	Second STRUCTURE run	Third STRUCTURE run	
SMF 7640	Germany: Hesse: Bergen-Enkheim	E	h1	h1	0.91	-	-	This study
SMF 71026	Germany: Hesse: Bisbergemünd	3	y1	-	0.01	0.99	0.62	This study
SMF 71027	Germany: Hesse: Bisbergemünd	3	y1	y31	0.06	-	-	This study
SMF 77543	Germany: Hesse: Bisbergemünd-Beitenborn	3	y1	y5	0.20	-	-	This study
SMF 78480	Germany: Hesse: Fliesen	3	y1	y31	0.00	0.98	0.69	This study
ZFMK 58023	Germany: Hesse: Fliesen	3	y39	y5	0.09	-	-	This study
ZFMK 82929	Germany: Hesse: Fliesen	3	y1	y31	0.06	-	-	Kindler et al. (2013)
SMF 79183	Germany: Hesse: Hasselroth-Neuenhaiden	3	y1	y5	0.39	-	-	This study
ZFMK 89403	Germany: Hesse: Herborn	E	h1	h1	-	-	-	Kindler et al. (2013)
MTD T 14112	Germany: Hesse: Herborn	E	h1	h1	1.00	-	-	This study
MTD T 14842	Germany: Hesse: Hirschhorn	3	y1	y5	-	-	-	This study
MTD D 35776	Germany: Hesse: Hofheim/Lorsbach	E	h1	h24	0.97	-	-	Kindler et al. (2013)
MTD T 14175	Germany: Hesse: Lautertal-Beedenkirchen	E	h1	-	0.73	-	-	This study
ZSUM Re-S2.1.1.c	Germany: Hesse: Marburg	E	h1	h1	0.97	-	-	This study
ZSUM Re-S2.1.1.a	Germany: Hesse: Marburg: Lahn mountains	C	e1	e2	0.33	-	-	This study
ZSUM Re-S2.1.2.a	Germany: Hesse: Marburg: Lahn mountains	C	e1	-	0.43	-	-	This study
ZSUM Re-S2.1.2.b	Germany: Hesse: Marburg: Lahn mountains	unknown	-	-	0.47	-	-	This study
ZSUM Re-S2.1.2.g	Germany: Hesse: Marburg: Lahn mountains	C	e1	-	0.99	-	-	This study
MTD T 1929	Germany: Hesse: Marburg: new botanical garden	3	y1	-	-	-	-	This study
MTD T 1930	Germany: Hesse: Marburg: new botanical garden	3	y1	-	-	-	-	This study
MTD T 1931	Germany: Hesse: Marburg: new botanical garden	3	y39	y5	0.01	0.95	0.80	This study
MTD T 1932	Germany: Hesse: Marburg: new botanical garden	3	y39	-	0.03	0.93	-	This study
MTD T 1933	Germany: Hesse: Marburg: new botanical garden	3	y39	y5	0.41	-	-	This study
MTD T 14000	Germany: Hesse: near Bad Homburg	3	y1	-	0.00	0.99	0.90	This study
SMF 7339	Germany: Hesse: near Bieber	3	y1	y31	0.04	0.96	0.82	This study
SMF 72196	Germany: Hesse: near Hanau: Mittelbuchen	E	h1	-	-	-	-	This study
SMF 72456	Germany: Hesse: near Kelkheim: Fischbach	E	h1	h24	0.99	-	-	This study
ZFMK 82930	Germany: Hesse: Steinau	4	e3	e10	0.00	0.83	-	Kindler et al. (2013)
SMF 75825	Germany: Hesse: SW Gess-Gera: Kähkopf	E	h1	h1	1.00	-	-	This study
SMF 74531	Germany: Hesse: W Oberndorf	3	y1	y31	0.07	-	-	This study
SMF 78703	Germany: Hesse: Weiltod: Niederlanden	E	h1	h4	0.99	-	-	This study
MTD T 14749	Germany: Lower Saxony: Cuxhaven: Spanger Heide	3	y1	y17	0.00	0.99	0.95	This study
MTD T 14750	Germany: Lower Saxony: Cuxhaven: Spanger Heide	3	y1	y18	0.00	0.99	0.89	This study
LMNM REP963	Germany: Lower Saxony: Frieschenmoor	3	y1	y17	0.05	0.87	-	This study
MTD T 13919	Germany: Lower Saxony: Gartow	3	y35	-	0.00	0.99	0.90	This study
MTD T 13374	Germany: Lower Saxony: Hannover	3	y1	-	-	-	-	This study
MTD T 13367	Germany: Lower Saxony: Hannover	3	y1	y27	-	-	-	This study
LMNM REP961	Germany: Lower Saxony: Haterwisting	3	y1	y17	-	-	-	This study
LMNM REP107	Germany: Lower Saxony: Hude	3	y1	y17	0.02	0.99	0.95	This study
LMNM REP960	Germany: Lower Saxony: Huttonen	3	y1	y18	0.16	-	-	This study
MTD T 13370	Germany: Lower Saxony: Lachendorf	3	y35	-	0.01	0.98	0.90	This study
MTD T 13371	Germany: Lower Saxony: Lachendorf	3	y1	-	0.00	0.99	0.95	This study
ZFMK 86134	Germany: Lower Saxony: Lachendorf	3	y1	y5	0.00	0.99	0.92	Kindler et al. (2013)
ZMH 89088	Germany: Lower Saxony: Lellefde	3	y1	y8	0.01	0.99	0.71	Kindler et al. (2013)
ZMH 80676	Germany: Lower Saxony: Lichow-Daemenberg: Pevestorf	3	y20	y20	0.00	0.65	-	This study
ZMH 80678	Germany: Lower Saxony: Lichow-Daemenberg: Pevestorf	3	y20	y20	0.12	-	-	This study
ZMH 80695	Germany: Lower Saxony: Lichow-Daemenberg: Pevestorf	3	y20	y29	0.00	0.93	-	This study
ZMH 80699	Germany: Lower Saxony: Lichow-Daemenberg: Pevestorf	3	y20	-	0.01	0.46	-	This study
ZMH 80767	Germany: Lower Saxony: Lichow-Daemenberg: Pevestorf	3	y20	y29	0.01	0.78	-	This study
ZMH 80787	Germany: Lower Saxony: Lichow-Daemenberg: Pevestorf	3	y20	y29	0.00	0.73	-	This study
ZMH 80845	Germany: Lower Saxony: Lichow-Daemenberg: Pevestorf	3	y20	y29	0.00	0.08	-	This study
ZMH 80896	Germany: Lower Saxony: Lichow-Daemenberg: Pevestorf	3	y20	y29	0.00	0.39	-	This study
ZMH 80935	Germany: Lower Saxony: Lichow-Daemenberg: Pevestorf	3	y20	y29	0.00	0.40	-	This study
ZMH 80936	Germany: Lower Saxony: Lichow-Daemenberg: Pevestorf	3	y20	-	0.00	0.92	-	This study
ZMH 80937	Germany: Lower Saxony: Lichow-Daemenberg: Pevestorf	3	y20	y29	0.00	0.58	-	This study
ZMH 80940	Germany: Lower Saxony: Lichow-Daemenberg: Pevestorf	3	y20	y29	0.01	0.85	-	This study
ZMH 80963	Germany: Lower Saxony: Lichow-Daemenberg: Pevestorf	3	y20	y29	0.00	0.92	-	This study
ZMH 80974	Germany: Lower Saxony: Lichow-Daemenberg: Pevestorf	3	y20	y29	0.00	0.66	-	This study
ZMH 80975	Germany: Lower Saxony: Lichow-Daemenberg: Pevestorf	3	y20	y29	0.00	0.85	-	This study
MTD T 13373	Germany: Lower Saxony: Meilendorf	3	y1	y17	0.01	0.98	0.77	This study
MTD T 13368	Germany: Lower Saxony: near Celle: Bannetzer Moor	3	y1	-	0.01	0.99	0.54	This study
MTD T 13369	Germany: Lower Saxony: near Cuxhaven: Arensch	3	y1	-	0.01	0.99	0.55	This study
MTD T 13372	Germany: Lower Saxony: near Dannefeld	3	y35	-	0.00	0.97	0.77	This study
LMNM REP957	Germany: Lower Saxony: Oldendorf	3	y1	y17	0.08	-	-	This study
LMNM REP946	Germany: Lower Saxony: Oldendorf	3	y1	-	-	-	-	This study
LMNM REP962	Germany: Lower Saxony: Oldendorf: Eversen	3	y1	y17	0.15	-	-	This study
MTD T 14621	Germany: Lower Saxony: Oldendorf (Labe)	3	-	y19	-	-	-	This study
MTD T 14622	Germany: Lower Saxony: Oldendorf (Labe)	3	y1	y19	0.00	0.99	0.93	This study
LMNM REP553	Germany: Lower Saxony: Ratfeld	3	y1	-	-	-	-	This study
LMNM REP128	Germany: Lower Saxony: S Oldendorf: Barnefiller Holz	3	y1	-	0.02	0.98	0.42	This study
ZMH 80671	Germany: Lower Saxony: Salzhagen	3	y1	-	-	-	-	This study
ZMH 80901	Germany: Lower Saxony: Stade	3	y1	-	-	-	-	This study
MTD T 13917	Germany: Lower Saxony: Steinhuder Meer	3	y1	y17	0.03	0.99	0.91	This study
MTD T 13918	Germany: Lower Saxony: Steinhuder Meer	3	y1	y17	0.02	0.99	0.84	This study
MTD T 11465	Germany: Mecklenburg-Western Pomerania: 3 km E Wesenberg	3	y1	y22	0.00	0.99	0.94	Kindler et al. (2014)
MTD T 11466	Germany: Mecklenburg-Western Pomerania: 3 km E Wesenberg	3	y1	y17	0.00	0.98	0.87	Kindler et al. (2014)
MTD T 11467	Germany: Mecklenburg-Western Pomerania: 3 km E Wesenberg	3	y1	y17	0.00	0.99	0.91	Kindler et al. (2014)
MTD T 11468	Germany: Mecklenburg-Western Pomerania: 3 km E Wesenberg	3	y31	y17	0.01	0.91	-	Kindler et al. (2014)
MTD T 11469	Germany: Mecklenburg-Western Pomerania: 3 km E Wesenberg	3	y1	y17	0.00	0.98	0.85	Kindler et al. (2014)
MTD T 11470	Germany: Mecklenburg-Western Pomerania: 3 km E Wesenberg	3	y1	y17	0.00	0.99	0.87	Kindler et al. (2014)
MTD T 11471	Germany: Mecklenburg-Western Pomerania: 3 km E Wesenberg	3	y1	y17	0.00	0.98	0.89	Kindler et al. (2014)
MTD T 11472	Germany: Mecklenburg-Western Pomerania: 3 km E Wesenberg	3	y1	y17	0.00	0.99	0.89	Kindler et al. (2014)
MTD T 11473	Germany: Mecklenburg-Western Pomerania: 3 km E Wesenberg	3	y1	y17	0.00	0.99	0.84	Kindler et al. (2014)
MTD T 11474	Germany: Mecklenburg-Western Pomerania: 3 km E Wesenberg	3	y1	y17	0.00	0.98	0.95	Kindler et al. (2014)
MTD T 11476	Germany: Mecklenburg-Western Pomerania: 3 km E Wesenberg	3	y1	y17	0.00	0.99	0.89	Kindler et al. (2014)
MTD T 11477	Germany: Mecklenburg-Western Pomerania: 3 km E Wesenberg	3	y1	y22	0.00	0.99	0.90	Kindler et al. (2014)
MTD T 11478	Germany: Mecklenburg-Western Pomerania: 3 km E Wesenberg	3	y1	y17	0.00	0.98	0.91	Kindler et al. (2014)
MTD T 11479	Germany: Mecklenburg-Western Pomerania: 3 km E Wesenberg	3	y1	y17	0.00	0.96	0.48	Kindler et al. (2014)
MTD T 11480	Germany: Mecklenburg-Western Pomerania: 3 km E Wesenberg	3	y1	y17	0.00	0.99	0.94	Kindler et al. (2014)
MTD T 11481	Germany: Mecklenburg-Western Pomerania: 3 km E Wesenberg	3	y1	y17	0.00	0.99	0.91	Kindler et al. (2014)
MTD T 11482	Germany: Mecklenburg-Western Pomerania: 3 km E Wesenberg	3	y1	y17	0.00	0.98	0.92	Kindler et al. (2014)
NME R 056708	Germany: Mecklenburg-Western Pomerania: Boin	3	y1	y17	0.00	0.99	0.93	This study
NME R 097314	Germany: Mecklenburg-Western Pomerania: Groß-Miltzow	3	y22	-	0.00	0.97	0.18	This study
NME R 097414	Germany: Mecklenburg-Western Pomerania: Groß-Miltzow	3	y1	y17	0.00	0.99	0.95	This study
ZFMK 61635	Germany: Mecklenburg-Western Pomerania: Glistrow	3	-	y17	-	-	-	Kindler et al. (2013)
NME R 041402	Germany: Mecklenburg-Western Pomerania: near Ahlbeck	3	y1	-	0.00	0.99	0.69	This study
NME R 096314	Germany: Mecklenburg-Western Pomerania: near Ahlbeck	3	y1	-	0.00	0.98	0.43	This study
MTD T 12145	Germany: Mecklenburg-Western Pomerania: near Altwarp	3	y1	y17	0.00	0.97	0.90	This study
MTD T 12146	Germany: Mecklenburg-Western Pomerania: near Altwarp	3	y1	y17	0.00	0.98	0.79	This study
MTD T 12147	Germany: Mecklenburg-Western Pomerania: near Altwarp	3	y1	y17	0.00	0.98	0.93	This study
MTD T 12148	Germany: Mecklenburg-Western Pomerania: near Altwarp	3	y1	y17	0.00	0.97	0.95	This study
MTD T 12149	Germany: Mecklenburg-Western Pomerania: near Altwarp	3	y1	-	0.00	0.98	0.92	This study
MTD T 12150	Germany: Mecklenburg-Western Pomerania: near Altwarp	3	y1	-	0.00	0.98	0.80	This study
MTD T 12134	Germany: Mecklenburg-Western Pomerania: near Carwitz	3	y22	y17	0.00	0.99	0.95	This study
MTD T 12135	Germany: Mecklenburg-Western Pomerania: near Carwitz	3	y1	y17	0.00	0.99	0.91	This study
MTD T 12136	Germany: Mecklenburg-Western Pomerania: near Carwitz	3	y1	y17	0.00	0.99	0.85	This study
MTD T 12137	Germany: Mecklenburg-Western Pomerania: near Carwitz	3	y1	y17	0.00	0.99	0.81	This study
MTD T 12138	Germany: Mecklenburg-Western Pomerania: near Carwitz	3	y22	y17	0.00	0.99	0.88	This study
MTD T 12139	Germany: Mecklenburg-Western Pomerania: near Carwitz	3	y1	-	0.00	0.99	0.86	This study
MTD T 12140	Germany: Mecklenburg-Western Pomerania: near Carwitz	3	y1	y17	0.00	0.90	-	This study
MTD T 12141	Germany: Mecklenburg-Western Pomerania: near Carwitz	3	y22	y17	0.00	0.99	0.62	This study
MTD T 12142	Germany: Mecklenburg-Western Pomerania: near Carwitz	3	y1	-	0.00	0.98	0.90	This study
MTD T 12143	Germany: Mecklenburg-Western Pomerania: near Carwitz	3	y22	y17	0.01	0.98	0.61	This study
MTD T 12144	Germany: Mecklenburg-Western Pomerania: near Carwitz	3	y1	y17	0.00	0.98	0.90	This study
MTD T 1482	Germany: Mecklenburg-Western Pomerania: near Stralsund	3	y1	y17	0.00	0.98	0.88	This study
MTD T 12829	Germany: Mecklenburg-Western Pomerania: near Wistrow	3	y1	-	0.00	0.99	0.40	This study
MTD T 11462	Germany: Mecklenburg-Western Pomerania: Neubrandenburg	3	y1	y17	0.00	0.99	0.91	Kindler et al. (2014)
MTD T 11463	Germany: Mecklenburg-Western Pomerania: Neubrandenburg	3	y1	y17	0.00	0.99	0.92	Kindler et al. (2014)
MTD T 11464	Germany: Mecklenburg-Western Pomerania: Neubrandenburg	3	y1	y17	0.00	0.99	0.83	Kindler et al. (2014)
NME R 047506	Germany: Mecklenburg-Western Pomerania: Neubrandenburg	3	y1	y17	0.00	0.98	0.88	This study
MTD T 1475	Germany: Mecklenburg-Western Pomerania: Neubrandenburg: Lake Tollense	3	y1	y17	0.00	0.98	0.77	Kindler et al. (2014)
ZFMK 47435	Germany: Mecklenburg-Western Pomerania: Neukloster	3	y1	-	0.00	0.99	0.95	Kindler et al. (2013)
NME R 047406	Germany: Mecklenburg-Western Pomerania: Prewow	3	y43	y1	0.00	0.99	0.93	This study
MTD T 14508	Germany: Mecklenburg-Western Pomerania: Rostock: Radebe	3	y10	y17	0.00	0.99	0.95	This study

• Table S1 continued

Voucher	Locality	mtDNA data			Microsatellite data			Reference
		mtDNA clade	ND4 haplotype	cyt b haplotype	First STRUCTURE run	Second STRUCTURE run	Third STRUCTURE run	
MTD T 1483	Germany: Mecklenburg-Western Pomerania: Saal: Nenudorf-Heide	3	y1	y1	0.00	0.96	0.94	This study
MTD T 1484	Germany: Mecklenburg-Western Pomerania: Saal: Nenudorf-Heide	3	y1	y1	0.00	0.98	0.91	This study
MTD T 1483	Germany: Mecklenburg-Western Pomerania: Usedom	3	y1	y17	0.00	0.94	-	Kindler et al. (2014)
MTD T 1484	Germany: Mecklenburg-Western Pomerania: Usedom	3	y1	y17	0.00	0.98	0.90	Kindler et al. (2014)
ZFMK 68431	Germany: North Rhine-Westphalia: Bad Honorf	E	h1	-	1.00	-	-	Kindler et al. (2013)
ZFMK 68432	Germany: North Rhine-Westphalia: Bad Honorf	E	h1	h1	1.00	-	-	Kindler et al. (2013)
ZFMK 92193	Germany: North Rhine-Westphalia: Bad Münsterfeld	E	h1	h1	0.99	-	-	Kindler et al. (2013)
MTD T 11191	Germany: North Rhine-Westphalia: between Annelsbüren and Davensberg	E	h1	h1	0.98	-	-	This study
MTD T 11193	Germany: North Rhine-Westphalia: between Annelsbüren and Davensberg	E	h1	h1	1.00	-	-	This study
MTD T 11194	Germany: North Rhine-Westphalia: between Annelsbüren and Davensberg	E	h1	h1	0.99	-	-	This study
MTD T 11195	Germany: North Rhine-Westphalia: between Annelsbüren and Davensberg	E	h1	h1	0.99	-	-	This study
MTD T 11196	Germany: North Rhine-Westphalia: between Annelsbüren and Davensberg	E	h1	h1	0.99	-	-	This study
MTD T 11197	Germany: North Rhine-Westphalia: between Annelsbüren and Davensberg	E	h1	h1	1.00	-	-	This study
MTD T 11198	Germany: North Rhine-Westphalia: between Annelsbüren and Davensberg	E	h1	h1	0.85	-	-	This study
MTD T 11199	Germany: North Rhine-Westphalia: between Annelsbüren and Davensberg	E	h1	h1	1.00	-	-	This study
MTD T 11200	Germany: North Rhine-Westphalia: between Annelsbüren and Davensberg	E	h1	h1	1.00	-	-	This study
MTD T 11204	Germany: North Rhine-Westphalia: between Annelsbüren and Davensberg	E	h1	h1	1.00	-	-	This study
MTD T 11408	Germany: North Rhine-Westphalia: between Annelsbüren and Davensberg	E	h1	h1	1.00	-	-	This study
MTD T 11409	Germany: North Rhine-Westphalia: between Annelsbüren and Davensberg	E	h1	h1	1.00	-	-	This study
MTD T 11412	Germany: North Rhine-Westphalia: between Annelsbüren and Davensberg	E	h1	h1	0.99	-	-	This study
MTD T 11414	Germany: North Rhine-Westphalia: between Annelsbüren and Davensberg	E	h1	h1	1.00	-	-	This study
MTD T 11415	Germany: North Rhine-Westphalia: between Annelsbüren and Davensberg	E	h1	h1	0.99	-	-	This study
MTD T 11417	Germany: North Rhine-Westphalia: between Annelsbüren and Davensberg	E	h1	h1	1.00	-	-	This study
MTD T 11420	Germany: North Rhine-Westphalia: between Annelsbüren and Davensberg	E	h1	h1	0.99	-	-	This study
MTD T 11421	Germany: North Rhine-Westphalia: between Annelsbüren and Davensberg	E	h1	h1	0.98	-	-	This study
MTD T 11422	Germany: North Rhine-Westphalia: between Annelsbüren and Davensberg	E	h1	h1	0.98	-	-	This study
MTD T 11424	Germany: North Rhine-Westphalia: between Annelsbüren and Davensberg	E	h1	h1	1.00	-	-	This study
MTD T 11426	Germany: North Rhine-Westphalia: between Annelsbüren and Davensberg	E	h1	h1	1.00	-	-	This study
MTD T 11427	Germany: North Rhine-Westphalia: between Annelsbüren and Davensberg	E	h1	h1	0.98	-	-	This study
MTD T 11429	Germany: North Rhine-Westphalia: between Annelsbüren and Davensberg	E	h1	h1	0.99	-	-	This study
MTD T 11430	Germany: North Rhine-Westphalia: between Annelsbüren and Davensberg	E	h1	h1	1.00	-	-	This study
MTD T 11432	Germany: North Rhine-Westphalia: between Annelsbüren and Davensberg	E	h1	h1	0.98	-	-	This study
ZFMK 75088	Germany: North Rhine-Westphalia: between Bergisch-Glabach and Herrenstrunden	E	h1	-	1.00	-	-	Kindler et al. (2013)
ZFMK 70420	Germany: North Rhine-Westphalia: between Hirtgenwald and Gey	E	h1	h1	1.00	-	-	Kindler et al. (2013)
MTD T 12044	Germany: North Rhine-Westphalia: between Ratingen and Disseisdorf	E	h1	h1	1.00	-	-	This study
ZFMK 68433	Germany: North Rhine-Westphalia: Bonn	E	h10	h1	0.99	-	-	Kindler et al. (2013)
ZFMK 92228	Germany: North Rhine-Westphalia: Bonn	E	h1	-	0.98	-	-	Kindler et al. (2013)
ZFMK 92536	Germany: North Rhine-Westphalia: Bonn	E	h10	h1	0.96	-	-	Kindler et al. (2013)
ZFMK 92537	Germany: North Rhine-Westphalia: Bonn	E	h10	h1	0.98	-	-	Kindler et al. (2013)
ZFMK 89393	Germany: North Rhine-Westphalia: Bonn: Kottenfest	E	h10	h1	0.99	-	-	Kindler et al. (2013)
MTD T 12106	Germany: North Rhine-Westphalia: Brüchermühle	E	h1	-	1.00	-	-	This study
MTD T 12107	Germany: North Rhine-Westphalia: Brüchermühle	E	h1	h1	0.98	-	-	This study
MTD T 12108	Germany: North Rhine-Westphalia: Brüchermühle	E	h1	-	1.00	-	-	This study
MTD T 12109	Germany: North Rhine-Westphalia: Brüchermühle	E	h1	-	0.99	-	-	This study
MTD T 12110	Germany: North Rhine-Westphalia: Brüchermühle	E	h1	-	1.00	-	-	This study
MTD T 12111	Germany: North Rhine-Westphalia: Brüchermühle	E	h1	-	0.99	-	-	This study
MTD T 12112	Germany: North Rhine-Westphalia: Brüchermühle	E	h1	h1	0.98	-	-	This study
MTD T 12115	Germany: North Rhine-Westphalia: Brüchermühle	E	h1	-	1.00	-	-	This study
MTD T 12117	Germany: North Rhine-Westphalia: Brüchermühle	E	h1	-	1.00	-	-	This study
MTD T 12118	Germany: North Rhine-Westphalia: Brüchermühle	E	h1	h1	1.00	-	-	This study
MTD T 12119	Germany: North Rhine-Westphalia: Brüchermühle	E	h1	h1	0.99	-	-	This study
MTD T 12120	Germany: North Rhine-Westphalia: Brüchermühle	E	h1	h1	1.00	-	-	This study
MTD T 12121	Germany: North Rhine-Westphalia: Brüchermühle	E	h1	h1	1.00	-	-	This study
MTD T 12122	Germany: North Rhine-Westphalia: Brüchermühle	E	h1	h1	0.99	-	-	This study
MTD T 12123	Germany: North Rhine-Westphalia: Brüchermühle	E	h1	-	1.00	-	-	This study
MTD T 12124	Germany: North Rhine-Westphalia: Brüchermühle	E	h1	-	1.00	-	-	This study
MTD T 12125	Germany: North Rhine-Westphalia: Brüchermühle	E	h1	h1	1.00	-	-	This study
MTD T 12126	Germany: North Rhine-Westphalia: Brüchermühle	E	h1	h1	0.98	-	-	This study
MTD T 12127	Germany: North Rhine-Westphalia: Brüchermühle	E	h1	h1	1.00	-	-	This study
MTD T 12128	Germany: North Rhine-Westphalia: Brüchermühle	E	h1	-	1.00	-	-	This study
MTD T 14059	Germany: North Rhine-Westphalia: Dortmund	E	h1	h1	1.00	-	-	This study
MTD T 14060	Germany: North Rhine-Westphalia: Dortmund	E	h1	h1	1.00	-	-	This study
MTD T 11981	Germany: North Rhine-Westphalia: Dortmund: Kirchderne	E	h1	h1	1.00	-	-	This study
ZFMK 86786	Germany: North Rhine-Westphalia: Dove	E	h1	-	1.00	-	-	Kindler et al. (2013)
SMNS 14502	Germany: North Rhine-Westphalia: Herfrah	E	h1	h1	0.99	-	-	This study
MTD T 11786	Germany: North Rhine-Westphalia: Herne	E	h1	h1	0.98	-	-	This study
MTD T 12021	Germany: North Rhine-Westphalia: Herne	E	h1	-	0.98	-	-	This study
MTD T 12020	Germany: North Rhine-Westphalia: Königswinter	E	h10	-	0.94	-	-	This study
ZFMK 82773	Germany: North Rhine-Westphalia: Königswinter: Irenbach	E	h1	h17	0.98	-	-	Kindler et al. (2013)
MTD T 11790	Germany: North Rhine-Westphalia: Mettmann: Neandertal	4	r4	-	0.00	0.94	-	This study
MTD T 11809	Germany: North Rhine-Westphalia: Mettmann: Neandertal	4	r4	-	0.00	0.97	0.23	This study
MTD T 11874	Germany: North Rhine-Westphalia: Mettmann: Neandertal	4	r4	r28	0.00	0.97	0.23	This study
MTD T 11879	Germany: North Rhine-Westphalia: Mettmann: Neandertal	4	r4	-	-	-	-	This study
MTD T 11888	Germany: North Rhine-Westphalia: Mettmann: Neandertal	4	r4	r28	0.00	0.98	0.05	This study
MTD T 11889	Germany: North Rhine-Westphalia: Mettmann: Neandertal	4	r4	r34	0.00	0.99	0.17	This study
MTD T 11890	Germany: North Rhine-Westphalia: Mettmann: Neandertal	4	r4	r28	0.00	0.97	0.21	This study
MTD T 11891	Germany: North Rhine-Westphalia: Mettmann: Neandertal	4	r4	-	0.00	0.96	0.08	This study
MTD T 11892	Germany: North Rhine-Westphalia: Mettmann: Neandertal	4	r4	-	0.00	0.91	-	This study
MTD T 11894	Germany: North Rhine-Westphalia: Mettmann: Neandertal	4	r4	-	0.00	0.97	0.10	This study
MTD T 11895	Germany: North Rhine-Westphalia: Mettmann: Neandertal	4	r4	-	0.00	0.98	0.06	This study
MTD T 11574	Germany: North Rhine-Westphalia: Muech	E	h1	h1	1.00	-	-	This study
MTD T 11575	Germany: North Rhine-Westphalia: Muech	E	h1	h1	1.00	-	-	This study
MTD T 11576	Germany: North Rhine-Westphalia: Muech	E	h1	h1	1.00	-	-	This study
MTD T 11577	Germany: North Rhine-Westphalia: Muech	E	h1	h1	0.99	-	-	This study
MTD T 14087	Germany: North Rhine-Westphalia: near Dornagen: Knechtsteden Wald	E	h1	h1	1.00	-	-	This study
MTD T 14088	Germany: North Rhine-Westphalia: near Dornagen: Knechtsteden Wald	E	h1	h1	1.00	-	-	This study
MTD T 14089	Germany: North Rhine-Westphalia: near Dornagen: Knechtsteden Wald	E	h1	-	-	-	-	This study
MTD T 14090	Germany: North Rhine-Westphalia: near Dornagen: Knechtsteden Wald	E	-	h1	1.00	-	-	This study
MTD T 14091	Germany: North Rhine-Westphalia: near Dornagen: Knechtsteden Wald	E	h1	-	1.00	-	-	This study
MTD T 14092	Germany: North Rhine-Westphalia: near Dornagen: Knechtsteden Wald	E	h1	h1	1.00	-	-	This study
MTD T 14094	Germany: North Rhine-Westphalia: near Dornagen: Knechtsteden Wald	E	h1	-	1.00	-	-	This study
MTD T 14095	Germany: North Rhine-Westphalia: near Dornagen: Knechtsteden Wald	E	h1	-	1.00	-	-	This study
MTD T 14096	Germany: North Rhine-Westphalia: near Dornagen: Knechtsteden Wald	E	h1	h1	1.00	-	-	This study
MTD T 14097	Germany: North Rhine-Westphalia: near Dornagen: Knechtsteden Wald	E	h1	-	-	-	-	This study
MTD T 14098	Germany: North Rhine-Westphalia: near Dornagen: Knechtsteden Wald	E	h1	-	1.00	-	-	This study
MTD T 14099	Germany: North Rhine-Westphalia: near Dornagen: Knechtsteden Wald	E	h1	-	1.00	-	-	This study
MTD T 14100	Germany: North Rhine-Westphalia: near Dornagen: Knechtsteden Wald	E	h1	h1	1.00	-	-	This study
MTD T 14101	Germany: North Rhine-Westphalia: near Dornagen: Knechtsteden Wald	E	h1	-	1.00	-	-	This study
MTD T 14103	Germany: North Rhine-Westphalia: near Dornagen: Knechtsteden Wald	E	h1	h1	1.00	-	-	This study
MTD T 14104	Germany: North Rhine-Westphalia: near Dornagen: Knechtsteden Wald	E	h1	-	-	-	-	This study
MTD T 14105	Germany: North Rhine-Westphalia: near Dornagen: Knechtsteden Wald	E	h1	h1	1.00	-	-	This study
MTD T 14106	Germany: North Rhine-Westphalia: near Dornagen: Knechtsteden Wald	E	h1	-	1.00	-	-	This study
MTD T 14107	Germany: North Rhine-Westphalia: near Dornagen: Knechtsteden Wald	E	h1	h1	-	-	-	This study
MTD T 14109	Germany: North Rhine-Westphalia: near Dornagen: Knechtsteden Wald	E	h1	-	1.00	-	-	This study
MTD T 14111	Germany: North Rhine-Westphalia: near Dornagen: Knechtsteden Wald	E	h1	h1	1.00	-	-	This study
MTD T 14485	Germany: North Rhine-Westphalia: near Olpe: Friesenhagen	E	h1	h1	0.95	-	-	This study
ZFMK 83771	Germany: North Rhine-Westphalia: Nideggen/Eifel	E	h1	h1	0.98	-	-	Kindler et al. (2013)
MTD T 13972	Germany: North Rhine-Westphalia: Rösrah	E	h1	h1	0.99	-	-	This study
ZFMK 89086	Germany: North Rhine-Westphalia: Sankt Augustin-Hangelar	E	h1	h1	0.96	-	-	Kindler et al. (2013)
MTD T 11157	Germany: North Rhine-Westphalia: Treisdorf	E	h1	h1	-	-	-	This study
MTD T 11996	Germany: North Rhine-Westphalia: Treisdorf	E	h1	h1	1.00	-	-	This study
MTD T 14486	Germany: North Rhine-Westphalia: Wesel	E	h1	h1	0.97	-	-	This study
MTD T 11795	Germany: North Rhine-Westphalia: Wuppertal: Kohlfurt	E	h1	h1	1.00	-	-	This study
MTD T 11873	Germany: North Rhine-Westphalia: Wuppertal: Kohlfurt	E	h1	h1	-	-	-	This study
MTD T 11877	Germany: North Rhine-Westphalia: Wuppertal: Kohlfurt	E	h1	-	0.97	-	-	This study
MTD T 11878	Germany: North Rhine-Westphalia: Wuppertal: Kohlfurt	E	h1	h1	0.99	-	-	This study
MTD T 11880	Germany: North Rhine-Westphalia: Wuppertal: Kohlfurt	E	h1	h1	1.00	-	-	This study
MTD T 11881	Germany: North Rhine-Westphalia: Wuppertal: Kohlfurt	E	h1	h1	1.00	-	-	This study
MTD T 11883	Germany: North Rhine-Westphalia: Wuppertal: Kohlfurt	E	h1	h1	1.00	-	-	This study
MTD T 11884	Germany: North Rhine-Westphalia: Wuppertal: Kohlfurt	E	h1	-	0.96	-	-	This study
MTD T 11886	Germany: North Rhine-Westphalia: Wuppertal: Kohlfurt	E	h1	h1	0.99	-	-	This study
MTD T 11887	Germany: North Rhine-Westphalia: Wuppertal: Kohlfurt	E	h1	h1	1.00	-	-	This study
MTD T 11944	Germany: North Rhine-Westphalia: Wuppertal: Kohlfurt	E	h1	h1	1.00	-	-	This study
MTD T 11985	Germany: North Rhine-Westphalia: Wuppertal: Kohlfurt	E	h1	h1	1.00	-	-	This study

• Table S1 continued

Voucher	Locality	mtDNA data			Microsatellite data			Reference
		mtDNA clade	ND4 haplotype	cyt b haplotype	First STRUCTURE run	Second STRUCTURE run	Third STRUCTURE run	
MTD T 1207	Germany: North Rhine-Westphalia: Wuppertal: Kohlfurt	E	h1	-	1.00	-	-	This study
MTD T 12043	Germany: North Rhine-Westphalia: Wuppertal: Kohlfurt	E	h1	-	-	-	-	This study
MTD T 12045	Germany: North Rhine-Westphalia: Wuppertal: Kohlfurt	E	h1	-	0.99	-	-	This study
MTD T 12048	Germany: North Rhine-Westphalia: Wuppertal: Kohlfurt	E	h1	-	1.00	-	-	This study
MTD T 12049	Germany: North Rhine-Westphalia: Wuppertal: Kohlfurt	E	h1	-	1.00	-	-	This study
MTD T 12050	Germany: North Rhine-Westphalia: Wuppertal: Kohlfurt	E	h1	h1	0.99	-	-	This study
MTD T 12051	Germany: North Rhine-Westphalia: Wuppertal: Kohlfurt	E	h1	h1	1.00	-	-	This study
MTD T 12052	Germany: North Rhine-Westphalia: Wuppertal: Kohlfurt	E	h1	h1	1.00	-	-	This study
MTD T 12053	Germany: North Rhine-Westphalia: Wuppertal: Kohlfurt	E	h1	h1	0.93	-	-	This study
MTD T 12054	Germany: North Rhine-Westphalia: Wuppertal: Kohlfurt	E	h1	-	1.00	-	-	This study
ZFMK 73645	Germany: North Rhine-Westphalia: Wuppertal: Morsbachtal	E	h1	h1	1.00	-	-	Kindler et al. (2013)
MTD T 12057	Germany: North Rhine-Westphalia: Wuppertal: Neu-Dornap	E	h1	-	1.00	-	-	This study
ZFMK 73646	Germany: North Rhine-Westphalia: Wuppertal: Vorwerk	E	h1	h1	1.00	-	-	Kindler et al. (2013)
MTD T 14838	Germany: Rhineland-Palatinate: Altenahr	E	h5	h1	-	-	-	This study
MTD T 12042	Germany: Rhineland-Palatinate: between Oberpleis and Eudenbach	E	h1	-	-	-	-	This study
SMF 56593	Germany: Rhineland-Palatinate: Bärdenbach	E	h1	h1	0.89	-	-	This study
SMNS 14504	Germany: Rhineland-Palatinate: Gernersheim	E	h1	h1	1.00	-	-	This study
ZFMK 80876	Germany: Rhineland-Palatinate: Lerhausen	E	h1	h1	0.92	-	-	Kindler et al. (2013)
MTD D 35933	Germany: Rhineland-Palatinate: Lieser	E	h1	h1	1.00	-	-	Kindler et al. (2013)
ZFMK 83703	Germany: Rhineland-Palatinate: Maria Laach	E	h1	h1	-	-	-	Kindler et al. (2013)
SMF 73299	Germany: Rhineland-Palatinate: Naamth	E	h1	h1	1.00	-	-	This study
MTD T 1573	Germany: Rhineland-Palatinate: near Drei	E	h1	h1	1.00	-	-	This study
MTD T 11758	Germany: Rhineland-Palatinate: near Linz: St. Katharinen	E	h1	-	-	-	-	This study
SMF 71940	Germany: Rhineland-Palatinate: SW Koblenz: between Macken and Burgin	E	h1	h1	0.99	-	-	This study
ZFMK 80875	Germany: Rhineland-Palatinate: Wollersburg	E	h1	-	1.00	-	-	Kindler et al. (2013)
ZFMK 54321	Germany: Saarland: Hirschberg/Neunkirchen	E	-	b28	0.99	-	-	Kindler et al. (2013)
MTD T 14481	Germany: Saxony: Alzenberg: Bärenstein	4	r3	r10	0.00	0.99	0.82	This study
MTD D 39712	Germany: Saxony: Bad Döben	3	y1	HF80028	-	-	-	Kindler et al. (2013)
MTD D 39331	Germany: Saxony: Bad Gottsche	4	r3	r17	0.00	0.98	0.19	Kindler et al. (2013)
MTD D 47231	Germany: Saxony: Bürgsdorf	4	r3	r10	0.00	0.98	0.49	Kindler et al. (2013)
MTD T 10923	Germany: Saxony: between Burkhardtswalde and Obermanzig	3	y1	y5	0.01	0.81	-	This study
MTD T 14545	Germany: Saxony: between Mohorn and Helbigsdorf	4	r4	r34	0.00	0.99	0.34	This study
MTD T 10997	Germany: Saxony: between Volkendorf and Boxdorf	4	r28	r10	0.00	0.98	0.91	This study
MTD T 10998	Germany: Saxony: between Volkendorf and Boxdorf	4	r3	r10	-	-	-	This study
MTD T 3183	Germany: Saxony: Biehla	3	y1	y6	0.00	0.98	0.23	Kindler et al. (2013)
MTD D 31066	Germany: Saxony: Bioma	4	r3	r17	0.02	0.96	0.15	Kindler et al. (2013)
MWLK 19213	Germany: Saxony: Burkau	3	y2	y5	0.00	0.98	0.62	This study
MTD D 47317	Germany: Saxony: Chemnitz	3	y9	y5	0.00	0.99	0.64	Kindler et al. (2013)
MTD D 47318	Germany: Saxony: Chemnitz	3	-	y5	0.00	0.99	0.93	Kindler et al. (2013)
MWLK 80305	Germany: Saxony: Cunnersdorf	4	r3	r10	0.00	0.94	-	This study
MWLK 62605	Germany: Saxony: Cunnersdorf: Biehla	3	y2	y5	0.00	0.99	0.38	Kindler et al. (2013)
MTD D 46238	Germany: Saxony: Dahlen	3	y1	y5	0.00	0.96	0.72	Kindler et al. (2013)
MWLK 58811	Germany: Saxony: Doben	3	y1	y6	0.00	0.98	0.85	This study
MTD D 47638	Germany: Saxony: Dorfhain	4	r3	r10	0.00	0.99	0.65	Kindler et al. (2013)
MTD D 45227	Germany: Saxony: Dresden	4	r3	r27	0.00	0.97	0.18	Kindler et al. (2013)
MTD D 47639	Germany: Saxony: Dresden	4	r3	r10	0.01	0.98	0.75	Kindler et al. (2013)
MTD D 47728	Germany: Saxony: Dresden	3	y1	r10	0.00	0.99	0.78	Kindler et al. (2013)
MTD T 11539	Germany: Saxony: Dresden	3	y1	r27	0.02	0.99	0.86	This study
MTD T 13025	Germany: Saxony: Dresden	4	r3	r10	0.00	0.99	0.60	This study
MTD T 13090	Germany: Saxony: Dresden	3	y1	r27	0.00	0.98	0.65	This study
MTD T 14057	Germany: Saxony: Dresden	4	r3	r10	-	-	-	This study
MTD T 14487	Germany: Saxony: Dresden	4	r3	r10	0.00	0.99	0.12	This study
MTD T 11159	Germany: Saxony: Dresden: Airport	4	r3	r10	0.00	0.99	0.87	This study
MTD T 12816	Germany: Saxony: Dresden: Klotzsche	4	r3	r10	0.02	0.98	0.77	This study
MTD T 12832	Germany: Saxony: Dresden: Klotzsche	4	r3	r10	0.00	0.99	0.79	This study
MWLK 7608	Germany: Saxony: Dresden: Klotzsche	3	y1	r27	-	-	-	This study
MTD D 48178	Germany: Saxony: Dresden: Langbrück	4	r4	r34	0.00	0.98	0.57	Kindler et al. (2013)
MTD T 12835	Germany: Saxony: Dresden: Langbrück	3	y1	r27	0.00	0.98	0.22	This study
MWLK 66511	Germany: Saxony: Dresden: Langbrück	3	y1	-	-	-	-	This study
MTD D 47258	Germany: Saxony: Dresden: Weisdorf	4	r3	r10	0.02	0.98	0.87	Kindler et al. (2013)
MTD D 48756	Germany: Saxony: Dresden: Weisdorf	3	y1	r27	0.00	0.99	0.76	This study
MWLK 25008	Germany: Saxony: Droben	3	y1	y8	0.00	0.99	0.40	This study
MWLK 39901	Germany: Saxony: Dübzig - Schreckthal	3	y1	y6	-	-	-	This study
MWLK 5104	Germany: Saxony: Dübziger Moor	3	y1	y6	0.00	0.98	0.58	Kindler et al. (2013)
MWLK 43208	Germany: Saxony: Fischbach	4	r3	r10	0.00	0.99	0.31	This study
MWLK 26508	Germany: Saxony: Groß Neida	3	y1	y5	0.00	0.98	0.55	This study
MWLK 26608	Germany: Saxony: Groß Neida	3	y1	-	0.00	0.99	0.40	This study
MTD D 38701	Germany: Saxony: Großlittmunsdorf	4	-	r34	-	-	-	Kindler et al. (2013)
MWLK 37004	Germany: Saxony: Großlittmunsdorf	4	r3	r10	-	-	-	Kindler et al. (2013)
MWLK 77605	Germany: Saxony: Guttau	3	y1	y5	0.00	0.92	-	Kindler et al. (2013)
MTD D 47002	Germany: Saxony: Hartmanngrün	3	-	y5	0.00	0.99	0.67	This study
MTD T 17523	Germany: Saxony: Helbigsdorf	3	y4	r59	0.00	0.99	0.88	This study
MWLK 79405	Germany: Saxony: Jätschiba	3	y1	y5	0.01	0.93	-	This study
MWLK 18212	Germany: Saxony: Karmatz	3	y2	y5	0.00	0.97	0.29	Kindler et al. (2013)
MWLK 46605	Germany: Saxony: Karmatz	4	r3	-	0.00	0.99	0.46	Kindler et al. (2013)
MWLK 98805	Germany: Saxony: Karmatz	3	y2	y5	0.00	0.97	0.26	Kindler et al. (2013)
MTD T 10924	Germany: Saxony: Karsdorf	4	r3	r10	0.00	0.99	0.61	This study
MTD T 10925	Germany: Saxony: Karsdorf	4	r3	r10	0.01	0.99	0.26	This study
MTD T 10926	Germany: Saxony: Karsdorf	3	y1	y5	0.01	0.98	0.69	This study
MTD T 10927	Germany: Saxony: Karsdorf	4	r3	r10	-	-	-	This study
MTD T 10928	Germany: Saxony: Karsdorf	4	r3	r10	-	-	-	This study
MTD T 10929	Germany: Saxony: Karsdorf	4	r4	r34	0.01	0.99	0.22	This study
MTD T 10930	Germany: Saxony: Karsdorf	3	y1	y5	0.01	0.98	0.62	This study
MTD T 10932	Germany: Saxony: Karsdorf	4	r4	r34	0.00	0.99	0.90	This study
MTD T 10933	Germany: Saxony: Karsdorf	4	r3	r17	0.00	0.99	0.30	This study
MTD T 10934	Germany: Saxony: Karsdorf	4	r3	r10	-	-	-	This study
MTD T 10843	Germany: Saxony: Kleba	4	r3	r10	0.00	0.90	-	This study
MTD T 14350	Germany: Saxony: Klingenberg	4	r3	r10	0.00	0.98	0.20	This study
MTD T 14351	Germany: Saxony: Klingenberg	4	r4	r34	0.00	0.99	0.14	This study
MTD T 14444	Germany: Saxony: Klingenberg	4	r3	r10	0.00	0.99	0.83	This study
MTD T 14445	Germany: Saxony: Klingenberg	4	r3	r10	0.00	0.98	0.09	This study
MTD D 40611	Germany: Saxony: Kreischa-Lockmitel	4	r3	r10	0.00	0.99	0.61	Kindler et al. (2013)
MTD D 45996	Germany: Saxony: Lauterbach	3	-	y5	0.00	0.99	0.95	Kindler et al. (2013)
MTD T 9528	Germany: Saxony: Lengfeld / Neunzehnhain	4	r3	r11	0.00	0.98	0.73	Kindler et al. (2013)
MWLK 34310	Germany: Saxony: Liebigast	3	y1	r27	0.01	0.99	0.86	This study
MTD D 48837	Germany: Saxony: Liegau-Augustusbad	4	r3	r10	0.00	0.99	0.20	This study
MTD T 10999	Germany: Saxony: Liegau-Augustusbad	4	r3	r10	0.00	0.99	0.22	This study
MTD T 11227	Germany: Saxony: Liegau-Augustusbad	4	r3	r10	0.00	0.98	0.50	This study
MTD T 11461	Germany: Saxony: Liegau-Augustusbad	4	r3	r10	0.00	0.97	0.30	This study
MTD T 12782	Germany: Saxony: Liegau-Augustusbad	3	y1	r27	0.00	0.98	0.28	This study
MTD T 13332	Germany: Saxony: Liegau-Augustusbad	3	y1	r27	0.00	0.97	0.33	This study
MWLK 7601	Germany: Saxony: Linz	4	r3	r10	0.00	0.99	0.52	Kindler et al. (2013)
MTD T 10936	Germany: Saxony: Meilingen	3	y1	r27	0.00	0.98	0.35	This study
MTD T 11106	Germany: Saxony: Meifen	3	y1	y5	0.08	-	-	This study
MTD T 11107	Germany: Saxony: Meifen	4	r3	r10	0.00	0.99	0.95	This study
MTD T 11108	Germany: Saxony: Meifen	4	r3	r10	0.00	0.98	0.26	This study
MTD T 11396	Germany: Saxony: Meifen	4	r3	r10	0.00	0.98	0.20	This study
MTD T 11397	Germany: Saxony: Meifen	3	y1	y5	0.00	0.99	0.56	This study
MTD T 11398	Germany: Saxony: Meifen	4	r3	r14	0.00	0.98	0.66	This study
MTD T 11400	Germany: Saxony: Meifen	4	r3	r14	-	-	-	This study
MWLK 37101	Germany: Saxony: Michalken	3	y1	y5	0.00	0.98	0.22	Kindler et al. (2013)
MWLK 37201	Germany: Saxony: Michalken	3	y1	y6	0.00	0.97	0.45	Kindler et al. (2013)
MWLK 62407	Germany: Saxony: Michalken	3	y1	y5	0.01	0.99	0.51	This study
MTD D 45906	Germany: Saxony: Milkel	3	y1	y6	-	-	-	Kindler et al. (2013)
MWLK 79305	Germany: Saxony: Milkel	3	y1	y8	0.00	0.98	0.35	This study
MWLK 103205	Germany: Saxony: Mönau	3	y1	y5	0.00	0.99	0.92	This study
MWLK 104905	Germany: Saxony: Mönau	3	y1	y5	0.01	0.96	0.20	This study
MTD T 10770	Germany: Saxony: Moritzburg	4	r4	r34	0.01	0.73	-	This study
MTD T 10771	Germany: Saxony: Moritzburg	4	r4	r34	0.00	0.99	0.71	This study
MTD T 10772	Germany: Saxony: Moritzburg	4	r4	r44	0.01	0.99	0.58	This study
MTD T 10773	Germany: Saxony: Moritzburg	3	y1	r54	0.01	0.99	0.92	This study
MTD T 10774	Germany: Saxony: Moritzburg	3	y1	r54	0.00	0.92	-	This study
MTD T 11031	Germany: Saxony: Moritzburg	4	r3	r10	0.00	0.99	0.39	This study
MTD T 11032	Germany: Saxony: Moritzburg	4	r4	r34	0.01	0.98	0.32	This study

• Table S1 continued

Voucher	Locality	mtDNA data			Microsatellite data			Reference
		mtDNA clade	ND4 haplotype	cyt b haplotype	First STRUCTURE run	Second STRUCTURE run	Third STRUCTURE run	
MTD T 11033	Germany: Saxony: Moritzburg	4	r4	r4	0.00	0.99	0.10	This study
MTD T 11035	Germany: Saxony: Moritzburg	4	r4	r4	0.00	0.99	0.92	This study
MWLK 665/11	Germany: Saxony: Namborf	4	r5	r10	0.01	0.98	0.75	This study
MTD T 11395	Germany: Saxony: near Dresden	3	y1	y27	0.01	0.93	-	This study
MWLK 105/01	Germany: Saxony: Neudorf	3	y1	y5	0.00	0.96	0.73	This study
MWLK 311/05	Germany: Saxony: Neukirch	3	y1	y7	0.00	0.95	0.25	Kindler et al. (2013)
MTD D 47429	Germany: Saxony: Oberschöna	4	r3	r10	-	-	-	Kindler et al. (2013)
MTD D 32501	Germany: Saxony: Oppach	3	y1	y7	-	-	-	Kindler et al. (2013)
MWLK 141/09	Germany: Saxony: Oppitz	3	y1	y19	0.01	0.98	0.33	This study
MTD D 42679	Germany: Saxony: Ottendorf Okrilla	3	y1	y7	0.00	0.99	0.63	Kindler et al. (2013)
MTD T 11222	Germany: Saxony: Ottendorf Okrilla	3	y1	y6	-	-	-	This study
MTD T 14857	Germany: Saxony: Pirka: dam	3	y9	y5	0.00	0.98	0.50	This study
MWLK 378/10	Germany: Saxony: Prachenau	3	y1	y7	0.00	0.98	0.74	This study
MWLK 297/10	Germany: Saxony: Pulsnitz	4	r3	r10	0.00	0.82	-	This study
MWLK 284/99	Germany: Saxony: Rehdorf	3	y2	y5	0.00	0.99	0.53	Kindler et al. (2013)
MTD T 13915	Germany: Saxony: Rietschen	3	y3	y5	0.00	0.99	0.60	This study
MTD T 13916	Germany: Saxony: Rietschen	3	y41	y5	0.00	0.98	0.49	This study
MWLK 194/09	Germany: Saxony: Röhndorf	4	r3	r10	0.00	0.91	-	This study
MWLK 68/02	Germany: Saxony: Schöna	3	y1	y19	0.00	0.98	0.25	This study
MWLK 1486/06	Germany: Saxony: Schönbach-Bulleritz	3	y2	y5	0.00	0.99	0.29	This study
MTD T 11030	Germany: Saxony: Schönborn	3	y1	y6	0.00	0.99	0.06	This study
MWLK 53/04	Germany: Saxony: Schwenepitz	3	y3	y5	0.00	0.95	0.39	Kindler et al. (2013)
MTD T 12833	Germany: Saxony: Seitz	4	r4	r10	0.01	0.98	0.86	This study
MWLK 137/12	Germany: Saxony: Skalka	3	y1	y6	0.00	0.97	0.46	This study
MWLK 294/12	Germany: Saxony: Skalka	3	y1	y6	0.00	0.98	0.93	This study
MWLK 687/11	Germany: Saxony: Skalka	3	y1	y5	0.01	0.99	0.77	This study
MWLK 537/11	Germany: Saxony: Steinitz	3	y1	y5	0.00	0.90	-	This study
MWLK 483/07	Germany: Saxony: Straßgrüben	3	y2	y5	0.00	0.99	0.25	This study
MWLK 795/05	Germany: Saxony: Teicha	3	-	y5	0.00	0.97	0.13	Kindler et al. (2013)
MTD T 13015	Germany: Saxony: Tharandt	4	r3	r10	0.00	0.99	0.19	This study
MWLK 1047/05	Germany: Saxony: Treugebblä	3	y14	y5	0.00	0.98	0.76	This study
MWLK 10/13	Germany: Saxony: Ubyst - Mönau	3	y32	y7	0.00	0.96	0.72	This study
MWLK 447/11	Germany: Saxony: Ubyst - Mönau	3	y1	y5	0.00	0.99	0.61	This study
MTD T 12185	Germany: Saxony: w Niesky	3	-	y5	0.00	0.98	0.77	This study
MTD D 42680	Germany: Saxony: Waldenberg	3	y1	y15	0.00	0.99	0.73	Kindler et al. (2013)
MWLK 1050/05	Germany: Saxony: Wartha-Steinitz	3	y26	y6	0.00	0.90	-	This study
MWLK 115/09	Germany: Saxony: Weinbilla	3	y1	y1	0.01	0.99	0.74	This study
MTD T 10775	Germany: Saxony: Wermdorf	3	y1	y5	0.00	0.97	0.47	This study
MTD T 10994	Germany: Saxony: Wermdorf	3	y1	y5	0.00	0.99	0.81	This study
MTD T 10995	Germany: Saxony: Wermdorf	4	r3	-	0.00	0.98	0.60	This study
MTD T 10996	Germany: Saxony: Wermdorf	4	r3	r10	0.00	0.98	0.35	This study
MTD T 11223	Germany: Saxony: Wermdorf	4	r3	r10	0.00	0.83	-	This study
MWLK 815/05	Germany: Saxony: Wülthenau	3	y1	y5	0.00	0.99	0.11	This study
MTD D 44148	Germany: Saxony: Auhalt: Altenbrink	3	y1	y5	0.00	0.97	0.13	Kindler et al. (2013)
MTD T 1579	Germany: Saxony: Auhalt: near Kriebitzlar: Lake Gettelhal	3	y1	y17	0.01	0.98	0.84	Kindler et al. (2013)
ZFMK 80987	Germany: Saxony: Auhalt: Saagenhansen	3	y1	y5	0.00	0.95	0.64	This study
MTD T 14072	Germany: Schleswig-Holstein: Bad Bramstedt	3	y1	y19	0.00	0.99	0.92	Kindler et al. (2013)
ZMH R09486	Germany: Schleswig-Holstein: Bargteheide	-	-	-	0.08	-	-	This study
ZMH R09497	Germany: Schleswig-Holstein: Bargteheide	3	y1	y20	0.01	0.99	0.85	This study
ZMH R09855	Germany: Schleswig-Holstein: Bargteheide	3	y1	y20	0.00	0.99	0.87	This study
ZMH R11001	Germany: Schleswig-Holstein: Bargteheide	3	y1	y20	0.02	0.99	0.90	This study
MTD T 14846	Germany: Schleswig-Holstein: Bark: Barker Heide	3	y1	y20	0.01	0.95	0.66	This study
MTD T 14847	Germany: Schleswig-Holstein: Dägelung: Heide Nordsee	3	y1	y20	0.01	0.94	-	This study
MTD T 14070	Germany: Schleswig-Holstein: Daddorf: Kiebitzholmer Moor	3	y1	y20	0.01	0.98	0.96	This study
MTD T 14845	Germany: Schleswig-Holstein: Dägen	3	y11	y20	0.01	0.98	0.67	This study
ZMH R09946	Germany: Schleswig-Holstein: Dithmarschen	3	y1	-	-	-	-	This study
MTD T 14073	Germany: Schleswig-Holstein: Felm: Kallendorfer Moor	3	y1	y21	0.02	0.99	0.91	This study
MTD T 14074	Germany: Schleswig-Holstein: Felm: Kallendorfer Moor	3	y1	y21	0.00	0.99	0.94	This study
MTD T 14848	Germany: Schleswig-Holstein: Felm: Kallendorfer Moor	3	y1	y21	0.00	0.99	0.94	This study
MTD T 14071	Germany: Schleswig-Holstein: Gröbham	3	y11	-	0.01	0.96	0.89	This study
MTD T 14066	Germany: Schleswig-Holstein: Hamdorf	3	y11	y20	0.00	0.99	0.88	This study
MTD T 14069	Germany: Schleswig-Holstein: Hamdorf	3	y1	y20	0.01	0.98	0.83	This study
ZFMK 85184	Germany: Schleswig-Holstein: Kiel: Elmshagen	3	y1	y20	0.00	0.99	0.95	Kindler et al. (2013)
ZFMK 62405	Germany: Schleswig-Holstein: Kiel: Landwehr	3	y1	HF680066	0.00	0.99	0.82	Kindler et al. (2013)
MTD T 13934	Germany: Schleswig-Holstein: Klein Rönkau	3	y1	-	0.00	0.99	0.95	This study
ZMH R09338	Germany: Schleswig-Holstein: Langenhorst	3	y1	y19	0.00	0.99	0.95	This study
MTD T 14068	Germany: Schleswig-Holstein: Lübeck: Grönauer Heide	3	y1	y20	0.00	0.99	0.92	This study
MTD T 13935	Germany: Schleswig-Holstein: Lübeck: Schellbruch	3	y1	y20	0.01	0.95	0.85	This study
MTD T 13936	Germany: Schleswig-Holstein: Lübeck: Schellbruch	3	y1	y20	0.01	0.99	0.96	This study
MTD T 14063	Germany: Schleswig-Holstein: Osterfeld	3	y1	y21	0.00	0.99	0.92	This study
ZFMK 92335	Germany: Schleswig-Holstein: Probstel: Hugner Moor	3	y1	y41	0.00	0.99	0.80	Kindler et al. (2013)
ZFMK 72639	Germany: Schleswig-Holstein: Probstel: Probstelheide	3	y1	y41	0.00	0.99	0.87	Kindler et al. (2013)
ZMH R04381	Germany: Schleswig-Holstein: Rendsburg-Eckernförde: Wandler	3	y1	y5	0.00	0.99	0.76	This study
MTD T 14064	Germany: Schleswig-Holstein: Sehestedt	3	y1	y20	0.00	0.99	0.95	This study
NME R 0409/02	Germany: Thuringia: Cospeida	3	y1	y5	0.00	0.99	0.45	This study
NME R 0445/04	Germany: Thuringia: Erfurt: Rhoda	3	y1	y5	0.00	0.97	0.76	This study
NME R 0507/07	Germany: Thuringia: Erfurt: Rhoda	3	y1	y5	0.00	0.99	0.53	This study
NME R 0556/08	Germany: Thuringia: Erfurt: Rhoda	3	y1	y5	0.00	0.98	0.69	This study
NME R 0606/11	Germany: Thuringia: Geroda	3	y1	y5	0.00	0.98	0.84	This study
NME R 0793/13	Germany: Thuringia: Großheringen	3	y1	y5	0.00	0.97	0.93	This study
NME R 0956/14	Germany: Thuringia: Heroldsdorf	3	y1	y5	-	-	-	This study
NME R 0415/02	Germany: Thuringia: Rotheud	3	y1	y16	0.00	0.99	0.11	This study
MTD T 12792	Germany: Thuringia: Schönbach dam	3	y1	y4	0.00	0.98	0.83	This study
NME R 0253/99	Germany: Thuringia: Triebes	3	y1	y5	-	-	-	This study
NME R 0676/10	Germany: Thuringia: Triebes	3	y1	y5	0.00	0.98	0.55	This study
NME R 0495/06	Germany: Thuringia: Ubsdahl: Kirchbühl	3	y1	-	-	-	-	This study
NME R 0890/13	Germany: Thuringia: Wandersleben	3	y1	y24	0.06	-	-	This study
NME R 0413/02	Germany: Thuringia: Zeulenroda-Triebes	3	y9	y5	0.00	0.99	0.59	This study
MTD T 14169	Great Britain	E	h1	h21	-	-	-	This study
MTD T 14807	Great Britain: Brecklands area of Norfolk: near Theford	E	h1	-	-	-	-	This study
MTD T 14808	Great Britain: Brecklands area of Norfolk: near Theford	E	h1	h7	1.00	-	-	This study
MTD T 14809	Great Britain: Brecklands area of Norfolk: near Theford	E	h1	h1	1.00	-	-	This study
MTD T 14810	Great Britain: Brecklands area of Norfolk: near Theford	E	h1	h1	1.00	-	-	This study
MTD T 14811	Great Britain: Brecklands area of Norfolk: near Theford	E	h1	h1	1.00	-	-	This study
MTD T 14812	Great Britain: Brecklands area of Norfolk: near Theford	E	h1	h1	1.00	-	-	This study
MTD T 14130	Great Britain: Buckinghamshire: Chesham	E	h1	h1	1.00	-	-	This study
MTD T 14144	Great Britain: Derbyshire: Eryps	E	h1	-	1.00	-	-	This study
MTD T 14165	Great Britain: Dorset	E	h1	h1	1.00	-	-	This study
MTD T 14166	Great Britain: Dorset	E	h1	h1	0.99	-	-	This study
MTD T 14131	Great Britain: Dorset: Bovington	E	h6	-	-	-	-	This study
MTD T 14132	Great Britain: Dorset: Christchurch	E	h1	h1	0.99	-	-	This study
MTD T 14117	Great Britain: Essex: Loughton	E	h1	h1	1.00	-	-	This study
MTD T 14118	Great Britain: Essex: Loughton	E	h1	h1	1.00	-	-	This study
MTD T 14119	Great Britain: Essex: Loughton	E	h1	h1	1.00	-	-	This study
MTD T 14120	Great Britain: Essex: Loughton	E	h1	h1	1.00	-	-	This study
MTD T 14121	Great Britain: Essex: Loughton	E	h1	h1	1.00	-	-	This study
MTD T 14122	Great Britain: Essex: Loughton	E	h1	h1	1.00	-	-	This study
MTD T 14136	Great Britain: Gloucestershire: Milkwall	E	h1	h1	1.00	-	-	This study
MTD T 14124	Great Britain: Hereford: 4km E Ledbury	E	h1	h1	1.00	-	-	This study
MTD T 14123	Great Britain: Hereford: Ledbury	E	h2	h1	1.00	-	-	This study
MTD T 14139	Great Britain: Herefordshire: Abbey Dore	E	h1	h1	1.00	-	-	This study
MTD T 14167	Great Britain: Herefordshire: Hatfield	E	h1	-	1.00	-	-	This study
MTD T 14137	Great Britain: Herefordshire: Tedstone Wafre	E	h1	h21	0.97	-	-	This study
MTD T 13012	Great Britain: Hull	E	h6	h1	1.00	-	-	This study
MTD T 13011	Great Britain: Hull	E	h6	h1	1.00	-	-	This study
MTD T 14133	Great Britain: Kent: Hildenborough	E	h1	-	1.00	-	-	This study
MTD T 14126	Great Britain: near Scotland	E	h1	h1	-	-	-	This study
MTD T 14127	Great Britain: near Scotland	E	h1	h1	-	-	-	This study
MTD T 14128	Great Britain: near Scotland	E	h1	h1	-	-	-	This study
MTD T 14121	Great Britain: Norfolk: Aylsham	E	-	h1	1.00	-	-	This study
MTD T 14116	Great Britain: Norfolk: City Cane	E	h1	h1	1.00	-	-	This study
MTD T 9982	Great Britain: North Wales: Gwaith Powder	E	h1	-	1.00	-	-	Kindler et al. (2013)
MTD T 9983	Great Britain: North Wales: Gwaith Powder	E	h1	-	1.00	-	-	Kindler et al. (2013)

• Table S1 continued

Voucher	Locality	mtDNA data			Microsatellite data			Reference
		mtDNA clade	ND4 haplotype	cyt b haplotype	First STRUCTURE run	Second STRUCTURE run	Third STRUCTURE run	
MTD T 14141	Great Britain: Northamptonshire: Sywell	E	h1	-	1.00	-	-	This study
MTD T 14140	Great Britain: Nottinghamshire: Jackdale	E	h1	h1	1.00	-	-	This study
MTD T 14113	Great Britain: Penbrokehire: Taberny	E	h1	-	0.92	-	-	This study
MTD T 14142	Great Britain: Staffordshire: between Wombourne and Sedgeley	E	h1	h1	1.00	-	-	This study
MTD T 14163	Great Britain: Suffolk: Martlesham	E	h1	h1	1.00	-	-	This study
MTD T 14164	Great Britain: Suffolk: Martlesham	E	h1	h1	1.00	-	-	This study
MTD T 14134	Great Britain: Surrey: Milford	E	h1	h1	1.00	-	-	This study
MTD T 14147	Great Britain: Surrey: Newdigate	C	c1	c1	0.98	-	-	This study
MTD T 14148	Great Britain: Surrey: Newdigate	E	h1	h1	0.73	-	-	This study
MTD T 14149	Great Britain: Surrey: Newdigate	E	h1	h21	0.96	-	-	This study
MTD T 14150	Great Britain: Surrey: Newdigate	E	h1	h1	0.99	-	-	This study
MTD T 14151	Great Britain: Surrey: Newdigate	E	h8	h1	0.90	-	-	This study
MTD T 14152	Great Britain: Surrey: Newdigate	C	c1	c1	0.84	-	-	This study
MTD T 14153	Great Britain: Surrey: Newdigate	C	c1	c1	1.00	-	-	This study
MTD T 14154	Great Britain: Surrey: Newdigate	E	h1	h21	0.99	-	-	This study
MTD T 14155	Great Britain: Surrey: Newdigate	E	h8	h1	0.98	-	-	This study
MTD T 14156	Great Britain: Surrey: Newdigate	E	h1	h21	0.98	-	-	This study
MTD T 14157	Great Britain: Surrey: Newdigate	C	c1	c1	0.94	-	-	This study
MTD T 14158	Great Britain: Surrey: Newdigate	E	h1	h1	0.98	-	-	This study
MTD T 14159	Great Britain: Surrey: Newdigate	E	h1	h1	0.98	-	-	This study
MTD T 14160	Great Britain: Surrey: Newdigate	E	h1	h21	0.96	-	-	This study
MTD T 14161	Great Britain: Surrey: Newdigate	E	h1	h21	0.82	-	-	This study
MTD T 14464	Great Britain: Surrey: Newdigate	E	h1	h21	0.99	-	-	This study
MTD T 14465	Great Britain: Surrey: Newdigate	E	h1	h1	0.83	-	-	This study
MTD T 14466	Great Britain: Surrey: Newdigate	F	f1	f1	0.93	-	-	This study
MTD T 14467	Great Britain: Surrey: Newdigate	A	a1	a54	1.00	-	-	This study
MTD T 14468	Great Britain: Surrey: Newdigate	E	h1	h1	0.99	-	-	This study
MTD T 14135	Great Britain: Sussex: Heathfield	E	h1	h1	1.00	-	-	This study
MTD T 14143	Great Britain: Warwickshire: Oxhill	E	h1	h1	1.00	-	-	This study
MTD T 14129	Great Britain: Yorkshire: Bradford	E	h1	h1	1.00	-	-	This study
MTD T 14359	Great Britain: Yorkshire: Skipwith Common	E	h6	h20	1.00	-	-	This study
MTD T 14360	Great Britain: Yorkshire: Southern Washlands	E	h6	h1	1.00	-	-	This study
MTD T 14361	Great Britain: Yorkshire: Southern Washlands	E	h6	h1	1.00	-	-	This study
BEV.12928	Greece: 4 km NE Kalpaki	5	i13	i14	0.01	0.13	-	This study
ZFMK 62945	Greece: Chalkidiki: N Straton	3	y16	y10	0.01	0.21	-	Kindler et al. (2013)
ZFMK 69946	Greece: Chalkidiki: N Straton	3	y15	y10	0.00	0.40	-	Kindler et al. (2013)
MTD D 19183	Greece: Cyclades: Milos	3	-	y10	0.00	0.60	-	Kindler et al. (2013)
ZFMK 85407	Greece: Cyclades: Milos	3	y15	-	0.00	0.78	-	Kindler et al. (2013)
MTD D 25827	Greece: Cyclades: Paros	4	r18	-	-	-	-	Kindler et al. (2013)
MTD T 8646	Greece: Dadia	7	g9	g1	0.06	-	-	Kindler et al. (2013)
MTD D 25843	Greece: Kythira	5	i16	i6	0.01	0.12	-	Kindler et al. (2013)
ZFMK 54702	Greece: Little Prespa Lake near Florina	5	i11	i10	0.01	0.15	-	Kindler et al. (2013)
MTD T 14327	Greece: Milos	3	y15	y10	0.00	0.50	-	This study
ZFMK 71679	Greece: Nestos Delta	3	-	y10	0.02	0.03	-	Kindler et al. (2013)
ZFMK 62506	Greece: Peloponnese: Ilio	5	i16	-	0.00	0.24	-	Kindler et al. (2013)
MTD T 14337	Greece: Peloponnese: Kalogria	5	i17	i7	0.00	0.65	-	This study
ZFMK 65179	Greece: Peloponnese: Kalogria	5	i2	-	0.00	0.03	-	Kindler et al. (2013)
ZFMK 71680	Greece: Peloponnese: Kato Kostamen	5	i16	i1	0.00	0.28	-	Kindler et al. (2013)
MTD T 13548	Greece: Peloponnese: Lake Doxa	5	-	i4	0.00	0.10	-	This study
MTD T 14329	Greece: Peloponnese: Lake Strofilia	5	i16	i3	0.03	0.09	-	This study
ZFMK 92217	Greece: Peloponnese: Limni Strofilia near Kalogria	5	i14	i8	0.00	0.05	-	Kindler et al. (2013)
ZFMK 82103	Greece: Peloponnese: near Pylos	5	i18	i5	0.00	0.16	-	Kindler et al. (2013)
ZFMK 83029	Greece: Peloponnese: near Pylos	5	i16	i2	0.01	0.20	-	Kindler et al. (2013)
ZFMK 84037	Greece: Peloponnese: near Pylos	5	i18	i5	0.03	0.04	-	Kindler et al. (2013)
ZFMK 86043	Greece: Peloponnese: near Pylos	5	i16	i5	0.04	0.07	-	Kindler et al. (2013)
ZFMK 86045	Greece: Peloponnese: near Pylos	5	-	i5	0.01	0.22	-	Kindler et al. (2013)
MTD T 14336	Greece: Peloponnese: Strofilia	5	i19	i8	0.01	0.08	-	This study
ZFMK 89415	Greece: Samos	7	g8	-	0.02	0.02	-	Kindler et al. (2013)
MTD T 11813	Greece: Samothrace	7	g6	-	0.00	0.02	-	This study
MTD T 11814	Greece: Samothrace	7	g6	-	0.00	0.03	-	This study
MTD T 11815	Greece: Samothrace	7	g6	-	0.01	0.05	-	This study
MTD T 11816	Greece: Samothrace	7	g6	g9	0.00	0.16	-	This study
MTD T 11817	Greece: Samothrace	7	g6	g9	0.00	0.04	-	This study
MTD T 11818	Greece: Samothrace	7	g6	-	0.00	0.04	-	This study
MTD T 11819	Greece: Samothrace	7	g6	-	0.01	0.13	-	This study
MTD T 11822	Greece: Samothrace	7	g6	-	0.01	0.12	-	This study
MTD T 11824	Greece: Samothrace	7	g6	-	0.00	0.09	-	This study
MTD T 11825	Greece: Samothrace	7	g6	-	0.00	0.10	-	This study
MTD T 11826	Greece: Samothrace	7	g6	-	0.01	0.04	-	This study
MTD T 11829	Greece: Samothrace	7	g6	-	0.00	0.03	-	This study
MTD T 11830	Greece: Samothrace	7	g6	-	0.00	0.04	-	This study
MTD T 11834	Greece: Samothrace	7	g6	-	0.00	0.14	-	This study
MTD T 11837	Greece: Samothrace	7	g6	-	0.00	0.02	-	This study
MTD T 9907	Greece: Skiros	3	y15	y10	0.00	0.03	-	Kindler et al. (2013)
MTD T 8639	Greece: Thessaloniki	3	HF679875	-	0.03	0.12	-	Kindler et al. (2013)
MTD D 29269	Greece: Volos	3	y15	HF680174	0.01	0.17	-	Kindler et al. (2013)
ZFMK 62956	Greece: Xanthos: Avdira	3	y15	y10	0.00	0.06	-	Kindler et al. (2013)
ZFMK 92957	Greece: Xanthos: Avdira	3	y15	-	0.00	0.08	-	Kindler et al. (2013)
ZFMK 62958	Greece: Xanthos: Jasmos	7	g8	-	0.01	0.08	-	Kindler et al. (2013)
MTD T 12033	Hungary: Balaton: Balatonszepezd	4	r4	-	0.00	0.31	-	This study
ZFMK 58024	Hungary: Balaton: Balatonszepezd	4	r4	-	0.00	0.31	-	Kindler et al. (2013)
ZFMK 74927	Hungary: Balaton: Tibany	4	r3	r10	0.00	0.64	-	Kindler et al. (2013)
MTD T 11207	Hungary: Balaton: Tibany	4	r3	r2	0.00	0.92	-	This study
MTD T 11888	Hungary: Balaton: Tibany	4	r24	-	0.00	0.72	-	This study
MTD T 11859	Hungary: Balaton: Tibany	4	r22	r34	0.00	0.91	-	This study
ZFMK 65686	Hungary: Barcs	4	r4	r34	0.00	0.65	-	Kindler et al. (2013)
ZFMK 88062	Hungary: between Sarád and Fentőlják	4	r4	r34	0.00	0.40	-	Kindler et al. (2013)
MTD T 12942	Hungary: Bodrogkisfalud	4	r4	r25	0.01	0.82	-	This study
ZFMK 61029	Hungary: Győr	4	r4	r10	0.00	0.97	0.07	Kindler et al. (2013)
ZFMK 91241	Hungary: Hámisági-főcsatorna	4	r4	r38	0.00	0.77	-	Kindler et al. (2013)
NHMHV 36357	Hungary: Hortobágy	4	r3	-	0.00	0.86	-	This study
MTD T 9906	Hungary: Hortobágy	4	r3	r3	0.00	0.89	-	Kindler et al. (2013)
MTD T 7571	Hungary: Komposztér	4	r4	r34	0.00	0.93	-	Kindler et al. (2013)
MTD T 7574	Hungary: Komposztér	4	r3	r27	0.00	0.62	-	Kindler et al. (2013)
MTD T 14547	Hungary: Lévédféles	4	r3	r3	0.00	0.72	-	This study
MTD T 12016	Hungary: Lippó	4	r3	-	0.00	0.88	-	This study
MTD T 11862	Hungary: near Fülöpstallas	4	r30	-	0.00	0.97	0.51	This study
MTD T 11863	Hungary: near Fülöpstallas	4	r4	r39	0.00	0.52	-	This study
MTD T 11595	Hungary: near Komposztér: Sarlópaszta	4	r4	r53	0.00	0.96	0.37	This study
MTD T 12751	Hungary: near Tokaj	4	r3	r3	0.00	0.95	0.43	This study
MTD T 12752	Hungary: near Tokaj	4	r26	r28	0.00	0.72	-	This study
MTD T 12753	Hungary: near Tokaj	4	r3	r3	0.00	0.98	0.16	This study
MTD T 12754	Hungary: near Tokaj	4	r3	r30	0.01	0.95	0.71	This study
MTD T 12755	Hungary: near Tokaj	4	r3	r3	0.00	0.60	-	This study
MTD T 12756	Hungary: near Tokaj	4	r27	r3	0.00	0.87	-	This study
MTD T 12757	Hungary: near Tokaj	4	r3	r13	0.00	0.92	-	This study
MTD T 12758	Hungary: near Tokaj	4	r3	r3	0.00	0.79	-	This study
MTD T 12759	Hungary: near Tokaj	4	r3	r3	0.00	0.96	0.12	This study
MTD T 12760	Hungary: near Tokaj	4	r3	r3	0.00	0.99	0.41	This study
MTD T 12761	Hungary: near Tokaj	4	r27	r3	0.00	0.98	0.10	This study
MTD T 12762	Hungary: near Tokaj	4	r3	r3	0.00	0.74	-	This study
MTD T 12763	Hungary: near Tokaj	4	r3	r3	0.00	0.68	-	This study
MTD T 12764	Hungary: near Tokaj	4	r27	r3	0.00	0.98	0.37	This study
MTD T 12765	Hungary: near Tokaj	4	r3	r3	0.00	0.99	0.07	This study
MTD T 12766	Hungary: near Tokaj	4	r3	r4	0.00	0.76	-	This study
MTD T 12767	Hungary: near Tokaj	4	r3	r3	0.01	0.98	0.35	This study
MTD T 12768	Hungary: near Tokaj	4	r3	r23	0.00	0.99	0.58	This study
MTD T 12769	Hungary: near Tokaj	4	r3	r3	0.00	0.96	0.47	This study
MTD T 12770	Hungary: near Tokaj	4	r3	r3	0.01	0.78	-	This study
MTD T 12771	Hungary: near Tokaj	4	r3	r3	0.00	0.92	-	This study
MTD T 12772	Hungary: near Tokaj	4	r3	r3	0.00	0.94	-	This study
MTD T 12773	Hungary: near Tokaj	4	r3	r3	0.00	0.91	-	This study
MTD T 12774	Hungary: near Tokaj	4	r3	r3	0.00	0.98	0.31	This study
MTD T 12775	Hungary: near Tokaj	4	r3	r3	0.00	0.96	0.26	This study

• Table S1 continued

Voucher	Locality	mtDNA data			Microsatellite data			Reference
		mtDNA clade	ND4 haplotype	cyt b haplotype	First STRUCTURE run	Second STRUCTURE run	Third STRUCTURE run	
MTD T 12776	Hungary: near Tokaj	4	r3	r3	0.01	0.92	-	This study
MTD T 12777	Hungary: near Tokaj	4	r3	r4	0.00	0.95	0.08	This study
MTD T 12778	Hungary: near Tokaj	4	r3	r3	0.00	0.98	0.54	This study
MTD T 12779	Hungary: near Tokaj	4	r3	r3	0.00	0.97	0.64	This study
MTD T 12780	Hungary: near Tokaj	4	r3	r3	0.00	0.81	-	This study
ZFMK 85985	Hungary: S Budapest	4	r4	r34	0.00	0.84	-	Kindler et al. (2013)
ZFMK 82795	Hungary: Somogyoszob	4	-	r34	0.00	0.55	-	Kindler et al. (2013)
MTD T 11918	Hungary: Szeged: Lake Feher	4	r14	-	0.00	0.68	-	This study
MTD T 11920	Hungary: Szeged: Lake Feher	4	r3	-	0.00	0.72	-	This study
MTD T 12014	Hungary: Szeged: Lake Feher	4	r3	-	0.00	0.46	-	This study
MTD T 12015	Hungary: Szeged: Lake Feher	4	r3	-	0.00	0.72	-	This study
MTD T 11864	Hungary: Tiszaalpir	4	r3	r3	0.00	0.91	-	This study
MTD T 11865	Hungary: Tiszaalpir	4	r3	r24	0.00	0.75	-	This study
MTD T 11867	Hungary: Tiszaalpir	4	r3	-	0.00	0.90	-	This study
MTD T 11879	Hungary: Tömörd	4	r4	r34	0.00	0.54	-	This study
MTD T 11880	Hungary: Tömörd	4	r4	r36	0.00	0.69	-	This study
MTD T 7594	Hungary: Villány	4	r4	r48	0.00	0.87	-	Kindler et al. (2013)
BEV.17571	Kazakhstan: Lake Edyltor	8	gn1	gn1	0.02	0.05	-	This study
BEV.17572	Kazakhstan: Lake Edyltor	8	gn1	gn1	0.02	0.06	-	This study
MTD T 14459	Kosovo: Ferizaj	4	r20	r31	0.03	0.49	-	This study
MTD T 14460	Kosovo: Ferizaj	5	r1	r11	0.01	0.22	-	This study
MTD T 14462	Kosovo: Gnjaj	5	r2	-	0.00	0.13	-	This study
MTD T 14458	Kosovo: Nerodime e Poshime	4	r20	-	0.01	0.26	-	This study
MTD T 14461	Kosovo: Topcjan	3	-	r29	0.06	-	-	This study
MTD T 8967	Lithuania: Marcinkevicius	8	r21	gn6	0.00	0.10	-	Kindler et al. (2013)
MTD T 12787	Lithuania: NE Silute	8	gn3	gn1	0.00	0.74	-	This study
MTD T 12788	Lithuania: NE Silute	8	gn3	gn1	0.00	0.20	-	This study
MTD T 12790	Lithuania: NE Silute	8	gn3	gn1	0.00	0.27	-	This study
MTD T 8968	Lithuania: Traneinkas	8	gn1	gn19	0.00	0.39	-	Kindler et al. (2013)
MTD T 14775	Montenegro: Bjelasica	4	r4	r1	0.06	-	-	This study
ZFMK 92216	Montenegro: near island Ada	5	r2	r12	0.00	0.12	-	Kindler et al. (2013)
MTD T 9875	Montenegro: Sasovki, Zeleznica, Boka kotorska	5	r2	r10	0.01	0.03	-	Kindler et al. (2013)
ZFMK 92205	Montenegro: Skutari-Lake: Limjani	5	r4	r18	0.07	-	-	Kindler et al. (2013)
ZFMK 92206	Montenegro: Skutari-Lake: Limjani	5	r2	r13	0.01	0.07	-	Kindler et al. (2013)
MTD T 9908	Montenegro: Spuz	5	r2	r12	0.02	0.03	-	Kindler et al. (2013)
MTD T 13957	Netherlands: Amstelveen	E	h1	-	1.00	-	-	This study
MTD T 13958	Netherlands: Amstelveen	E	h1	-	1.00	-	-	This study
MTD T 13959	Netherlands: Amstelveen	E	h1	h1	1.00	-	-	This study
MTD T 12131	Netherlands: Amsterdam: IJ	E	h1	-	1.00	-	-	This study
MTD T 12132	Netherlands: Amsterdam: IJ	E	h1	-	1.00	-	-	This study
MTD T 13960	Netherlands: Boschoord	E	h1	h1	1.00	-	-	This study
MTD T 13970	Netherlands: Boschoord	E	h1	h1	0.97	-	-	This study
MTD T 13971	Netherlands: Boschoord	E	h1	h1	1.00	-	-	This study
MTD T 13954	Netherlands: Durgelam V.E.	E	h1	h29	1.00	-	-	This study
MTD T 13955	Netherlands: Durgelam V.E.	E	h1	h29	1.00	-	-	This study
MTD T 13956	Netherlands: Durgelam V.E.	E	h1	h29	1.00	-	-	This study
MTD T 12129	Netherlands: Flevoland: Kuinderbos	E	h1	-	1.00	-	-	This study
MTD T 12133	Netherlands: Flevoland: Kuinderbos	E	h1	-	0.98	-	-	This study
MTD T 13960	Netherlands: Heersum	E	h1	h1	1.00	-	-	This study
MTD T 13961	Netherlands: Heersum	E	h1	h1	1.00	-	-	This study
MTD T 13962	Netherlands: Heersum	E	h1	h1	1.00	-	-	This study
MTD T 13942	Netherlands: Hooten	E	h1	-	-	-	-	This study
MTD T 13943	Netherlands: Hooten	E	h1	h29	1.00	-	-	This study
MTD T 13944	Netherlands: Hooten	E	h1	h29	0.99	-	-	This study
MTD T 13939	Netherlands: Leersum	E	h1	h1	1.00	-	-	This study
MTD T 13940	Netherlands: Leersum	E	h1	-	-	-	-	This study
MTD T 13941	Netherlands: Leersum	E	h1	h29	1.00	-	-	This study
MTD T 13966	Netherlands: Oldeberkoop	E	h1	h1	1.00	-	-	This study
MTD T 13967	Netherlands: Oldeberkoop	E	h1	h1	1.00	-	-	This study
MTD T 13968	Netherlands: Oldeberkoop	E	h1	h1	1.00	-	-	This study
MTD T 13945	Netherlands: Oostvaardersplassen	E	h1	h1	1.00	-	-	This study
MTD T 13946	Netherlands: Oostvaardersplassen	E	h1	h1	0.96	-	-	This study
MTD T 13947	Netherlands: Oostvaardersplassen	E	h1	h1	0.98	-	-	This study
MTD T 13963	Netherlands: Rimbarg	E	h1	h1	1.00	-	-	This study
MTD T 13964	Netherlands: Rimbarg	E	h1	h1	0.99	-	-	This study
MTD T 13965	Netherlands: Rimbarg	E	h1	h1	0.99	-	-	This study
MTD T 13951	Netherlands: Velp: Beekhuizen	E	h1	h1	1.00	-	-	This study
MTD T 13952	Netherlands: Velp: Beekhuizen	E	h1	h1	1.00	-	-	This study
MTD T 13953	Netherlands: Velp: Beekhuizen	E	h1	h1	1.00	-	-	This study
MTD T 13948	Netherlands: Wageningen	E	h1	h25	1.00	-	-	This study
MTD T 13949	Netherlands: Wageningen	E	h1	h1	1.00	-	-	This study
MTD T 13950	Netherlands: Wageningen	E	h1	h1	1.00	-	-	This study
MTD T 11508	Norway: Akershus: Ski	3	y1	y1	0.03	0.98	0.94	Kindler et al. (2014)
MTD T 11509	Norway: Akershus: Ski	3	y1	y1	0.01	0.90	-	Kindler et al. (2014)
ZMUO 54-96	Norway: Akershus: Son	3	y1	y17	0.01	0.95	0.95	Kindler et al. (2013)
MTD T 11507	Norway: Audebu: Ibestadommet	3	y1	y5	0.04	0.95	0.83	Kindler et al. (2014)
MTD T 11566	Norway: Holmestrand: Hallingsrud	3	y1	y17	0.01	0.99	0.94	Kindler et al. (2014)
ZMUO 31-83	Norway: Oslo: Grotmo: Solvoldu	3	y1	y17	0.00	0.99	0.95	Kindler et al. (2013)
ZMUO 26-85	Norway: Oslo: Maridalen: Skjervevenga	3	y1	y17	0.02	0.99	0.95	Kindler et al. (2013)
MTD T 11571	Norway: Ostfold: Moss	3	y1	y1	0.01	0.98	0.93	Kindler et al. (2014)
MTD T 11570	Norway: southern Oslo	3	y1	y17	0.06	-	-	Kindler et al. (2014)
ZMUO III 10/2000	Norway: Telemark: Levanngshavva	3	y1	y17	-	-	-	Kindler et al. (2013)
MTD T 11966	Poland: Lublin: Kotyn	8	gn5	-	0.00	0.03	-	This study
MTD T 12793	Poland: Malopolska: Ksiqz Wielki	4	r3	r3	0.00	0.60	-	This study
MTD T 12830	Poland: Malopolska: Ksiqz Wielki	4	r3	r3	0.00	0.88	-	This study
MTD T 12831	Poland: Malopolska: Ksiqz Wielki	4	r3	r3	0.00	0.84	-	This study
MTD T 10318	Poland: Mazovia: Kampinos National Park	4	r3	r26	0.00	0.58	-	Kindler et al. (2013)
MTD T 9965	Poland: Mazovia: Kampinos National Park	4	r3	-	0.00	0.37	-	Kindler et al. (2013)
MTD T 9966	Poland: Mazovia: Kampinos National Park	4	r3	-	0.00	0.67	-	Kindler et al. (2013)
MTD T 9968	Poland: Mazovia: Kampinos National Park	4	r3	r3	0.00	0.87	-	Kindler et al. (2013)
MTD T 9969	Poland: Mazovia: Kampinos National Park	4	r3	r26	0.00	0.90	-	Kindler et al. (2013)
MTD T 9972	Poland: Mazovia: Kampinos National Park	4	r3	r3	0.02	0.56	-	Kindler et al. (2013)
MTD T 9974	Poland: Mazovia: Kampinos National Park	4	r3	-	0.00	0.57	-	Kindler et al. (2013)
BEV.7665	Poland: Podlachia: Bialowieza National Park	8	gn4	gn1	0.00	0.05	-	This study
MTD T 10314	Poland: Podlachia: Bialowieza National Park	8	gn1	gn1	0.00	0.44	-	Kindler et al. (2013)
MTD T 10315	Poland: Podlachia: Bialowieza National Park	8	gn1	gn2	0.00	0.28	-	Kindler et al. (2013)
MTD T 10316	Poland: Podlachia: Bialowieza National Park	8	gn1	gn1	0.01	0.08	-	Kindler et al. (2013)
MTD T 9975	Poland: Podlachia: Bialowieza National Park	8	gn1	-	0.00	0.12	-	Kindler et al. (2013)
MTD T 9976	Poland: Podlachia: Bialowieza National Park	8	gn1	gn1	0.00	0.20	-	Kindler et al. (2013)
MTD T 9977	Poland: Podlachia: Bialowieza National Park	8	gn1	gn1	0.00	0.41	-	Kindler et al. (2013)
MTD T 9637	Poland: Upper Silesia: Golezowice	4	r2	r10	0.00	0.95	0.18	Kindler et al. (2013)
MTD T 10025	Poland: Upper Silesia: Kotficz Wielki	4	r3	r10	0.00	0.95	0.19	Kindler et al. (2013)
MTD T 10026	Poland: Upper Silesia: Kotficz Wielki	3	y1	-	0.00	0.97	0.26	Kindler et al. (2013)
MTD T 9635	Poland: Upper Silesia: Krotnica	4	r4	r34	0.00	0.99	0.38	Kindler et al. (2013)
MTD T 9638	Poland: Upper Silesia: Ligota Talowicka	4	r2	r10	0.00	0.90	-	Kindler et al. (2013)
MTD T 9636	Poland: Upper Silesia: SE Opole	4	r4	r34	0.00	0.90	-	Kindler et al. (2013)
MTD T 11485	Poland: Uesdon	3	y1	y17	0.00	0.99	0.91	Kindler et al. (2014)
MTD T 11486	Poland: Uesdon	3	y1	y23	0.00	0.97	0.73	Kindler et al. (2014)
MTD T 8640	Romania: Cerna Sat	4	r6	-	0.00	0.98	0.06	Kindler et al. (2013)
MTD T 9889	Romania: Chilia Veche	4	r3	-	0.00	0.70	-	Kindler et al. (2013)
ZFMK 82775	Romania: Constanta: Histria	4	-	r3	0.01	0.50	-	Kindler et al. (2013)
MTD T 11604	Romania: Crivina	4	r5	r34	0.01	0.83	-	This study
MTD T 8650	Romania: Geogiu de Sus	4	r29	r3	0.01	0.80	-	Kindler et al. (2013)
MTD T 13542	Romania: Tarnovita	4	r3	r3	0.00	0.36	-	This study
ZFMK 91040	Russia: Bryansk	8	gn7	gn11	0.01	0.01	-	Kindler et al. (2013)
ZFMK 91041	Russia: Bryansk	8	gn1	gn1	0.00	0.01	-	Kindler et al. (2013)
MTD T 15445	Russia: Chertusk	8	gn1	gn1	0.02	0.05	-	This study
MTD T 11970	Russia: Dagestan: Machchakala	8	gn10	-	0.01	0.01	-	This study
MTD T 11971	Russia: Dagestan: Machchakala	8	gn1	-	0.00	0.04	-	This study
ZFMK 65492	Russia: Dagestan: Machchakala	8	gn4	gn20	0.00	0.02	-	Kindler et al. (2013)
ZFMK 62396	Russia: Dagestan: Tataynt	8	gn1	gn9	0.01	0.01	-	Kindler et al. (2013)
ZFMK 60732	Russia: Krasnodar: Odalymyzy	8	gn1	gn3	0.00	0.05	-	Kindler et al. (2013)
ZFMK 58029	Russia: Krasnodar: Tupsee	8	gn1	gn21	0.02	0.03	-	Kindler et al. (2013)
ZFMK 70614	Russia: Tula: Chopr River	8	gn1	gn1	0.07	-	-	Kindler et al. (2013)

• Table S1 continued

Voucher	Locality	mtDNA data			Microsatellite data			Reference
		mtDNA clade	ND4 haplotype	cyt b haplotype	First STRUCTURE run	Second STRUCTURE run	Third STRUCTURE run	
ZFMK 72270	Russia: Tula: S Tula: Chopr River	3	r4	r97	0.00	0.01	-	Kindler et al. (2013)
MTD T 14456	Serbia: Belo Polje	4	r4	-	0.00	0.45	-	This study
MTD T 14455	Serbia: Belo Polje	4	r4	-	0.00	0.75	-	This study
MTD T 14457	Serbia: Džići	4	r4	r34	0.02	0.58	-	This study
MTD T 12999	Serbia: Donji Dubnik	4	r4	r54	0.05	0.56	-	This study
MTD T 12984	Serbia: Prohor	3	r15	r10	0.01	0.40	-	This study
MTD T 8975	Slovakia: between Topofa and Ranina	4	r3	-	0.00	0.93	-	Kindler et al. (2013)
MTD T 12960	Slovakia: Bodky	4	r4	r96	0.00	0.97	0.07	This study
MTD T 12961	Slovakia: Bodky	4	r3	r19	0.00	0.95	0.19	This study
MTD T 12962	Slovakia: Bodky	4	r3	r10	0.00	0.97	0.06	This study
MTD T 12963	Slovakia: Bodky	4	r3	r10	0.00	0.90	-	This study
MTD T 12966	Slovakia: Bratislava - Džuráň	4	r3	r34	0.00	0.99	0.19	This study
MTD T 12998	Slovakia: Bratislava - Džuráň	4	r4	r34	0.01	0.97	0.10	This study
MTD T 12964	Slovakia: Bratislava - Karlova Ves	4	r4	r34	0.00	0.95	0.08	This study
MTD T 12967	Slovakia: Bratislava - Karlova Ves	4	r3	r36	0.00	0.95	0.14	This study
MTD T 14764	Slovakia: Bratislava - Petržalka	4	r3	r10	0.00	0.99	0.08	This study
MTD T 14765	Slovakia: Bratislava - Petržalka	4	r3	r10	0.00	0.97	0.07	This study
MTD T 14766	Slovakia: Bratislava - Petržalka	4	r3	r19	0.00	0.98	0.14	This study
MTD T 14767	Slovakia: Bratislava - Petržalka	4	r3	r10	0.00	0.68	-	This study
MTD T 19938	Slovakia: Bratislava - Devínska Kobyla	4	r3	r10	0.00	0.98	0.06	This study
MTD T 12944	Slovakia: Bratislava - Železná Studnička	4	r3	r10	0.00	0.85	-	This study
MTD T 12945	Slovakia: Bratislava - Železná Studnička	4	r3	r16	0.00	0.96	0.35	This study
MTD T 12946	Slovakia: Bratislava - Železná Studnička	4	r3	r10	0.00	0.89	-	This study
MTD T 12948	Slovakia: Bratislava - Železná Studnička	4	r3	r53	0.00	0.95	0.09	This study
MTD T 12949	Slovakia: Bratislava - Železná Studnička	4	r3	r39	0.00	0.97	0.08	This study
MTD T 12970	Slovakia: Bratislava - Železná Studnička	4	r3	r57	0.00	0.98	0.05	This study
MTD T 9017	Slovakia: Bajakov	4	r3	r2	0.00	0.96	0.10	Kindler et al. (2013)
MTD T 8648	Slovakia: Červený Kláštor	4	r3	r3	0.00	0.84	-	Kindler et al. (2013)
MTD T 14452	Slovakia: Čižinské Piesky	4	r6	r64	0.00	0.97	0.36	This study
MTD T 14450	Slovakia: Čunovo	4	r4	r34	0.00	0.98	0.41	This study
MTD T 9014	Slovakia: Devín	4	r3	r10	0.00	0.95	0.08	Kindler et al. (2013)
MTD T 14760	Slovakia: Devínské Jazero	4	r3	r3	0.00	0.74	-	This study
MTD T 14761	Slovakia: Devínské Jazero	4	r3	r19	0.00	0.97	0.08	This study
MTD T 12996	Slovakia: Dunajská Lužná	4	r3	r10	0.00	0.85	-	This study
MTD T 12997	Slovakia: Dunajská Lužná	4	r4	r37	0.00	0.93	-	This study
MTD T 14763	Slovakia: Gbelec: Parížské močiare	4	r4	r34	0.00	0.78	-	This study
MTD T 14448	Slovakia: Itragov	4	r30	r3	0.00	0.85	-	This study
MTD T 8641	Slovakia: Janova Lehota	4	r3	r29	0.00	0.98	0.12	Kindler et al. (2013)
MTD T 9011	Slovakia: Jurský Šúr	4	r4	r33	0.00	0.98	0.05	Kindler et al. (2013)
MTD T 14754	Slovakia: Kalinovo - Hrušovská zdŕž	4	r3	r10	0.00	0.99	0.27	This study
MTD T 8635	Slovakia: Kamienica nad Hronom	4	r6	-	-	-	-	Kindler et al. (2013)
MTD T 12983	Slovakia: Kosovin	4	r4	r46	0.00	0.95	0.10	This study
MTD T 8632	Slovakia: Kraľovany: Kraľovanská dolina	3	r1	r14	0.00	0.85	-	Kindler et al. (2013)
MTD T 14772	Slovakia: Kysak: Hornád river	4	r3	r5	0.00	0.99	0.28	This study
MTD T 14776	Slovakia: Lipovský Hradok: Bela river	4	r1	r10	0.00	0.95	0.69	This study
MTD T 14762	Slovakia: Matia: Žuvavský ľah	4	r4	r34	0.00	0.83	-	This study
MTD T 14773	Slovakia: Margecovy: Ražin Dam	4	r3	r3	0.00	0.87	-	This study
MTD T 12947	Slovakia: Marianka	4	r3	r10	0.01	0.97	0.40	This study
MTD T 12948	Slovakia: Marianka	4	r4	r56	0.00	0.97	0.12	This study
MTD T 12949	Slovakia: Marianka	4	r6	r64	0.00	0.95	0.13	This study
MTD T 12950	Slovakia: Marianka	4	r4	r34	0.00	0.94	-	This study
MTD T 12951	Slovakia: Marianka	4	r4	r34	0.00	0.99	0.13	This study
MTD T 12952	Slovakia: Marianka	4	r3	r10	0.00	0.76	-	This study
MTD T 12953	Slovakia: Marianka	4	r3	r10	0.00	0.89	-	This study
MTD T 12954	Slovakia: Marianka	4	r4	r56	0.00	0.99	0.23	This study
MTD T 12955	Slovakia: Marianka	4	r3	r10	0.00	0.90	-	This study
MTD T 12956	Slovakia: Marianka	4	r4	r53	0.00	0.93	-	This study
MTD T 12957	Slovakia: Marianka	4	r4	r34	0.00	0.94	-	This study
MTD T 12958	Slovakia: Marianka	4	r4	r48	0.00	0.76	-	This study
MTD T 12959	Slovakia: Marianka	4	r4	r34	0.00	0.96	0.03	This study
MTD T 14774	Slovakia: Michalovec: Štravský kanál	4	r3	r2	0.00	0.92	-	This study
MTD T 9019	Slovakia: Mriánska Lehota	4	r31	r26	0.00	0.79	-	Kindler et al. (2013)
MTD T 12943	Slovakia: near Marcelová	4	r4	r34	-	-	-	This study
MTD T 9018	Slovakia: Regretovka	4	r3	r7	0.00	0.98	0.59	Kindler et al. (2013)
MTD T 14449	Slovakia: Rosovec	4	r23	-	0.00	0.98	0.05	This study
MTD T 9016	Slovakia: Rosovec	4	r4	r34	0.00	0.96	0.17	Kindler et al. (2013)
MTD T 11594	Slovakia: Ružomberok	3	r1	r14	0.00	0.93	-	This study
MTD T 9009	Slovakia: Sĺlica: Parožová jama	4	r4	-	0.00	0.99	0.37	Kindler et al. (2013)
MTD T 8637	Slovakia: Sĺžnice	4	r3	r3	0.00	0.84	-	Kindler et al. (2013)
MTD T 9020	Slovakia: Stupava	4	r6	r64	0.00	0.98	0.07	Kindler et al. (2013)
MTD T 10937	Slovakia: Svätý Jur	4	r4	r56	0.00	0.95	0.14	This study
MTD T 12971	Slovakia: Svätý Jur	4	r3	r34	0.00	0.88	-	This study
MTD T 12972	Slovakia: Svätý Jur	4	r3	r3	0.00	0.98	0.10	This study
MTD T 12973	Slovakia: Svätý Jur	4	r4	r57	0.00	0.90	-	This study
MTD T 12974	Slovakia: Svätý Jur	4	r3	r3	0.00	0.97	0.14	This study
MTD T 12975	Slovakia: Svätý Jur	4	r4	r56	0.00	0.89	-	This study
MTD T 12976	Slovakia: Svätý Jur	4	r4	r34	0.00	0.74	-	This study
MTD T 12977	Slovakia: Svätý Jur	4	r15	r34	0.00	0.95	0.12	This study
MTD T 12978	Slovakia: Svätý Jur	4	r4	r66	0.00	0.87	-	This study
MTD T 12979	Slovakia: Svätý Jur	4	r4	r50	0.00	0.89	-	This study
MTD T 12980	Slovakia: Svätý Jur	4	r6	r56	0.00	0.85	-	This study
MTD T 12981	Slovakia: Svätý Jur	4	r3	r10	0.00	0.96	0.08	This study
MTD T 12982	Slovakia: Svätý Jur	4	r4	r34	0.01	0.96	0.51	This study
MTD T 8638	Slovakia: Svetlice	4	r3	-	0.00	0.92	-	Kindler et al. (2013)
MTD T 9015	Slovakia: Tatra Mountains: Žiar	3	r1	r14	0.00	0.76	-	Kindler et al. (2013)
MTD T 9022	Slovakia: Ulč	4	r3	r33	0.00	0.98	0.38	Kindler et al. (2013)
MTD T 14768	Slovakia: Veľké Levčre	4	r32	r3	0.00	0.71	-	This study
MTD T 9010	Slovakia: Weitov lom	4	r3	r10	0.00	0.95	0.08	Kindler et al. (2013)
MTD T 10899	Slovenia: Bela krajina: Zjot	4	r21	r42	-	-	-	This study
MTD T 12729	Slovenia: Bilje: Vipava river	4	r4	r34	0.02	0.03	-	This study
MTD T 11526	Slovenia: Bled	4	r4	r34	0.00	0.44	-	This study
MTD T 11540	Slovenia: Borjana	4	r4	r34	0.01	0.10	-	This study
MTD T 11116	Slovenia: Borovnica	4	r4	r47	0.00	0.38	-	This study
MTD T 11209	Slovenia: Borovnica	4	r4	r34	0.00	0.55	-	This study
MTD T 12783	Slovenia: Celje: Voglajna river	4	r4	r34	0.00	0.35	-	This study
MTD T 11536	Slovenia: Cerkljica Lake	4	r4	r38	0.02	0.30	-	This study
MTD T 11536	Slovenia: Cerkljica Lake	4	r4	r38	0.01	0.04	-	This study
MTD T 11537	Slovenia: Cerkljica Lake	4	r4	r38	0.01	0.09	-	This study
MTD T 11529	Slovenia: Cerkljica Lake	4	r4	-	-	-	-	This study
MTD T 11538	Slovenia: Cerkljica Lake	4	r4	r34	0.00	0.24	-	This study
MTD T 11541	Slovenia: Dragonje	4	r4	r34	0.03	0.02	-	This study
MTD T 10887	Slovenia: Koper: Škočjanski zatok	4	r4	r34	-	-	-	This study
MTD T 10888	Slovenia: Koper: Škočjanski zatok	4	r17	r60	0.00	0.16	-	This study
MTD T 10889	Slovenia: Koper: Škočjanski zatok	4	r17	r60	0.01	0.03	-	This study
MTD T 10890	Slovenia: Koper: Škočjanski zatok	4	r17	r60	0.01	0.02	-	This study
MTD T 10891	Slovenia: Koper: Škočjanski zatok	4	r17	r60	0.00	0.14	-	This study
MTD T 10892	Slovenia: Koper: Škočjanski zatok	4	r4	r34	0.10	-	-	This study
ZFMK 65382	Slovenia: Ljubljana	4	r4	r34	0.00	0.83	-	Kindler et al. (2013)
MTD T 14346	Slovenia: Ljubljana moor: Čurnovec	4	r4	r34	0.00	0.39	-	This study
MTD T 14349	Slovenia: Ljubljana moor: Deponija Vic	4	r4	r34	0.03	0.52	-	This study
MTD T 10885	Slovenia: Ljubljana moor: Draga pri Igju	4	r4	r34	0.04	0.48	-	This study
MTD T 10886	Slovenia: Ljubljana moor: Draga pri Igju	4	r4	r34	0.00	0.10	-	This study
MTD T 14347	Slovenia: Ljubljana moor: Draga pri Igju	4	r4	r34	0.00	0.13	-	This study
MTD T 14348	Slovenia: Ljubljana moor: Draga pri Igju	4	r4	r34	0.00	0.06	-	This study
MTD T 11533	Slovenia: Ljubljana: Večna pot	4	r16	r55	-	-	-	This study
MTD T 11215	Slovenia: Ljubljansko barje	4	r4	r34	0.00	0.04	-	This study
MTD T 11534	Slovenia: Ljubljansko barje: Bištra	4	r4	r34	0.00	0.02	-	This study
MTD T 10900	Slovenia: Ljubljansko barje: Log pri Brezovici	4	r4	r34	0.00	0.12	-	This study
MTD T 10901	Slovenia: Ljubljansko barje: Palo	4	r4	r34	0.01	0.24	-	This study
MTD T 10901	Slovenia: Ljubljansko barje: Palo	4	r4	r34	0.00	0.12	-	This study
MTD T 10902	Slovenia: Ljubljansko barje: Palo	4	r4	r34	0.00	0.39	-	This study
MTD T 10893	Slovenia: Lukavec near Ljatorcer	4	r4	r56	0.00	0.89	-	This study
MTD T 10894	Slovenia: Lukavec near Ljatorcer	4	r4	r41	0.00	0.88	-	This study
MTD T 12784	Slovenia: Lukavec near Ljatorcer	4	r4	r63	0.00	0.54	-	This study

• Table S1 continued

Voucher	Locality	mtDNA data			Microsatellite data			Reference
		mtDNA clade	ND4 haplotype	cyt b haplotype	First STRUCTURE run	Second STRUCTURE run	Third STRUCTURE run	
MTD T 10895	Slovenia: Lukavec near Ljutomer	4	r13	r24	0.00	0.29	-	This study
MTD T 11113	Slovenia: Mele	4	r4	r34	0.00	0.30	-	This study
MTD T 11114	Slovenia: Marški Petrovci	4	r25	r34	0.03	0.65	-	This study
MTD T 11527	Slovenia: near Maribor: Cigonica Forest	4	r8	r33	0.00	0.80	-	This study
MTD T 11530	Slovenia: near Maribor: Racki Ribnik	4	r4	r34	0.01	0.34	-	This study
MTD T 12088	Slovenia: Podlipa	4	r4	r34	0.05	0.04	-	This study
MTD T 11531	Slovenia: Pragersko	4	r4	r41	0.00	0.06	-	This study
MTD T 12178	Slovenia: Senjuri	4	r4	r46	0.00	0.71	-	This study
MTD T 11528	Slovenia: Slovenia: Divača	4	r4	r49	0.00	0.16	-	This study
MTD T 11115	Slovenia: Tišina	4	r4	r51	0.00	0.78	-	This study
MTD T 11210	Slovenia: Zadlje	4	r17	r64	0.06	-	-	This study
ZMH R09956	Sweden: Blekinge: Ågerum	3	y1	y20	0.00	0.99	0.93	This study
ZFMK 36114	Sweden: Gotland	3	y1	y5	-	-	-	Kindler et al. (2013)
ZFMK 38356	Sweden: Gotland	4	r3	r10	-	-	-	Kindler et al. (2013)
BEV.6418	Sweden: Gotland: near Burgsvik	8	gn1	gn1	0.00	0.99	-	This study
MTD T 10921	Sweden: Närke: Klockhammar	3	y1	y5	0.01	0.99	0.88	Kindler et al. (2014)
ZMH R09209	Sweden: Öland: between Stenas and Resmo: Mockelmossen	3	y1	y20	0.00	0.99	0.94	This study
MTD T 10920	Sweden: Öland: Halltorps Hage	3	y36	y17	0.05	0.99	0.95	Kindler et al. (2014)
MTD T 10921	Sweden: Öland: Halltorps Hage	3	y1	y5	0.01	0.99	0.93	Kindler et al. (2014)
MTD T 10922	Sweden: Öland: Halltorps Hage	3	y1	y5	0.01	0.99	0.92	Kindler et al. (2014)
ZMH R09624	Sweden: Skåne: Maglehem	3	y20	-	-	-	-	This study
ZMH R09626	Sweden: Skåne: Otteröd	3	y1	-	-	-	-	This study
MTD T 10919	Sweden: Småland: Kalkmäla	3	y25	y28	0.00	0.99	0.95	Kindler et al. (2014)
MTD T 11580	Sweden: Södermanland: near Boo	3	y1	y5	0.01	0.99	0.93	Kindler et al. (2014)
MTD T 11579	Sweden: Södermanland: near Nyköping	3	y1	y17	0.01	0.99	0.95	Kindler et al. (2014)
MTD T 11581	Sweden: Södermanland: near Nyköping	3	y1	y17	0.00	0.99	0.94	Kindler et al. (2014)
BEV.6417	Sweden: Uppland: Focemark	3	y1	y25	-	-	-	This study
BEV.6419	Sweden: Uppland: near Uppsala: Östervåla	3	y4	y25	0.00	0.99	0.85	This study
BEV.6420	Sweden: Uppland: near Uppsala: Östervåla	3	y6	y28	-	-	-	This study
MTD T 14859	Sweden: Västergötland: Rånävig	3	y1	y17	0.02	0.99	0.96	This study
MTD T 14860	Sweden: Västergötland: Vegby	3	y1	y1	0.01	0.99	0.96	This study
ROH01	Switzerland: Aargau: Aarau: Rohr	E	h1	h19	1.00	-	-	This study
ROH02	Switzerland: Aargau: Aarau: Rohr	E	h9	h23	1.00	-	-	This study
ROH04	Switzerland: Aargau: Aarau: Rohr	E	h1	h19	1.00	-	-	This study
BAD01	Switzerland: Aargau: Bad Zurzach	3	y1	y1	0.16	-	-	This study
BAD02	Switzerland: Aargau: Bad Zurzach	3	y1	y1	0.05	0.98	0.09	This study
BAD03	Switzerland: Aargau: Bad Zurzach	3	y1	y1	0.02	0.98	0.21	This study
BAD04	Switzerland: Aargau: Bad Zurzach	3	y1	y1	0.30	-	-	This study
BAD05	Switzerland: Aargau: Bad Zurzach	3	y1	y1	0.01	0.99	0.11	This study
BAD06	Switzerland: Aargau: Bad Zurzach	3	y1	y1	0.22	-	-	This study
BAD07	Switzerland: Aargau: Bad Zurzach	3	y1	y1	0.18	-	-	This study
BAD08	Switzerland: Aargau: Bad Zurzach	3	y1	y1	0.35	-	-	This study
BAD09	Switzerland: Aargau: Bad Zurzach	3	y1	y1	0.19	-	-	This study
BAD10	Switzerland: Aargau: Bad Zurzach	3	y1	y1	0.29	-	-	This study
KCN001	Switzerland: Aargau: Birmeslen	E	h1	h1	1.00	-	-	This study
KCN02	Switzerland: Aargau: Birmeslen	E	h1	h1	1.00	-	-	This study
BRU01	Switzerland: Aargau: Brugg	E	h1	h30	1.00	-	-	This study
BRU02	Switzerland: Aargau: Brugg	E	h9	h23	1.00	-	-	This study
BRU03	Switzerland: Aargau: Brugg	E	h1	h1	1.00	-	-	This study
AGG001	Switzerland: Aargau: Eiken	E	h9	h23	0.79	-	-	This study
AGG002	Switzerland: Aargau: Eiken	E	h9	h23	0.67	-	-	This study
AGG003	Switzerland: Aargau: Eiken	E	h9	h23	0.90	-	-	This study
GIP01	Switzerland: Aargau: Gippingen	E	h1	h1	0.98	-	-	This study
GIP02	Switzerland: Aargau: Gippingen	E	h9	h23	0.86	-	-	This study
GIP03	Switzerland: Aargau: Gippingen	E	h9	h23	1.00	-	-	This study
GIP04	Switzerland: Aargau: Gippingen	E	h9	h23	1.00	-	-	This study
GIP05	Switzerland: Aargau: Gippingen	E	h1	h1	1.00	-	-	This study
KL01	Switzerland: Aargau: Klingnau	E	h1	h19	1.00	-	-	This study
MUE06	Switzerland: Aargau: Merenschwand	unknown	-	-	1.00	-	-	This study
RIM01	Switzerland: Aargau: Rietheim	3	y37	y1	0.15	-	-	This study
ROT01	Switzerland: Aargau: Rottenschwil	E	h1	h10	1.00	-	-	This study
REG02	Switzerland: Basel-Landschaft: Binningen	E	h1	h11	0.98	-	-	This study
MBL14	Switzerland: Basel-Landschaft: Liestal	E	h1	h11	1.00	-	-	This study
REG01	Switzerland: Basel-Landschaft: Prätelen	E	h1	h1	1.00	-	-	This study
BBE01	Switzerland: Bern: Airport Bern	E	h1	h1	1.00	-	-	This study
BBE02	Switzerland: Bern: Airport Bern	E	h1	h18	1.00	-	-	This study
BBE03	Switzerland: Bern: Airport Bern	E	h1	h1	1.00	-	-	This study
BBE04	Switzerland: Bern: Airport Bern	E	h1	h23	0.99	-	-	This study
BBE05	Switzerland: Bern: Airport Bern	E	h1	h23	1.00	-	-	This study
BBE06	Switzerland: Bern: Airport Bern	E	h1	h1	1.00	-	-	This study
MBE10	Switzerland: Bern: Airport Bern	E	h1	h1	1.00	-	-	This study
MBE11	Switzerland: Bern: Mühlebühl	E	h1	h2	1.00	-	-	This study
MTD T 10083	Switzerland: Bern: near Bern	E	h1	h1	0.99	-	-	Kindler et al. (2013)
MTD T 10085	Switzerland: Bern: near Meiringen: Gudmundtal	E	-	h1	1.00	-	-	Kindler et al. (2013)
MTD T 10086	Switzerland: Bern: near Meiringen: Gudmundtal	E	h3	-	1.00	-	-	Kindler et al. (2013)
MBE09	Switzerland: Bern: Satz-Lättigen	E	h1	h23	1.00	-	-	This study
MTD T 10084	Switzerland: Fribourg: between Neuchâtel, Bern and Biel: Grosses Moos	E	h1	-	0.99	-	-	Kindler et al. (2013)
MTD T 10085	Switzerland: Fribourg: between Neuchâtel, Bern and Biel: Grosses Moos	E	h1	-	1.00	-	-	Kindler et al. (2013)
CHU01	Switzerland: Graubünden: Chur	E	h1	h9	1.00	-	-	This study
BGR01	Switzerland: Graubünden: Filisur	E	h1	h9	1.00	-	-	This study
FLA01	Switzerland: Graubünden: Flüsch	E	h1	h9	1.00	-	-	This study
FLA02	Switzerland: Graubünden: Flüsch	E	h1	h9	0.99	-	-	This study
FLA03	Switzerland: Graubünden: Flüsch	E	h1	h9	1.00	-	-	This study
LAA01	Switzerland: Graubünden: Laax	E	h1	h9	1.00	-	-	This study
LAA02	Switzerland: Graubünden: Laax	E	h1	h9	0.99	-	-	This study
JUR01	Switzerland: Jura: Beurnevésin	unknown	-	-	1.00	-	-	This study
JUR02	Switzerland: Jura: Beurnevésin	unknown	-	-	1.00	-	-	This study
SHO01	Switzerland: Schaffhausen: Hallau	3	y1	y1	0.24	-	-	This study
SHO02	Switzerland: Schaffhausen: Hallau	3	y1	y1	0.22	-	-	This study
SHO03	Switzerland: Schaffhausen: Hallau	3	y1	y1	0.22	-	-	This study
SAR01	Switzerland: Schaffhausen: Hemhofen	3	y1	y1	0.04	0.99	0.52	This study
SAR02	Switzerland: Schaffhausen: Hemhofen	3	y37	y1	0.13	-	-	This study
SAR03	Switzerland: Schaffhausen: Hemhofen	3	y1	y1	0.03	0.98	0.11	This study
SHI01	Switzerland: Schaffhausen: Herblingen	3	y1	y1	0.07	-	-	This study
SHI02	Switzerland: Schaffhausen: Herblingen	3	y1	y12	0.12	-	-	This study
SHI03	Switzerland: Schaffhausen: Herblingen	3	y1	y1	0.08	-	-	This study
MTD D 30567	Switzerland: St. Gallen: Altschönen	3	y1	HF679958	0.07	-	-	Kindler et al. (2013)
ALT01	Switzerland: St. Gallen: Altschönen	E	h1	h9	0.97	-	-	This study
ALT02	Switzerland: St. Gallen: Altschönen	E	h1	h1	0.97	-	-	This study
ALT03	Switzerland: St. Gallen: Altschönen	E	h1	h1	0.80	-	-	This study
ALT04	Switzerland: St. Gallen: Altschönen	E	h1	h1	0.99	-	-	This study
ALT05	Switzerland: St. Gallen: Altschönen	E	h1	h9	0.79	-	-	This study
BAL01	Switzerland: St. Gallen: Balgach	E	h1	h9	0.56	-	-	This study
BAL02	Switzerland: St. Gallen: Balgach	E	h1	h9	0.96	-	-	This study
BAL03	Switzerland: St. Gallen: Balgach	3	y40	y1	0.66	-	-	This study
BAL04	Switzerland: St. Gallen: Balgach	E	h1	h9	0.98	-	-	This study
BAL05	Switzerland: St. Gallen: Balgach	unknown	-	-	0.71	-	-	This study
BCZ01	Switzerland: St. Gallen: Berneck	unknown	-	-	0.37	-	-	This study
BCZ02	Switzerland: St. Gallen: Berneck	3	y1	-	0.25	-	-	This study
BCZ03	Switzerland: St. Gallen: Berneck	3	y1	y1	0.27	-	-	This study
BCZ04	Switzerland: St. Gallen: Berneck	E	h1	h16	1.00	-	-	This study
BCZ05	Switzerland: St. Gallen: Berneck	E	h1	h22	0.99	-	-	This study
BCZ06	Switzerland: St. Gallen: Berneck	E	h1	h22	1.00	-	-	This study
BCZ07	Switzerland: St. Gallen: Berneck	E	h1	h10	1.00	-	-	This study
BCZ08	Switzerland: St. Gallen: Berneck	E	h1	h1	0.94	-	-	This study
BCZ09	Switzerland: St. Gallen: Berneck	E	h1	h1	1.00	-	-	This study
BCZ10	Switzerland: St. Gallen: Berneck	E	h1	h1	0.99	-	-	This study
BCZ11	Switzerland: St. Gallen: Berneck	E	h1	h1	0.99	-	-	This study
DEP01	Switzerland: St. Gallen: Diepoldau	3	y40	y1	0.64	-	-	This study
DEP02	Switzerland: St. Gallen: Diepoldau	3	y40	y1	0.66	-	-	This study
DEP03	Switzerland: St. Gallen: Diepoldau	3	y1	y1	0.93	-	-	This study
DEP04	Switzerland: St. Gallen: Diepoldau	unknown	-	-	0.61	-	-	This study
MTD T 10088	Switzerland: St. Gallen: Lake Constance: near Thal	3	y1	-	0.25	-	-	Kindler et al. (2013)
ÖBE01	Switzerland: St. Gallen: Oberuzwil	3	y1	y1	0.05	0.98	0.62	This study

• Table S1 continued

Voucher	Locality	mtDNA data			Microsatellite data			Reference
		mtDNA clade	ND4 haplotype	cyt b haplotype	First STRUCTURE run	Second STRUCTURE run	Third STRUCTURE run	
OREB2	Switzerland: St. Gallen: Oberuzwil	E	y1	y1	0.07	-	-	This study
OREB3	Switzerland: St. Gallen: Oberuzwil	3	y42	y36	0.08	-	-	This study
OREB4	Switzerland: St. Gallen: Oberuzwil	3	y42	y36	0.05	0.98	0.04	This study
OREB5	Switzerland: St. Gallen: Oberuzwil	3	y1	y1	0.01	0.99	0.25	This study
OREB6	Switzerland: St. Gallen: Oberuzwil	3	y1	y1	0.01	0.99	0.24	This study
OREB7	Switzerland: St. Gallen: Oberuzwil	3	y42	y36	0.04	0.98	0.06	This study
QUB1	Switzerland: St. Gallen: Quinzen	E	h1	h12	1.00	-	-	This study
SMN01	Switzerland: St. Gallen: Schmerikon	E	h1	h13	1.00	-	-	This study
SMN02	Switzerland: St. Gallen: Schmerikon	E	h1	h13	0.99	-	-	This study
SMN03	Switzerland: St. Gallen: Schmerikon	E	h1	h3	0.91	-	-	This study
SEW01	Switzerland: St. Gallen: Senwald	E	h1	h9	1.00	-	-	This study
NEB01	Switzerland: St. Gallen: Thal	3	y40	y1	0.28	-	-	This study
NEB02	Switzerland: St. Gallen: Thal	E	h1	h9	0.24	-	-	This study
NEB03	Switzerland: St. Gallen: Thal	3	y1	y1	0.32	-	-	This study
NEB04	Switzerland: St. Gallen: Thal	3	y1	y1	0.27	-	-	This study
NEB05	Switzerland: St. Gallen: Thal	E	h1	h9	0.31	-	-	This study
THA01	Switzerland: St. Gallen: Thal	3	y1	y1	0.22	-	-	This study
THA02	Switzerland: St. Gallen: Thal	3	y40	y36	0.36	-	-	This study
THA03	Switzerland: St. Gallen: Thal	3	y1	y1	0.21	-	-	This study
WIL01	Switzerland: St. Gallen: Will	3	y1	y36	0.16	-	-	This study
AAD01	Switzerland: Thurgau: Aadorf	3	y37	y1	0.28	-	-	This study
AAD02	Switzerland: Thurgau: Aadorf	3	y37	y1	0.45	-	-	This study
AAD03	Switzerland: Thurgau: Aadorf	3	y37	y1	0.23	-	-	This study
JUV01	Switzerland: Thurgau: Alterswilen	3	y28	y1	0.01	0.99	0.12	This study
JUV02	Switzerland: Thurgau: Alterswilen	3	y29	y1	0.12	-	-	This study
JUV03	Switzerland: Thurgau: Alterswilen	3	y27	y1	0.11	-	-	This study
JUV04	Switzerland: Thurgau: Alterswilen	3	y1	y1	0.36	-	-	This study
JUV05	Switzerland: Thurgau: Alterswilen	3	y27	y1	0.11	-	-	This study
JUV06	Switzerland: Thurgau: Alterswilen	3	y27	y1	0.23	-	-	This study
NWN01	Switzerland: Thurgau: Alterswilen	3	y1	y1	0.19	-	-	This study
NWN02	Switzerland: Thurgau: Alterswilen	3	y1	y1	0.16	-	-	This study
BUR01	Switzerland: Thurgau: Bürglen	3	y1	y1	0.17	-	-	This study
BUR02	Switzerland: Thurgau: Bürglen	3	y1	y1	0.16	-	-	This study
FRA01	Switzerland: Thurgau: Frauenfeld	3	y1	y1	0.23	-	-	This study
FRA02	Switzerland: Thurgau: Frauenfeld	3	y37	y1	0.09	-	-	This study
KRE01	Switzerland: Thurgau: Kreuzlingen	3	y1	y1	0.09	-	-	This study
KRE02	Switzerland: Thurgau: Kreuzlingen	3	y1	y1	0.29	-	-	This study
KRE03	Switzerland: Thurgau: Kreuzlingen	3	y1	y1	0.19	-	-	This study
MUE01	Switzerland: Uri: Erstfeld	E	h1	h1	1.00	-	-	This study
GEN01	Switzerland: Vaud: Begnins	E	h1	h1	1.00	-	-	This study
MTD T 10079	Switzerland: Vaud: Vinzel	E	h1	-	1.00	-	-	Kindler et al. (2013)
DAT01	Switzerland: Zürich: Därwil	3	y37	y1	0.16	-	-	This study
DAT02	Switzerland: Zürich: Därwil	3	y37	y1	0.20	-	-	This study
DUB01	Switzerland: Zürich: Dübendorf	3	y1	y1	0.98	-	-	This study
DUB02	Switzerland: Zürich: Dübendorf	3	y1	y1	0.99	-	-	This study
DUB03	Switzerland: Zürich: Dübendorf	3	y1	y1	0.98	-	-	This study
DUB04	Switzerland: Zürich: Dübendorf	3	y1	y1	0.99	-	-	This study
FIS01	Switzerland: Zürich: Fischenthal	E	h1	h1	0.86	-	-	This study
FIS02	Switzerland: Zürich: Fischenthal	E	h1	h9	1.00	-	-	This study
FIS03	Switzerland: Zürich: Fischenthal	E	h1	h1	1.00	-	-	This study
FCH01	Switzerland: Zürich: Flaach	3	y37	y1	0.02	0.96	0.09	This study
FCH02	Switzerland: Zürich: Flaach	3	y1	y1	0.12	-	-	This study
FCH03	Switzerland: Zürich: Flaach	3	y37	y1	0.17	-	-	This study
FCH04	Switzerland: Zürich: Flaach	3	y1	y1	0.14	-	-	This study
FCH05	Switzerland: Zürich: Flaach	unknown	-	-	0.17	-	-	This study
FCH06	Switzerland: Zürich: Flaach	3	y1	y1	0.20	-	-	This study
GAT01	Switzerland: Zürich: Gattikon	E	h11	h23	0.98	-	-	This study
GAT02	Switzerland: Zürich: Gattikon	E	h1	h1	0.98	-	-	This study
PPA01	Switzerland: Zürich: Lake Pfäffikon	E	h1	h26	0.97	-	-	This study
MUE07	Switzerland: Zürich: Langnau am Albis	E	h1	h1	0.99	-	-	This study
MAR01	Switzerland: Zürich: Marthalen	3	y38	y42	0.08	-	-	This study
MAR02	Switzerland: Zürich: Marthalen	3	y1	y35	0.25	-	-	This study
MAR03	Switzerland: Zürich: Marthalen	3	y38	y42	0.04	0.97	0.09	This study
NEE01	Switzerland: Zürich: Neerach	3	y1	y1	0.31	-	-	This study
NEE02	Switzerland: Zürich: Neerach	3	y1	y1	0.16	-	-	This study
NEE03	Switzerland: Zürich: Neerach	3	y1	y1	0.23	-	-	This study
NEE04	Switzerland: Zürich: Neerach	3	y1	y32	0.05	0.99	0.13	This study
OBF01	Switzerland: Zürich: Obfelden	E	h1	h1	1.00	-	-	This study
OBF02	Switzerland: Zürich: Obfelden	E	h1	h10	1.00	-	-	This study
PFU01	Switzerland: Zürich: Pfungen	3	y33	y1	0.46	-	-	This study
PFU02	Switzerland: Zürich: Pfungen	3	y1	y1	0.31	-	-	This study
PFU03	Switzerland: Zürich: Pfungen	3	y1	y1	0.28	-	-	This study
STA01	Switzerland: Zürich: Stäfa	E	h1	h1	0.91	-	-	This study
STA02	Switzerland: Zürich: Stäfa	E	h1	h1	0.96	-	-	This study
STA03	Switzerland: Zürich: Stäfa	E	h1	h1	0.88	-	-	This study
STA04	Switzerland: Zürich: Stäfa	E	h1	h1	0.97	-	-	This study
MUE02	Switzerland: Zürich: Stallikon	unknown	-	-	0.96	-	-	This study
TAT01	Switzerland: Zürich: Thalheim an der Thur	3	y1	y1	0.12	-	-	This study
GRF01	Switzerland: Zürich: Uster	E	h1	h1	0.78	-	-	This study
WE01	Switzerland: Zürich: Weiach	3	y1	y1	0.16	-	-	This study
WE02	Switzerland: Zürich: Weiach	3	y1	y36	0.21	-	-	This study
WE03	Switzerland: Zürich: Weiach	3	y33	y1	0.02	0.96	0.06	This study
MUE03	Switzerland: Zürich: Wettswil am Albis	unknown	-	-	0.99	-	-	This study
MUE04	Switzerland: Zürich: Wettswil am Albis	unknown	-	-	0.99	-	-	This study
WIN01	Switzerland: Zürich: Winterthur: Sennhof	E	h1	h1	0.44	-	-	This study
WIN02	Switzerland: Zürich: Winterthur: Sennhof	E	h1	h1	0.21	-	-	This study
WIN03	Switzerland: Zürich: Winterthur: Sennhof	E	h1	h1	0.41	-	-	This study
WIN04	Switzerland: Zürich: Winterthur: Sennhof	E	h1	h1	0.31	-	-	This study
ZEL01	Switzerland: Zürich: Zeli	E	h1	h1	0.38	-	-	This study
ZEL02	Switzerland: Zürich: Zeli	E	h1	h1	0.31	-	-	This study
ZEL03	Switzerland: Zürich: Zeli	E	h1	h1	0.25	-	-	This study
ZEL04	Switzerland: Zürich: Zeli	E	h1	h1	0.44	-	-	This study
ZEL05	Switzerland: Zürich: Zeli	E	h1	h1	0.58	-	-	This study
ZEL06	Switzerland: Zürich: Zeli	E	h1	h1	0.38	-	-	This study
ZEL07	Switzerland: Zürich: Zeli	E	h1	h1	0.39	-	-	This study
ZHC01	Switzerland: Zürich: Zürich	E	h1	h1	0.96	-	-	This study
ZHC02	Switzerland: Zürich: Zürich	E	h1	h1	1.00	-	-	This study
ZHN01	Switzerland: Zürich: Zürich: Affoltern	E	h1	h12	1.00	-	-	This study
ZHN02	Switzerland: Zürich: Zürich: Affoltern	E	h1	h3	0.83	-	-	This study
KL001	Switzerland: Zürich: Zürich: Airport	3	y1	y1	0.31	-	-	This study
KL002	Switzerland: Zürich: Zürich: Airport	3	y1	y1	0.25	-	-	This study
KL003	Switzerland: Zürich: Zürich: Airport	3	y1	y1	0.41	-	-	This study
KL004	Switzerland: Zürich: Zürich: Airport	E	h1	h12	0.35	-	-	This study
KL005	Switzerland: Zürich: Zürich: Airport	3	y1	y1	0.22	-	-	This study
KL006	Switzerland: Zürich: Zürich: Airport	3	y1	y1	0.34	-	-	This study
KL007	Switzerland: Zürich: Zürich: Airport	E	h1	h12	0.26	-	-	This study
KL008	Switzerland: Zürich: Zürich: Airport	3	y1	y1	0.44	-	-	This study
KL009	Switzerland: Zürich: Zürich: Airport	3	y1	y1	0.26	-	-	This study
KL010	Switzerland: Zürich: Zürich: Airport	3	y1	y1	0.33	-	-	This study
ZFMK 47034	Turkey: Aegean Region: between Söke and Doğanbey	7	-	gy12	0.02	0.03	-	Kindler et al. (2013)
ZFMK 82946	Turkey: Aegean Region: Dalyan	7	HF679889	gy13	0.01	0.03	-	Kindler et al. (2013)
MTD D 25227	Turkey: Aegean Region: Selçuk	7	gy11	HF680188	0.02	0.01	-	Kindler et al. (2013)
MTD D 25229	Turkey: Aegean Region: Selçuk	7	gy8	-	0.15	-	-	Kindler et al. (2013)
MTD D 25230	Turkey: Aegean Region: Selçuk	7	gy8	HF680189	0.03	0.02	-	Kindler et al. (2013)
NHSMW 38053	Turkey: Black Sea Region: 10 km E Gerde	8	gn14	gn16	0.02	0.02	-	This study
ZFMK 71143	Turkey: Black Sea Region: between Hopa and Arhavi	8	-	gn15	0.00	0.02	-	Kindler et al. (2013)
ZFMK 71144	Turkey: Black Sea Region: between Hopa and Arhavi	8	-	gn14	0.00	0.01	-	Kindler et al. (2013)
ZFMK 71145	Turkey: Black Sea Region: Buzluca	8	gn13	gn18	0.00	0.02	-	Kindler et al. (2013)
REV 37392	Turkey: Marmara Region: Beşevler	7	gy7	gy8	0.00	0.02	-	This study
MTD D 42725	Ukraine: Crimean: Lachytse	8	gn1	gn8	0.00	0.03	-	Kindler et al. (2013)
MTD D 42724	Ukraine: Oblast Herson: Holsi Prystan; Herson'ke	8	gn6	gn12	0.00	0.04	-	Kindler et al. (2013)

Museum acronyms of vouchers for Table S1:

BEV – Laboratoire de Biogéographie et Ecologie des Vertébrés, Centre d’Ecologie
Fonctionnelle & Evolutive, Montpellier

LMNM – Landesmuseum Natur und Mensch, Oldenburg

MTD D – Museum of Zoology, Senckenberg Dresden (Herpetological Collection)

MTD T – Museum of Zoology, Senckenberg Dresden (Tissue Collection)

MWLK – Museum der Westlausitz, Kamenz

NHMW – Naturhistorisches Museum Wien

NME – Naturkundemuseum Erfurt

SMF – Forschungsinstitut und Naturmuseum Senckenberg, Frankfurt a.M.

SMNS – Staatliches Museum für Naturkunde Stuttgart

SMNK – Staatliches Museum für Naturkunde Karlsruhe

ZFMK – Zoologisches Forschungsmuseum Alexander Koenig, Bonn

ZMB – Museum für Naturkunde Berlin

ZMH – Zoologisches Museum Hamburg

ZMUO – Zoologisk museum, Universitetet i Oslo

ZSM – Zoologische Staatssammlung München

ZSUM – Zoologische Sammlung der Philipps-Universität Marburg

Table S2. Akaike Information Criterion (AIC) scores for fitted clines under different models using the R package HZAR (Derryberry *et al.* 2014). Bold values in blue indicate the best-fit model from the 15-model comparison.

	Contact zone I		Contact zone II	
	Microsatellites	mtDNA	Microsatellites	mtDNA
Null Model	152.846	184.261	68.427	254.247
Model 1	38.966	17.566	11.670	74.262
Model 2	22.132	n/a	11.366	n/a
Model 3	17.449	21.839	15.249	78.504
Model 4	18.120	25.038	18.909	n/a
Model 5	17.692	n/a	18.865	82.518
Model 6	23.491	30.390	22.930	86.930
Model 7	29.795	21.169	15.795	78.360
Model 8	13.501	n/a	15.365	n/a
Model 9	19.169	26.013	18.782	82.610
Model 10	36.967	21.694	15.573	78.360
Model 11	26.258	n/a	15.353	n/a
Model 12	21.600	26.034	19.168	82.724
Model 13	15.214	21.694	15.111	78.360
Model 14	15.295	n/a	15.119	n/a
Model 15	20.469	25.999	19.306	82.733

Table S3. European Nucleotide Archive (ENA) accession numbers of ND4 and *cyt b* haplotypes.

ND4 haplotype	Accession number	<i>cyt b</i> haplotype	Accession number
<i>helvetica</i>			
h1	LT839092	h1	LT839229
h2	LT839093	h2	LT839230
h3	LT839094	h3	LT839231
h4	LT839095	h4	LT839232
h5	LT839096	h5	LT839233
h6	LT839097	h6	LT839234
h7	LT839098	h7	LT839235
h8	LT839099	h8	LT839236
h9	LT839100	h9	LT839237
h10	LT839101	h10	LT839238
h11	LT839102	h11	LT839239
h12	LT839103	h12	LT839240
		h13	LT839241
		h14	LT839242
		h15	LT839243
		h16	LT839244
		h17	LT839245
		h18	LT839246
		h19	LT839247
		h20	LT839248
		h21	LT839249
		h22	LT839250
		h23	LT839251
		h24	LT839252
		h25	LT839253
		h26	LT839254
		h27	LT839255
		h28	LT839256
		h29	LT839257
Yellow lineage (lineage 3 of Kindler <i>et al.</i>, 2013)			
y1	LT839104	y1	LT839258
y2	LT839105	y2	LT839259
y3	LT839106	y3	LT839260
y4	LT839107	y4	LT839261
y5	LT839108	y5	LT839262
y6	LT839109	y6	LT839263
y7	LT839110	y7	LT839264
y8	LT839111	y8	LT839265
y9	LT839112	y9	LT839266
y10	LT839113	y10	LT839267
y11	LT839114	y11	LT839268
y12	LT839115	y12	LT839269
y13	LT839116	y13	LT839270
y14	LT839117	y14	LT839271
y15	LT839118	y15	LT839272
y16	LT839119	y16	LT839273
y17	LT839120	y17	LT839274
y18	LT839121	y18	LT839275
y19	LT839122	y19	LT839276
y20	LT839123	y20	LT839277
y21	LT839124	y21	LT839278

• Table S3 continued

Yellow lineage (lineage 3 of Kindler <i>et al.</i>, 2013)			
y22	LT839125	y22	LT839279
y23	LT839126	y23	LT839280
y24	LT839127	y24	LT839281
y25	LT839128	y25	LT839282
y26	LT839129	y26	LT839283
y27	LT839130	y27	LT839284
y28	LT839131	y28	LT839285
y29	LT839132	y29	LT839286
y30	LT839133	y30	LT839287
y31	LT839134	y31	LT839288
y32	LT839135	y32	LT839289
y33	LT839136	y33	LT839290
y34	LT839137	y34	LT839291
y35	LT839138	y35	LT839292
y36	LT839139	y36	LT839293
y37	LT839140	y37	LT839294
y38	LT839141	y38	LT839295
y39	LT839142	y39	LT839296
y40	LT839143	y40	LT839297
y41	LT839144	y41	LT839298
y42	LT839145	y42	LT839299
y43	LT839146		
Red lineage (lineage 4 of Kindler <i>et al.</i>, 2013)			
r1	LT839147	r1	LT839300
r2	LT839148	r2	LT839301
r3	LT839149	r3	LT839302
r4	LT839150	r4	LT839303
r5	LT839151	r5	LT839304
r6	LT839152	r6	LT839305
r7	LT839153	r7	LT839306
r8	LT839154	r8	LT839307
r9	LT839155	r9	LT839308
r10	LT839156	r10	LT839309
r11	LT839157	r11	LT839310
r12	LT839158	r12	LT839311
r13	LT839159	r13	LT839312
r14	LT839160	r14	LT839313
r15	LT839161	r15	LT839314
r16	LT839162	r16	LT839315
r17	LT839163	r17	LT839316
r18	LT839164	r18	LT839317
r19	LT839165	r19	LT839318
r20	LT839166	r20	LT839319
r21	LT839167	r21	LT839320
r22	LT839168	r22	LT839321
r23	LT839169	r23	LT839322
r24	LT839170	r24	LT839323
r25	LT839171	r25	LT839324
r26	LT839172	r26	LT839325
r27	LT839173	r27	LT839326
r28	LT839174	r28	LT839327
r29	LT839175	r29	LT839328
r30	LT839176	r30	LT839329
r31	LT839177	r31	LT839330

• Table S3 continued

Red lineage (lineage 4 of Kindler <i>et al.</i>, 2013)			
r32	LT839178	r32	LT839331
r33	LT839179	r33	LT839332
		r34	LT839333
		r35	LT839334
		r36	LT839335
		r37	LT839336
		r38	LT839337
		r39	LT839338
		r40	LT839339
		r41	LT839340
		r42	LT839341
		r43	LT839342
		r44	LT839343
		r45	LT839344
		r46	LT839345
		r47	LT839346
		r48	LT839347
		r49	LT839348
		r50	LT839349
		r51	LT839350
		r52	LT839351
		r53	LT839352
		r54	LT839353
		r55	LT839354
		r56	LT839355
		r57	LT839356
		r58	LT839357
		r59	LT839358
		r60	LT839359
		r61	LT839360
		r62	LT839361
		r63	LT839362
		r64	LT839363
		r65	LT839364
		r66	LT839365
Lilac lineage (lineage 5 of Kindler <i>et al.</i>, 2013)			
11	LT839180	11	LT839366
12	LT839181	12	LT839367
13	LT839182	13	LT839368
14	LT839183	14	LT839369
15	LT839184	15	LT839370
16	LT839185	16	LT839371
17	LT839186	17	LT839372
18	LT839187	18	LT839373
19	LT839188	19	LT839374
110	LT839189	110	LT839375
111	LT839190	111	LT839376
112	LT839191	112	LT839377
113	LT839192	113	LT839378
114	LT839193	114	LT839379
115	LT839194	115	LT839380
116	LT839195	116	LT839381
117	LT839196	117	LT839382
118	LT839197	118	LT839383

• Table S3 continued

Lilac lineage (lineage 5 of Kindler <i>et al.</i>, 2013)			
l19	LT839198	l19	LT839384
l20	LT839199	l20	LT839385
		l21	LT839386
		l22	LT839387
Grey lineage (lineage 7 of Kindler <i>et al.</i>, 2013)			
gy1	LT839200	gy1	LT839388
gy2	LT839201	gy2	LT839389
gy3	LT839202	gy3	LT839390
gy4	LT839203	gy4	LT839391
gy5	LT839204	gy5	LT839392
gy6	LT839205	gy6	LT839393
gy7	LT839206	gy7	LT839394
gy8	LT839207	gy8	LT839395
gy9	LT839208	gy9	LT839396
gy10	LT839209	gy10	LT839397
gy11	LT839210	gy11	LT839398
		gy12	LT839399
		gy13	LT839400
Green lineage (lineage 8 of Kindler <i>et al.</i>, 2013)			
gn1	LT839211	gn1	LT839401
gn2	LT839212	gn2	LT839402
gn3	LT839213	gn3	LT839403
gn4	LT839214	gn4	LT839404
gn5	LT839215	gn5	LT839405
gn6	LT839216	gn6	LT839406
gn7	LT839217	gn7	LT839407
gn8	LT839218	gn8	LT839408
gn9	LT839219	gn9	LT839409
gn10	LT839220	gn10	LT839410
gn11	LT839221	gn11	LT839411
gn12	LT839222	gn12	LT839412
gn13	LT839223	gn13	LT839413
gn14	LT839224	gn14	LT839414
gn15	LT839225	gn15	LT839415
gn16	LT839226	gn16	LT839416
		gn17	LT839417
		gn18	LT839418
		gn19	LT839419
		gn20	LT839420
		gn21	LT839421
Lineage C of Kindler <i>et al.</i> (2013)			
c1	LT839227	c1	LT839422
		c2	LT839423
Lineage F of Kindler <i>et al.</i> (2013)			
f1	LT839228	f1	LT839424

Table S4. Used microsatellite loci. For primer sequences, annealing temperature and multiplex-sets, see Pokrant *et al.* (2016).

Locus	Repeat motif	Allele size range [bp]	Number of alleles	Original reference
Natnat09	(AC) ₂₂	80 - 144	25	Meister <i>et al.</i> (2009)
Natnat05	(GT) ₁₆	136 - 194	23	Meister <i>et al.</i> (2009)
μNt8new	(AC) ₁₅	75 - 123	20	Meister <i>et al.</i> (2009)
Nsμ3	(ATCT) ₁₄ ATC(CA) ₂₀	139 - 457	39	Prosser <i>et al.</i> (1999)
μNt3	(AC) ₁₆	111 - 163	24	Gautschi <i>et al.</i> (2000)
μNt7	(AC) ₁₇	164 - 212	25	Gautschi <i>et al.</i> (2000)
30	(CA) ₁₄	225 - 271	20	Burns & Houlden (1999)
Natnat11	(GA) ₁₃	102 - 228	25	Meister <i>et al.</i> (2009)
Natnat06	(GT) ₂₁	145 - 185	16	Meister <i>et al.</i> (2009)
Tbu A09	(AC) ₇	110 - 146	17	Sloss <i>et al.</i> (2012)
3TS	(GATA) ₁₉	186 - 270	20	Garner <i>et al.</i> (2002)
Eobμ1	(TG) ₂₁	120 - 142	12	Blouin-Demers & Gibbs (2003)
Eobμ13	(AC) ₂₀	118 - 162	19	Blouin-Demers & Gibbs (2003)

Table S5. Genetic diversity of STRUCTURE clusters based on 13 microsatellite loci. n number of individuals, n_A number of alleles, $n_{\bar{A}}$ average number of alleles per locus, n_P number of private alleles, AR allelic richness, H_O average observed heterozygosity, H_E average expected heterozygosity. F_{IS} inbreeding coefficient, F_{ST} fixation index. Individuals with mixed ancestries not considered. All F_{IS} and F_{ST} values were statistically significant.

Microsatellites									
Cluster	n	n_A	$n_{\bar{A}}$	n_P	AR	H_O	H_E	F_{IS}	F_{ST}
First STRUCTURE run									
<i>helvetica</i>	350	156	12.000	45	4.505	0.404	0.548	0.265	0.40
Eastern lineages*	953	230	17.692	119	5.761	0.501	0.612	0.182	
Second STRUCTURE run									
Yellow + red lineage	502	121	9.308	19	7.185	0.453	0.510	0.112	0.18
Adjacent lineages**	100	186	14.308	84	14.006	0.510	0.712	0.285	
Third STRUCTURE run									
Yellow	175	83	6.385	12	6.025	0.423	0.467	0.095	0.11
Red	122	102	7.846	31	7.722	0.501	0.555	0.098	

*Yellow, red, lilac, grey and green lineages

**Lilac, grey and green lineages

Table S6. Simulated data. Twenty samples of each parental group were chosen as pure parental genotypes. Using this data, 20 genotypes of each hybrid class (F₁, F₂ and the two backcrosses) were modelled in HYBRIDLAB and analyzed with STRUCTURE. Individuals with *Q* values ≥ 92% were reliably identified as pure *helvetica*, individuals with *Q* values ≥ 95% as eastern grass snakes. Regarding the yellow and red lineages, the differentiation from backcrosses was more difficult. Although there was a misassignment rate of 5% for the pure yellow lineage, we decided to treat grass snakes with at least 80% cluster membership as pure yellow because otherwise the misidentification rate with backcrosses would be too high. Individuals with at least 83% were treated as pure red.

	Parental group 1	Parental group 2	F ₁ (referred to parental 1 cluster)	F ₁ (referred to parental 2 cluster)	F ₂ (referred to parental 1 cluster)	F ₂ (referred to parental 2 cluster)	Backcross parental 1	Backcross parental 2
	<i>helvetica</i>	Eastern lineages						
Average <i>Q</i> score	0.965	0.971	0.493	0.507	0.467	0.533	0.772	0.765
SD	0.013	0.007	0.034	0.034	0.095	0.095	0.078	0.066
Minimum <i>Q</i>	0.921	0.954	0.444	0.444	0.328	0.319	0.634	0.661
Maximum <i>Q</i>	0.997	0.979	0.556	0.556	0.681	0.672	0.968	0.912
Misassignment	if <i>Q</i> < 92%: 0%	if <i>Q</i> < 95%: 0%	if <i>Q</i> < 92%: 0%	if <i>Q</i> < 95%: 0%	if <i>Q</i> < 92%: 0%	if <i>Q</i> < 95%: 0%	if <i>Q</i> < 92%: 5%	if <i>Q</i> < 95%: 0%
	Yellow lineage	Red lineage						
Average <i>Q</i> score	0.880	0.890	0.480	0.520	0.580	0.420	0.740	0.720
SD	0.049	0.033	0.149	0.149	0.192	0.192	0.140	0.148
Minimum <i>Q</i>	0.770	0.825	0.191	0.310	0.206	0.150	0.442	0.353
Maximum <i>Q</i>	0.935	0.940	0.690	0.809	0.850	0.794	0.925	0.917
Misassignment	if <i>Q</i> < 80%: 5%	if <i>Q</i> < 83%: 0%	if <i>Q</i> < 80%: 0%	if <i>Q</i> < 83%: 0%	if <i>Q</i> < 80%: 15%	if <i>Q</i> < 83%: 0%	if <i>Q</i> < 80%: 40%	if <i>Q</i> < 83%: 30%

References

- Blouin-Demers, G. & Gibbs, H.L. Isolation and characterization of microsatellite loci in the black rat snake (*Elaphe obsoleta*). *Mol. Ecol. Notes* **3**, 98–99 (2003).
- Burns, E.L. & Houlden, B.A. Isolation and characterization of microsatellite markers in the broad-headed snake *Hoplocephalus bungaroides*. *Mol. Ecol.* **8**, 520–521 (1999).
- Derryberry, E.P., Derryberry, G.E., Maley, J.M. & Brumfield, R.T. HZAR: hybrid zone analysis using an R software package. *Mol. Ecol. Resour.* **14**, 652–663 (2014).
- Fritz, U., Corti, C. & Päckert, M. Mitochondrial DNA sequences suggest unexpected phylogenetic position of Corso-Sardinian grass snakes (*Natrix cetti*) and do not support their species status, with notes on phylogeography and subspecies delineation of grass snakes. *Org. Divers. Evol.* **12**, 71–80 (2012).
- Garner, T.W.J. *et al.* Geographic variation of multiple paternity in the common garter snake (*Thamnophis sirtalis*). *Copeia* **2002**, 15–23 (2002).
- Gautschi, B., Widmer, A. & Koella, J. Isolation and characterization of microsatellite loci in the dice snake (*Natrix tessellata*). *Mol. Ecol.* **9**, 2192–2193 (2000).
- Kabisch, K. *Natrix natrix* (Linnaeus, 1758) – Ringelnatter in *Handbuch der Reptilien und Amphibien Europas. Band 3/IIA: Schlangen II* (ed Böhme, W.), 513–580 (Aula-Verlag, 1999).
- Kindler, C. *et al.* Mitochondrial phylogeography, contact zones and taxonomy of grass snakes (*Natrix natrix*, *N. megalcephala*). *Zool. Scr.* **42**, 458–472 (2013).
- Kindler, C., Bringsøe, H. & Fritz, U. Phylogeography of grass snakes (*Natrix natrix*) all around the Baltic Sea: implications for the Holocene colonization of Fennoscandia. *Amphibia-Reptilia* **35**, 413–424 (2014).
- Kreiner, G. *Die Schlangen Europas* (Chimaira, 2007).
- Meister, B., Armbruster, F.J., Frauenfelder, N. & Bauer, B. Novel microsatellite loci in the grass snake (*Natrix natrix*) and cross-amplification in the dice snake (*Natrix tessellata*). *Mol. Ecol. Resour.* **9**, 604–606 (2009).
- Pokrant, F. *et al.* Integrative taxonomy provides evidence for the species status of the Ibero-Maghrebian grass snake *Natrix astreptophora*. *Biol. J. Linn. Soc.* **118**, 873–888 (2016).
- Prosser, M.R., Gibbs, H.L. & Weatherhead, P.J. Microgeographic population genetic structure in the northern water snake, *Nerodia sipedon sipedon* detected using microsatellite DNA loci. *Mol. Ecol.* **8**, 329–333 (1999).
- Sloss, B.L., Schuurman, G.W., Paloski, R.A., Boyle, O.D. & Kapfer, J.M. Novel microsatellite loci for studies of *Thamnophis* gartersnake genetic identity and hybridization. *Conserv. Genet. Resour.* **4**, 383–386 (2012).