

Table S5. Details of ancient and modern-day populations used in comparative analyses.

MODERN-DAY POPULATIONS				
Population names	label	N	References	BayeSSC pools
Albanians	ALB	281	[1,2,3]	
Aleuts	ale	199	[4]	
Kizhi	alt	90	[5]	
Armenians	ARM	192	[6]	
Aromuns	aro	133	[2]	
Austrians	AUT	117	[7,8]	
Azeris	AZE	88	[9,10]	
Bashkirs	BA	207	[11]	
Byelorussians	BEL	352	[3,12]	
Bulgarians	BGR	141	[9,13]	
Bosnians	BIH	322	[14,15]	
Buryats	BU	411	[5,16,17]	
Swiss	CHE	230	[18,19]	
Chukchi	CHU	262	[4,17,20]	
Chuvash	CU	92	[9,11]	
Cyprus	CYP	91	[21]	
Czech	CZE	449	[3,9,22,23]	CE
Germans	DEU	1406	[24,25,26,27,28]	CE
Eskimo	esk	825	[4,20,29,30,31]	
Spanish	ESP	704	[32,33,34,35,36,37]	
Estonians	EST	662	[3,18,39,39,40]	NEE
Evenks	eve	407	[5,16,17,41,42]	
Finns	FIN	508	[43,44,45]	NEE
French	FRA	998	[46,47]	
British	GBR	2418	[9,24,48,49,50]	
Georgians	GEO	158	[3,10]	
Greeks	GRC	656	[2,3,9,21]	
Croatians	HRV	980	[3,51]	
Hungarians	HUN	190	[3,52]	
Irish	IRL	300	[52,53]	
Iranians	IRN	517	[10,54]	
Iraq	IRQ	168	[9,55]	
Iraqi	ISL	448	[24,38,56]	
Sardinians	IT-88	115	[9]	
Italians	ITA	936	[9,57,58,59,60,61,62]	
Jordanians	JOR	146	[63]	
Kabardians	kab	163	[3,9]	
Kets	ket	104	[3,64]	
Khamnigans	kham	99	[17]	
Khants	khan	318	[3,65]	

Khakassians	KK	110	[5,16,17]	
Komi	KO	127	[11]	
Koryaks	kor	147	[66]	
Karelians	KR	305	[40]	NEE
Kurds	kur	73	[9,10]	
Lithuanians	LTU	180	[3]	NEE
Latvians	LVA	413	[40,67]	NEE
Mansi	man	161	[64,65]	
Mari	ME	136	[11]	
Mongolians	MNG	262	[17,68,69,70]	
Mordvinians	MO	99	[11]	
Nenets Asian	NEN_A	79	[3]	
Nenets European	NEN_E	128	[29,71]	
Nganasans	nga	118	[4,64,72]	
Nivkhs	niv	113	[5,41]	
Nogays	nog	206	[73]	
Norwegians	NOR	663	[9,49,74,75,76]	
Poles	POL	583	[3,9,77]	CE
Portuguese	PRT	848	[37,78]	
Palestinians	PSE	117	[9]	
Romanians	ROU	197	[2,9]	
Yakuts	SA	770	[3,16,17,79,80,81]	
Saami	saa	559	[38,44,71,74,82,83]	saa
Saudi Arabians	SAU	325	[3,84]	
Ossets	SE	289	[3,9]	
Selkups	sel	120	[3]	
Shors	sho	82	[17]	
Slovaks	SVK	510	[85]	
Slovenians	SVN	233	[77,86]	
Swedes	SWE	646	[3]	
Syrians	SYR	169	[3,9]	
Tatars	TA	225	[11]	
Telenghits	tel	71	[17]	
Tofalars	tof	104	[5,16]	
Tubalars	tub	72	[17]	
Turks	TUR	608	[3,9,10,13]	
Tuvinians	tuv	645	[3,5,16,17,42,71]	
Udmurts	UD	109	[11]	
Ukrainians	UKR	610	[3]	
Ulchi	ulc	166	[5]	
Yukagir	yuk	153	[4,42]	

ANCIENT POPULATIONS				
Population name	label	N	References	Dates
Bol'shoy Oleni Ostrov individuals	aBOO	23	this study	3,500 uncal. yBP
Bol'shoy Oleni Ostrov individuals (non-redundant haplotypes)	aBOO2	9	this study	3,500 uncal. yBP
Confederated nomads of the Xiongnu	aEG	46	[87]	2,200-2,300 yBP
Central/East Europe hunter-gatherers	aHG	22	[88,89]	4,250-30,000 yBP
Nomads from Kazakhstan	aKAZ	25	[90]	2,100-3,400 yBP
Siberian Kurgans	aKUR	26	[91]	1,600-3,800 yBP
Central Germany Linear Pottery Culture Neolithic individuals	aLBK	42	[92]	7,000-7,500 yBP
Lokomotiv Kitoi Neolithic individuals	aLOK	30	[93]	6,130-7,140 yBP
Popovo individuals	aPo	2	this study	7,000 uncal. yBP
Scandinavian Pitted-Ware Culture foragers	aPWC	19	[94]	4,500-5,300 yBP
Spanish Neolithic individuals	aSP	11	[95]	5,000-5,500 yBP
Ust'Ida Neolithic population	aUST	17	[96]	4,000-5,800 yBP
Yuzhnyy Oleni Ostrov individuals	aUz	9	this study	7,500 yBP
Uzhnyi Oleni Ostrov/Popovo individuals	aUzPo	11	this study	7,500 uncal. yBP
Uzhnyi Oleni Ostrov/Popovo individuals (non-redundant haplotypes)	aUzPo2	7	this study	7,500 uncal. yBP

BayeSSC, Bayesian SerialSimCoal; CEE, central Europeans ; NEE, North East Europeans; saa, Saami.

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